

SERVICE INFORMATION

M124.0

MODELS AFFECTED: All BevMax 4 Models
MODEL NUMBERS: DN5800-4, DN3800-4

Date: 1/18/12

RE: BevMax 4 New Refrigeration Unit with Plastic Evaporator Box Installation



Reason: To provide instructions on removal of existing Refrigeration System and Installation of new Refrigeration System with Plastic Evaporator Box.

Order: BevMax 4 Refrigeration Kit w/ Plastic Evaporator Box Domestic or Export, see list of parts included:

Description	65701270 Domestic BevMax 4 Refrigeration Kit	65701290 Export BevMax 4 Refrigeration Kit	QTY
BevMax 4 Refrigeration Deck Assy.	CR0002267	CR0006244	1
Evaporator Plastic Grill	CR0007259	CR0007259	1
Slanted Wide Panel w/ Gasket	CR0007060	CR0007060	1
Slanted Narrow Panel w/ Gasket	CR0007064	CR0007064	1
Foam Tape .39 X 2	D574	D574	4
PVC Tape .187 X 1	CR0012991	CR0012991	22.25
Foam Tape .5" T X 1" W X 66	CR0004801	CR0004801	1
Refrigeration Unit Carton	80541225	80541225	1
Package Liner Refrigeration Unit	80541226	80541226	1
Wire tie, 7.5"	90190201	90190201	1
Permagum	80360113	80360113	.12 lb
Installation Instructions	M124.x	M124.x	1

Tools Required:

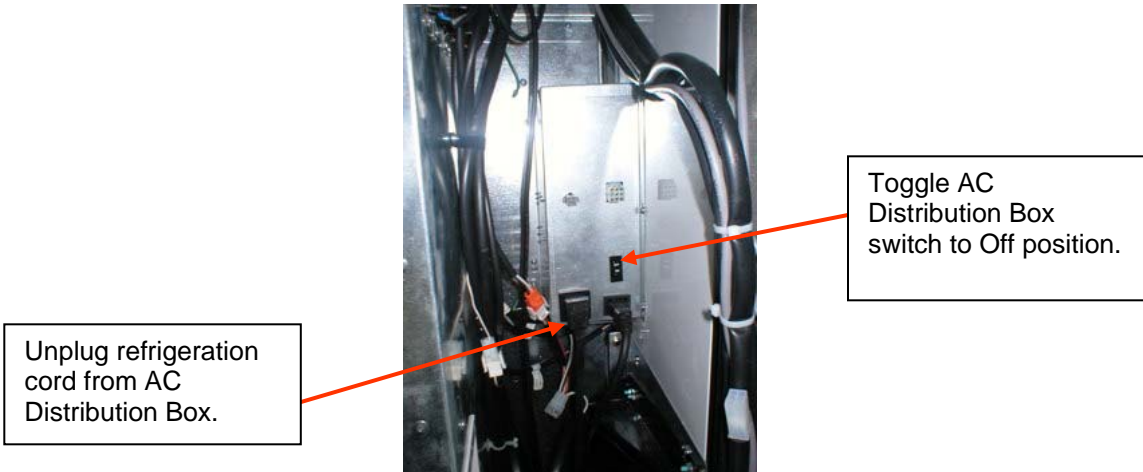
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|-----------------|-----------------------|---------------|--------------|
| Drill | 7/32" drill bit | 1/4" socket | 7/16" socket |
| 1/8" drill bit | Phillips screw driver | 3/8" socket | |
| 5/32" drill bit | Wire tie cutter | Socket driver | |

CAUTION: Weight of Refrigeration System is approximately 71 pounds.

