Installation, Operation and Troubleshooting Instructions
Adamatic Modular Proofers

For Panera Roll-In Model: AP-51

Manual Part No.: P6924700
Rev: 03
Print Date: xx/xx/xx

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PART OF AGA Bakery

Proofer Cabinet Installation & Initial Start-Up Checklist

Proper installation is the first step to operation. We recommend that your proofer cabinet be installed by an authorized Certified Installer. This original checklist is to be signed and returned to Adamatic with warranty card.

Electrical

❑ Record Voltage to Proofer Cabinet (*recommended 220-240V/60Hz/3Ph)

Voltage Reading: _____

*For proofer cabinets installed in older facilities, make sure a qualified electrician has confirmed that there are no Delta or Wild Legs as part of the main power supply. Fluctuating or spiking voltage can destroy electronic components that will not be covered by warranty.

❑ Record Amperage

Amperage Reading: _____

Components

❑ Check Fans for Proper Rotation (*fans should be pushing or blowing in outward direction)

❑ Test Light in Proof Box (*if required)

❑ Check Door(s) Operation

- Make sure door(s) are even
- Make sure closer lip properly seats into hook when closing door(s)
- Make sure vertical wiper gasket is tightly mounted to door
- Make sure all door hinges are tightened when satisfied with door placement and operation
- Make sure this is no restriction when closing door(s)

❑ Check Water Solenoid Operation (*solenoid will energize after 10 minutes of pre-heating)

❑ Check Cove Molding & Proper Sealing (*cove molding is to be installed inside cabinet)

Calibration **(*if required)**

*Note: It is highly recommended that the proofer cabinet be calibrated at 85% humidity. Make sure all Heat & humidity Monitoring Equipment has been properly calibrated and tested before making adjustments to the proof cabinet set points! Heat & Humidity Set-Point Viewing & Calibration Instruction follows this checklist.

❑ Compare Proofer Cabinet Temperature with Calibrated Equipment

❑ Compare Proofer Cabinet Humidity with Calibrated Equipment

Instruction

❑ Instruct customer of proper use of proof cabinet

❑ Instruct customer of preventive maintenance & cleaning (i.e. gaskets, vapor check for properly operating spray nozzle, filter check & change out, etc.)

Installed and Checked by: _____ Date: _____

RECEIVING SHIPMENT

All units are performance tested and thoroughly inspected prior to shipment. Upon receipt, examine the exterior of the shipment packaging for any signs of rough handling. If the cabinet is damaged, it should be noted on the delivery slip or bill of lading and signed. A claim must be filed immediately against the carrier indicating the extent and estimated cost of damage incurred.

INSTALLATION GUIDELINES

Proper installation is the first step to operation. We recommend that your proofer be installed by an authorized Certified Installer. An installation checklist is located at the front of manual and must be checked off and signed by installer of choice. The original checklist is to be returned with warranty card.

Consider the following when selecting a location for your proofer:

1. **Clearance -** There must be a minimum clearance of 24” (inches) between the top of the proofer and the ceiling.

2. **Floor Load -** The floor on which the cabinet will rest must be free of vibration and suitably strong enough to support the combined weights of the cabinet plus the maximum product load.

FLOOR & WALL BASE ANGLE INSTALLATION

***Note:** All pictures show the protective vinyl coat on parts described in this instruction document. Make sure all vinyl protective coating is removed before installation. Same method of installation applies to Floorless Proof Boxes with Wall Base Angles only.

Tools Needed: *Drill with ¼" (inch) Masonry Bit, Tubes of Silicon, Dynabolt Anchors, Screw Driver, & Trowel*

1. Find location to assemble proof cabinet. Before assembly, make sure designated floor area and neighboring wall space is level, clean and free of any obstruction.

2. If supplied, place Stainless Steel Floor on appointed floor space and mark along the edges. (***Note:** Same method of installation applies to Floorless Proof Boxes with Wall Base Angles only!)

3. Remove Stainless Steel Floor and apply beads of Floor Adhesive along the bottom while properly spreading with Trowel. Make sure the bead is continuous around the edge of Stainless Steel Floor.

4. Seat Stainless Steel Floor over designated floor space and lightly walk on the Floor. Put still weight on the Stainless Steel Floor so that Adhesive will keep in required contact with Floor beneath (i.e. weights, boxes with weight, etc).

5. Place Wall Base Angles around the edge of Stainless Steel Floor. Make sure that holes located at ends of the Wall Base Angles align over the holes in Stainless Steel Floor.

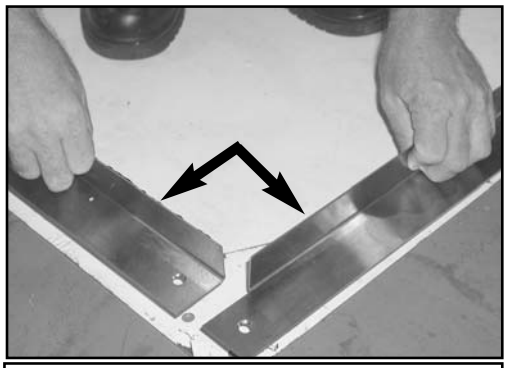
6. Drill Floor Holes through the Wall Base Angles with a 1/4" diameter drill bit for placement of Concrete Floor Anchors.

   - Mark drill bit at 1-1/2" (inches) from the end. Drill until mark is aligned with the top of the Stainless Steel Floor. Do not drill beyond the mark on the drill bit!

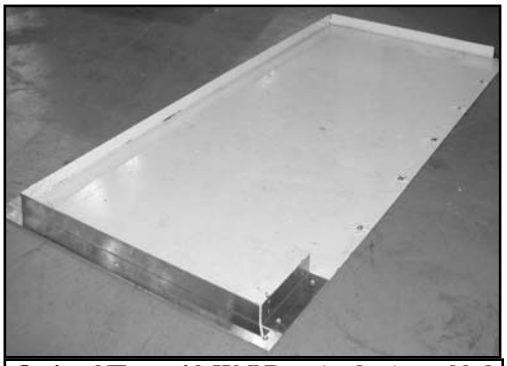
   - Clear concrete dust from holes. (***Note:** all debris from drilling must be removed before installation or Anchors will not work!)

   - If proof cabinet is mounted on stone or ceramic tile, extend holes and Anchors into concrete substrate.

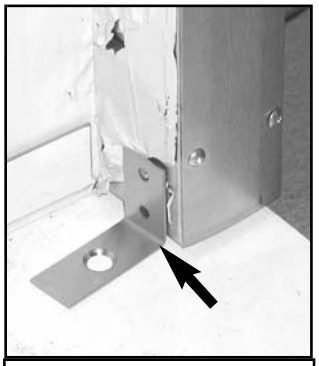
7. Install Anchors in the holes of Wall Base Angles and set in place.



Wall Base Angles



Optional Floor with Wall Base Angles Assembled
***Note:** Floor shown with vinyl for clarity. Remove before assembling!



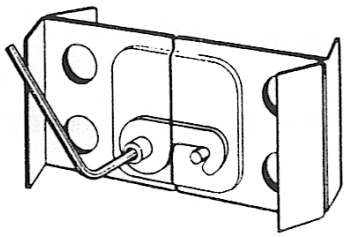
Floor Anchor Placed at end after checking Corner.

CAM-LOCKING PANELS

Tools Needed **:** *Allen Wrench (*supplied with accessories)*

All Proofer Cabinet Panels are joined together by Cam-Locks. Panel sections lock together from inside the Proofer Cabinet to provide accurate tight joining. Always align top edges and inner face of Panels as you lock them together.

***Note:** From inside Proofer Cabinet, all Cams turn clockwise with exception of inner left hand side of Header that turns counter-clockwise. All Male Cam direction of turn is marked on required panels.



Illustrations show cam-lock panel mechanism from inside the proofer cabinet.

APPLYING FOAM TAPE

3/4" Wide Foam Tape has been provided for Proof Cabinet Panel sealing. Foam Tape should be placed over Foam Insulation of all Panel Edges with Male Cams. See ***Figure 1***.

Once Foam Tape has been applied to Panel, cut Slit at all Male Cam locations. See ***Figure 2***.

***Note:** Only one strip of Foam Tape should be placed in between Panels. This will guarantee proper Seal and Cam Locking.

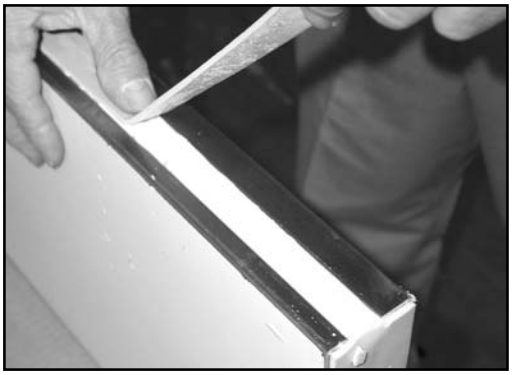
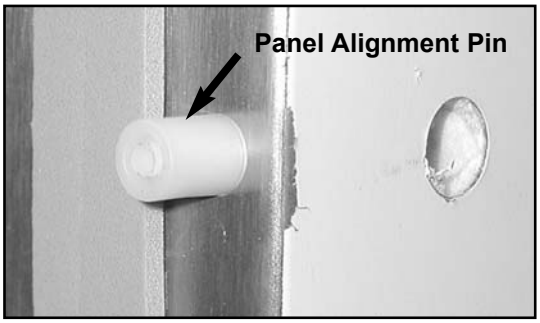


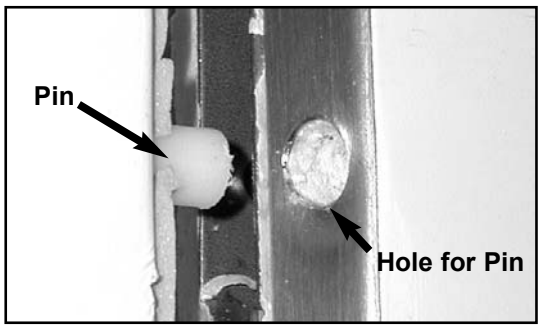
Figure 1

Figure 2

PANEL ALIGNMENT PINS

Panel Alignment Pins have been supplied with your Proof Cabinet and are placed on Panel sides with Male Cams only. Pins support easy alignment and allow Male Cams to properly catch into Female Cams.





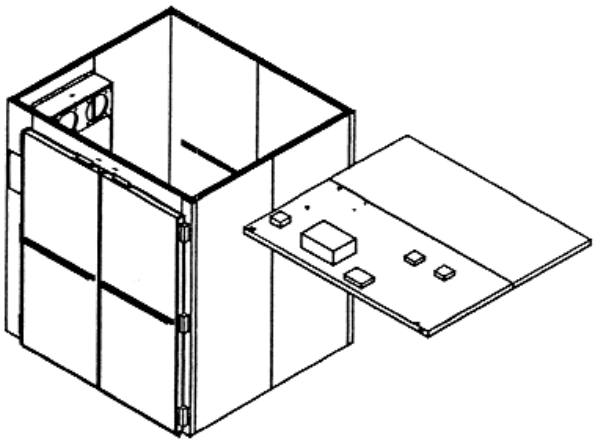
PANEL ASSEMBLY

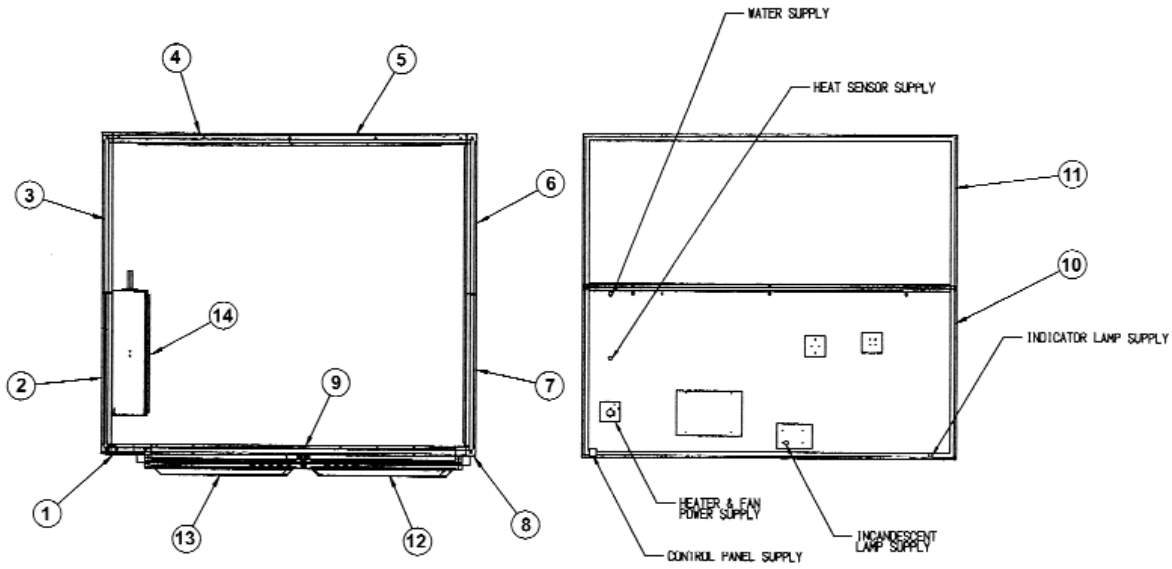
A drawing is supplied with all Proofer Cabinets to assure correct placement of Panels. Each Panel is individually marked with a number to assist with the assembly sequence. An example is shown below.

Silicone has also been provided to fill in Interior and Exterior Seams between Panels after assembly.

