SERVICE MANUAL



PW Proofer Series and RPW Series Proofer/Retarder Installation Instructions

For a complete listing of Models and ML's, see MODELS AND ML NUMBERS section.

PW1
PW2
PW3
RPW1
RPW2

- NOTICE -

This Manual is prepared for the use of trained Hobart Service Technicians and should not be used by those not properly qualified.

This manual is not intended to be all encompassing. If you have not attended a Hobart Service School for this product, you should read, in its entirety, the repair procedure you wish to perform to determine if you have the necessary tools, instruments and skills required to perform the procedure. Procedures for which you do not have the necessary tools, instruments and skills should be performed by a trained Hobart Service Technician.

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A product of Baxter MFG. Co., Inc 19220 State Route 162 East Orting, WA 98360
F25244 Rev. F (0320)

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IMPORTANT FOR YOUR SAFETY

IMPORTANT FOR YOUR SAFETY

THIS MANUAL HAS BEEN PREPARED FOR PERSONNEL QUALIFIED TO INSTALL GAS EQUIPMENT, WHO SHOULD PERFORM THE INITIAL FIELD START-UP AND ADJUSTMENTS OF THE EQUIPMENT COVERED BY THIS MANUAL

POST IN A PROMINENT LOCATION THE INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE SMELL OF GAS IS DETECTED. THIS INFORMATION CAN BE OBTAINED FROM THE LOCAL GAS SUPPLIER

IMPORTANT

IN THE EVENT A GAS ODOR IS DETECTED, SHUT DOWN UNITS AT MAIN SHUTOFF VALVE AND CONTACT THE LOCAL GAS COMPANY OR GAS SUPPLIER FOR SERVICE.

FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE

WARNING

IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.

IN THE EVENT OF A POWER FAILURE, DO NOT ATTEMPT TO OPERATE THIS DEVICE.

KEEP AREA AROUND OVEN CLEAR OF COMBUSTIBLES.

DO NOT OBSTRUCT COMBUSTION AND VENTILATION OPENING ON THE OVEN.

SERVICE UPDATES

SERVICE UPDATES

March 2020
- Updated TOOLS.

June 2019
- Updated ELECTRICAL SUPPLY CONNECTION under PREASSEMBLED CABINETS.
- Updated ELECTRICAL SUPPLY CONNECTION under UNASSEMBLED CABINETS.

November 2017
- Updated LOCATION.

October 2017
- Updated TOOLS.
- Added SINGLE DOOR HINGING.
- Updated DOOR HINGES.

GENERAL

MODELS AND ML NUMBERS

MODEL	ML NUMBER	MODEL	ML NUMBER
PROOFER			
PW1E - 34.5 DEEP	ML-132433	PW3S - 60.5 DEEP	ML-132450
PW1E - 80.5 DEEP	ML-132434	PW3S - 80.5 DEEP	ML-132451
PW1E - 120.5 DEEP	ML-132435	PW3S - 100.5 DEEP	ML-132452
PW1S - 40.5 DEEP	ML-132436	PW3S - 120.5 DEEP	ML-132453
PW1S - 60.5 DEEP	ML-132437		
PW1S - 80.5 DEEP	ML-132438	RETARDER	
PW1S - 100.5 DEEP	ML-132439	RPW1S - 40.5 DEEP	ML-132457
PW1S - 120.5 DEEP	ML-132440	RPW1S - 60.5 DEEP	ML-132458
PW1E - 60.5 DEEP	ML-132476	RPW1S - 80.5 DEEP	ML-132459
PW1E - 100.5 DEEP	ML-132477	RPW1S - 100.5 DEEP	ML-132460
PW2E - 40.5 DEEP	ML-132441	RPW1S - 120.5 DEEP	ML-132461
PW2E - 80.5 DEEP	ML-132442	RPW2E - 40.5 DEEP	ML-132462
PW2E - 120.5 DEEP	ML-132443	RPW2E - 80.5 DEEP	ML-132463
PW2S - 40.5 DEEP	ML-132444	RPW2E - 120.5 DEEP	ML-132464
PW2S - 60.5 DEEP	ML-132445	RPW2S - 40.5 DEEP	ML-132465
PW2S - 80.5 DEEP	ML-132446	RPW2S - 60.5 DEEP	ML-132466
PW2S - 100.5 DEEP	ML-132447	RPW2E - 60.5 DEEP	ML-132485
PW2S - 120.5 DEEP	ML-132448	RPW2E - 100.5 DEEP	ML-132486
PW2E - 60.5 DEEP	ML-132478	RPW2S - 80.5 DEEP	ML-132487
PW2E - 100.5 DEEP	ML-132479	RPW2S - 100.5 DEEP	ML-132488
PW3S - 40.5 DEEP	ML-132449	RPW2S - 120.5 DEEP	ML-132489

INTRODUCTION

These instructions are for Hobart PW and RPW Series cabinets. Certain steps may only apply to PW Series or RPW Series and will be indicated as such. The PW1/RPW1 single deep and PW2/RPW2 single deep cabinets can be shipped assembled requiring minimal field assembly. All cabinets can be shipped unassembled requiring field assembly. Both shipping methods will require leveling and connection to utilities. All utility connections are the responsibility of the customer.

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time indicated on the cover of the manual.

Retain these instructions for future reference.

UNPACKING

Remove crating from cabinets and check for possible shipping damage. If cabinet is found to be damaged after un-crating, save packaging material and contact the carrier within 15 days of delivery.

If location has multiple cabinets, keep serial numbered crates together.

Check contents against packing list with shipment.

Refer to hardware list for identifying hardware usage.

LOCATION

- Flooring:

  Level floor within 1/8" per foot up to 3/4" in all directions.

NOTE: For units supplied without a cabinet floor, the equipment is to be installed on flooring materials that are corrosion resistant and cleanable. Flooring materials meeting these requirements may include masonry materials. If a floor drain is located inside the proofer, any exposed hardware should be constructed of non-ferrous material.

- Drain connection:

  1/2" NPTF rear or front drain connection at 5" above finished floor, route to air gap drain.

- Water connection:

  Water and waste piping and connections shall comply with the International Plumbing Code 2003, International Code Council (ICC), or to the Uniform Plumbing Code 2003, International Association of Plumbing and Mechanical Officials (IAPMO).

NOTE: Plumbing connections must comply with applicable sanitary, safety and plumbing codes and provide adequate backflow protection to comply with applicable federal, state and local codes.

  1/2" NPTF water line connection at 95" above finished floor.

  30-80 psi flow.

  Cold water.

- Water Quality:

  Hardness 2-4GPG.

  pH 7.0 to 8.0.

  Chloride concentration 0-30ppm.

  Sediment <.5 micron.

  Turbidity <.5NTU.

  Total dissolved solids <400ppm.

- The electrical diagram is located on the cover of the component box. Cabinets requires a single phase or three phase 208-240 volt electrical connection. Neutral wire circuitry needed to provide 110-120 volt for miscellaneous control components. A separate 110-120 volt line may be run or a transformer option will be required if 110-120 volt is not available. Consult Bakery Product Support for 110-120 volt line or transformer option requirements.
- Single Phase (L1, L2, Neutral, Ground).
- Three Phase (L1, L2, L3, Neutral, Ground).

CLEARANCE DIMENSIONS

Cabinets UL/CSA Listed for 0" clearance for back and side walls.

A 2" to 4" back clearance is recommended when plumbing rear drain connection.

Top of cabinet requires a minimum of 24" clearance for servicing accessibility.

TOOLS

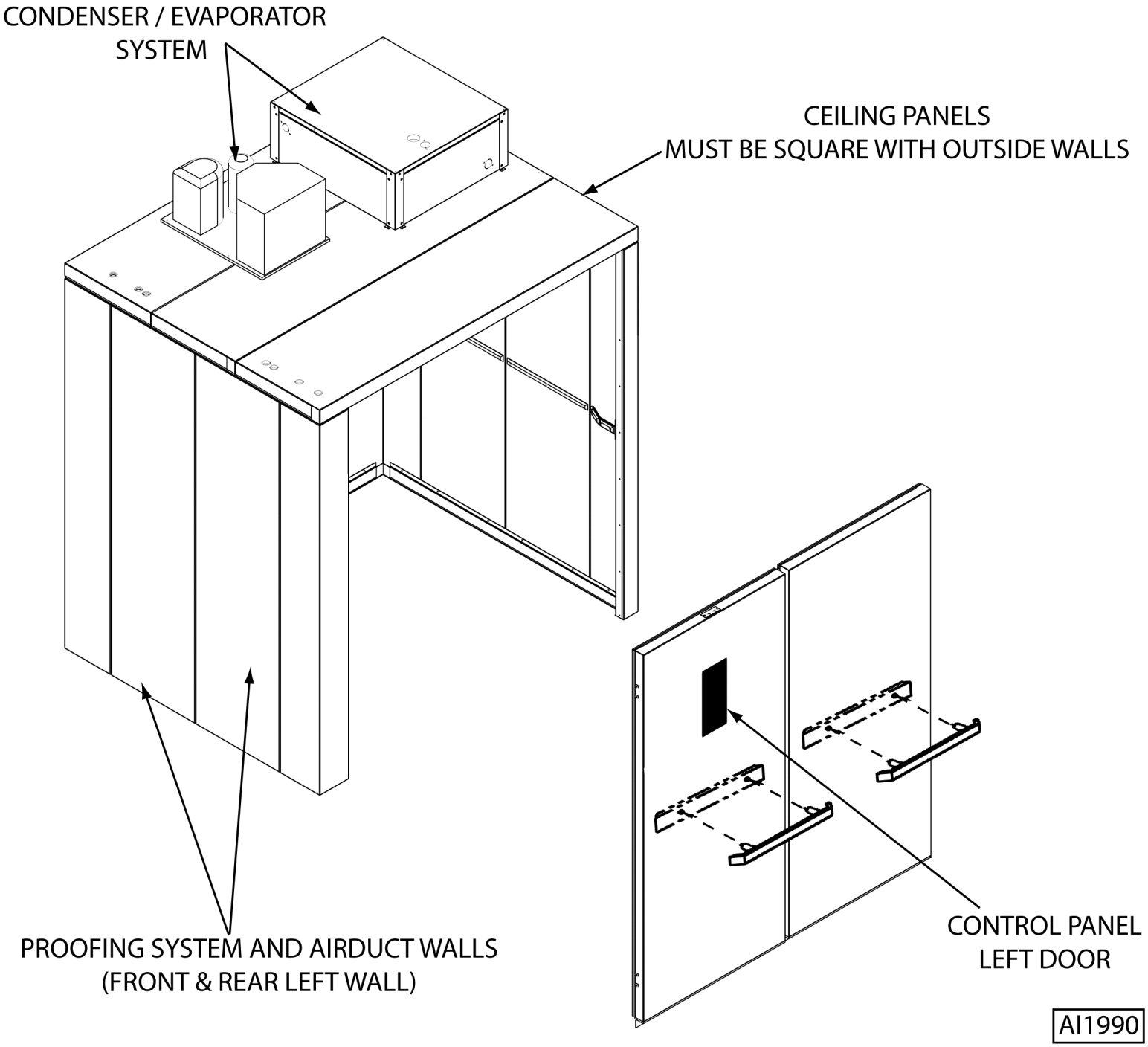
Standard Tools

- Standard set of hand tools.
- VOM with minimum of NFPA-70E CATIII 600V, UL/CSA/TUV listed. Sensitivity of at least 20,000 ohms per volt. Meter leads must also be rated at CAT III 600V.
- Clamp on type amp meter with minimum of NFPA-70E CAT III 600V, UL/CSA/TUV listed.
- Temperature tester (thermocouple type).
- ESD (Electrostatic discharge) Protection Kit.
- Tile Trowel (square notch) Grainger No. 5LG06 supplied with floor option proofer.

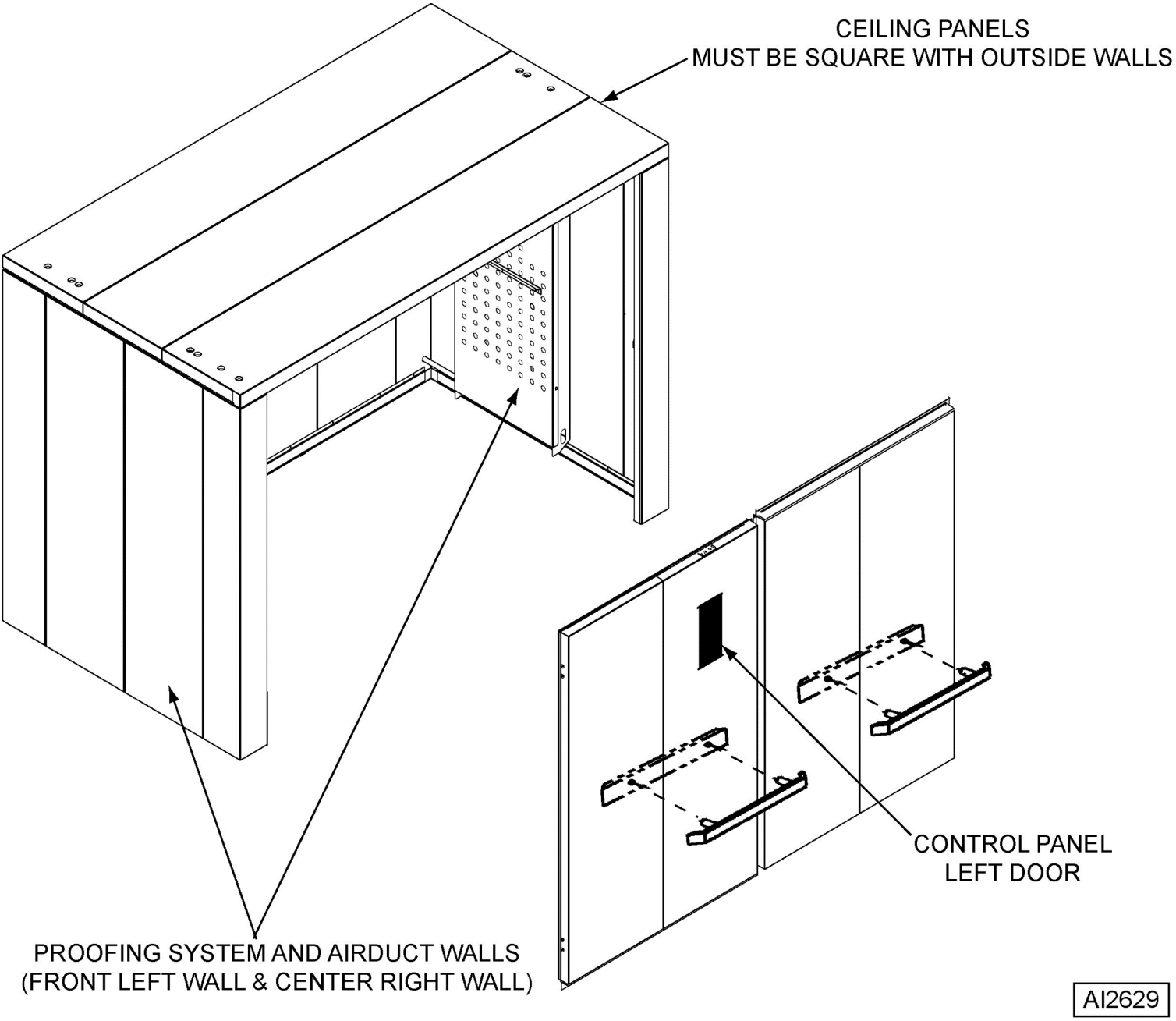
Special Tools

- Hammer drill 1/2" Grainger No. 3TB72 to drill holes in floor for anchor bolts.
- 3/8" masonry drill bit to drill holes in floor for anchor bolts.
- Setting tool Part No. 01-1000V4-73A to set drop-in anchors in facility floor **(no longer supplied with proofer hardware as of 4/1/2020)**.
- Roller Tool (Laminate J Roller) - for completing seal of floor trim to wall.
- 7/32" hex socket 3/8" drive Grainger No. 3LB97.
- 5/16" hex key 6" long Grainger No. 4RE58 to lock cam locks.
- Loctite® Threadlocker Blue 242®.