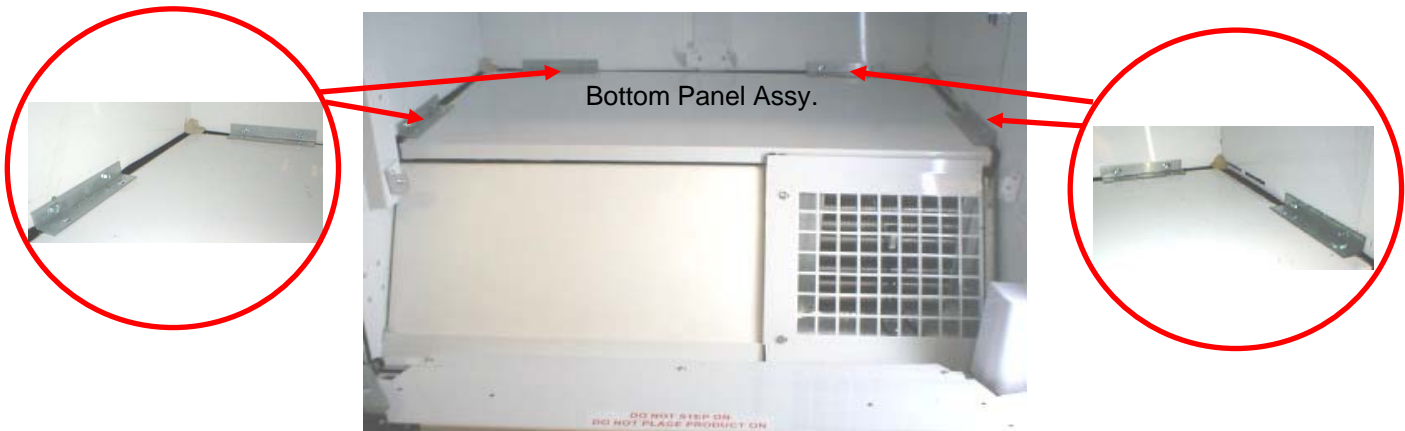
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Removal Instructions – failed Refrigeration System:

1. Unplug the main power cord to the AC Distribution Box. Also unplug the refrigeration unit cord from the AC Distribution Box and toggle the AC Distribution Box on/off switch to the off position.

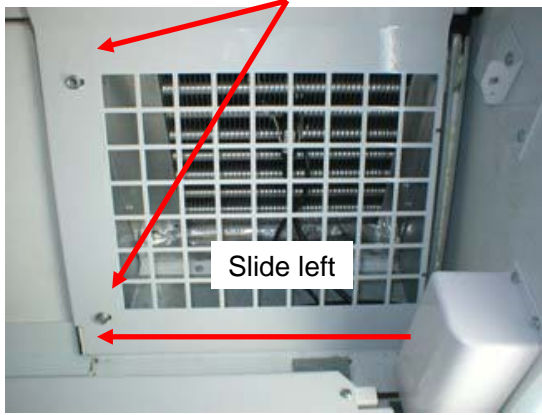


2. Pull the vender from the wall so you may access the back of the vender.
3. Remove product from the bottom 2 (D & E) trays of the Vender.
4. Tray D & E removal preparation.
 - a. Remove the 2 screws securing the Trays to the Tray Supports.
5. Remove Tray D carefully from the vender.
6. Manually raise the Delivery Cup up to tray C. Remove Tray E carefully from the vender.
7. Note: Save all Permagem during removal. It will be used during install of new Unit.
8. Remove the Bottom Panel Assembly by removing the eight 5/16" screws.



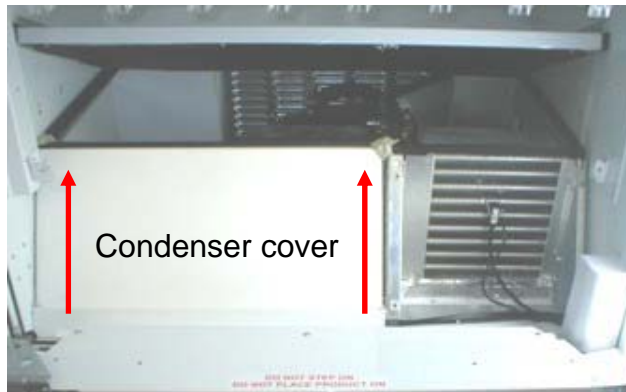
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9. Remove the Evaporator Inlet Grill by removing the 2 screws on the left side of the Grill, then slide the Grill to the left and out. Be careful not to damage the Temperature Sensor Wire and Defrost Control Bulb.