**Note: All cams turn clockwise unless label on panel indicates otherwise!*

Item	Part No.	Part Description	Qty
1	P7900101	10" x 82" Panel, Front Left with Controller	1
2 & **6**	P7907401	30.5" x 82" Panel, Side Left Front/Right Rear	2
3 & **7**	P7907301	30.5" x 82" Panel, Side Left Rear/ Right Front	2
4	P7905301	37" x 82" Panel, Rear Left	1
5	P7905401	37" x 82" Panel, Rear Right	1
8	P7900801	4" x 82" Panel, Front Right	1
9	P7900901	6" x 60" Panel, Header with Light	1
10	P7901001	34" x 74" Panel, Front Roof	1
11	P7901101	31" x 74" Panel, Rear Roof	1
12	P7903601	Door Assembly, RH with Horizontal Handle	1
13	P7903501	Door Assembly, LH with Horizontal Handle	1
14	P7907501	4-Heater Air Wash Housing Assembly	1





APPLYING COVE MOLDING

***Note:** All pictures show the protective vinyl coat on parts described in this instruction. Make sure all vinyl protective coating is removed before installing cove molding.

Tools Needed: *Screw Gun, Rubbing Alcohol, Paper Towels and Measuring Tape*

1. Measure Top and Bottom of Proof Box to check for proper alignment. See ***Figure 1***.

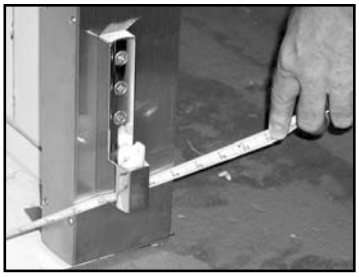


Figure 1

2. Wipe down Proof Box Interior Wall Base Angles and Exterior Wall Bottom with Rubbing Alcohol. See ***Figure 2 & 2a***.

Figure 2

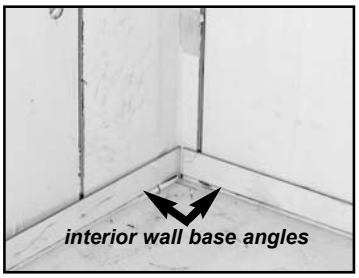


Figure 2a

3. Cut Cove Molding Strip to desired length and miter at corners where needed. Peel Paper from Adhesive Strip and apply Cove Molding to Proof Box's Interior Wall Base Angles and Exterior Wall Bottoms. See ***Figure 3 & 3a***.

Figure 3

Figure 3a

4. Install #10 Stainless Steel Self-Tapping Screws into Cove Molding, Interior Wall Base Angles and Exterior Wall Bottoms. Space Screws approximately 1"(inch) up from bottom of Cove Molding, and 8" to 12" (inches) apart while avoiding Wall Seams. See ***Figure 4***.

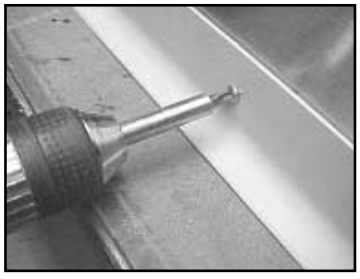


Figure 4

5. Repeat process until all Cove Molding is applied completely around the Proof Box's Interior and Exterior Bottom.

AIR-WASH SYSTEM INSTALLATION

Tools Needed* : *Channel Locks, Screw Gun with #2 Phillip Drive, Wire Stripper, Snips (or equivalent)

1. Make sure all Plastic Plug Buttons are placed into Cam-Lock Holes before mounting Air-Wash System.

2. At top of Air-Wash System, remove 4½"x 4½" Junction Box, Lock Nuts & Reducer Washers from CPVC Piping. Set aside for later use.

3. Remove Bottom Panel of Air-Wash System by lifting up and away with Mounted Handle. Place Bottom Panel in secure location to avoid damage. See ***Figure 1 & 1a***.

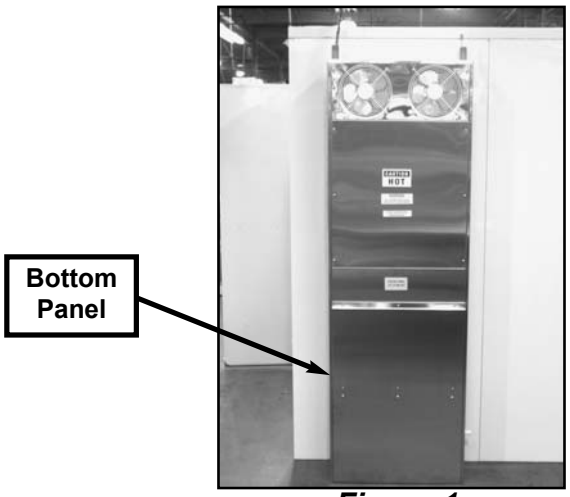


Figure 1

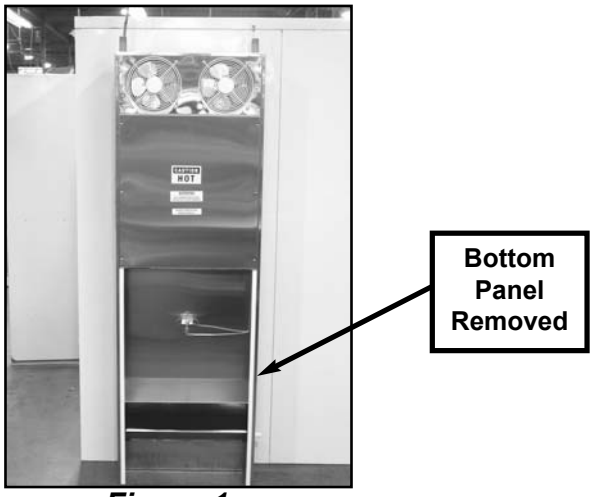


Figure 1a

4. Move Air-Wash System into Proof Cabinet. Place directly behind Control Panel and in front of First Left Side Wall Panel.

5. Make sure Heater Wires, Copper Water Line & CPVC Piping are aligned with Holes going through Front Roof Panel.

6. Put 4½" x 4½" Junction Box on Floor, and place centered inside Air-Wash System (***Note:** 4½"x 4½" Junction Box will be used to support Back Panel of Air-Wash System. Make sure it is very close to Back Panel!). See ***Figure 2***.

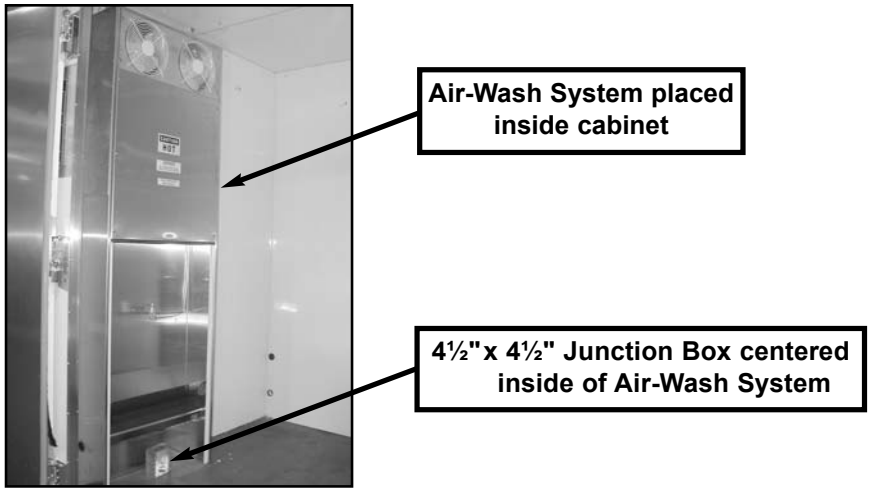


Figure 2

7. Carefully lift Air-Wash System and place Heater Wires, Copper Water Line & CPVC Piping through Holes of Front Roof Panel. Rest bottom of Air-Wash System Back Panel on top of 4½" x 4½" Junction Box for support (***Note:** Middle Panel under Fan Panel can also be removed for easy lift. **DO NOT** use Heater Elements to lift!). See ***Figure 3***.

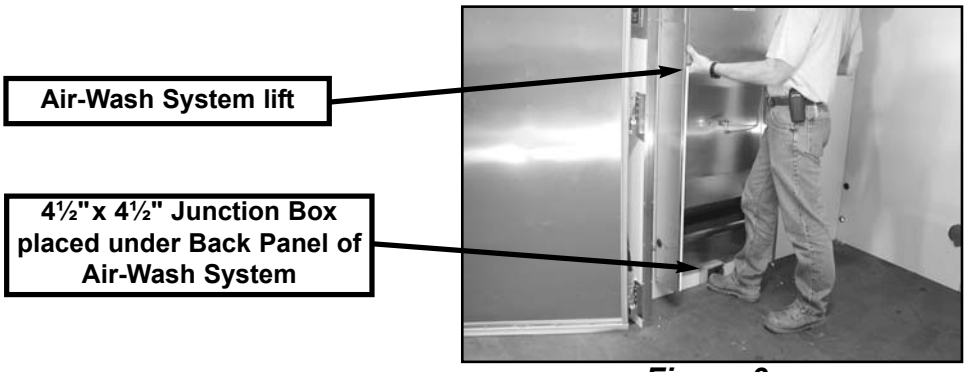


Figure 3

8. At top of cabinet and left side of Front Roof Panel, place Reducing Washer & Lock Nut over both CPVC Pipes. Use Channel Locks (or equivalent tool) to tighten until snug. See ***Figures 4, 4a & 4b***.

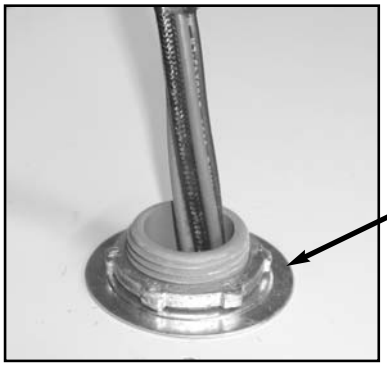


Figure 4

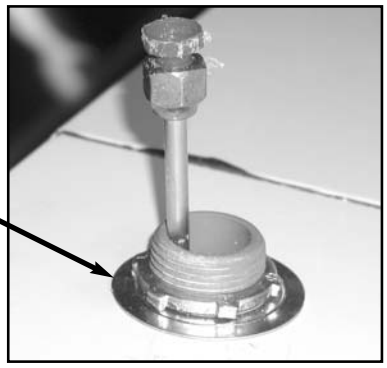


Figure 4a

Figure 4b

9. Starting at top of Proof Cabinet, feed Heat/Humidity Sensor Cable Plug through Copper Water Line CPVC Piping. (***Note:** Can use Finger or 5" Flat Head Screwdriver to feed Cable through if needed.) See ***Figures 5 & 5a***.

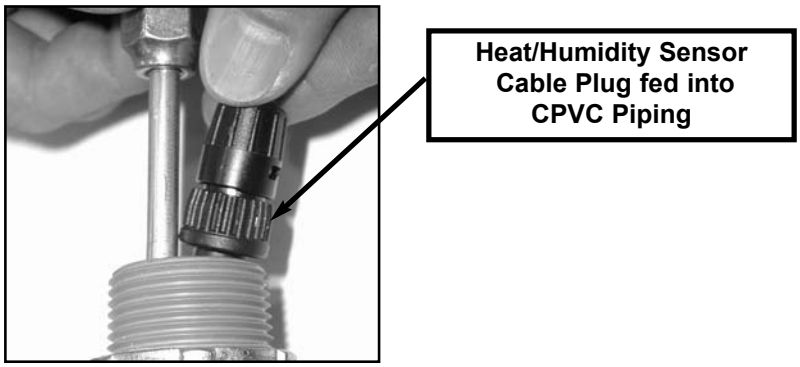


Figure 5

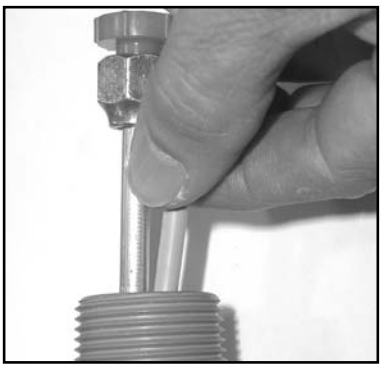


Figure 5a

10. After Heat/Humidity Sensor Cable Plug is placed through CPVC Pipe, feed Plug through 3/4" Hole located at Upper Right Side of Air-Wash System. (***Note:** Picture below shows Air-Wash System not mounted to Proof Cabinet for visual purposes.) See ***Figure 6***.

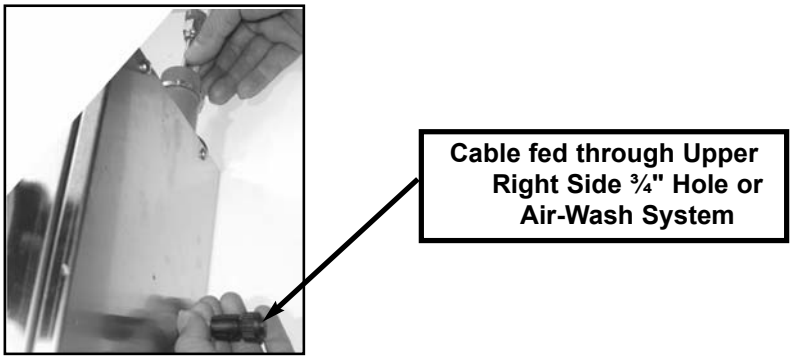


Figure 6

11. Take ¾" Heyco Bushing from Accessory Kit and cut at one side with Snips (or equivalent). Place Heat/Humidity Sensor Cable Plug into ¾" Heyco Bushing, and fit ¾" Heyco Bushing to ¾" Hole at Upper Right Side of Air-Wash System. See ***Figures 7 & 7a***.