BASIC CABINET CONSTRUCTION



RPW2 Cabinet



PW3 Cabinet

WALL CONFIGURATIONS

The right side wall will always be the solid wall. The left side wall will contain the proofing system. PW3 Series proofing systems on both sides.

1E Cabinet Width = 35.5"

1S Cabinet Width = 42.0"

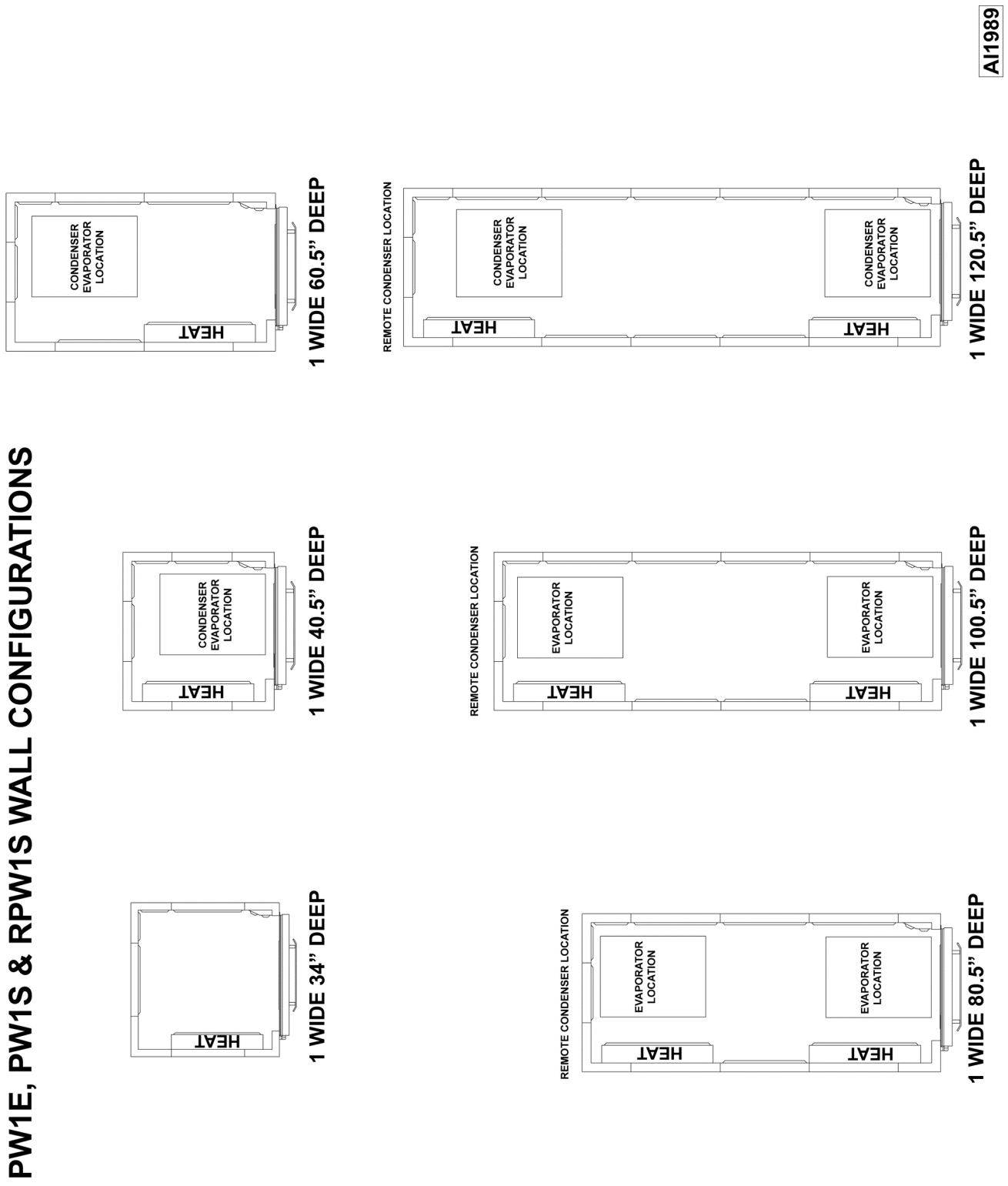


Fig. 3

2E Cabinet Width = 62.0"

2S Cabinet Width = 75.5"

1/2 Panel Width Dimension = 13.5"

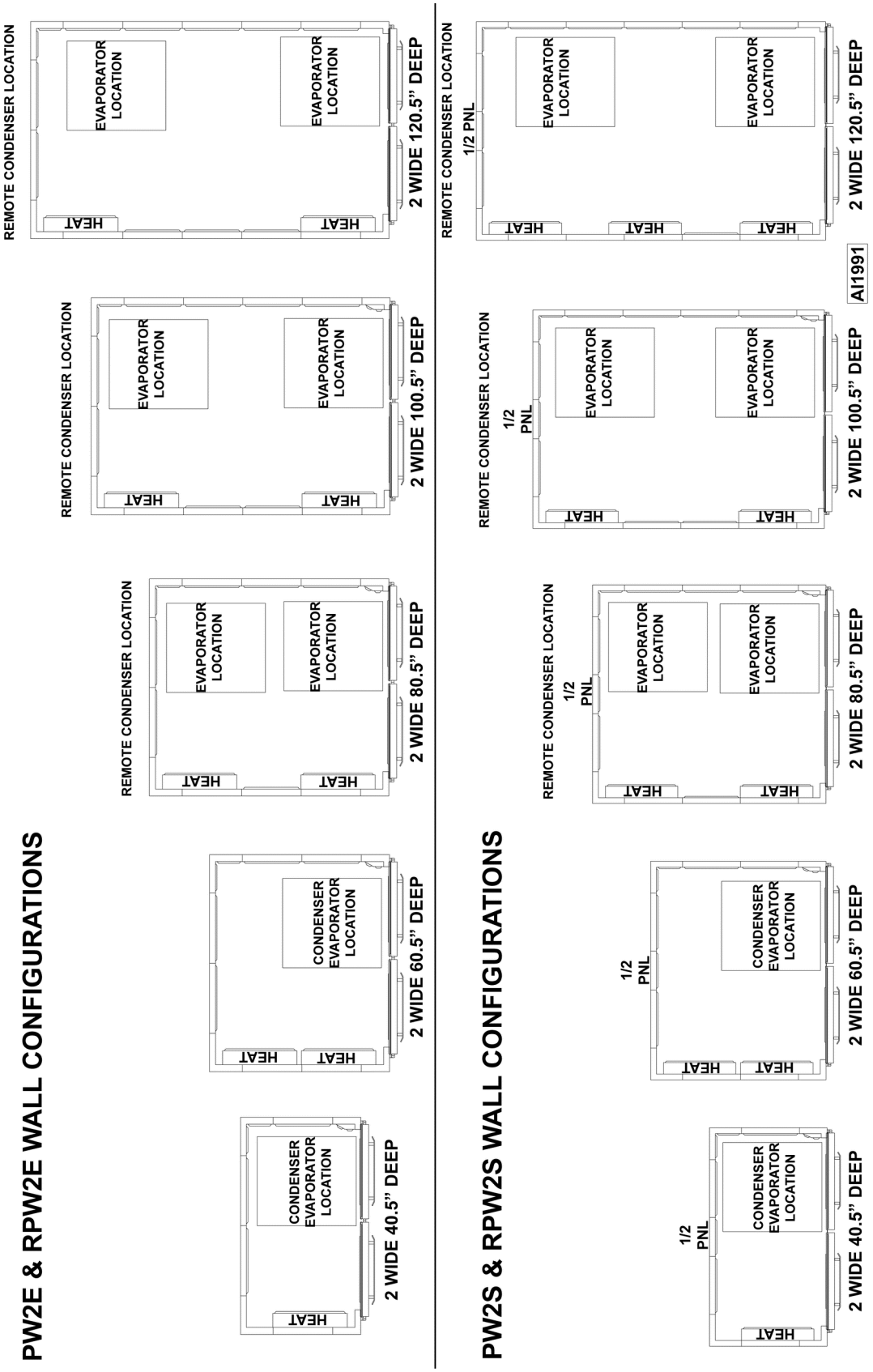


Fig. 4

3S Cabinet Width = 109.0"

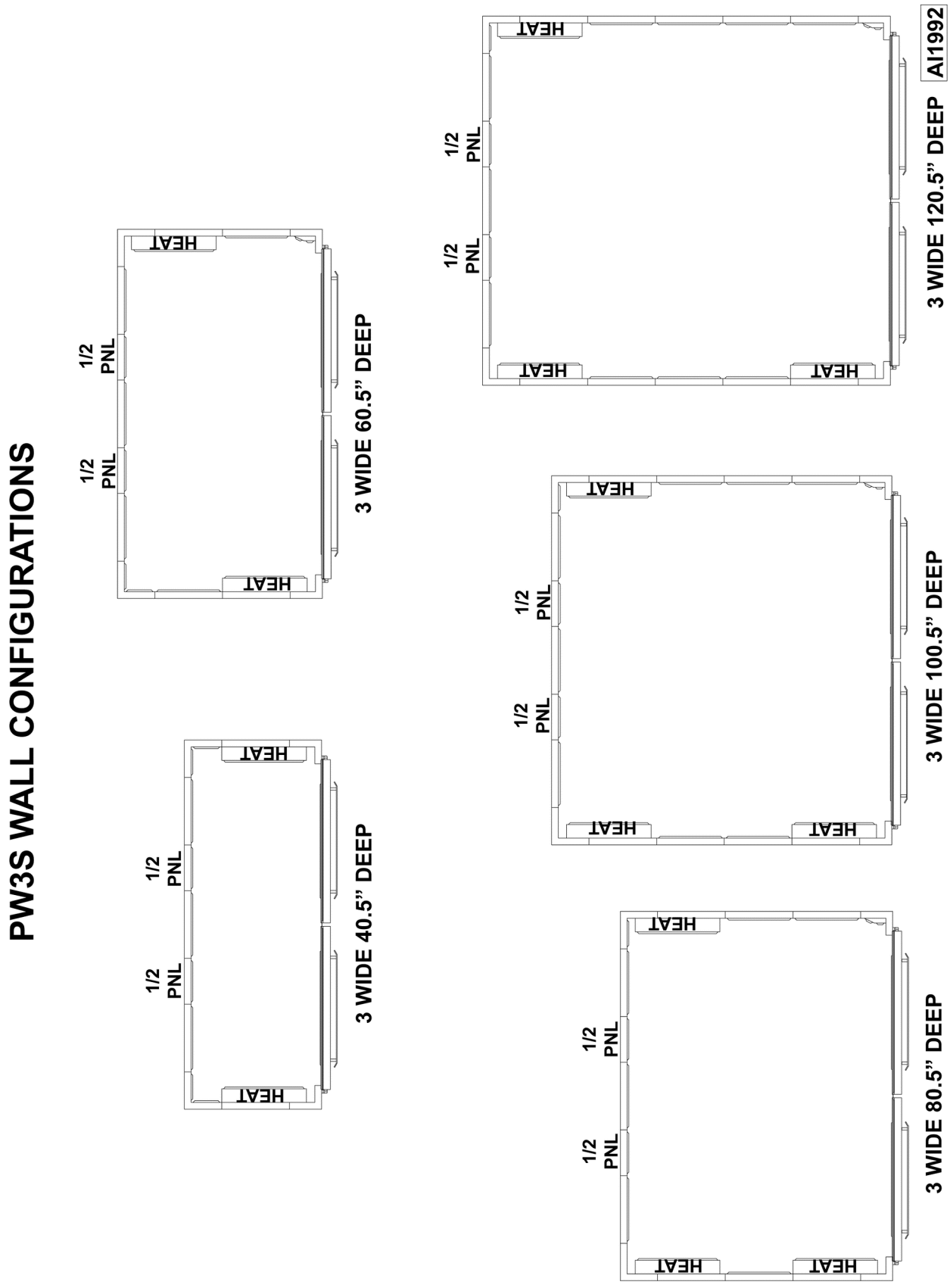

PW3S WALL CONFIGURATIONS
3 WIDE 40.5" DEEP
3 WIDE 60.5" DEEP
3 WIDE 80.5" DEEP
3 WIDE 100.5" DEEP
3 WIDE 120.5" DEEP
AI1992
1/2 PNL
HEAT

Fig. 5

PREASSEMBLED CABINETS

Only single width/single depth and double width/single depth cabinet can be shipped assembled. You may want to remove door(s) prior to maneuvering cabinet into place. Each cabinet is shipped with the individual parts needed for on-site assembly, along with a packing list. Before installing cabinet, compare parts to packing list to ensure all parts were received. Wait as long as possible before removing plastic protective covering from panels. Apply silicone between floor and wall angle or floor and base channel seams. Leave no voids.