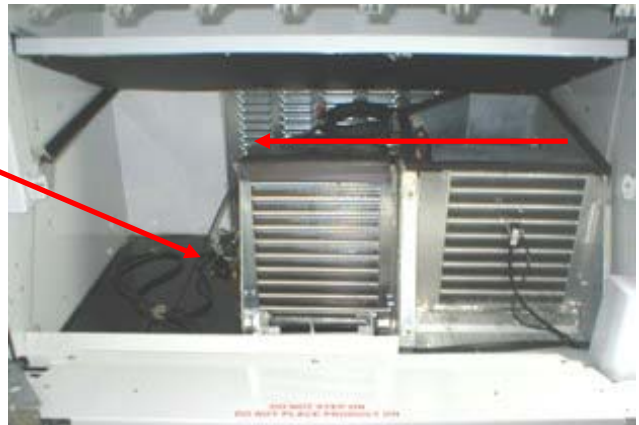
10. Remove and discard the existing Condenser Cover (Slanted Panel Assy.) by carefully sliding it up and out of vender.

Remove condenser cover by sliding up.



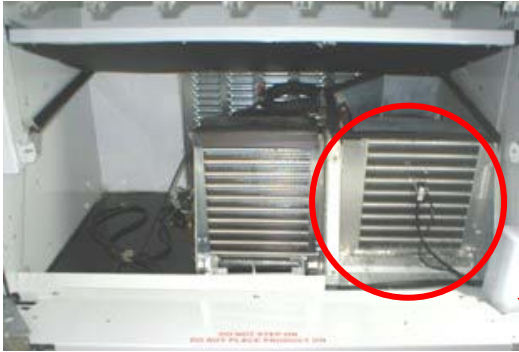
11. Turn the 7/16" bolt in the Refrigeration Deck Clamp counterclockwise until it fully disengages the Refrigeration System from the Cabinet Wall.

Refrigeration tie down bolt.



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12. Carefully remove the Temperature Sensor and Defrost Control Bulb from the Evaporator and lay them out of the way so they will not get damaged when the Refrigeration system is removed.

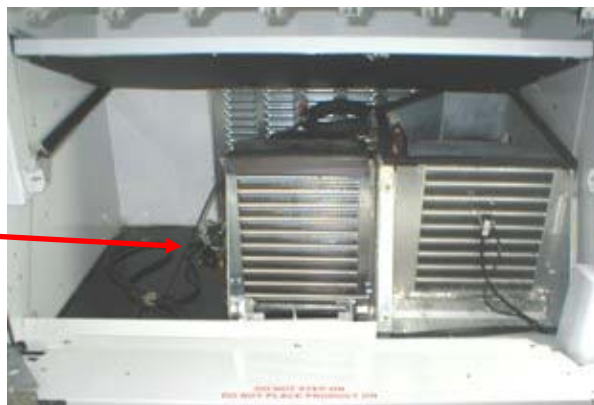
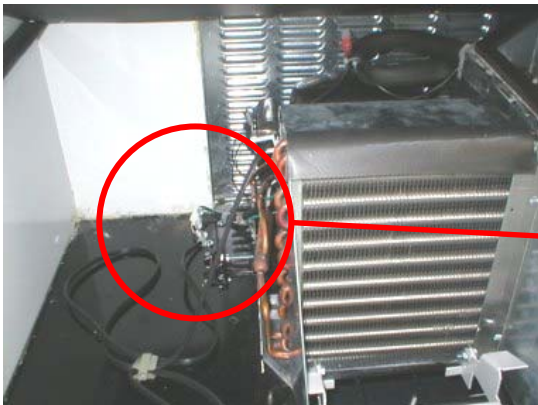