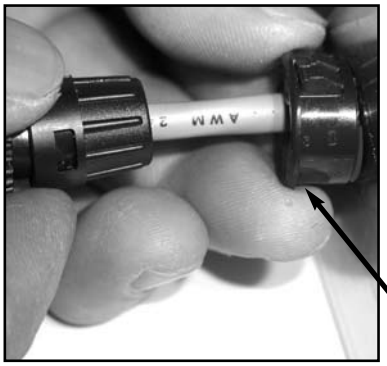


Figure 7

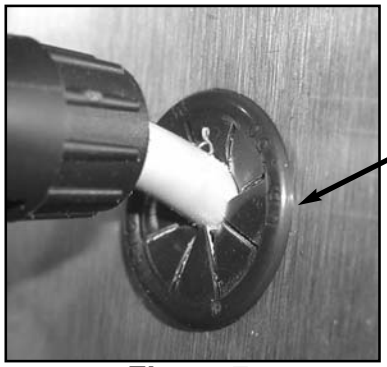


Figure 7a

12. Apply Putty in and around Heater Wire & Copper Water Line CPVC Piping. See ***Figures 8 & 8a***.

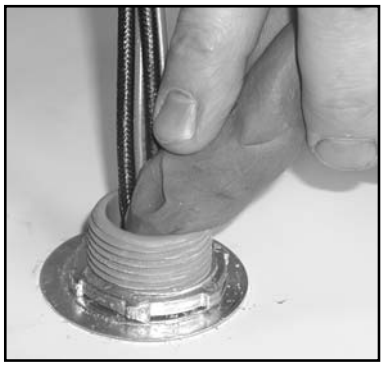


Figure 8

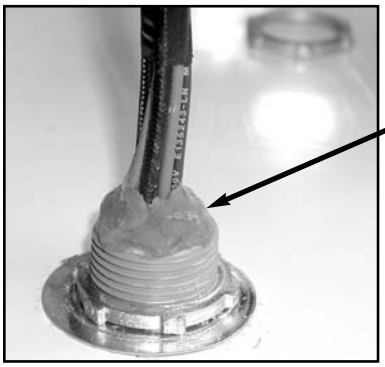


Figure 8a

13. Remove 4"x 4" Junction Box from bottom of Air-Wash System Back Panel. Take out 1 $^{5}/_{16}$" Knock Out from one side of 4"x 4" Junction Box. See ***Figure 9***.

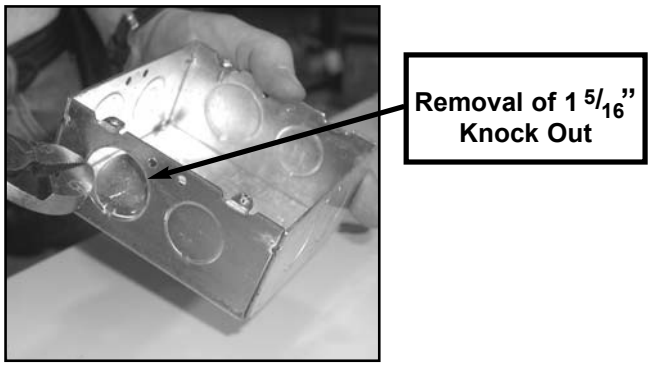


Figure 9

14. Feed Heater Wires and CPVC Pipe through 1 $^{5}/_{16}$" Knock Out of 4" x 4" Junction Box.

15. Place Lock Nut inside 4" x 4" Junction Box and onto CPVC Threads. Tighten until snug with Channel Locks (or equivalent tool). See ***Figure 10 & 10a***.

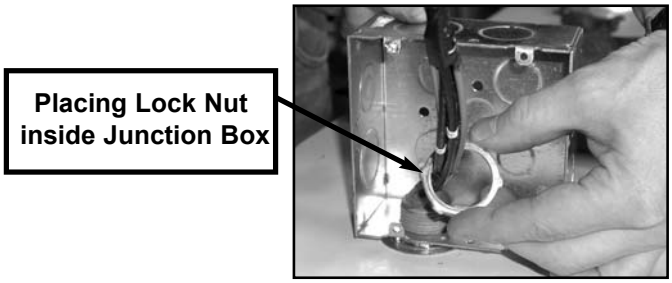


Figure 10

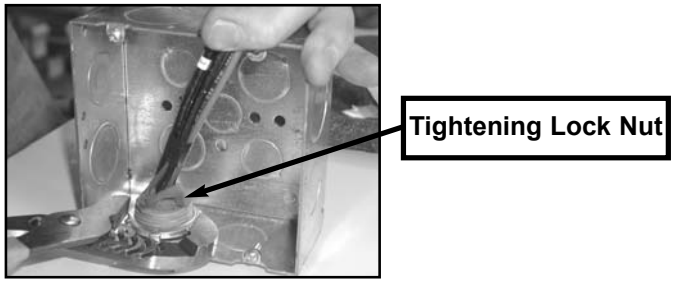


Figure 10a

16. Secure bottom of Air-Wash System by placing three (3) #10 Stainless Steel Self-Drilling Screws. See ***Figure 11***.

Figure 11

17. To complete Air-Wash System installation, apply Bottom Panel by reversing Step #3.

SENSOR / KLIXON ASSEMBLY & INSTALLATION

Tools Needed **:** ***Phillips Head Screwdriver & Adjustable Wrench***

1. Locate Sensor and Klixon Mounting Holes above the Air-Wash System Panel Fans. See ***Figure 1***.

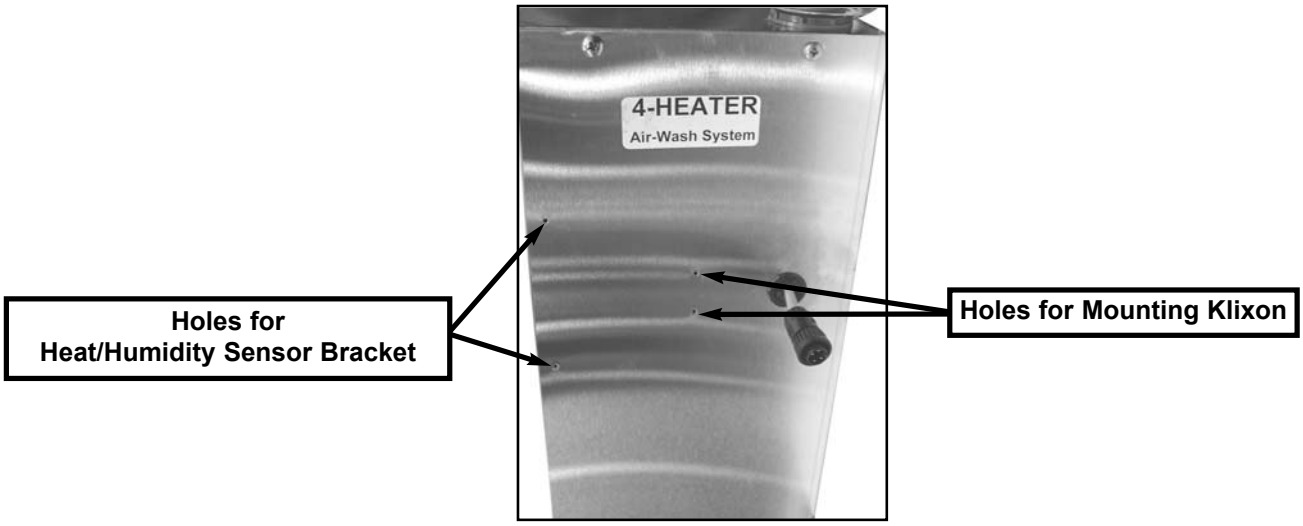


Figure 1

2. Mount Klixon to Air-Wash System Panel. Make sure Metal Disc side of Klixon has contact with Air-Wash Panel. See ***Figure 2.***

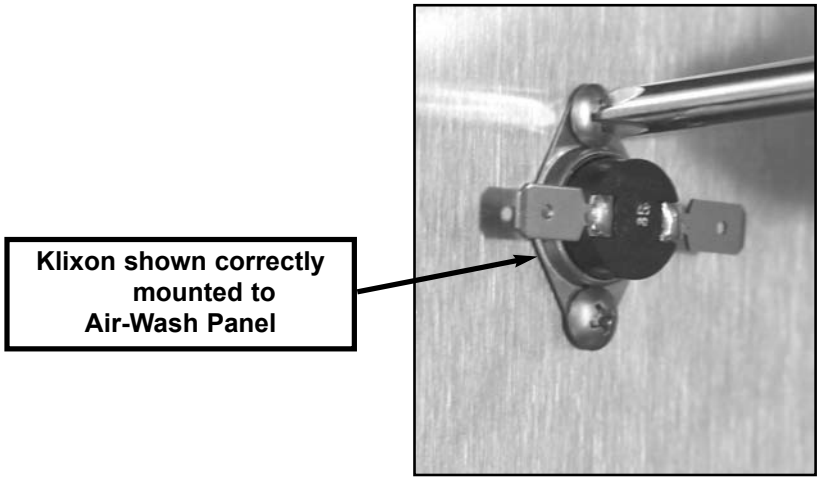


Figure 2

3. Mount Sensor Bracket to side of Air-Wash System Panel. See ***Figure 3***.

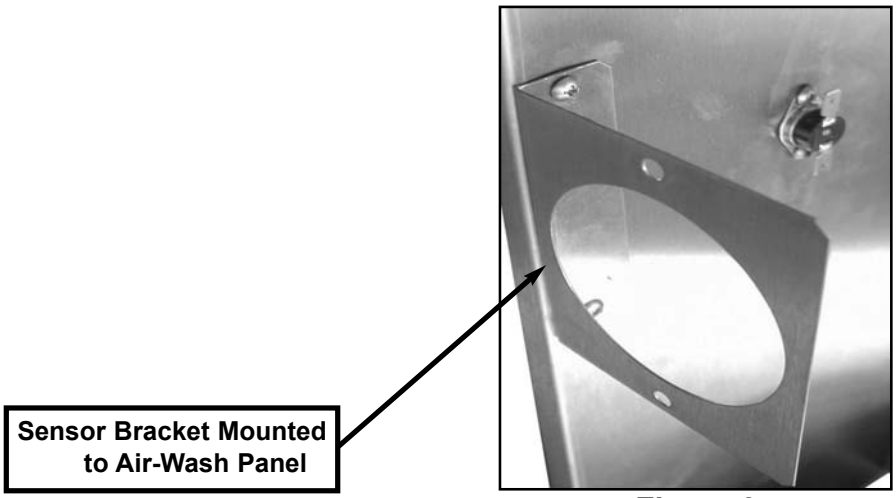


Figure 3

4. Place and secure Sensor to Sensor Bracket with Screws and Lock Washer Nuts. See ***Figure 4 & 4a***.

Figure 4

Figure 4a

5. Connect Sensor Wires to Klixon, and Heat/Humidty Sensor Cable Plug into Sensor Port. See ***Figure 5***. (***Note:** Refer to page 7 and Figure 7 for Heat/Humidity Sensor Cable Plug)

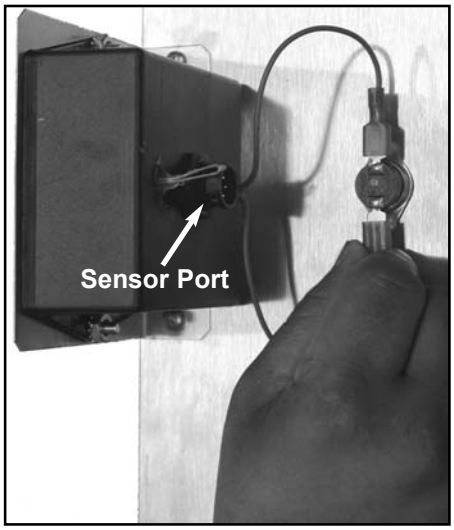


Figure 5

6. The Sensor and Klixon Assembly is now complete.

DRAIN LINE & RUBBER COUPLING ASSEMBLY

Tools Needed **: n/a**

1. Put PVC Tubing through hole located at bottom of Rear Corner Panel from inside Proofer Cabinet.
2. Place PVC Tubing over Male Barb until flush. *See* ***Figure 1 & 1a****.*

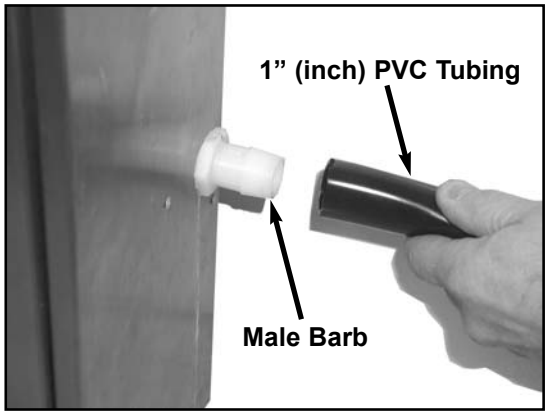


Figure 1

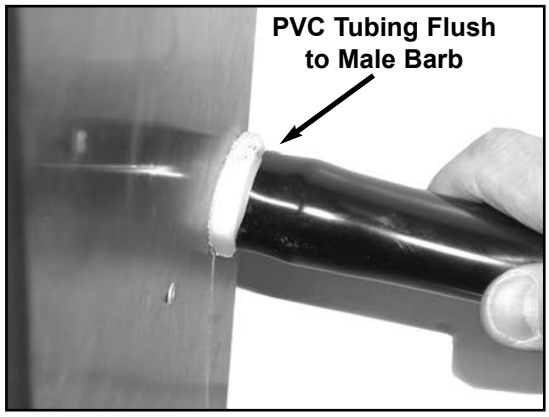


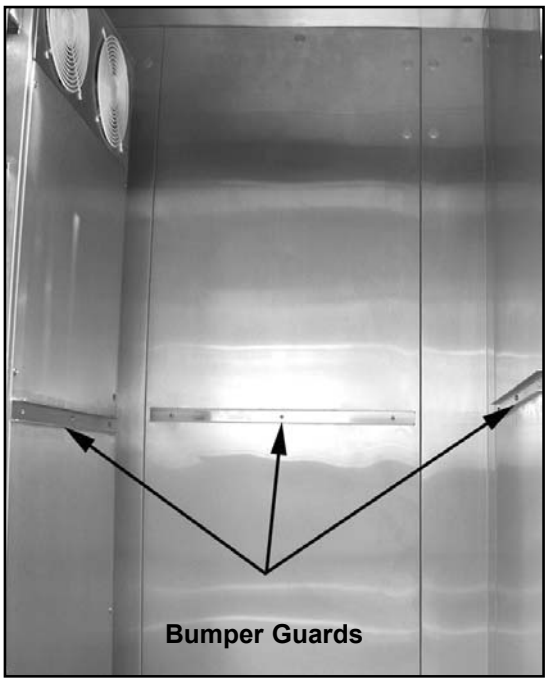
Figure 1a

3. Extend Drain Line to Floor Drain.

BUMPER GUARD ASSEMBLY

Tools Needed **: *Drill with Phillips Head Bit***

Bumper Guards are to be applied with #10 Self Tapping Screws. All hardware has been supplied with the accessory kit. Pre-drilled holes are placed on the airwash system panel. Use the Airwash System Panel Guard as a guide to place additional interior Bumper Guards.