POSITION CABINET

NOTE: If cabinet rear drain is not accessible from the back when in final location, route the proofer drain outside of the cabinet to the facility drain before setting proofer in final location.

1. Position cabinet near the final location.
2. Determine if the drain must be routed out the back or front of the unit.
   A. If the drain is not accessible with the unit in the final location, install drain prior to moving unit into final location.
3. Position cabinet in final location and level.
   A. If necessary, place shims under walls to level cabinet.

FLOOR

1. Install rear corner brackets at both rear corners of cabinet.

NOTE: Place a spot of silicone on back side of brackets to aid in holding brackets into position.

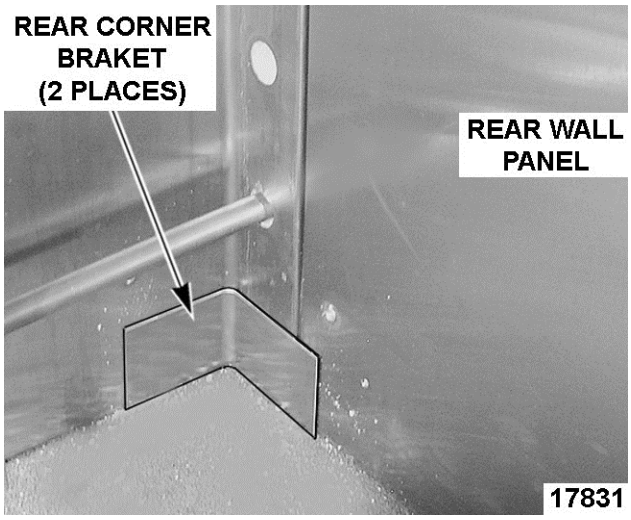


Fig. 6

2. Install front corner brackets at bottom of door jambs.

NOTE: Place a spot of silicone on back side of brackets to aid in holding brackets into position.

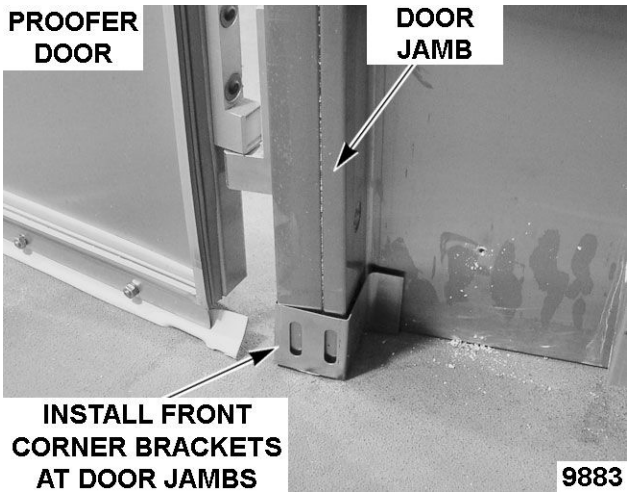


Fig. 7

3. (Cabinet No Floor option only) Check walls for squareness and Install floor angles.

NOTE: Do not use floor angles on cabinets with floor.

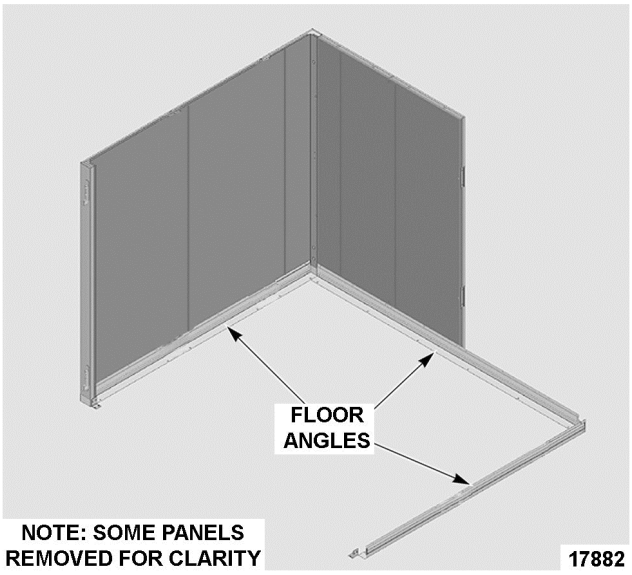


Fig. 8

4. Apply adhesive to bottom of left cabinet floor and spread evenly with a trowel. Cover entire floor surface with adhesive.

NOTE: Single wide cabinets will only have a single (one piece) floor.



Fig. 9

5. Place left cabinet floor in final position.

   A. Position left cabinet floor such that side flange is behind air duct.

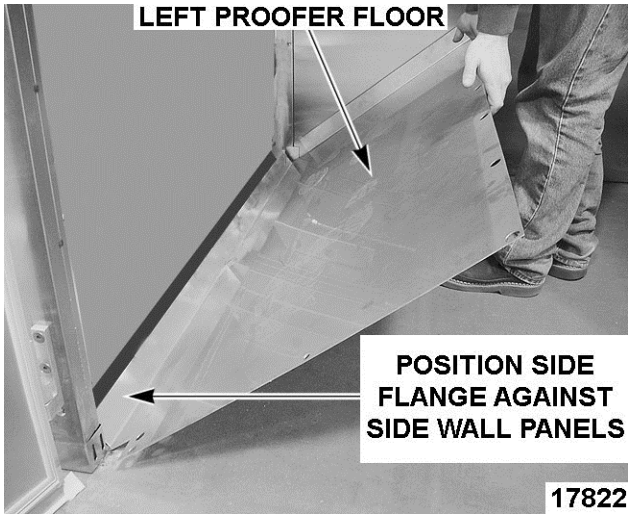


Fig. 10

6. Apply adhesive to bottom of right cabinet floor and spread evenly with a trowel. Cover entire floor surface with adhesive. Also apply adhesive to bottom side of overlap.

7. Place right cabinet floor in final position.

   A. Push right floor against the right wall.

NOTE: Ensure right floor overlaps the left floor. If not, square up proofer walls.

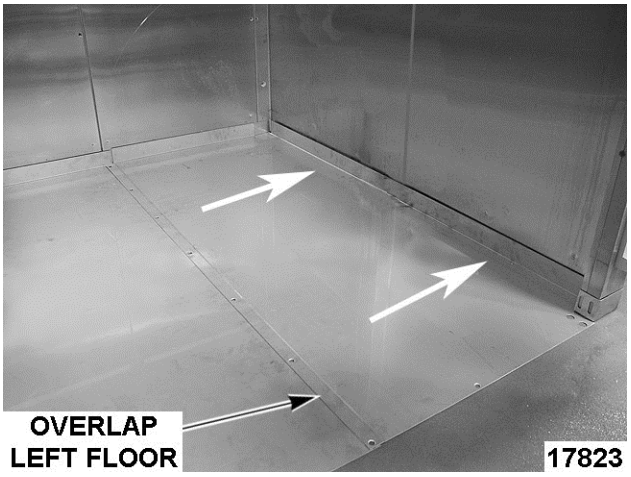


Fig. 11

8. Anchor cabinet floor to facility floor.

9. Check proofer for being level. If necessary, place shims under cabinet walls to level.

FLOOR BRACKETS

1. Install floor brackets to cabinet walls.

NOTE: Ensure front and rear corner brackets are in the gap between cabinet floor and wall.

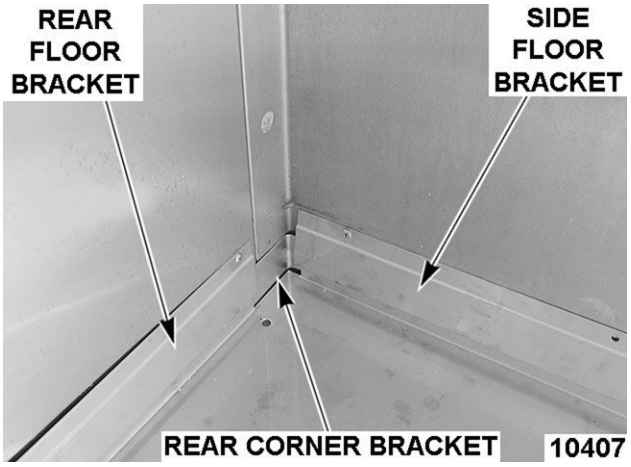


Fig. 12

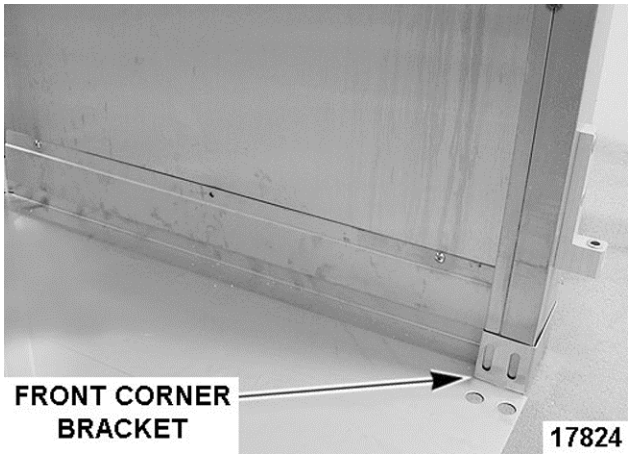


Fig. 13

2. Apply silicone to front and rear corner brackets, and position them at cabinet floor and wall panels.

NOTE: Use one floor bracket for each side wall and one for the rear wall.

3. Install door jamb mounting brackets to front cabinet corners and secure to facility floor.

NOTE: If mounting bracket holes do not line up with clearance holes in floor, drill new clearance holes.

4. If door(s) removed earlier, install door(s) onto door hinges.

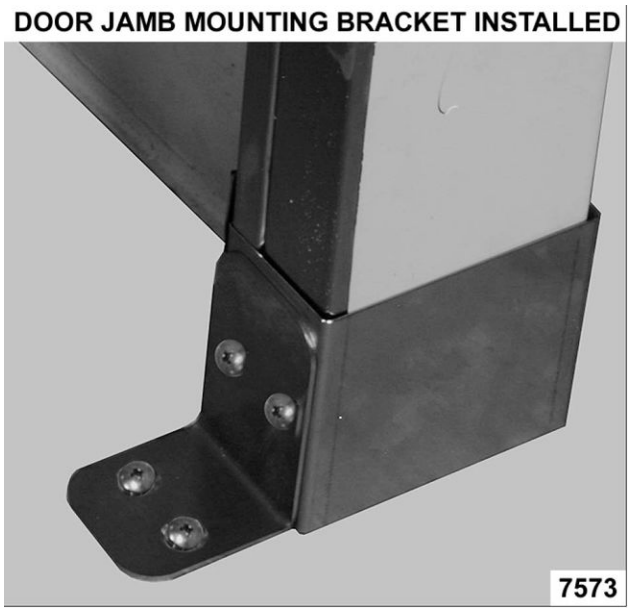


Fig. 14

5. Install outer floor trim, remove film covering from double sided tape and seal trim to wall. Use roller tool to complete seal to wall.

NOTE: Remove outer protective plastic after outer floor trim is installed.

NOTE: Before installing outer floor trim, clean outer wall surface with degreaser.

6. Apply silicone to front corner floor trim at top and bottom seams.
7. Secure front edge of cabinet floor to facility floor.
8. Install air duct assembly onto cabinet.

SINGLE DOOR HINGING

NOTICE

Failure to follow the proper procedure in DOOR HINGES may cause irreparable damage to the front corner panels.

Single Door Units Only

The loading door may be reconfigured from the supplied left-hand hinging to right-hand hinging, if desired. Refer to DOOR HINGES for detailed instructions for this procedure.

WATER SUPPLY LINE CONNECTION

1. Connect water supply line to solenoid assembly.

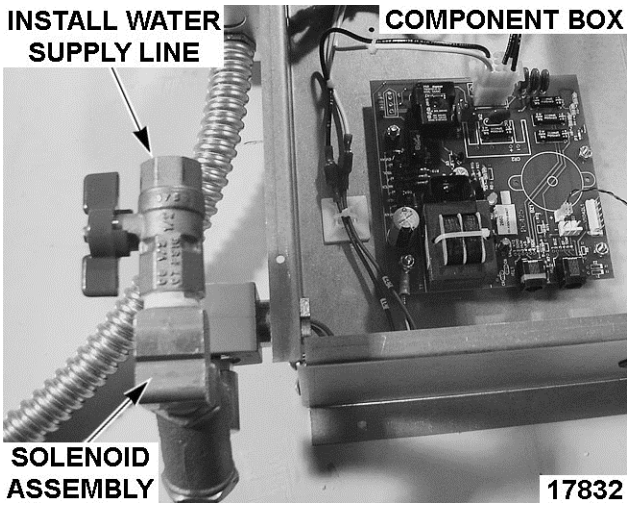


Fig. 15

ELECTRICAL SUPPLY CONNECTION



⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected.

1. Connect electrical supply per the wiring diagram on the component box cover or back side of lower front trim.

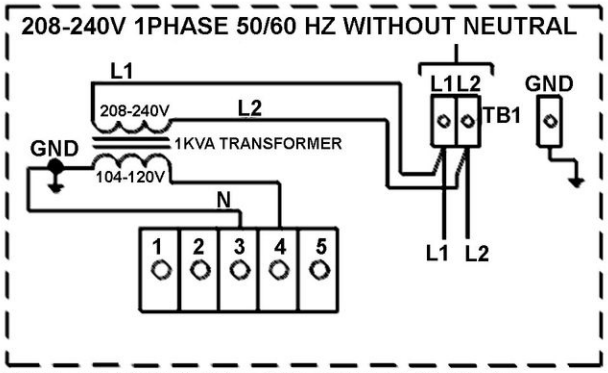
NOTICE

Energizing power supply without a neutral connection could result in damage to circuit board.

NOTE: Damage resulting from failure to confirm neutral connection prior to energizing the equipment will **not be covered under warranty**.

NOTE: If 208-240 volt electrical supply does not have a neutral, a step-down transformer can be installed (see following diagram). Step down transformer must be installed in a leak tight housing supplied by customer.