Note: The X motor does not have to be removed

13. Cut the wire tie and unplug the evaporator power leads.



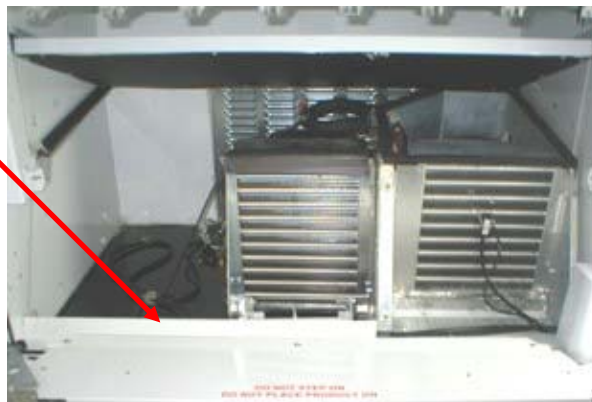
14. Remove the 2 clamps securing the Compressor Power lead to the base plate.



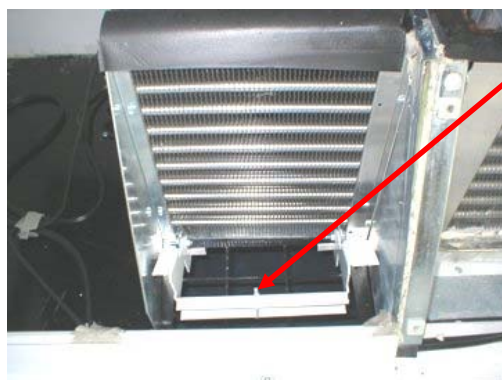
15. Unplug the 3 pin compressor connectors.

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16. Remove the wire chase secured with 2 phillips head screws.



17. Cut the wire tie from the Refrigeration Unit handle used to remove the system from the vender.



18. Carefully remove the Refrigeration Unit from the vender.
Caution: The Refrigeration Unit weighs approximately 71 pounds.

19. Take the existing Bottom Panel Assembly removed in Step 9 and carefully remove all gasket from the sides and back edges. Note: you will need to use some type of adhesive remover to remove the old tape. This step is critical before installing the new gasket to ensure the panel seals to cabinet to prevent Condensation issues.

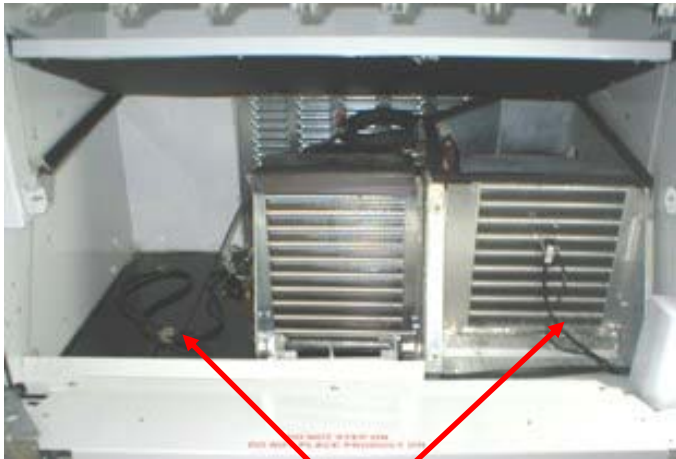
20. Carefully inspect all gaskets on the new Refrigeration System. Replace any that are damaged to prevent Condensation issues.