HIGH VOLTAGE BOX ASSEMBLY

Tools Needed **:** ***Drill with Phillips Head Bit***

1. Mount 4" x 4" Junction Box at upper right side of Proof Box with supplied Tapping Screws. Apply Strain Relief with Lock Nut to side of Junction Box closest to Power Module. Refer to "TOP VIEW" on page 18 for approximate placement. See ***Figure 1***.

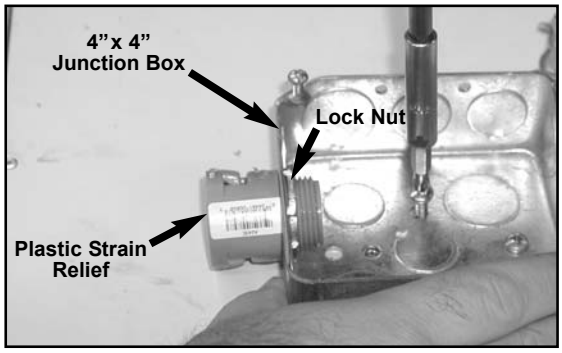


Figure 1

2. Take Power Module High Voltage Wires with Ground and put through Flexible Conduit. See ***Figure 2***.

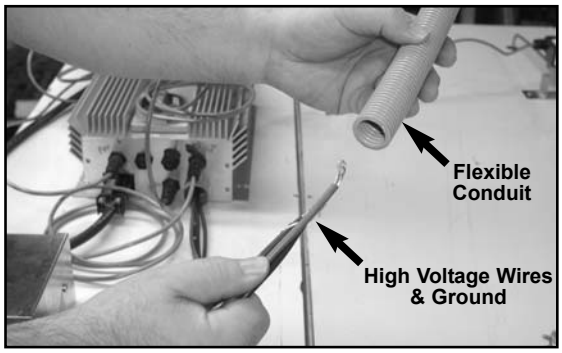


Figure 2

3. Secure Flexible Conduit into Power Module Strain Relief. See ***Figure 3 & 3a***.

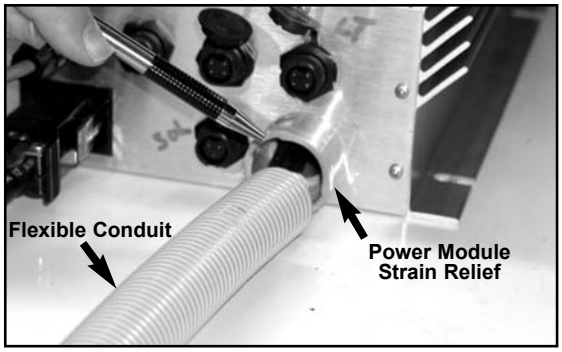


Figure 3

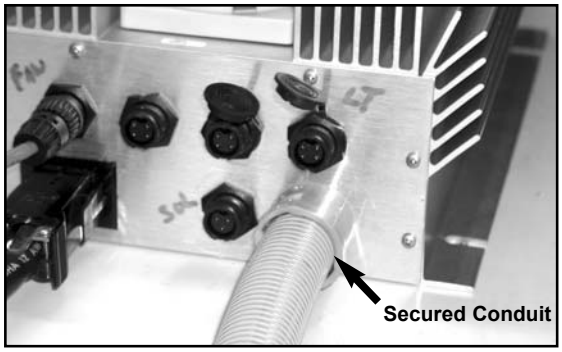


Figure 3a

4. Take opposite side of Flexible Conduit with exposed High Voltage and Ground Wire; feed through Strain Relief of 4" x 4" Junction Box. See ***Figure 4***.

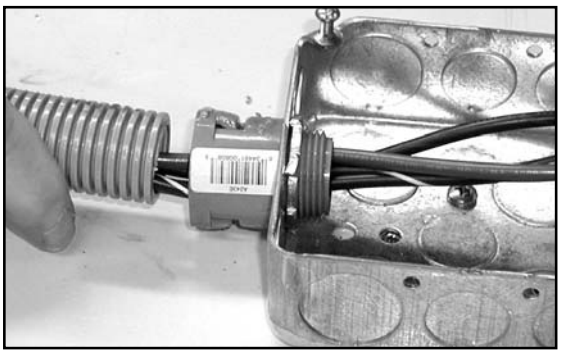


Figure 4

5. Secure Flexible Conduit into Strain Relief. Make sure enough High Voltage and Ground Wire to connect to Main Power Supply High Voltage Wire is available. A Metal Strain Relief has been supplied for Main Power Supply wire feed. See ***Figure 5***.

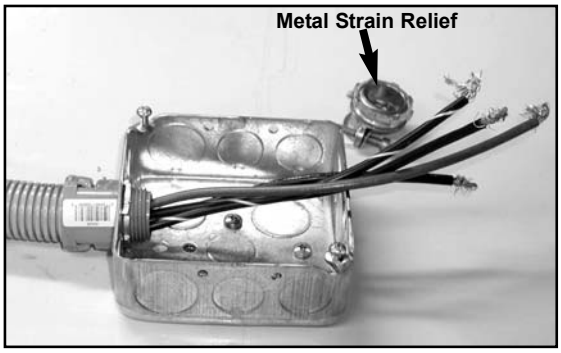
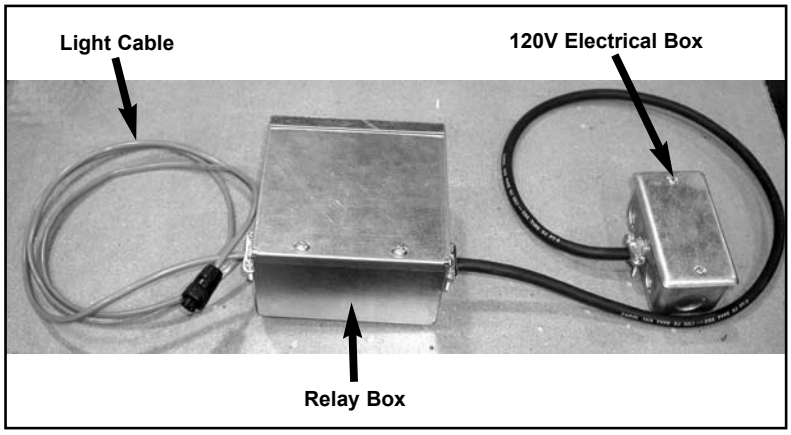
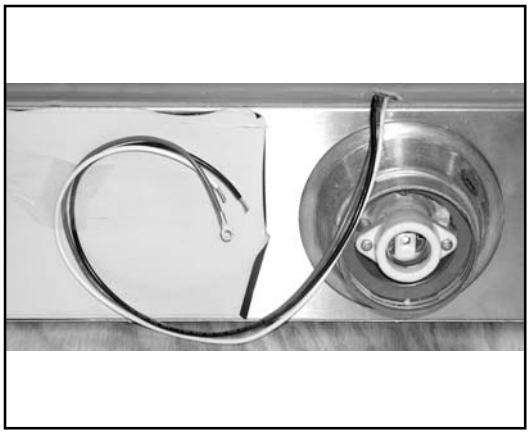


Figure 5

AP- 51 120V ELECTRICAL / RELAY BOX & INTERIOR LIGHT ASSY



"120V Electrical & Relay Box Assembly"



"Interior Light Assembly"

<u>Tools Needed</u>* : *Wire Nuts & Tapping Screws (*supplied with Assembly), Electrical Tape, Drill with Phillips Tip

1. Run Wires from the Interior Light Assembly through the Bottom Hole of Relay Box Assembly before mounting. *See* ***Figure 1***.

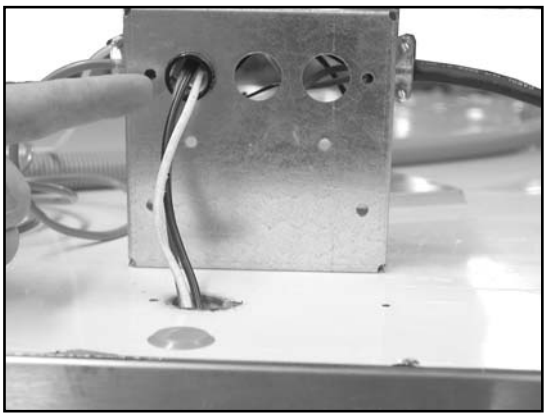


Figure 1

2. Mount 120V Relay & Electrical Box in designated locations and secure with supplied #10 Screws. Make sure Relay Box Bushing is placed into the Hole for Interior Light Wire run. Refer to page 18 “Proofer Top View” and see **Figures 2** & **2a** below.

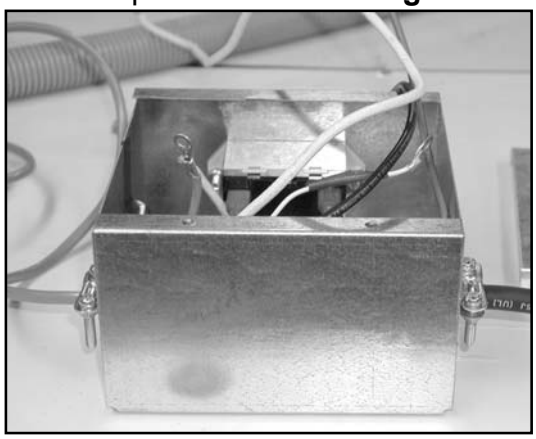


Figure 2

Figure 2a

3. Wire the Interior Light, 120V Electrical/Relay Box, and Light Cable according to the Wiring Diagram. Make sure all Green Wires (Grounds) are properly secured. Ensure that White 14 Gauge Wires are connected with supplied Wire Nut. See ***Figures 3, 3a*** & ***3b*** with comments.

Figure 3
“Secure Ground Wires”

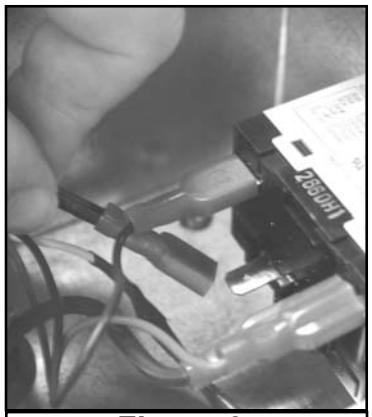


Figure 3a
“Connect 14 GA Black Wire with Insulated Push On Terminal To Open Relay Terminal”

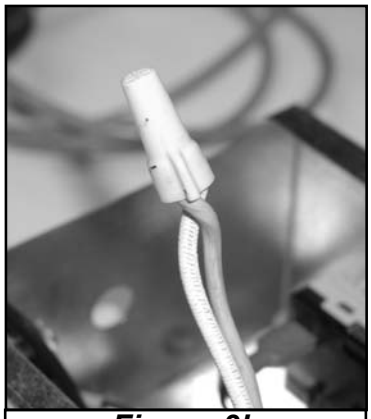


Figure 3b
“Connect (2) 14 GA White Wires Together Using Supplied Wire Nut”

4. Place Light Cable coming from Relay Box into desginated area on Power Module. See **Figure 4**.

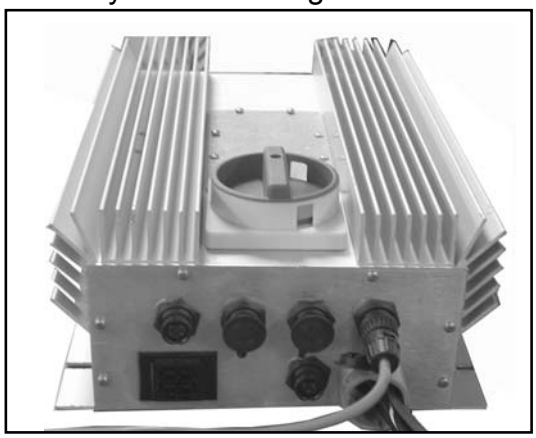


Figure 4

5. 120V/60Hz/1Ph Electrical Supply should be ran into the 120V Electrical Box by a qualified electrician in accordance with local electrical codes. **Figure 5**.