ELECTRICAL SUPPLY CONNECTION
WITHOUT NEUTRAL

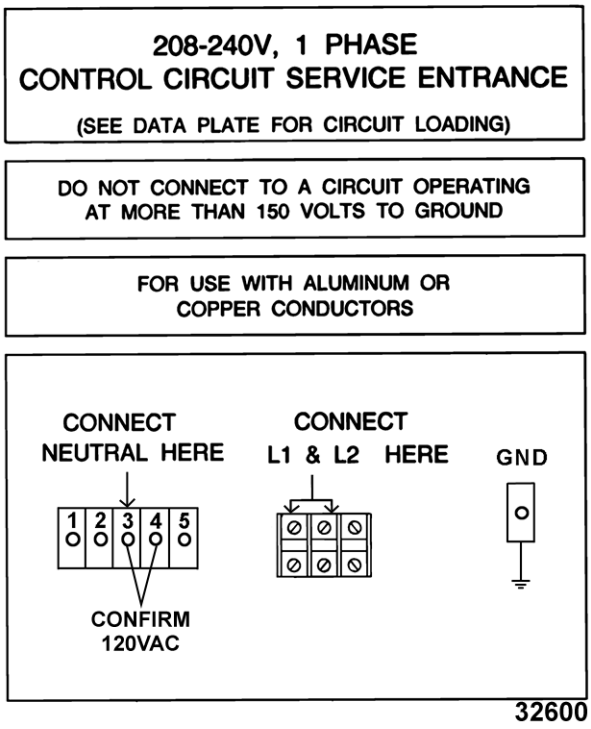


NOTE: TRANSFORMER WITHOUT A GROUND, GROUND NEUTRAL LEG OF TRANSFORMER.

10420

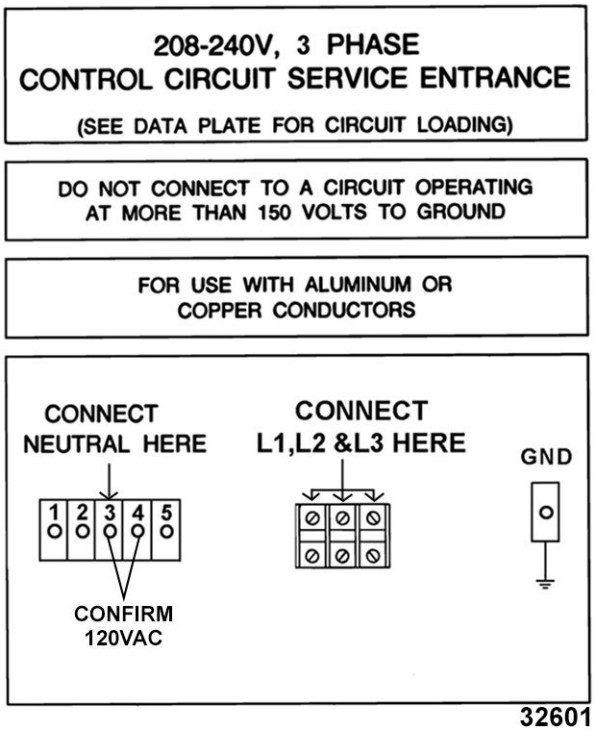
Fig. 16

ELECTRICAL SUPPLY CONNECTION
WITH NEUTRAL



32600

Fig. 17



32601

Fig. 18

FINAL CHECKS

1. Remove all remaining protective plastic.

2. Install plug buttons in unused holes i.e. wall and ceiling panels.
3. Ensure all holes with wiring / tubing through wall and ceiling panels are filled with silicone.
4. Test for proper operation.

NOTE: The fans of each proofing system will run continuously for 20 minutes after power has been shut off at the controller.

5. Complete Installation Checklist and return to Bakery System Service Support.

UNASSEMBLED CABINETS

If cabinet is double wide, or double or three deep and shims are required, shims must be placed at connecting wall seam. All wall panels, corner panels and ceiling panels will be installed with cam locks.

Pass-through cabinets will have ceiling panel halves for both front and rear of cabinet. Pass-through models will not have a rear floor trim. The cabinet is anchored by the door jamb mounting brackets and anchor rear edge of cabinet floor as required.

WALL PANEL

Refer to WALL CONFIGURATIONS for sequence of wall panel assembly. As walls are added, ensure panel seals are on opposite sides.

1. Start with left rear corner at final position on facilities floor.

   NOTE: Both rear corner panels should be positioned with the cam locks at the top.

   NOTE: Turn top cam CW and bottom cam CCW to lock.

2. Attach adjacent rear wall panel and left wall panel to left rear corner and lock in place.
3. Follow WALL CONFIGURATIONS to assemble remaining panels.

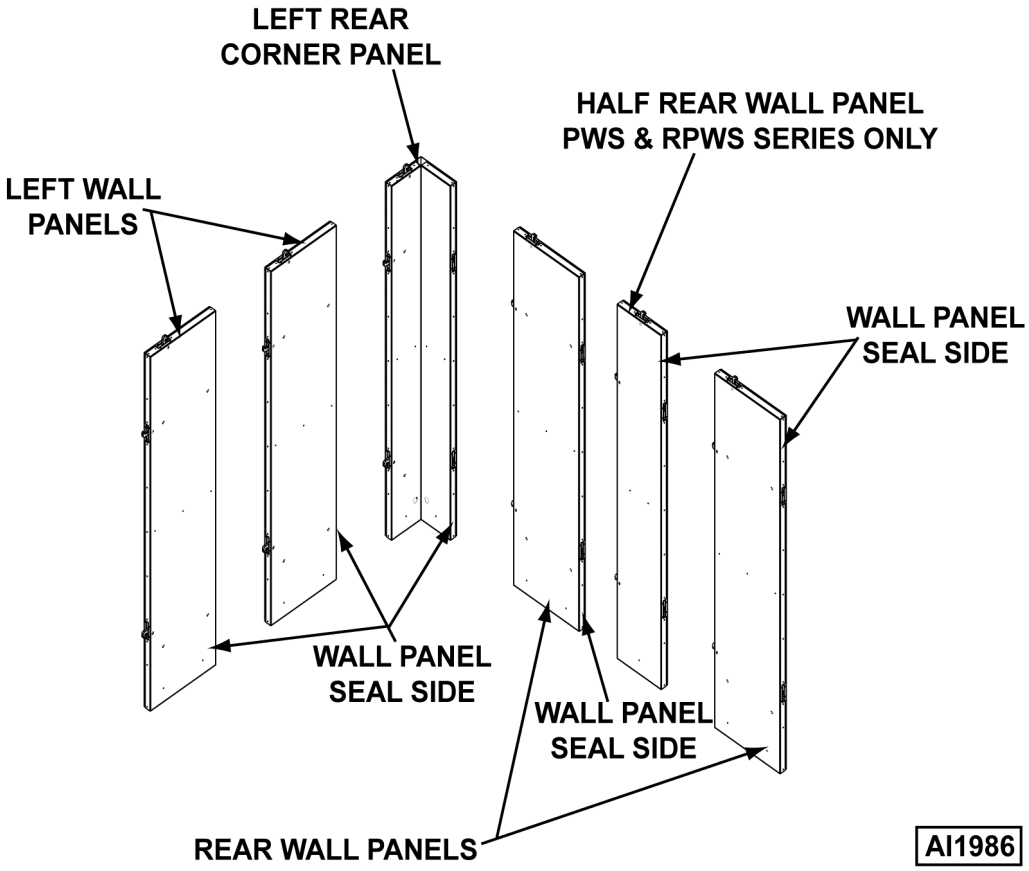


Fig. 19

CEILING PANELS

Refer to WALL CONFIGURATIONS for assembling condenser/evaporator system. As ceiling panels are added ensure panel seals are on opposite sides.

1. Install ceiling panels.

NOTE: All cam locks on ceiling panels turn clockwise except cam locks on front corner panels.

   A. Start with rear ceiling panel.

   B. Align edges of ceiling panel with rear wall and lock into place.

   C. Secure rear ceiling panel to side walls with cam locks.

   D. As ceiling panels are added, lock ceiling panels together and then lock to side walls.

2. (RPW Series Only) Install evaporator drain tube to evaporator drain and ceiling drain, making sure tubing runs downward to allow proper drainage from evaporator drain.

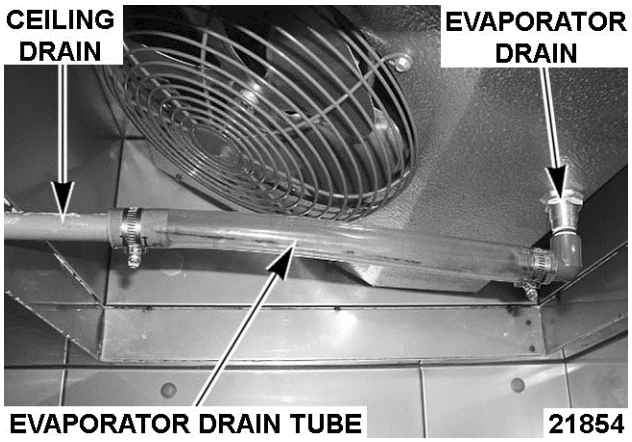


Fig. 20

3. (RPW Series Only) Install shroud baffle on to exhaust grill.

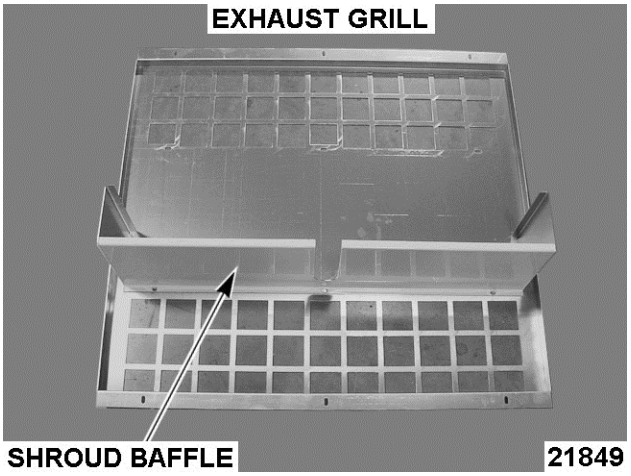


Fig. 21

   A. Install exhaust grill on to retarder ceiling under evaporator assembly.

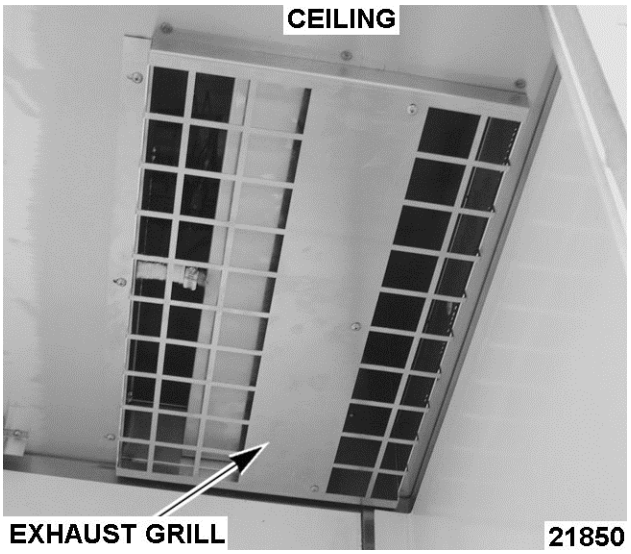


Fig. 22

FLOOR

1. Install rear corner brackets at both rear corners of cabinet.

NOTE: Place a spot of silicone on back side of brackets to aid in holding brackets into position.

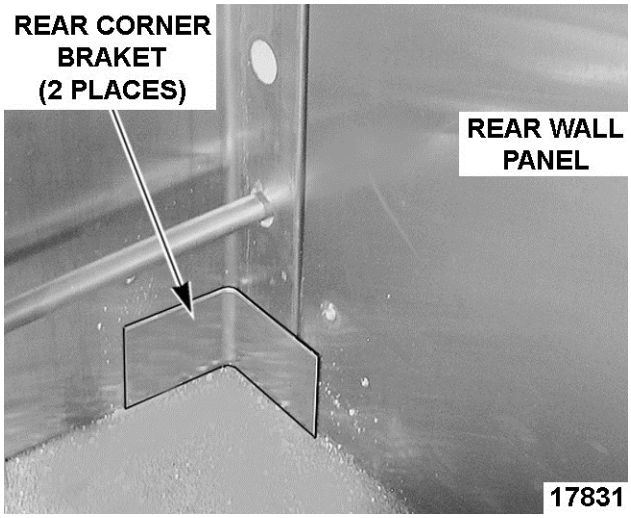


Fig. 23

2. Install front corner brackets at bottom of door jambs.

NOTE: Place a spot of silicone on back side of brackets to aid in holding brackets into position.

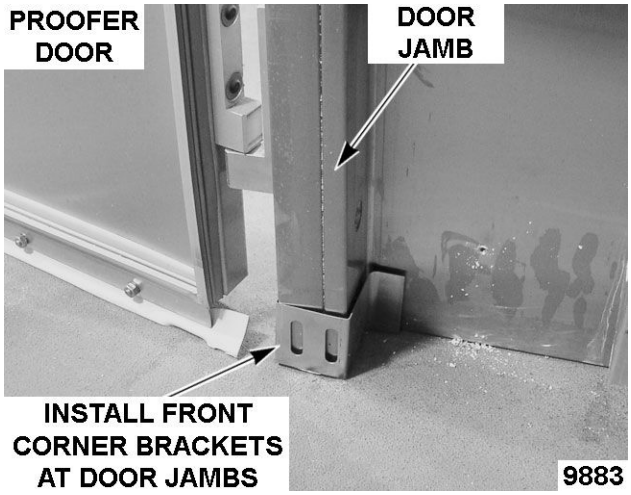


Fig. 24

3. (Cabinet No Floor option only) Check walls for squareness and Install floor angels.

NOTE: Do not use floor angles on cabinets with floor.

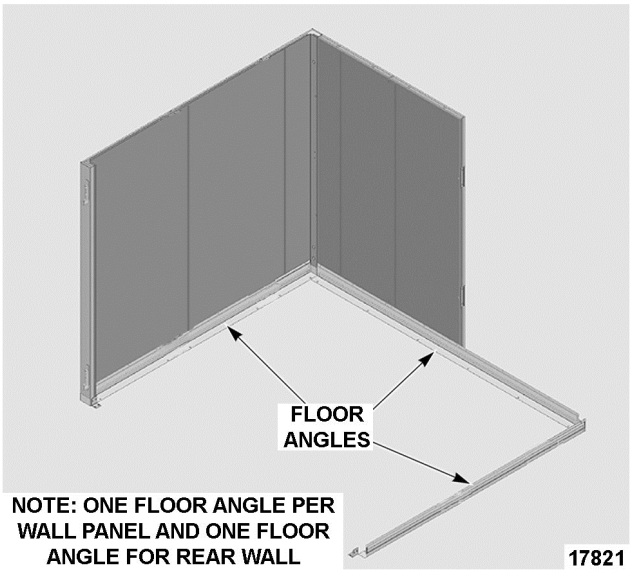


Fig. 25

4. Apply adhesive to bottom of left cabinet floor and spread evenly with a trowel. Cover entire floor surface with adhesive.