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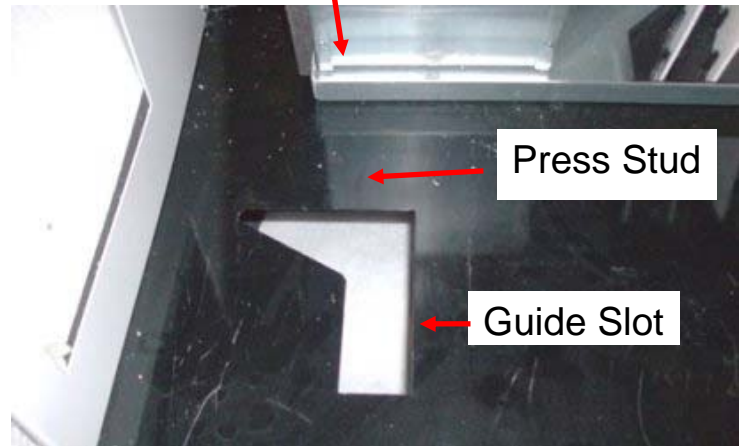
Installation Instructions for Single Condenser Refrigeration Unit:

21. Place new Refrigeration Unit on base of Vender. Caution: New Refrigeration Unit weighs approximately 71 pounds. Slide system in. Ensure press pin on bottom of system will line up with the guide slot in base plate.

System in place



Note: The press stud is on the bottom of the system

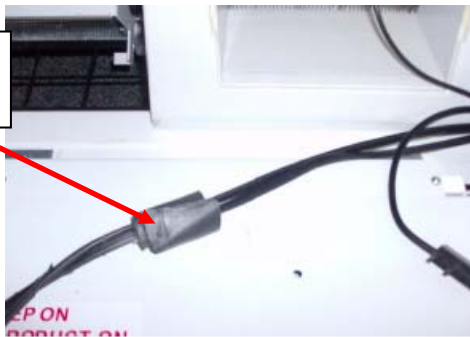


Make sure all wires are out of the way before sliding system in.

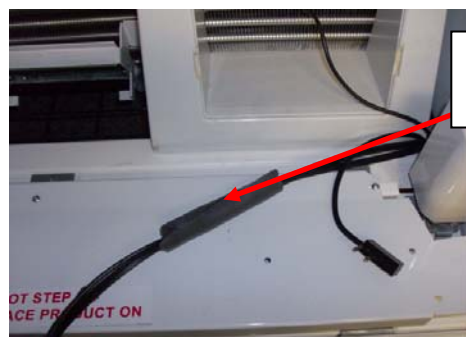
View from Back

22. Locate existing foam tape on refrigeration wiring and remove it. Install new foam tape provided in kit as shown.

Remove old foam tape.



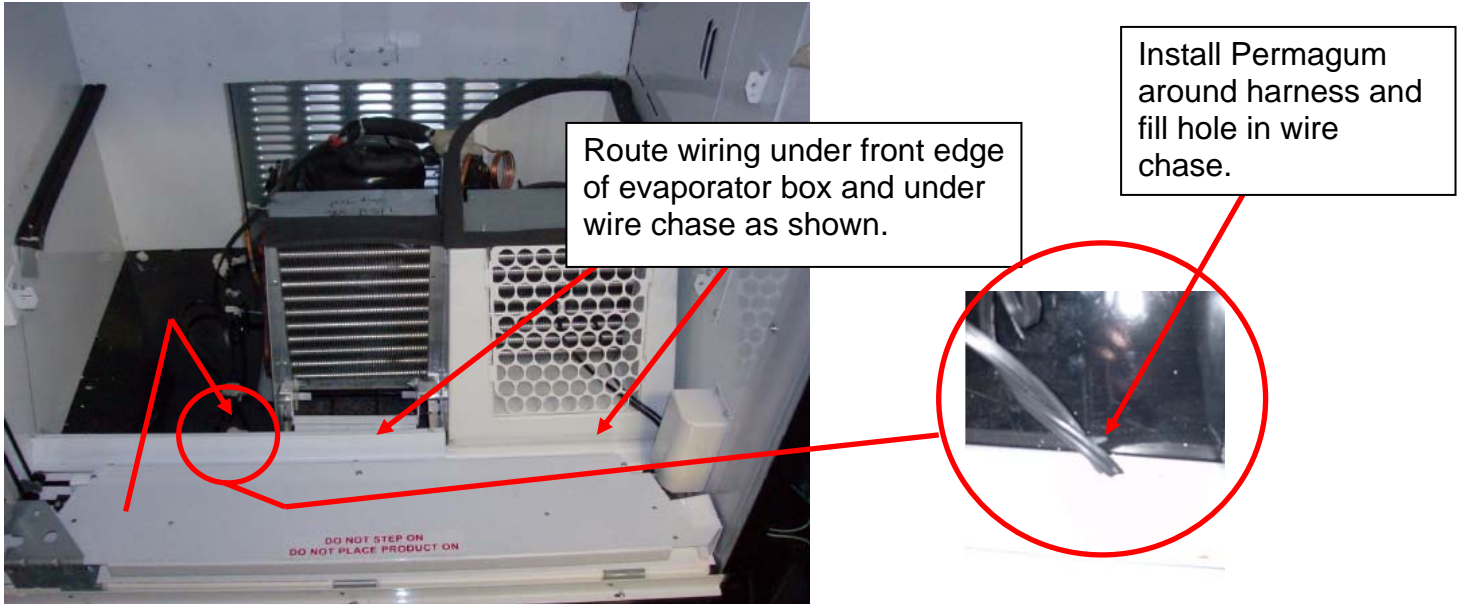
Install new foam tape.