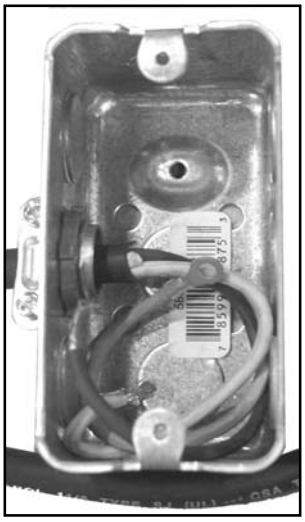


Figure 5

6. Seal Hole between bottom of Relay Box and Roof Panel with Silicone. *See **Figure 6**.*

Figure 6

7. Place Covers on Relay and Electrical Box after all wiring has been completed. *See* ***Figures 7 & 7a****.*

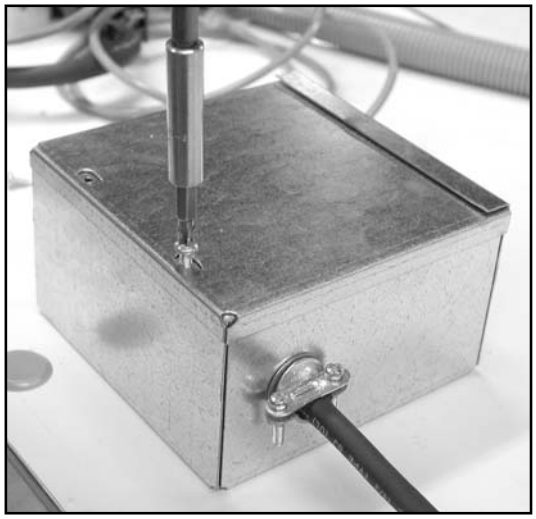


Figure 7

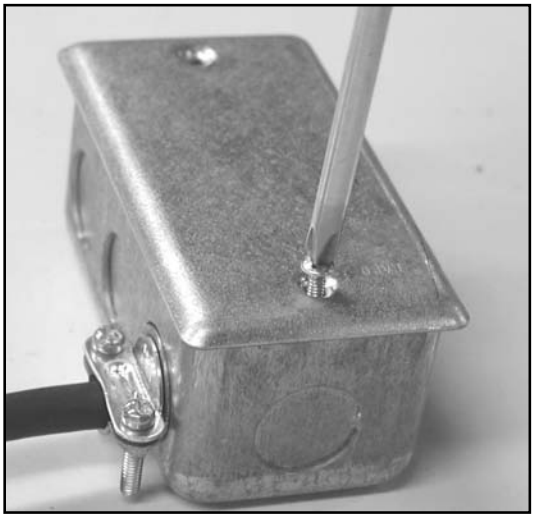
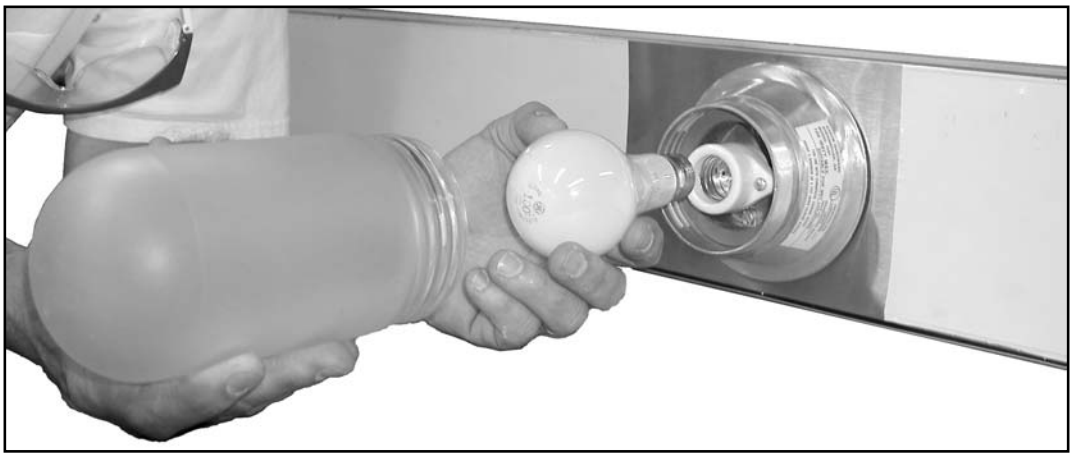


Figure 7a

INTERIOR LIGHT BULB & GLOBE

Place Light Bulb and Globe once wiring of the Interior Light is complete.



AIR WASH SYSTEM 4 x 4 JUNCTION BOX, FAN MOTORS, HEATERS

<u>Tools Needed</u> **:** ***Drill with Phillips Tip***

<u>4 x 4 Junction Box</u>

1. Feed Air Wash System Fan and Heater Wires through Top Left Front Corner of Roof Panel. *See* ***Figure 1***.

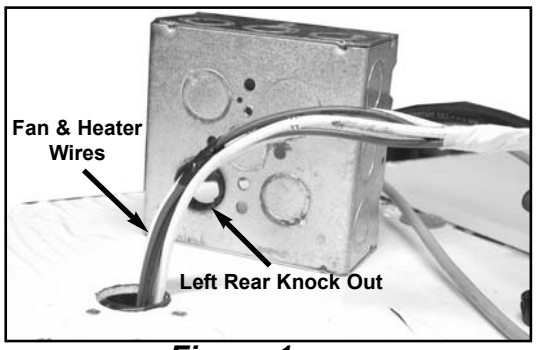


Figure 1

2. Remove left rear Button Knock Out on 4” x 4” Junction Box as shown. Install Bushing and mount Junction Box using supplied screws. *See **Figure 2**.*

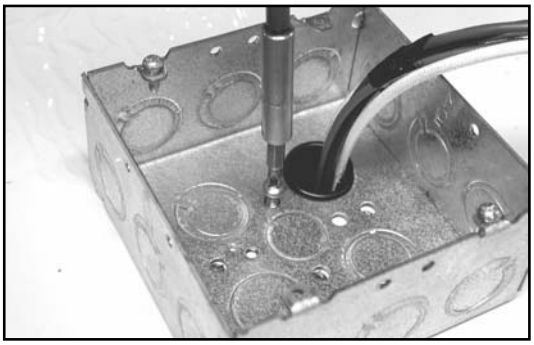


Figure 2

Air Wash Heater Connections

3. Remove Right Side Front Knock Out on Junction Box.

4. Install Straight Strain Relief on Black Supply Cable.

5. Insert Black Supply Cable and Straight Strain Relief through Knock Out. Install Lock Nut and tighten. See ***Figure 3***.

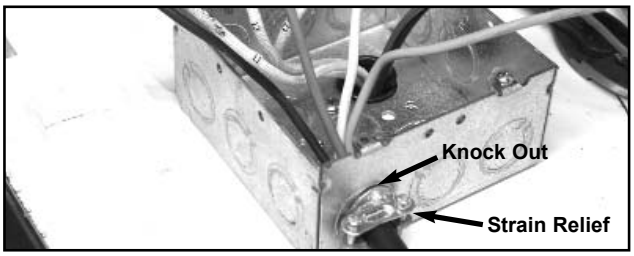


Figure 3

6. Connect Heater Lead “L1” 10 Gauge Wire to Black 10 Gauge Wire using supplied Wire Nut.

7. Connect Heater Lead “L2” 10 Gauge Wire to Red 10 Gauge Wire using Supplied Wire Nut.

8. Connect Heater Lead “L3” 10 Gauge Wire to Black 10 Gauge Wire using supplied Wire Nut.

9. Connect Heater Green Grounding Lead to 10 Gauge Green Wire using supplied Green Wire Nut.

Air Wash Fan Motor Connections

10. Remove Right Side Front Knock Out on Junction Box.

11. Install Straight Strain Relief on Gray Fan Cable.

12. Insert Cable and Strain Relief into Knock Out. Install Lock Nut and tighten.

13. Connect Fan Lead Black #14 Gauge Wire to Black #20 Gauge Wire using Supplied Wire Nut.

14. Connect Fan Lead Red #14 Gauge Wire to Red #20 Gauge Wire using supplied Wire Nut.

15. Connect Fan Lead Grounding Green #14 Gauge Wire to Grounding Green #20 Gauge Wire using supplied Wire Nut.

16. Carefully inspect each Wire Nut connect for proper installation. *See **Figure 4**.*

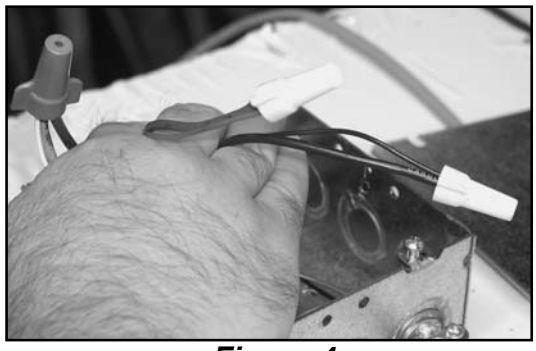


Figure 4

17. Seal Hole for Air Wash Wiring with Silicone. *See **Figure 5**.*

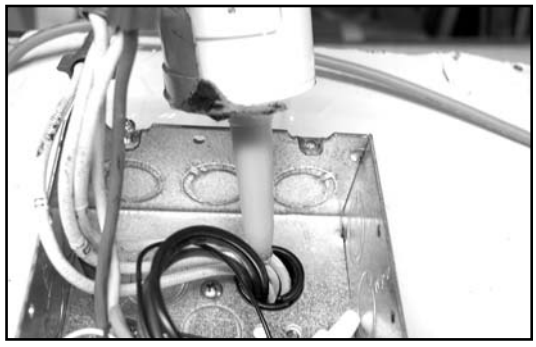


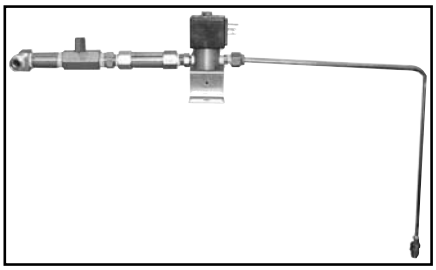
Figure 5

18. Carefully place Wires inside of Junction Box and install Cover. *See **Figure 6 & 6a***.

Figure 6

Figure 6a

SOLENOID & WATER LINE EXTENSION ASSEMBLY



"Solenoid & Water Line Assembly"

Tools Needed **:** ***Drill with Phillips Tip***

1. Plug end of Solenoid Valve Cable into designated area on Power Module. See ***Figures 1 & 1a***.

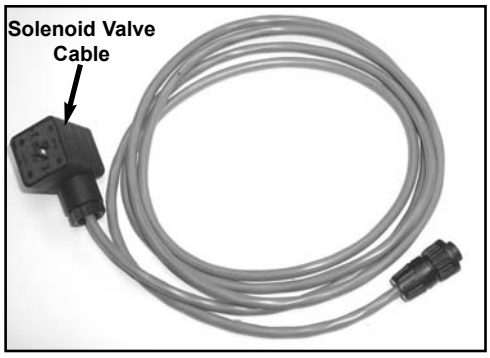


Figure 1

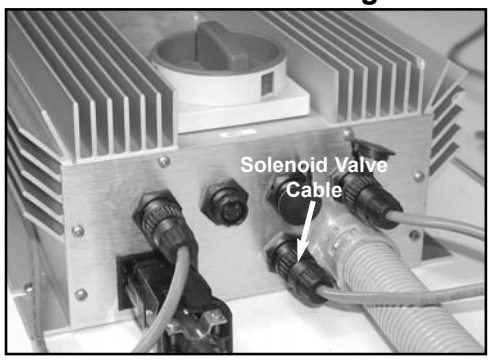


Figure 1a

2. Feed Water Line Extension Assembly Union Fitting through Heyco Bushing on second Roof Panel. The Union Fitting will line up with Flare Nut on Air Wash System for proper connection. Refer to Panera Top View on page 18. See ***Figures 2 & 2a***.

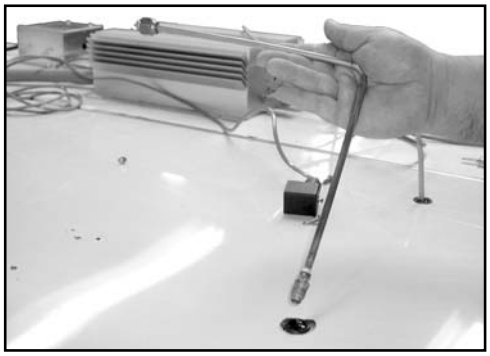


Figure 2

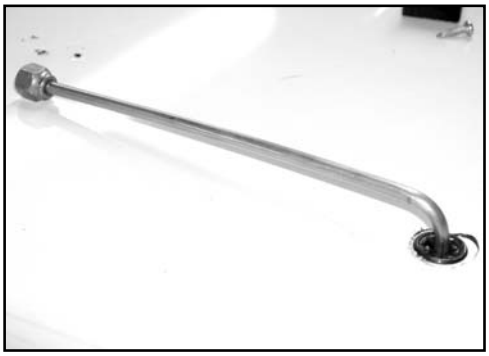


Figure 2a

3. After connecting Union Fitting to Air Wash System, get Solenoid Valve Assembly and connect Water Line Extension Flare Nut. Mount Solenoid Valve Assembly to Roof Panel by placing Tapping Screws. See ***Figures 3 & 3a***.

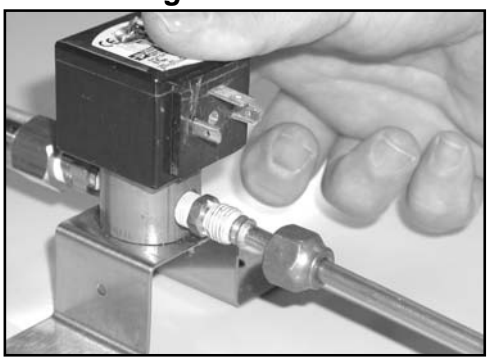


Figure 3

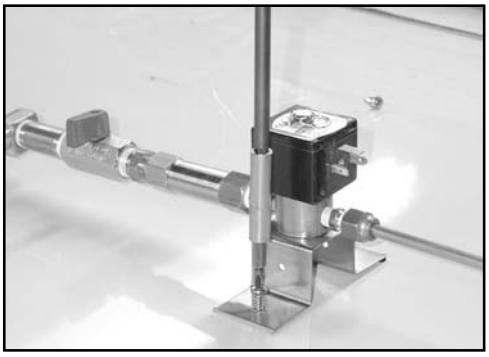


Figure 3a

4. Take Female End of Solenoid Valve Cable and plug onto Solenoid Valve. Secure Female End by tightening Screw with Flat Head Screwdriver. *See* ***Figures 4 & 4a***.

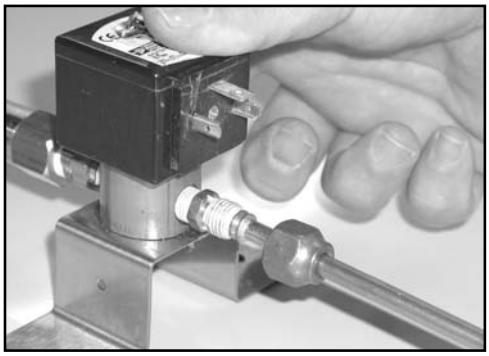


Figure 4

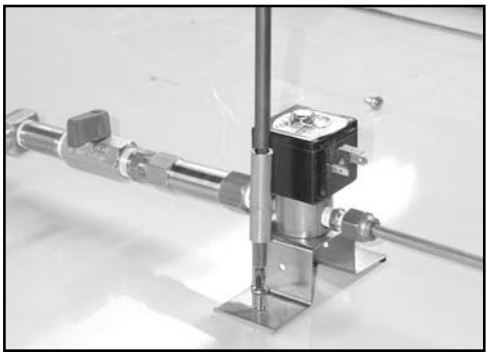


Figure 4a

5. After all Proof Box assembly is complete, connect Water Supply Line to Solenoid Assembly. Make sure that Ball Valve is in "ON" position before putting Proof Box into operation. *See* ***Figure 5***.