NOTE: Single wide cabinets will only have a single (one piece) floor.



Fig. 26

5. Place left cabinet floor in final position.

   A. Position left cabinet floor such that side flange is behind air duct.

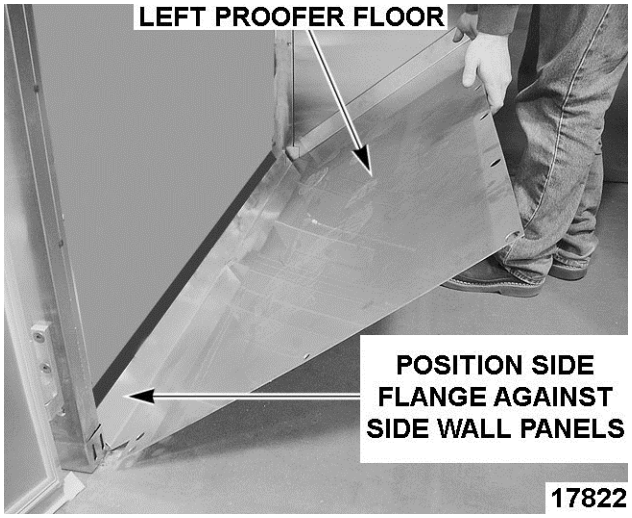


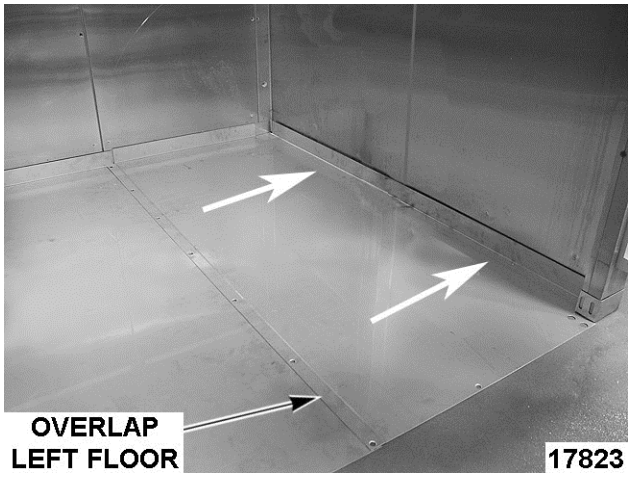
Fig. 27

6. (PW3 Only) Apply adhesive to bottom of center proofer floor and spread evenly with a trowel. Cover entire floor surface with adhesive. Also apply adhesive to bottom side of overlap.
7. (PW3 Only) Place center proofer floor in position. Center floor should overlap left floor.
8. Apply adhesive to bottom of right cabinet floor and spread evenly with a trowel. Cover entire floor surface with adhesive. Also apply adhesive to bottom side of overlap.
9. Place right cabinet floor in final position.

NOTE: Floor brackets may need to be removed to position the floor in place.

A. Push right floor against the right wall.

NOTE: Ensure right floor overlaps the left floor. If not, square up proofer walls. (PW3 Only) Ensure center floor overlaps the left floor and right floor overlaps center floor. If not, square up proofer walls.



PW2/RPW2 SERIES

PW3 PROOFER FLOOR

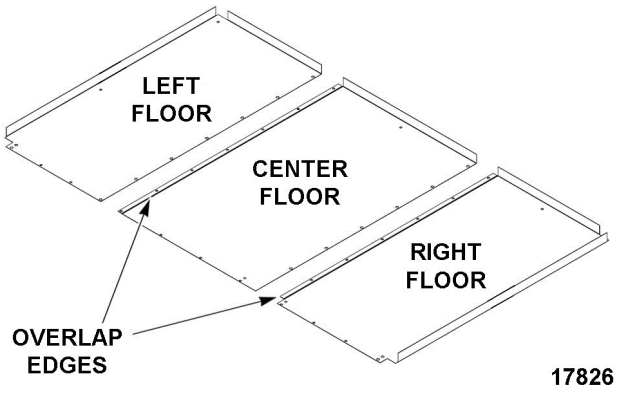


Fig. 29

10. Anchor cabinet floor to facility floor.
11. Check cabinet for being level. If necessary, place shims under cabinet walls to level.
12. Install door jamb mounting brackets to front cabinet corners and secure to facility floor.

NOTE: If mounting bracket holes do not line up with clearance holes in floor, drill new clearance holes.

DOOR JAMB MOUNTING BRACKET INSTALLED

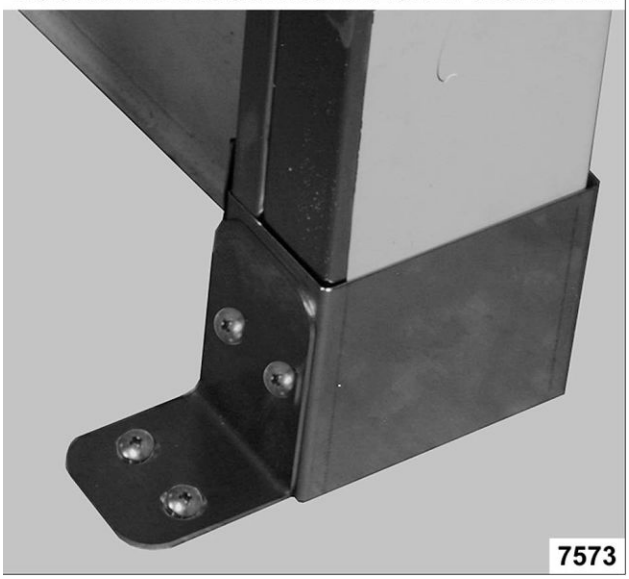


Fig. 30

FLOOR BRACKETS

1. Install floor brackets to cabinet walls.

NOTE: Ensure front and rear corner brackets are in the gap between cabinet floor and wall.

NOTE: Only peel back protective plastic where floor brackets are installed.

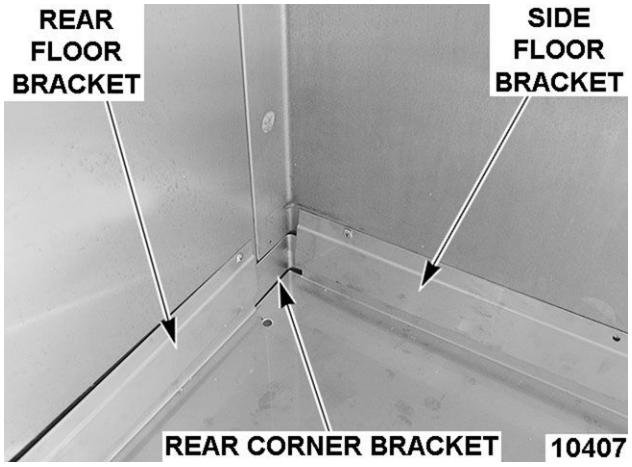


Fig. 31

2. Apply silicone to front and rear corner brackets, and position them at cabinet floor and wall panels.
3. Install outer floor trim, remove film covering from double sided tape and seal trim to wall. Use roller tool to complete seal to wall.

NOTE: Only peel back protective plastic where outer floor trim is installed.

NOTE: Before installing outer floor trim, clean outer wall surface with degreaser.

4. Apply silicone to front corner floor trim at top and bottom seams.
5. Secure front edge of cabinet to facility floor.

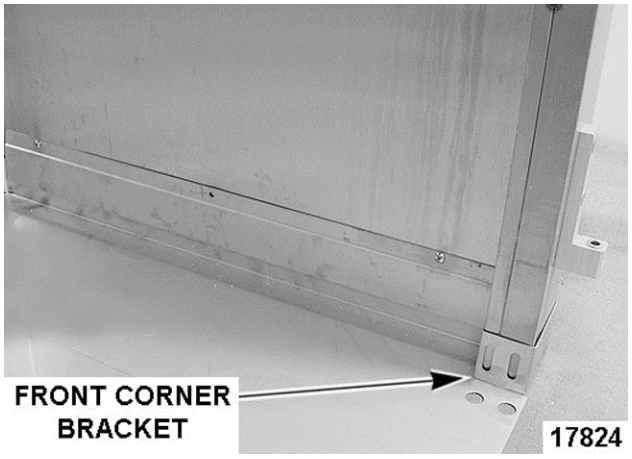


Fig. 32

AIR DUCT ASSEMBLY

1. Install plug buttons into unused holes that would be behind air duct assembly.
2. Install humidity/temperature sensor in top left front corner inside cabinet.
   A. Route sensor through ceiling panel. Plug will not fit through ceiling hole.
   B. Install sensor bracket onto ceiling.

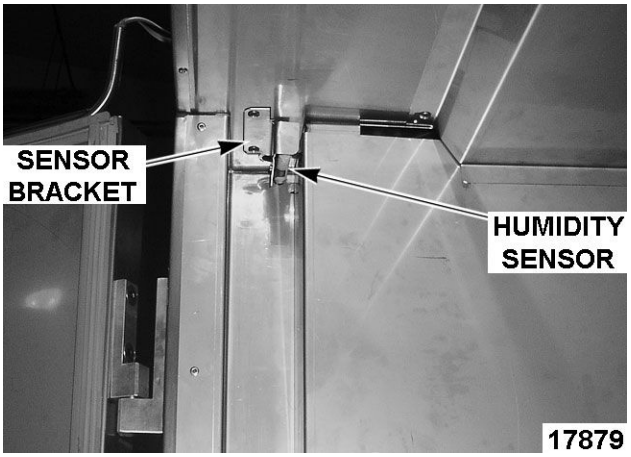


Fig. 33

   C. Install sensor into clamp on sensor bracket.

NOTE: Do not remove the white protective covering from humidity/temperature sensor.

NOTE: Ceiling has pre-drilled holes for mounting sensor bracket.

3. Position sensor 1/4" from end of bracket.

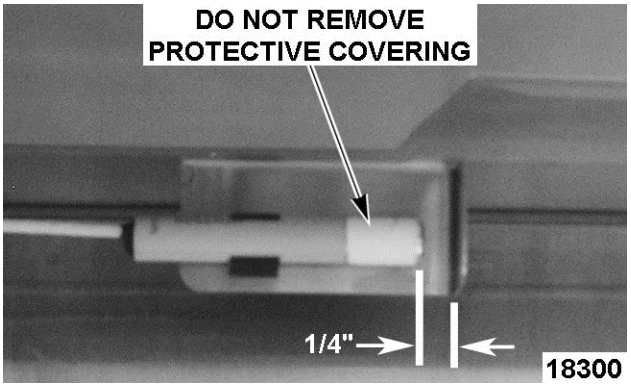


Fig. 34

4. Install air duct assembly.

NOTE: Refer to WALL CONFIGURATIONS section for air duct assembly location.

   A. Remove air intake cover and intermediate panel from air duct assembly.
   B. Install air duct bolts loosely into nutserts in ceiling panel.
   C. Hang air duct assembly onto bolts using key holes in air duct assembly.
   D. Secure air duct assembly to wall panel (4 places) and tighten ceiling bolts.

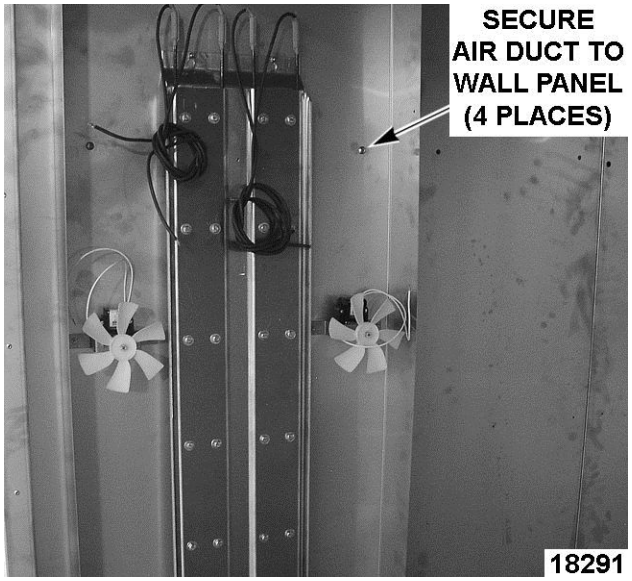


Fig. 35

E. Install grommets into routing holes in air duct assembly.

5. Route heater, fan, and high limit lead wires through appropriate access hole in ceiling. There will be a grommet around both the inner and outer skin access holes.

NOTE: Insulation may need to be cleaned out of holes so heater wires can be routed through.

6. Install water line from solenoid to spray nozzle using shallow radius bends.

NOTICE

Do not kink the water line.

NOTE: Fitting on spray nozzle is a self locking push-in type.

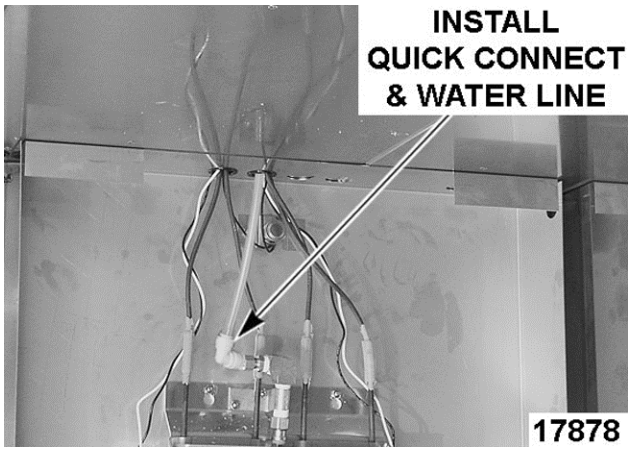


Fig. 36

DRAIN

1. Install drain tube from outside of cabinet through hole in rear wall or hole in front wall, depending on location of facilities drain.

NOTE: Insulation may need to be cleaned out of hole so drain tube can be routed through.

NOTE: T drain assembly fittings are hand tighten only.

NOTE: Straight run of drain tube from air gap drain should have a 1/4" slope per foot to cabinet wall.

2. (RPW Series Only) Install evaporator drain tube into ceiling drain.