23. The Guide Slot assists the system in pushing left and forward as secured to obtain seal needed

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24. Route Refrigeration Wiring in Wire Chase removed in step 17 and under the front edge of plastic evaporator box. Secure Wire Chase with hardware from step 17.

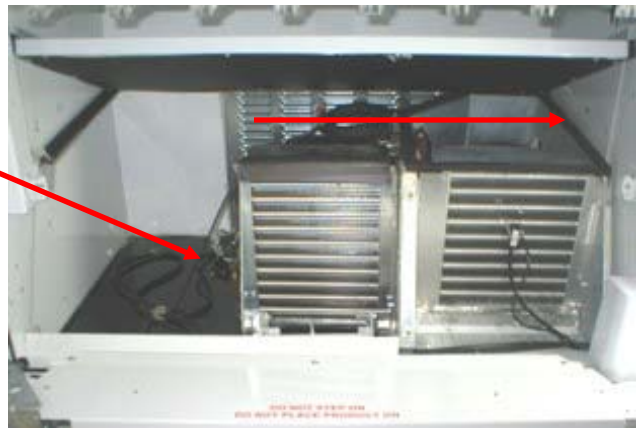


25. Permagem back side of wire chase where wire comes out. See pictures above.

26. Permagem both ends of Wire Chase before locking Refrigeration System in place and before installing Condenser Cover Grill.

27. Turn the 7/16" bolt in the Refrigeration Deck Clamp clockwise until it fully engages the Refrigeration System tight to the Cabinet Wall on the right.

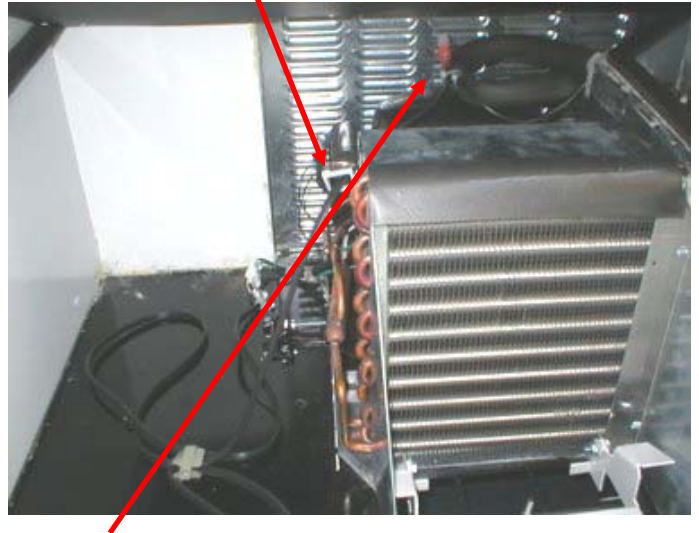
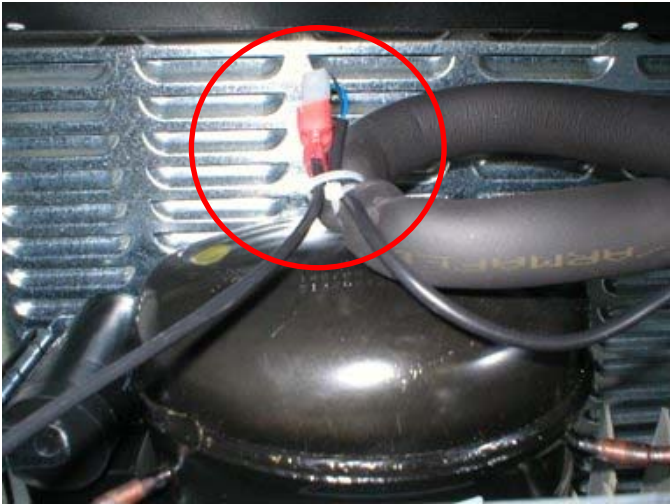
Refrigeration tie down bolt.