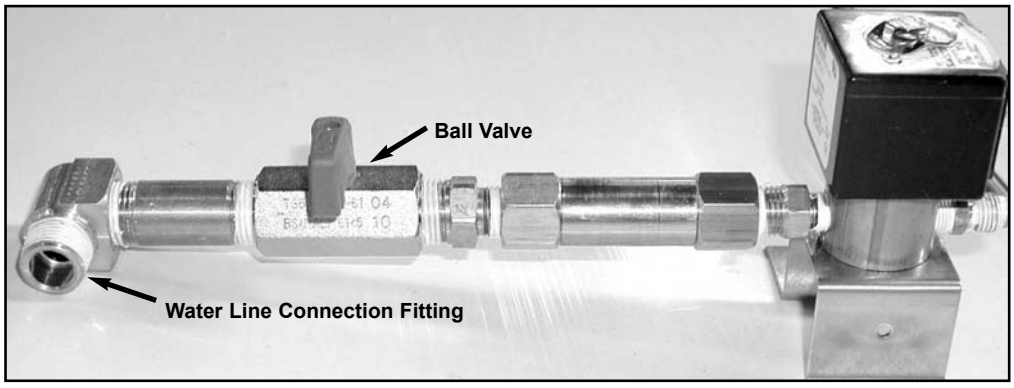
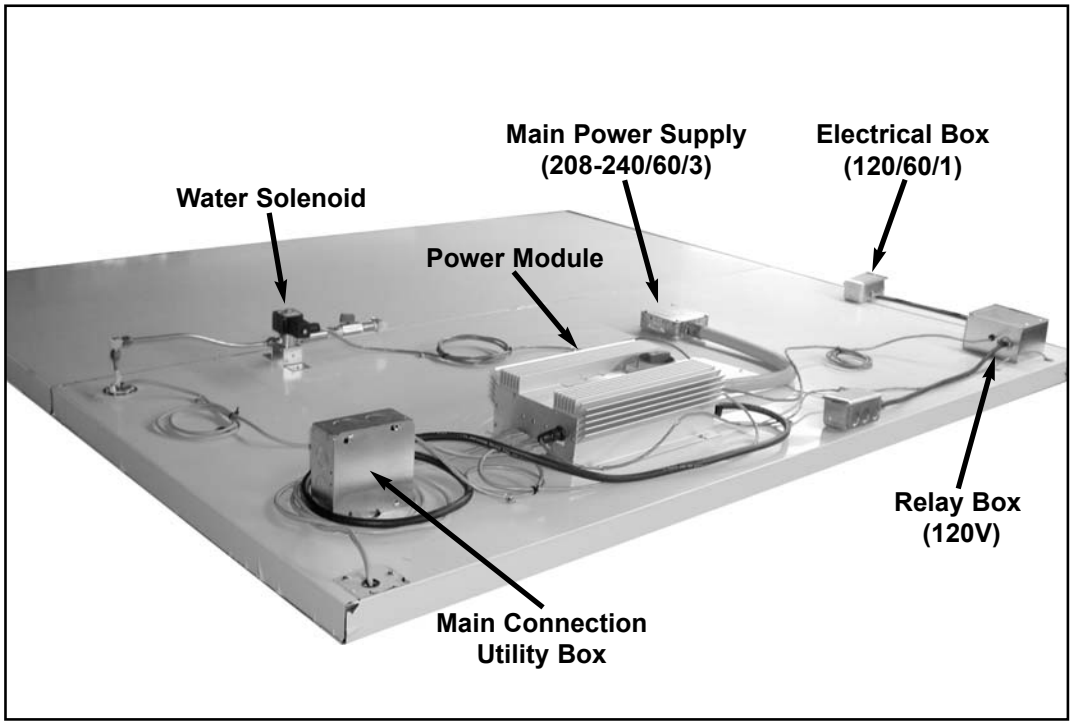
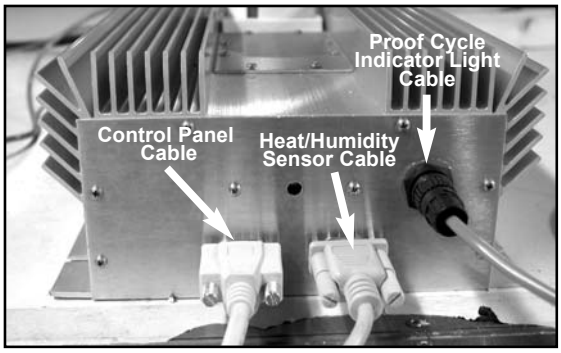


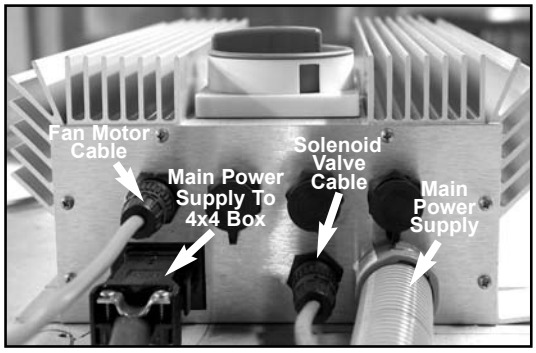
Figure 5

PANERA AP-51 PROOFER TOP VIEW



POWER MODULE CABLE CONFIGURATION

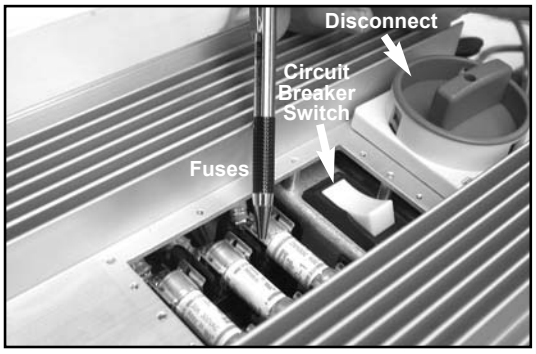




POWER MODULE CIRCUIT BREAKER & FUSES

Tools Needed **:** ***Phillips Head Screwdriver***

If Proof Box does not power up and Main Power Supply is good, shut off Main Power and turn Power Module Disconnect Switch to "OFF" position. Remove 8 Screws at Plate beside Disconnect Switch and check Circuit Breaker and Fuses. Reverse steps to properly resupply power to Proof Box.

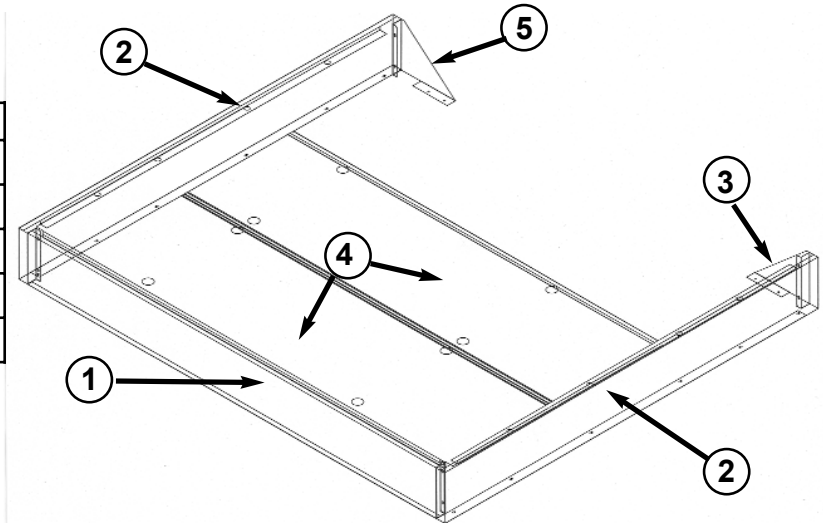


TOP FACADE ASSEMBLY

Tools Needed **:** ***Drill with Phillips Head Bit***

Assemble the Facade on top of the proofer cabinet in the sequence shown below. Use the 5/8" Self Tapping Screws that have been supplied.

Item	Part No.	Part Description
1	P6026500	Grill, Upper Front
2	P6052700	Panel, LH/RH Upper End
3	P6026100	Upper Rear Gusset, RH
4	P6900906	Outer Roof Cover Panel (1ea)
5	P6026201	Upper Rear Gusset, LH



DOOR CLOSER ASSEMBLY

Tools Needed **:** ***Soft Mallet (or equivalent)***

1. Locate Door Closer Mounting Base on top of Door. *See* ***Figure 1****.*

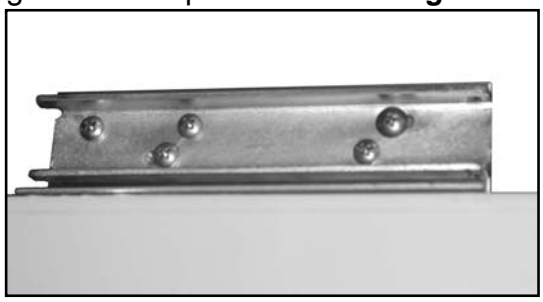


Figure 1

2. Apply Door Closer to Door Closer Mounting Base by starting with Lip side first. If needed, use a soft mallet or equivalent to tap Door Closure on to the Mounting Base. *See* ***Figure 2, 2a & 2b***

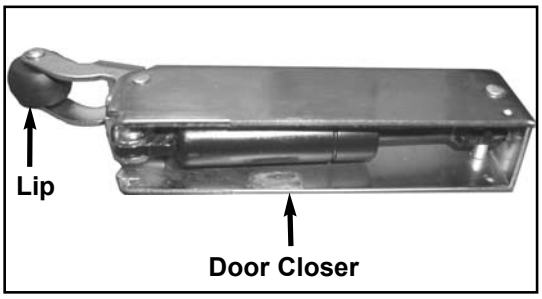


Figure 2

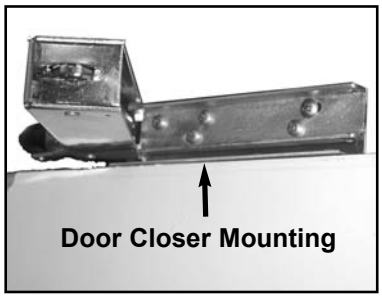


Figure 2a

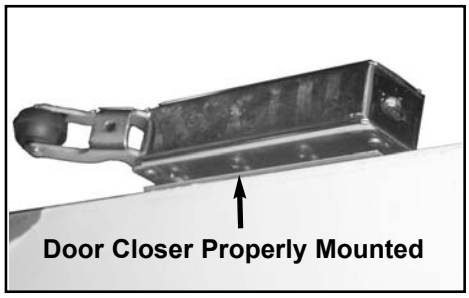


Figure 2b

3. Door is now ready to be assembled to the proofer cabinet.

DOOR ASSEMBLY

Tools Needed **:** ***Phillips Head Screwdriver***

1. Place Hook(s) on front of Cabinet Header. (***Note:** The Header is the same panel that supports the Interior Light) *See* ***Figure 1****.*

Figure 1

2. Locate three (3) Door Hinge Bases on Door Jamb. See ***Figure 2***.

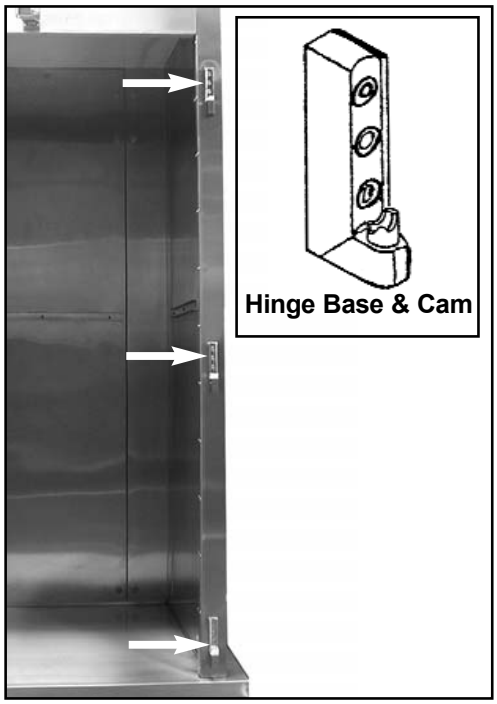


Figure 2

3. Carefully take Door(s) and insert all three (3) Hinge Barrels inside Nylon Cam of Hinge Base. Have Door(s) open at 90° or more when placing Door(s) on to the Door Jamb. *See **Figure 3 & 3a**.*

(*Note: If door does not easily drop into nylon cams, remove middle hinge barrel. After top and bottom hinge barrels have been seated into nylon cams, install middle hinge barrel)*

Figure 3

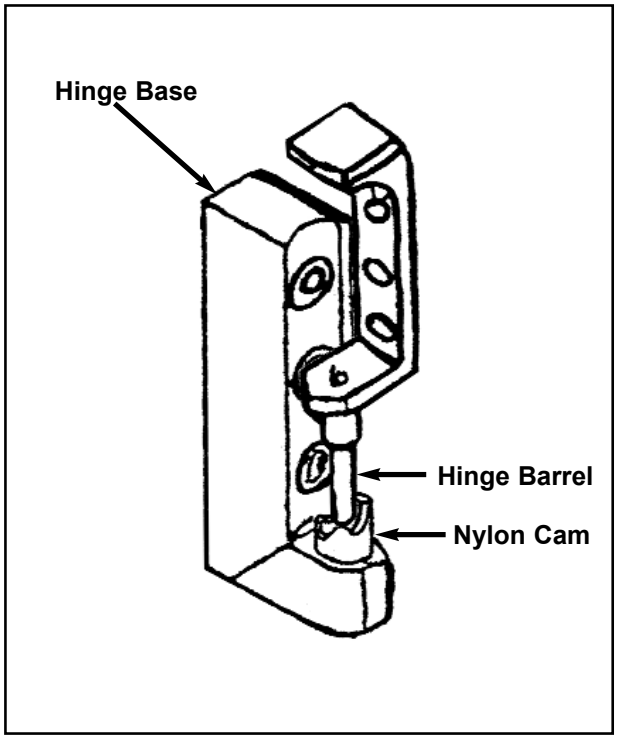


Figure 3a

4. After placement of Door(s), check Closer Lip to make sure it properly seats into Hook when closing Door(s). Put Hinge Covers on all three (3) Hinges to complete assembly. ***See Figure 4, Figure 4a & 4b***