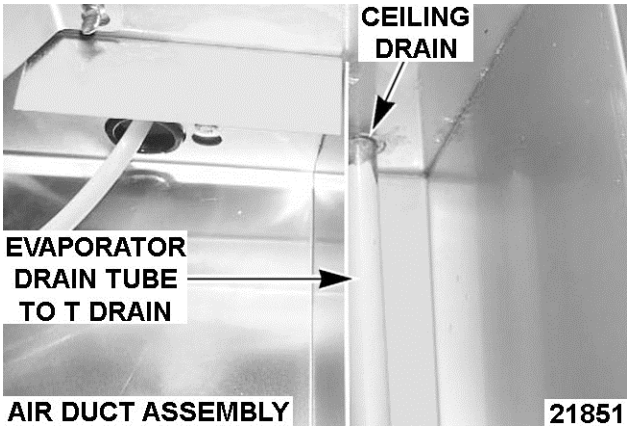


Fig. 37

3. (RPW Series Only) Install evaporator drain & T fitting into T drain assembly.

4. Install capped 4" drain tube into T drain assembly coupler that is not being used for drain line.

5. Cut tubing to proper length. Length will be determined by location of proofer in proximity to a wall or drain and the quantity of air ducts installed.

6. Apply silicone to drain tube at wall of cabinet.

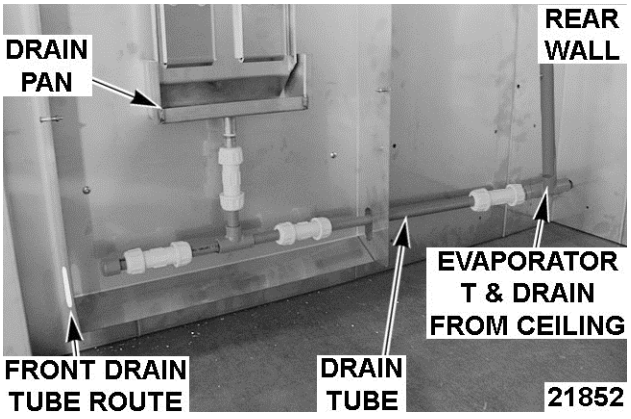


Fig. 38

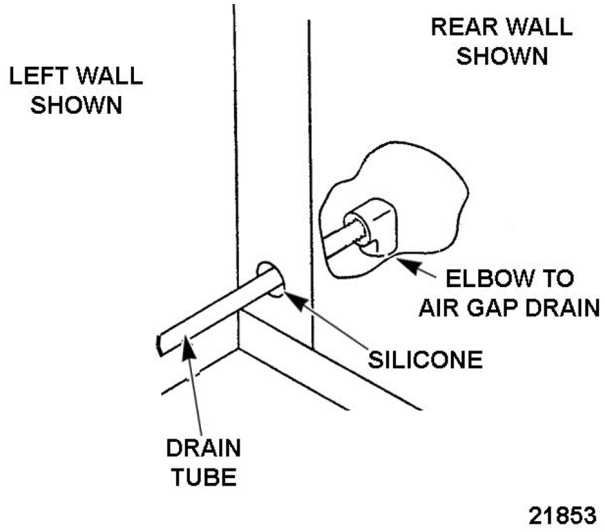


Fig. 39

AIR INTAKE & INTERMEDIATE PANEL

1. Install intermediate panel to air duct assembly. Intermediate panel fits inside air duct assembly.
2. Install bumper to air intake cover.
3. Install air intake cover onto air duct assembly. Air intake cover fits over air duct assembly.
   A. Secure cover in upper left corner of air duct assembly with a screw.

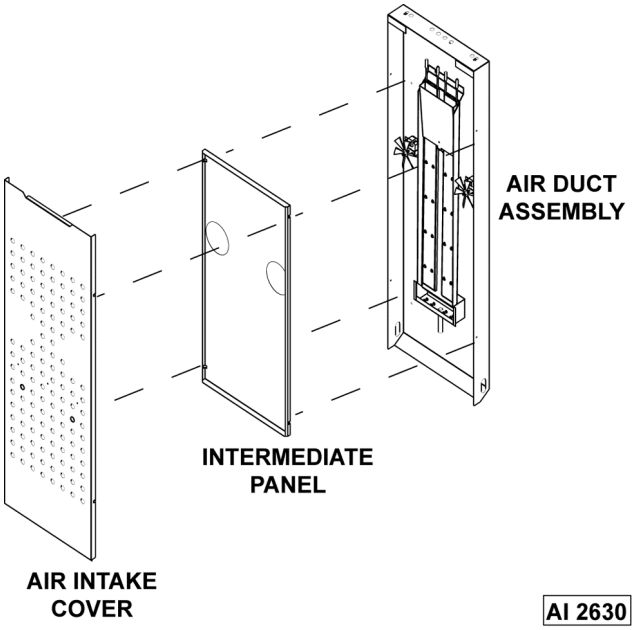


Fig. 40

4. Install air flow panel.
   A. Install air flow panel mounting screws loosely into ceiling panel.

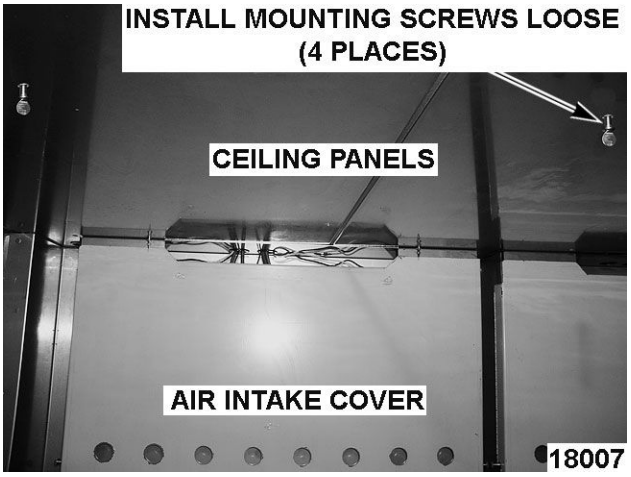


Fig. 41

   B. Mount the air flow panel onto mounting screws.

NOTE: 90° flat bend fits against air intake cover panel. Opposite end has angled bend to deflect air upwards.

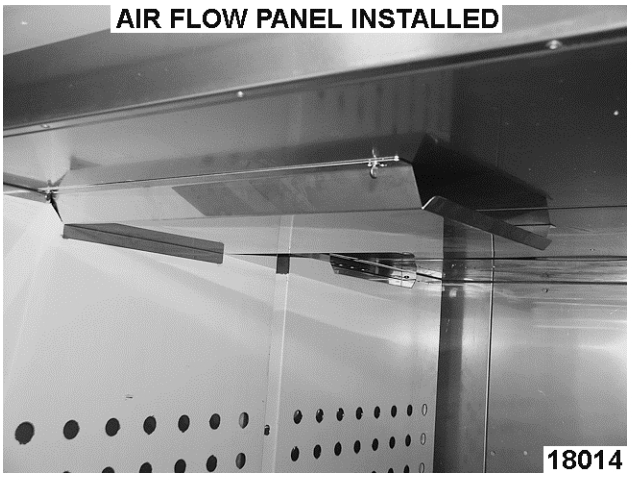


Fig. 42

   C. Repeat for each air duct assembly.

BUMPERS

1. Remove the necessary protective plastic.
2. Install left & right bumper(s) to walls.
3. Install rear bumper to wall.

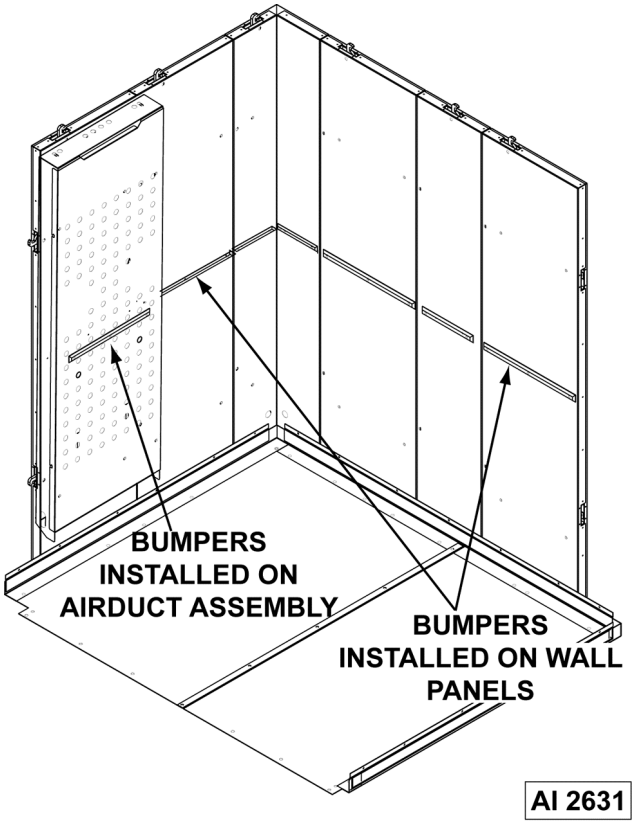


Fig. 43

4. Install bumpers onto bumper mounting bracket for right front corner.
   A. Install bumper mounting bracket to right front corner of cabinet.

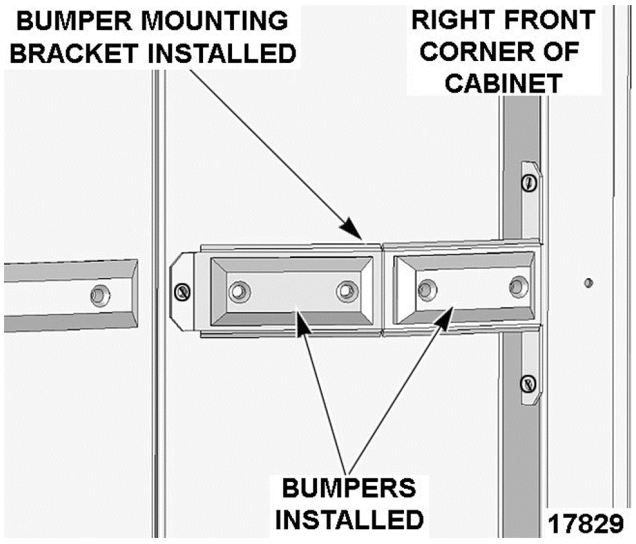


Fig. 44

DOOR HANDLE

1. Remove the necessary protective plastic.
2. Install door handle and door bumper.
   A. Install mounting screws through bumper.
   B. Attach bumper to inside of door.
   C. Using same screws, attach handle to front of door.

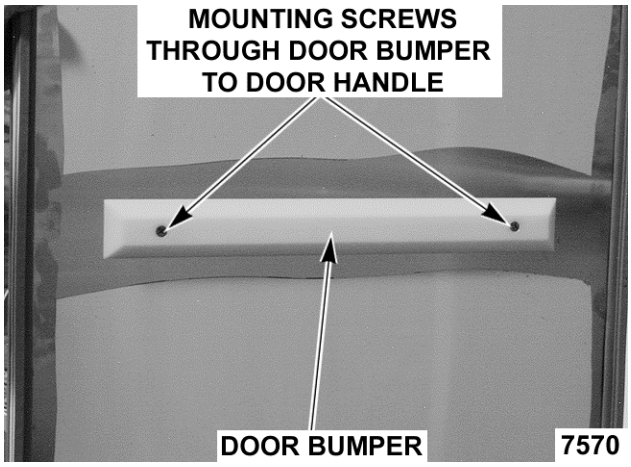


Fig. 45

DOOR HINGES

NOTICE

Failure to follow this updated procedure may cause irreparable damage to the front corner panel, making it unusable. Following this procedure will retain the backer plate, and not allow it to possibly separate inside the panel.

NOTE: On double door units, the door with the control opening will mount on the left side.

NOTE: Use Loctite Threadlocker Blue 242 on all hinge bolts, both in the cabinet, and in the door(s).

CABINET HINGE MOUNTING

First Time Hinge Install

1. Remove upper hinge bolt from each hinge location on a corner to which a loading door will be mounted.
2. Apply thread locker to each bolt, and loosely secure female half of each hinge to its respective hinge location.
3. Rotate hinges to remove lower hinge bolts, apply thread locker to bolts, and then reinstall through hinges.



Fig. 46

4. Fully tighten all four hinge bolts securing female hinge halves to cabinet.

NOTE: Ensure bushings are installed in female halves of hinges.



Fig. 47

5. Repeat process, if necessary, for opposite front corner, if the unit has two loading doors.

Changing Door Swing on Single Wide Cabinets

1. Loosen upper bolt in each female hinge half, but **do not fully remove them.**
2. Remove bottom bolt from each female hinge half, rotate hinge, and reinstall bolt into empty hinge bolt hole.
3. Remove upper bolts securing hinges to cabinet, and set hinges aside for later reinstallation.
4. Reinstall remaining bolts into empty hinge bolt holes in the corner.
5. Follow procedure in "First Time Hinge Install" above when reinstalling on opposite corner.

NOTE: Torque all hinge bolts to 90 in. lbs. or 7-1/2 ft. lbs.

Door Hinge Mounting

1. Remove upper hinge bolt from each hinge location on door body.
2. Apply thread locker to each bolt, and loosely secure male half of each hinge to its respective hinge location, with post positioned downward.
3. Rotate hinges to remove lower hinge bolts, apply thread locker to bolts, and then reinstall through hinges.
4. Fully tighten all four hinge bolts securing male hinge halves to door body.



Fig. 48

5. Remove unused hinging screws provided for alternate door swing from opposite side of door, and replace with plug button plugs provided in unit assembly hardware package.

NOTE: Do not stand up door on door seal at any time.

6. Install plug buttons into sockets in all hinge bolts in door(s) and cabinet.

NOTE: Before installing plug buttons, apply a dab of silicone on back side of plug buttons.

7. Install door onto cabinet.

DOOR MAGNET

1. Install magnet assembly to top of door.

NOTE: Repeat procedures at rear of cabinet for pass thru doors.