Figure 4

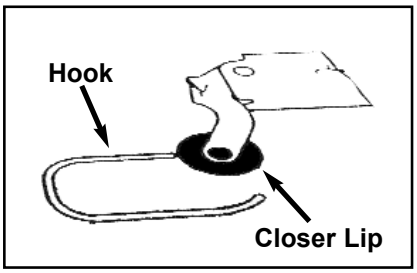


Figure 4a

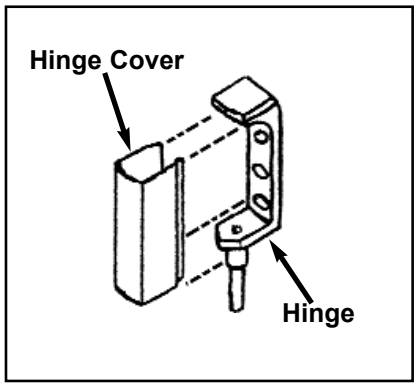
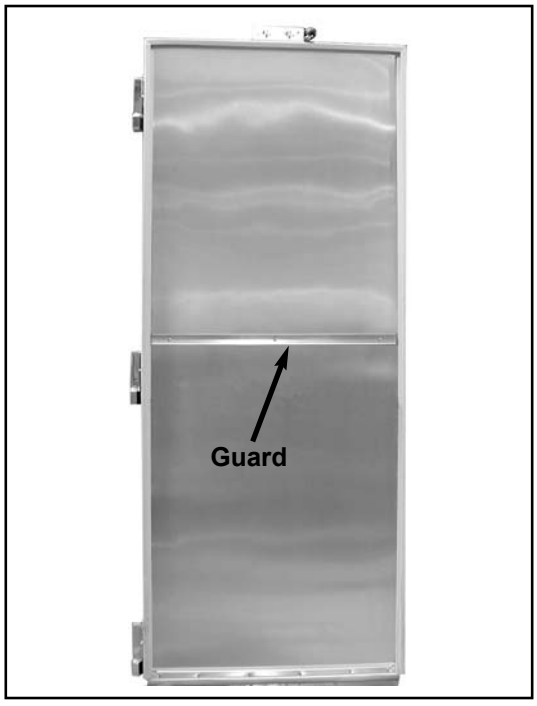


Figure 4b

DOOR HANDLE AND GUARD ASSEMBLY

Put on Door Handle(s) with 1/4 x 20 Hex Bolt & Lock Washers and Interior Guard(s) with #10 Self-Tapping Screws. (***Note:** All Doors are shipped with Mounting Holes for easy assembly!)



AIR-WASH SYSTEM FILTER & DRAIN PAN CLEANING

Tools Needed **:** n/a

1. Discontinue power to cabinet and lift Bottom Front Panel up and away from Air-Wash System. *See **Figure 1, 1a & 1b**.*

Figure 1

Figure 1a

Figure 1b

2. Remove Filter and wash in Soap & Water. (***Note:** If Filter must be replaced, use one of two spares that came with Proof Cabinet, or order P/N P7014700). See ***Figure 2 & 2a***.

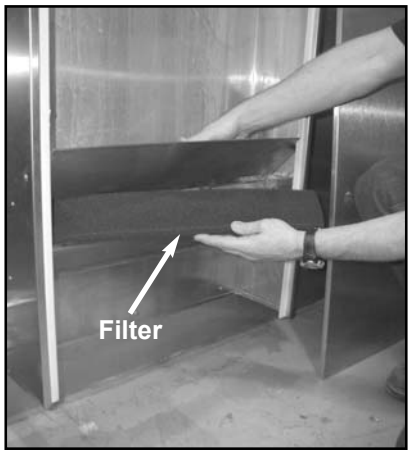


Figure 2

Figure 2a

3. With Filter removed, clean Drain Pan with clean Sponge or Rag. See ***Figure 2a***.

4. Re-install Filter between Receiving Pockets of Drain Assembly (***Note:** Filter closes off entire opening). See ***Figure 2 & 2a***.

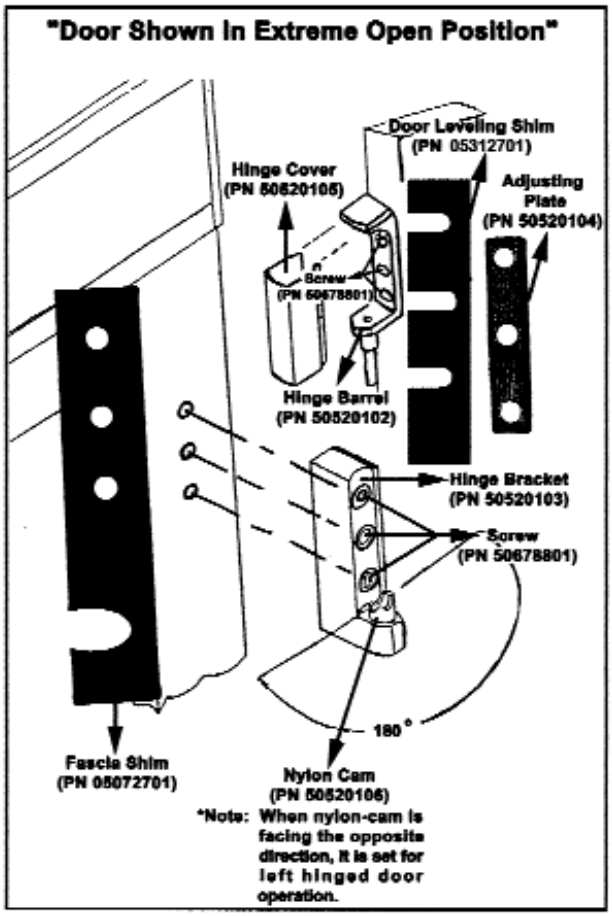
5. Re-install Bottom Front Panel of Air-Wash System by reversing Step #1.

DOOR ADJUSTMENT INSTRUCTION

Tools Needed **:** ***Phillips Head Screwdriver***

When adjustment of the Door Gasket seal or alignment is desired, fine-tuning can be accomplished with the Adjusting Plate (pn 50520104). Check the instructions that follow.

1. Open the door between 90° to 180° and lift the door from the Hinge Brackets (pn 50520103).
2. Slide off the Hinge Cover(s) (pn 50520105) by grasping and pulling in a downward direction.
3. Replace the Door on the Hinge Brackets and close.
4. Locate the Adjusting Plate (pn 50520104) inside of the Hinge Barrel (pn 50520102) of choice. The Hinge Barrel is placed on the Door itself and attached with at least two Screws (pn 50678801).
5. Loosen the Screws without taking them completely out.
6. Close Door and adjust to the Fascia of the cabinet.
7. Slowly push or pull the door until the Gasket properly aligns and evenly seals to the Cabinet Fascia.
8. Tighten Screws on the Hinge Barrel.
9. Place Hinge Covers.



SPECIAL SHIMS FOR HINGED DOOR ADJUSTMENT

There are a couple of Special Feature Shims that assist with the adjustment of Hinged Doors using the Self-Closing Hinge Assembly (pn 10685101). These items can be used as a second or third option if additional adjustment is required. Refer to the Shim descriptions below and their purpose.

1. Fascia Shim (pn 05072701) - The Fascia Shim is used to help extend the “Hinge Bracket” (pn 50520103) in a forward direction when the Door Gasket needs to be loosened from or accurately tightened to the Cabinet Fascia.

When using this Shim, build-up the Hinge Bracket by inserting one at a time until the forward extension supports an acceptable Gasket Seal to the Cabinet. Hinge Bracket adjustments can be different from door to door.

Make sure that the open end of the slot shaped cut-out is always facing towards the Door.

2. Leveling Shim (pn 50538601) - The Leveling Shim is used to raise the Door in and up or down direction. This part is placed behind the the Hinge Barrel (pn 50520102) with the open ends of the three slot shaped cut-out's facing towards the Cabinet. While adjusting the top or bottom Screws per Hinge Barrel, the Door will go in a specific direction.

a.) Top Hinge Barrel with Leveling Shim - Adjusts the Door in a downward direction.
b.) Bottom Hinge Barrel with Leveling Shim - Adjusts the the Door in an upward direction.

***Note:** When inserting and/or adjusting the Leveling Shim, avoid taking the Screws completely out of the Door. Try to make a gap wide enough to slip the Shim in between the Hinge Barrel and the Door, then tighten the Screws until the leveling process of the Door is satisfactory and stable.

DOOR GASKET REPLACEMENT

Removing
Beginning at one corner, pry gasket loose from the retaining strip. Peel remainder of gasket from the door and discard.

Replacing
Before replacing, be sure the gasket and door are at room temperature. If necessary, soak the gasket in warm water to make it more pliable. Align new gasket frame on the door retainer strip. Starting at one corner, press each corner of the gasket into the retainer strip. Once started, the gasket can be easily inserted around the entire perimeter of the door by simply press rolling into place.

RACK CAPACITY

The Panera AP-51 Proofer Cabinet can hold 6 single racks, or 2 double and 2 Single racks.

INSTALLATION CHECKLIST

After the cabinet has been installed, leveled and cleaned as described, refer to the following checklist prior to start-up.

☑ Check for proper electrical hook-up.

☑ Check that cabinet is level.

☑ Check drain line to make sure it is free of kinks and restriction.

PERIODIC MAINTENANCE

Cabinet Cleaning

Adamatic recommends periodic internal and exterior cleaning as outlined below. Use non-abrasive cleaners that do not contain chlorine and a soft cloth or sponge. Do not use steel wool, scrapers, wire brushes or other harsh items to clean your proofer.

Daily Exterior Cleaning

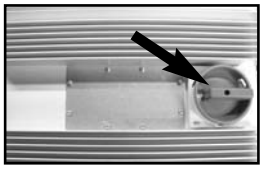
1. Clean surface with a sponge and cleaning solution.
2. Polish with a soft cloth for stainless steel, wiping with the grain of the metal.
3. Once a week wipe with a film cutting agent to maintain shine and stainless steel finish.

Weekly Interior Cleaning

1. Turn proofer cabinet “OFF”.
2. Remove loose particles from interior floors, walls and ceiling.
3. Scrub all interior surfaces with warm detergent solution 100 °F - 120°F (38°C - 39°C) and a nylon bristled brush.
4. Rinse with clear water and allow to air dry.
5. Remove filter and clean. Replace filter if necessary.
6. Turn proofer cabinet “ON”.

DISCONNECT SWITCH

All proofers are supplied with a top mounted power module that includes a "disconnect switch". The disconnect switch is the simplest way to cut off and restore power to the proofer's working components and control board circuitry. **Common practice is to always disconnect power from the main power source!**



“Disconnect Switch”

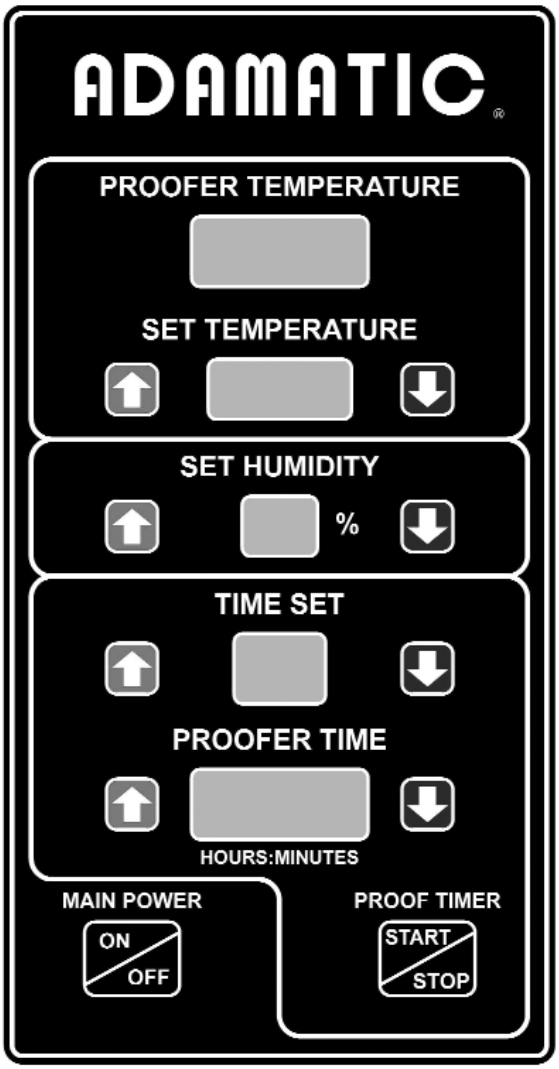
CONTROL PANEL & HOW IT WORKS

Start-Up

On top of the cabinet, make certain that the main power module is in the “ON” position (*see above) . Press the main power “ON/OFF” button on the control panel and a LED and digital alarm test will take place.

After the testing stage is complete, the controller will recall all previous settings. (***Note:** if cabinet loses power from main source, previous settings will still be recalled)

At this point, a ten minute pre-heat cycle will begin. The heat will run at the set temperature for ten minutes prior to the humidity starting. This allows for the proof box to heat and warm the interior walls alleviating moisture running to the floor.



How to Set Temperature & Humidity

As long as the proofer cabinet is “ON”, the control system will maintain the proofer’s internal temperature and humidity set points. Temperature and Humidity settings can be adjusted by using the ⇧(up) and ⇩(down) keys located on the controller next to the corresponding display.

The internal temperature set point can be adjusted from 40°F to 120°F, and the internal humidity set point from 20% to 95%. To change the displayed temperature from Fahrenheit to Celsius or Celsius to Fahrenheit, press both ⇧(up) and ⇩(down) keys at the same time located by the “SET TEMPERATURE” display.

Setting Timer

The controller has the ability to run up to six timer programs. To set proofing times, press the ⇧(up) and ⇩(down) keys next to the “TIME SET” display to choose from Rack 1 thru 6. When the correct rack number appears, use the ⇧(up) and ⇩(down) keys next to the “PROOFER TIME” display to set the amount of time in hours and minutes that you would want the displayed rack to proof.

To activate the countdown timer, press the start button underneath the proof timer (*when timer is running, the colon between hours and minutes will flash). To see the time for each rack, press the ⇧(up) and ⇩(down) keys next to “TIME SET” to verify the time left on that numbered rack.

When the time has expired for a particular rack, the buzzer will sound, the lights on the display will flash as well as the indicator light at the upper right corner of the proofer box. The rack whose time has expired will show in the time display LED. Hit the “STOP” button to turn off timer. (***Note**: when pressing the “STOP” button, it will only stop the rack displayed in the “TIME SET” LED. The remaining rack timers will continue to run.)

Viewing Temperature & Humidity Set-Points

To view Heat & Humidity Set-Points while proof cabinet is in normal "ON" state:

(1) Press ⇧(up) and ⇩(down) keys next to "TIME SET" display window in following sequence: ⇧ ⇩ ⇩ ⇧ **(2)** When in view mode, "SET TEMPERATURE" and "SET HUMIDITY" display windows will repeatedly flash exact proof cabinet temperature and humidity. **(3)** To come out of view mode, press ⇧(up) or ⇩(down) key next to "TIME SET" display window and proof cabinet will go back to normal "ON" state.

Error Codes

Should any error code appear on the display, depress the “MAIN POWER” button on control panel to “OFF”. Wait 5 minutes and turn proofer cabinet back on. Should error code again appear, call for service.

Shut-Down

The shut-down is initiated by depressing the power key while in the “ON” state. A dry out stage will begin consisting of a ten minute period where the fans continue to run and the internal temperature is held at set point. The humidity will be “OFF” during this period to allow the box to dry out. At the end of the ten minute dry out cycle, the box will go into a five minute cool down phase to reduce the heat inside the proofer. At the conclusion of the cool down phase, the box will automatically shut down.

Temperature & Humidity Calibration

***Note:** It is highly recommended that the proof cabinet be calibrated at 85% humidity. Make sure all Heat & Humidity Monitoring Equipment has been properly calibrated and tested before making adjustments to the proof cabinet set points!*

(1) If proof cabinet is not "ON", power-up proof cabinet by pressing "ON / OFF" button located at "MAIN POWER" section of controller. **(2)** Wait for proof cabinet to complete 7-second diagnostic test. **(3)** To enter calibration mode, press ⇧(up) and ⇩(down) keys located next to "TIME SET" display window in following sequence: ⇧ ⇩ ⇩ ⇧ **(4)** When in calibration mode, "SET TEMPERATURE" and "SET HUMIDITY" display windows will repeatedly flash exact proof cabinet temperature and humidity. **(5)** Temperature and humidity set-points can now be adjusted (or calibrated) by using press ⇧(up) and ⇩(down) keys located next to "SET TEMPERATURE" and "SET HUMIDITY" display windows. **(6)** When temperature and humidity adjustments are complete, press ⇧(up) or ⇩(down) key next to "TIME SET" display window to lock-in settings and take proof cabinet back to normal "ON" state.

TECHNICAL SERVICE & REPLACEMENT PARTS

Adamatic strives to provide excellent customer service along with quality equipment. To help us better assist you, a serial number and/or model number must be provided when contacting the technical service or parts department. The data plate is located inside the proofer cabinet on back of the controller’s corner panel. All serial numbers are recorded and kept indefinitely.

Although common replacement parts have been presented throughout this manual, it is best to contact Adamatic to confirm the replacement part of choice.

TROUBLESHOOTING (*Error Message & Probable Cause Table)

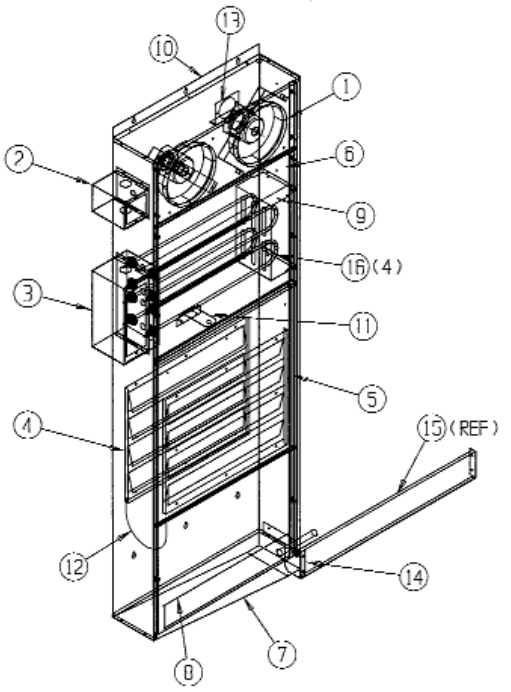
Caution: This information is for Service Technicians! Disconnect Power Supply Prior to Attempting Any Service!

Heater Timeout	**High Internal Temp.**	**Keypad Error**	**Sensor Comm.**	**Thermal Overload**	**Sensor Timeout**
Error Code: *"ERR 1"*	***Error Code:*** *"ERR 3"*	***Error Code:*** *"ERR 5"*	***Error Code:*** *"ERR 6"*	***Error Code:*** *"ERR 7"*	***Error Code:*** *"ERR 8"*
***Sensor calling for heat more than 60 minutes**	***Sensor finding internal cabinet temperature 15ºF than set point with no decrease in internal temperature for more than 10 minutes**	***System detected a depressed key when power is initially applied to the unit**	***Sensor Board has stopped transmitting data for more than 30 seconds**	***Sensor finding a tripped thermal overload switch**	***Sensor board not sending data 35 seconds or more**
Most Probable Causes:	**Most Probable Causes:**	**Most Probable Causes:**	**Most Probable Causes:**	**Most Probable Causes:**	**Most Probable Causes:**
1. Proofer Door open	1. Defective Temperature Sensor	1. Someone is depressing key while power is being applied during start-up	1. Sensor Cable has been disconnected	1. Thermal Overload Sensor disconnected	1. Defective Sensor Board
2. Heater Power Cable disconnected	2. Defective Power Triac	2. Defective Keypad	2. Defective Sensor Board	2. Defective Thermal Overload Sensor	2. Defective Sensor Cable
3. L3 (Phase-3) Fuse tripped or blown		3. Defective Display Board	3. Defective Sensor Cable	3. Defective Temperature Sensor	3. Defective Interface Cable
4. Defective Sensor Board			4. Defective Interface Cable	4. Defective Interface Cable	4. Defective Display Board
5. Defective Interface Cable				5. Defective Sensor Cable	
6. Defective Sensor Cable					
7. Defective Safety Relay(s)					
8. Defective Power Triac					
9. Defective Power Triac Driver					

COMMON REPLACEMENT PARTS

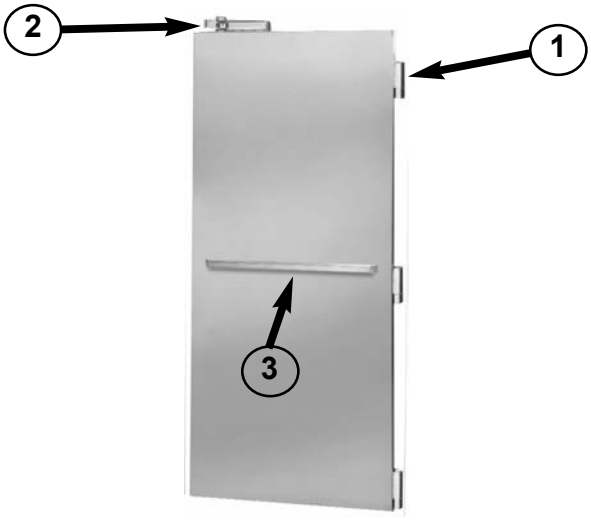
Air Wash System

Item	Part No.	Description	Qty
1	P7906301	Fan Panel Assembly	1
2	P7906401	Electrical Box Assembly	1
3	P6800004	Heater Box Assembly	1
4	P7904101	Chassis Assembly	1
5	P6800023	Front Panel Assembly Lift Off	1
6	P6053000	Front Panel	1
7	P7906201	Drain Pan Assembly	1
8	P6048600	Lower Front Panel	1
9	P6008801	Heater Bracket	1
10	P6008503	Top Panel	1
11	P6008902	Bracket, Spray Nozzle	1
12	P6020601	Carrier Filter	1
13	P6022500	Heat & Humidity Sensor Bracket	1
14	P6024101	Bracket, Bumper Guard	1
15	P6024000	Bumper Guard, Drain	1
16	P6011301	Hairpin Heater	4
17	P6800009	Water Line H Feed Assembly	1



Doors

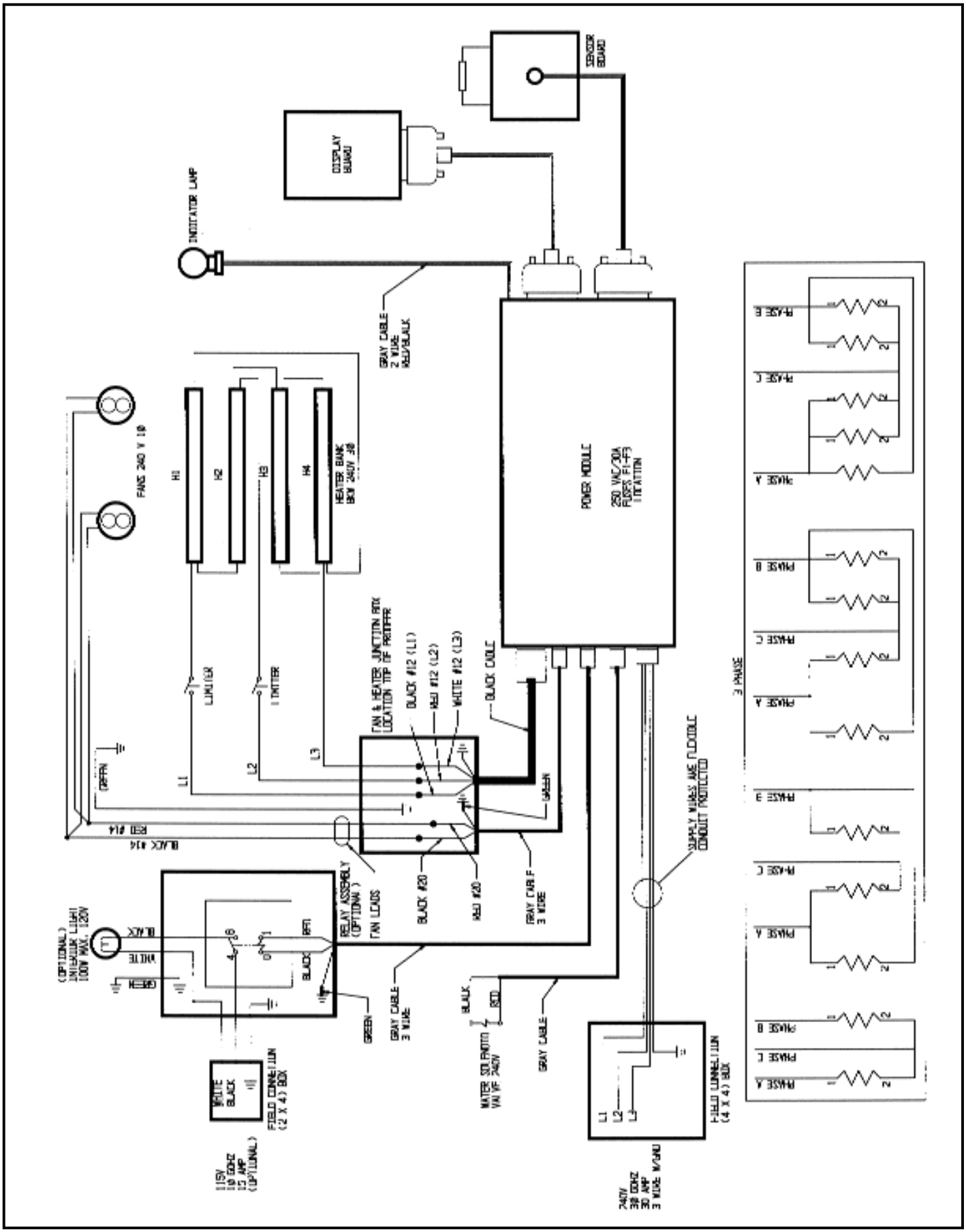
Item #	Part #	Description
1	10685101	Hinge Assembly (complete)
2	P6009900	Door Closure
3	P6020501	Door Handle
4	P6009301	Door Gasket, 3-Sided (*not shown)
5	P6009502	Wiper Seal,30” Bottom (*not shown)
6	P6009602	Wiper Seal,60” Side (*not shown)
7	P7903501	Door Assembly, LH Complete
8	P7903601	Door Assembly, RH Complete



Item #	Part #	Description
1	P6009700	Fan Motor
2	50185001	Fan Blade
3	50265802	Fan Guard
4	P6099701	Sensor & Klixon Kit
5	P6032500	Heater Safety
6	P6010401	Spray Nozzle, 80°
7	P6010500	Body Spray Adapter
8	P6099501	Power Module

Item #	Part #	Description
9	P6099501	Power Module
10	P6099801	Flashing Indicator Lamp
11	P6011900	Ball Valve
12	P6011700	Water Solenoid
13	P6030800	Light Housing
14	P6030900	Interior Light Globe
15	P6800036	Controller Assembly
16	P6049200	Filter, 24” x 16” Foam

WIRING DIAGRAM



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