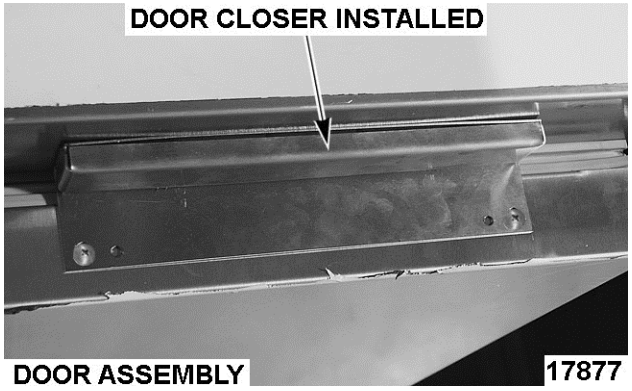


Fig. 49

DOOR SWEEP

1. Loosen screws (underneath door gasket) securing door sweep bracket to door and adjust door sweep to facility floor as necessary.

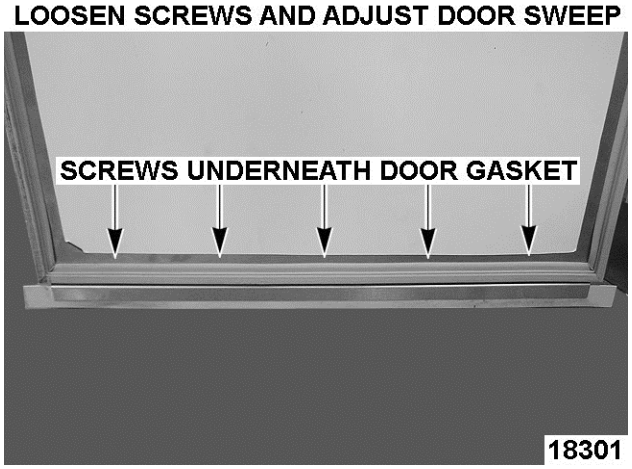


Fig. 50

2. Tighten door sweep bracket screws.

COMPONENT & JUNCTION BOX

1. Install the component box assembly to top of ceiling panel at front of cabinet.

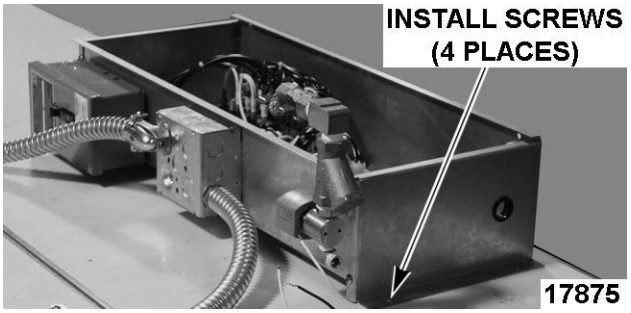


Fig. 51

NOTE: There will be a junction box for each air duct assembly.

2. Verify grommets installed into wire holes in ceiling panel.

3. Install junction box with self drilling screws.

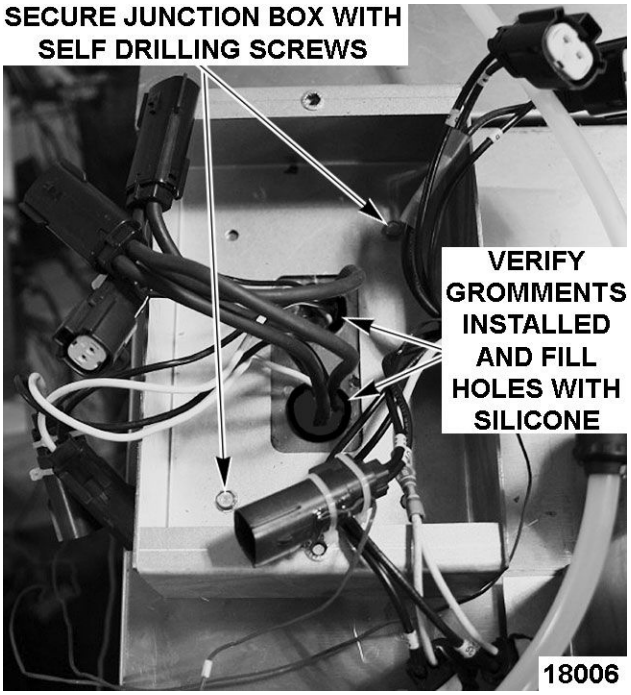


Fig. 52

4. Connect plugs from heater, fan, high limit and solenoid to plugs from component box.

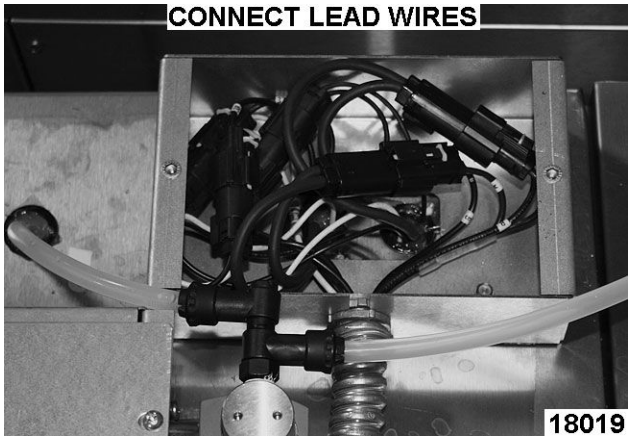


Fig. 53

A. Seal holes in ceiling panels with silicone.

B. Install cover on junction box.

C. Repeat for each air duct assembly.

WATER SUPPLY LINE CONNECTION

1. Connect water line(s) to solenoid(s).

NOTE: Cabinet may require connecting a second solenoid valve, connect to tee before the solenoid valve in the water supply assembly.

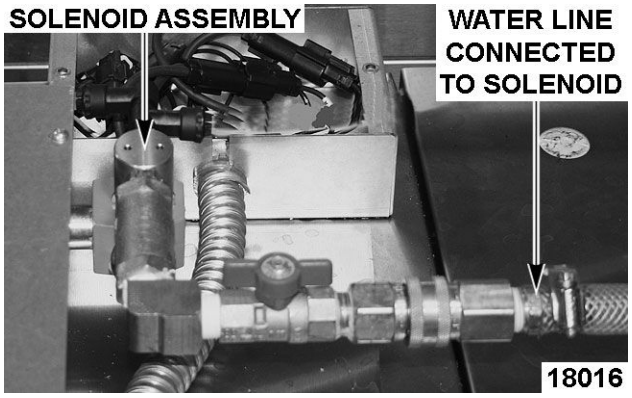


Fig. 54

2. Connect water line from air duct assembly to output of solenoid(s).

NOTE: On single cabinets, use one supply line and use an elbow to supply water to proofing system. On double and three deep cabinets, use one supply line and use tees to supply water to additional proofing systems. On three deep cabinets connect lead wires from second water solenoid to wire #31 and wire #32 neutral.



Fig. 55



Fig. 56

A. Seal water line hole in ceiling panel with silicone.

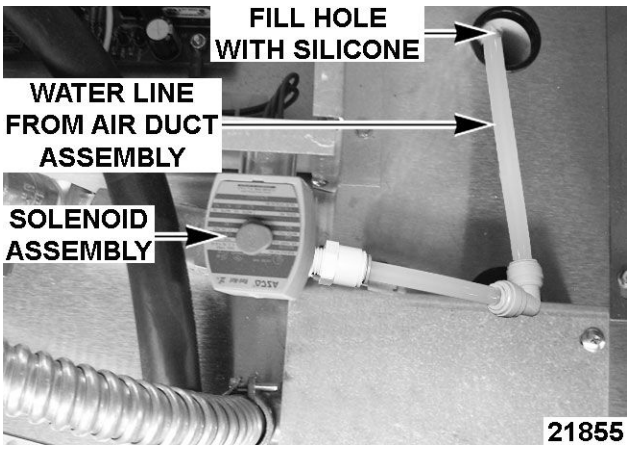


Fig. 57

TRIM PANELS

1. Install both forward side trim panels.

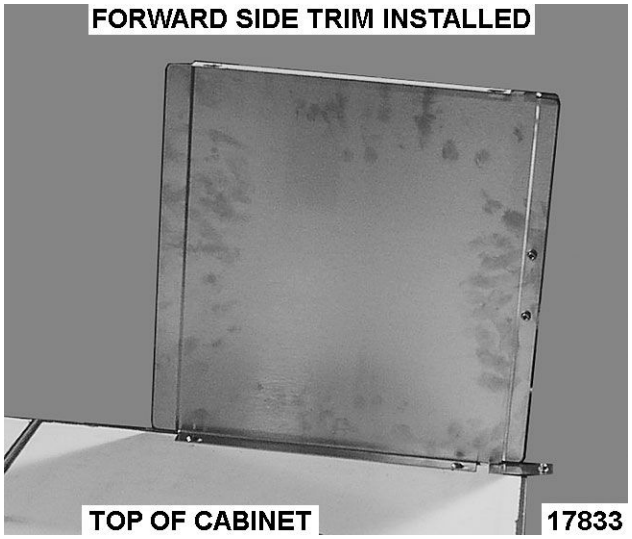


Fig. 58

2. Install lower front trim and secure with top screws to both side trims.

NOTE: Lower front trim installed during controller to component box connection procedure.

NOTE: Upper front trim installed during electrical supply connection procedure.

NOTE: Upper, lower and side trim panels can be assembled together before installing onto cabinet.

CONTROLLER TO COMPONENT BOX CONNECTION

1. Install wiring that connects controller to component box.

NOTE: The lead wires will be routed through the 90 degree conduit from factory. One wire is marked with red. Connect this wire to board connections marked with red.

NOTE: On Costco units, there will be a third wire in the conduit. Refer to separate instructions for installation.

2. Install conduit clamp loose on top of the door.
3. Insert longer side of the 90 degree conduit under conduit clamp on top of door.

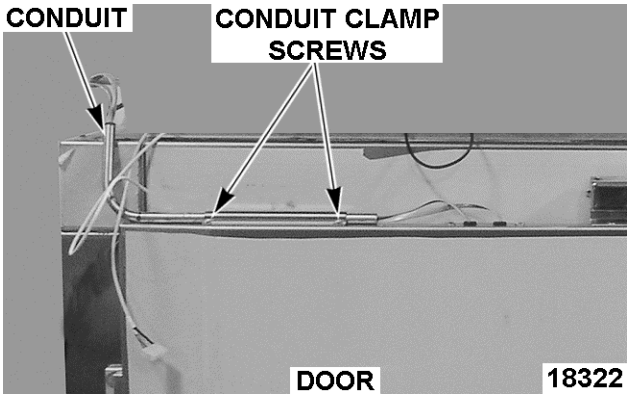


Fig. 59

4. Tighten conduit clamp screws on top of door.
5. Insert control cables through top of door into control compartment. Gently pull any slack excess control cable from the top of unit through and into the control compartment.

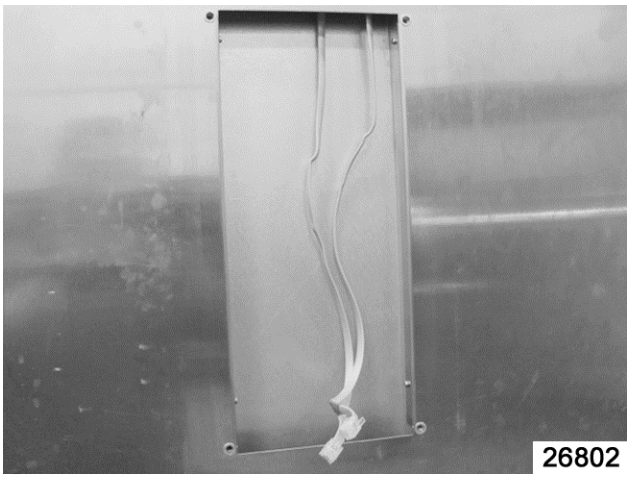


Fig. 60

6. Install strain relief bushings at top of door around each control cable. Seal with clear silicone to obtain water tight seal around control cables.

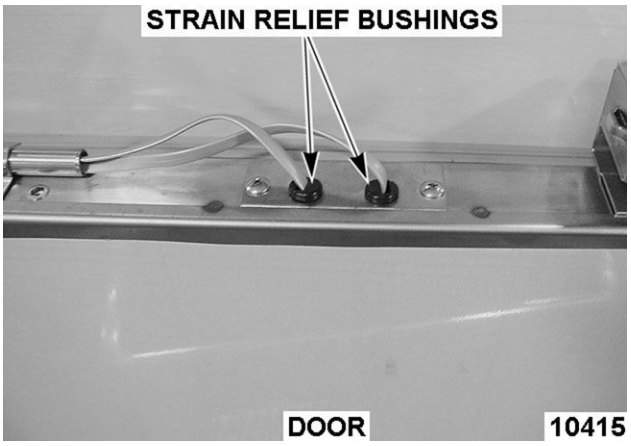


Fig. 61

7. Install grommet for front trim onto lead wires.

NOTICE

Use care not to damage the control harness during lower front trim installation.

8. Install grommet into lower front trim.
9. Route control harness through the lower front trim.

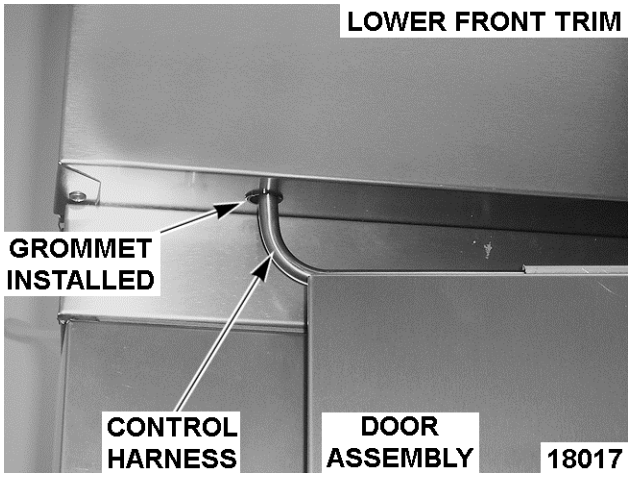


Fig. 62

10. Apply clear silicon caulking around the perimeter of the control opening in the control door.
11. Feed the control cables through the access holes in the mounting plate leaving sufficient cable in the control compartment such that the control cables loop below the access holes in the mounting plate.

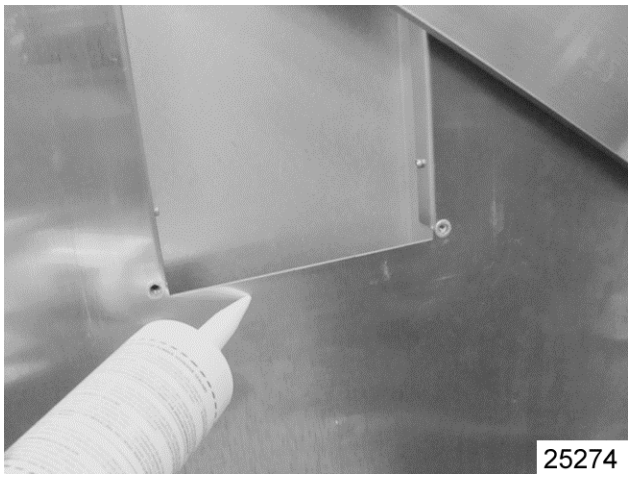


Fig. 63

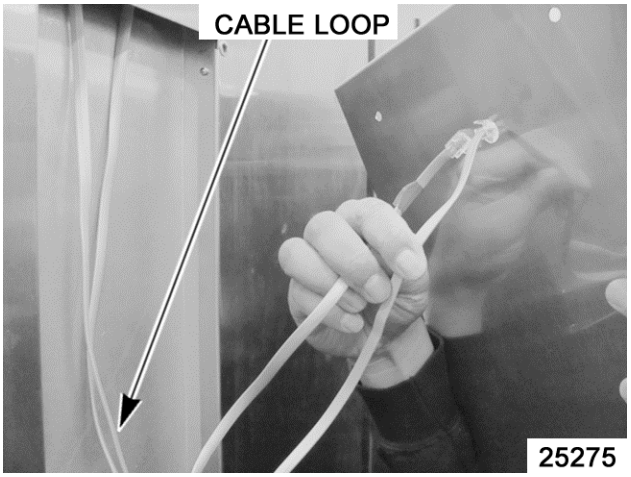


Fig. 64

12. Attach mounting plate to door face with #10-32, Stainless Truss head screws (4 places).

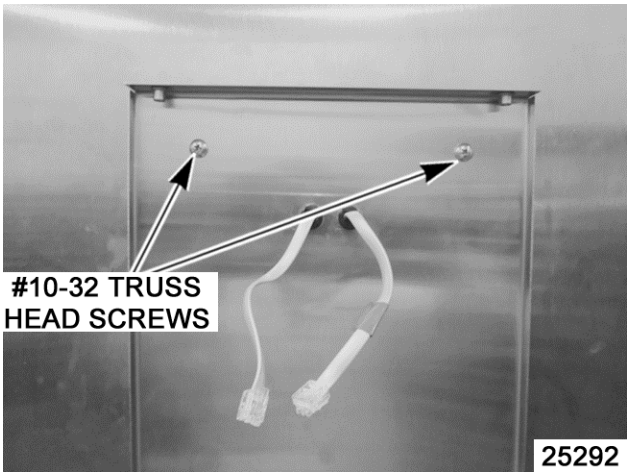


Fig. 65

13. Adjust cables so that 5 inches extend through the mounting plate. Install strain relief bushings around cables and press into holes in mounting plate. Seal bushings and cables with clear silicone caulk.

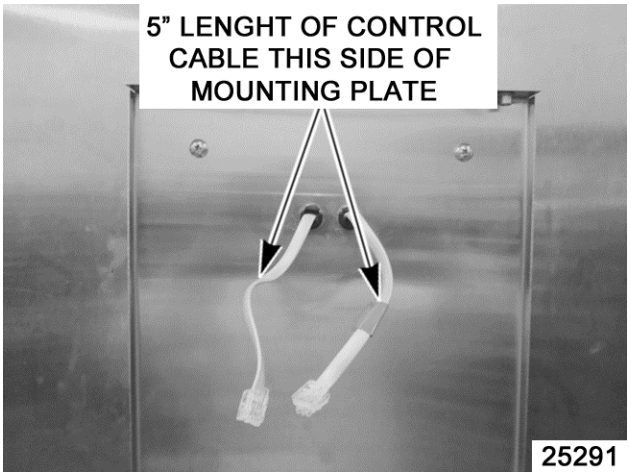


Fig. 66

14. Connect control cables to PC board/Cover assembly. Note: The cable with the red tape should be plugged into the PCB socket with the same color tape on it.

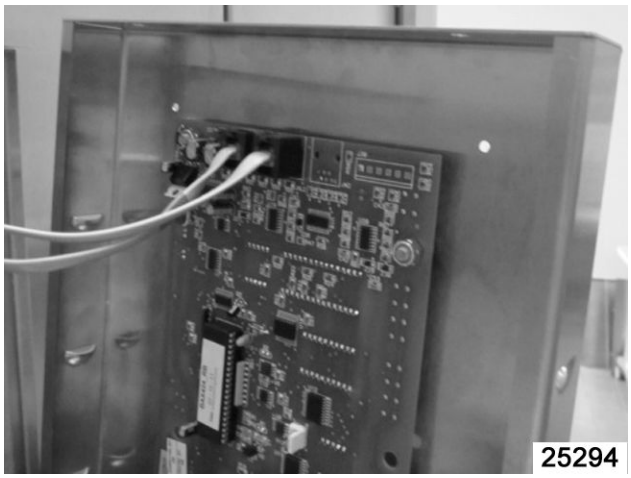


Fig. 67

15. Mount Standoff cover to mounting plate using #10-32 Stainless Truss head screws supplied (4 places).

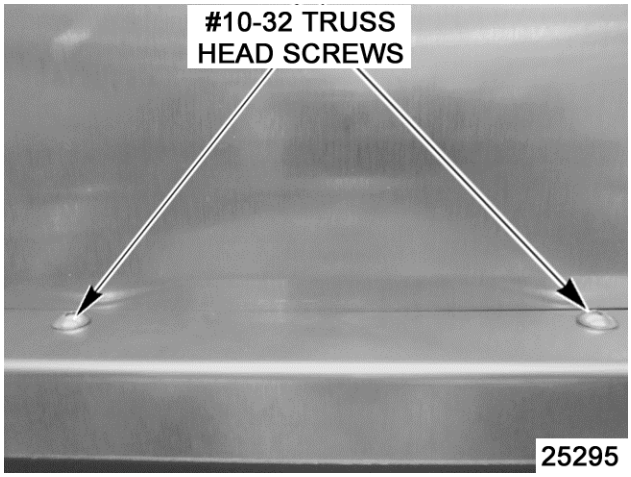


Fig. 68

NOTE: Louvers should be located at the sides and bottom of the cover.

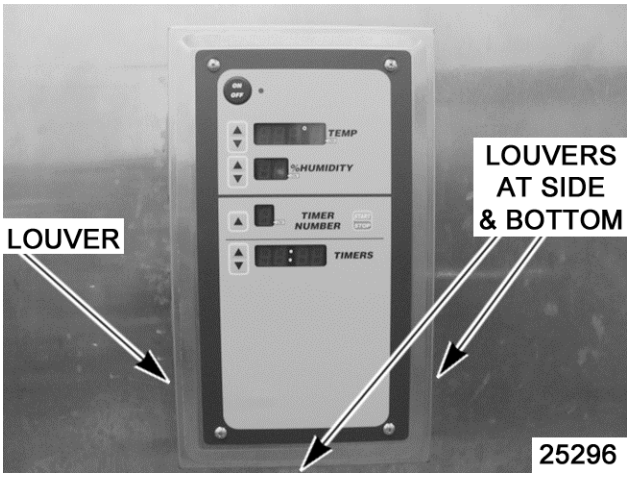


Fig. 69

16. Connect lead wires to power board in component box.

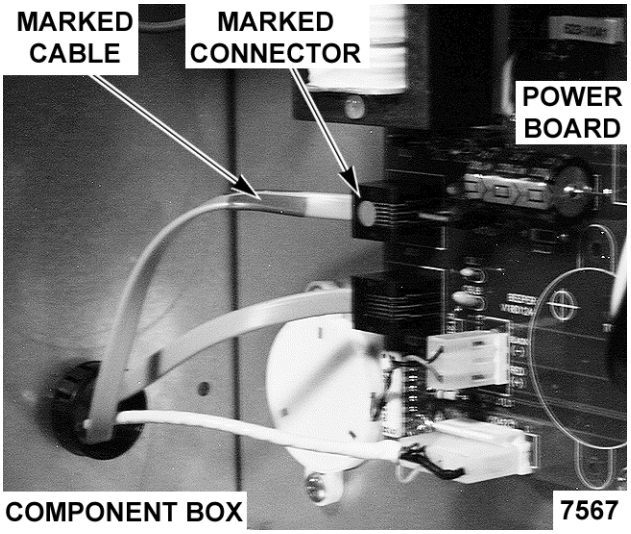


Fig. 70

ELECTRICAL SUPPLY CONNECTION



⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures. There may be multiple circuits. Be sure all circuits are disconnected.

1. Connect electrical supply per label on the component box cover or back side of lower front trim.

NOTICE

Energizing power supply without a neutral connection could result in damage to circuit board.

NOTE: Damage resulting from failure to confirm neutral connection prior to energizing the equipment will **not be covered under warranty**.

NOTE: If 208-240 volt electrical supply does not have a neutral, a step-down transformer can be installed (see following diagram). Step down transformer must be installed into a leak tight housing supplied by customer.

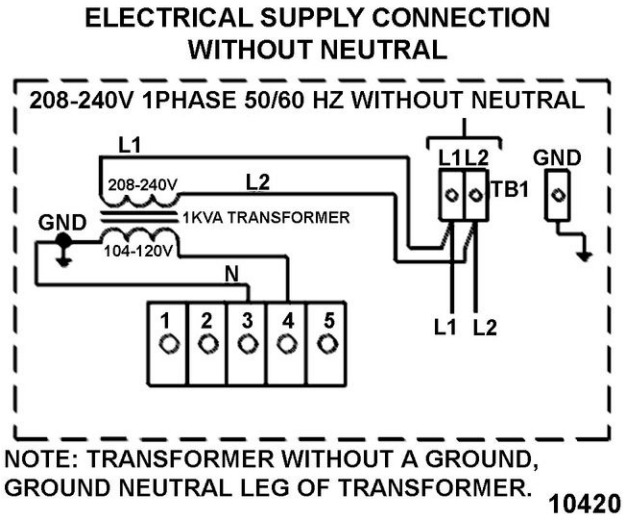


Fig. 71

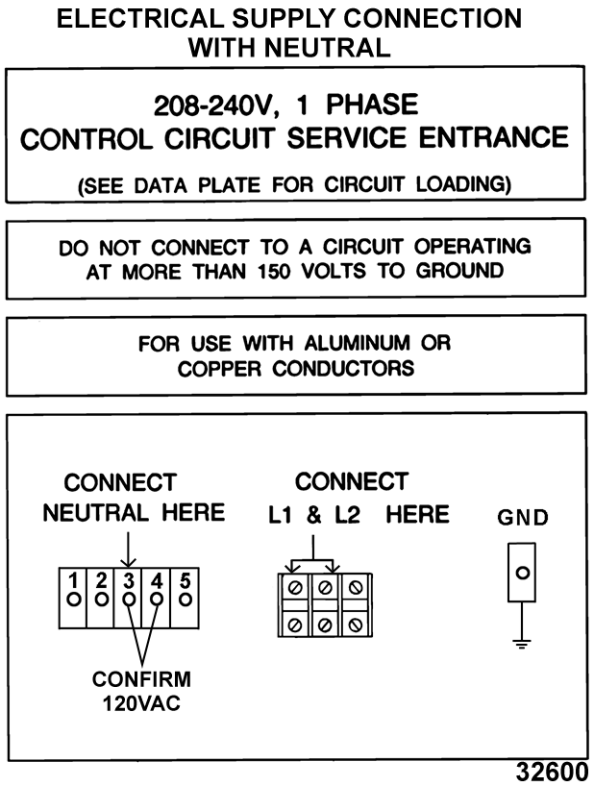


Fig. 72

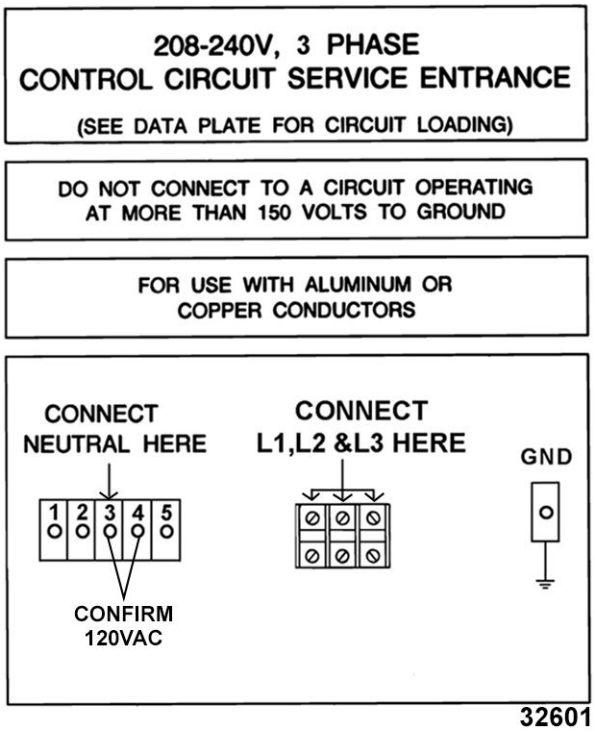


Fig. 73

2. Install component box cover.
3. Install upper front trim and secure with screws to both side trims.

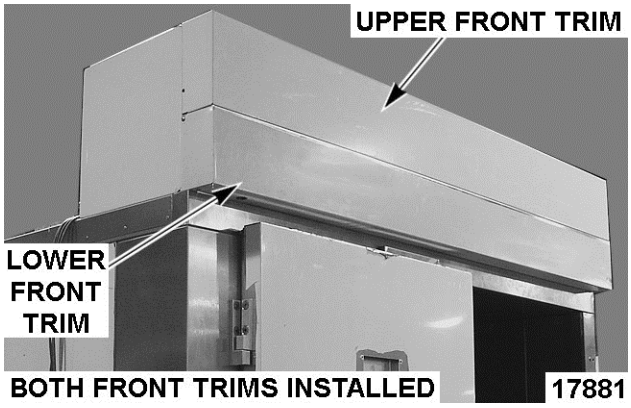


Fig. 74

FINAL CHECKS

1. Remove all remaining protective plastic.
2. Install plug buttons in unused holes i.e. wall and ceiling panels.
3. Ensure all holes with wiring / tubing through wall and ceiling panels are filled with silicone.
4. Test for proper operation.

NOTE: The fans of each proofing system will run continuously for 20 minutes after power has been shut off at the controller.

5. Complete Installation Checklist and return copy to Bakery System Service Support.