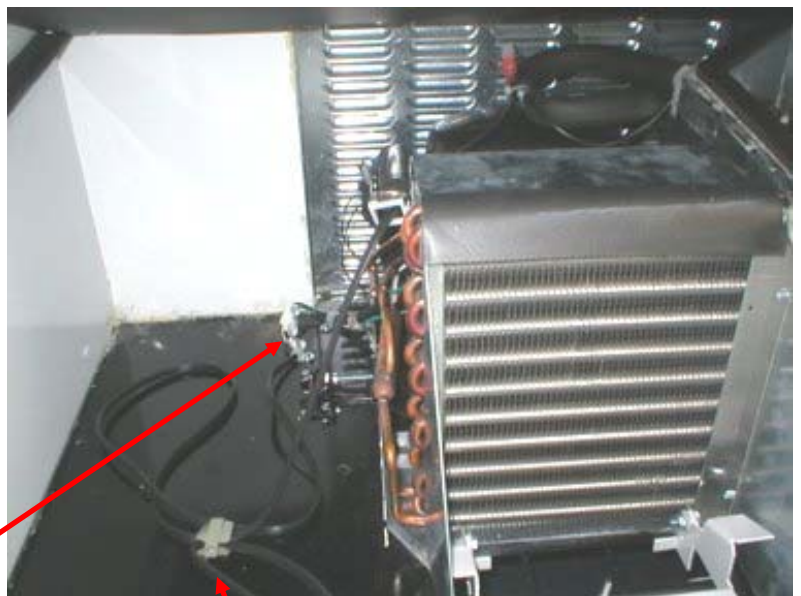
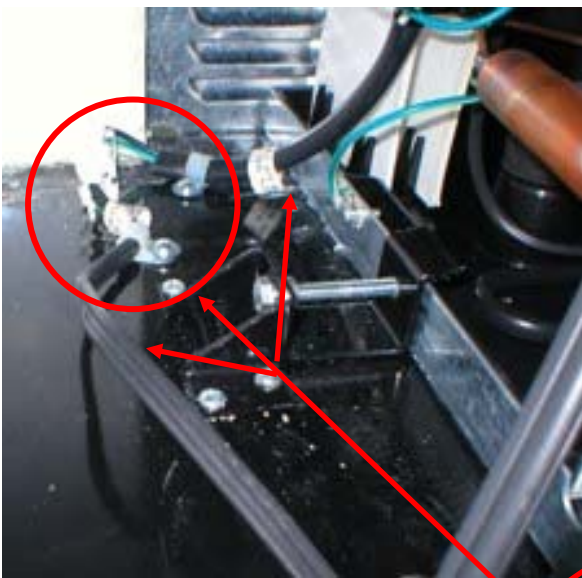
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28. Connect the Evaporator Power Connector and wire tie as shown. This keeps the wires away from the Condenser Fan Blade.

Evaporator wire goes in Clip



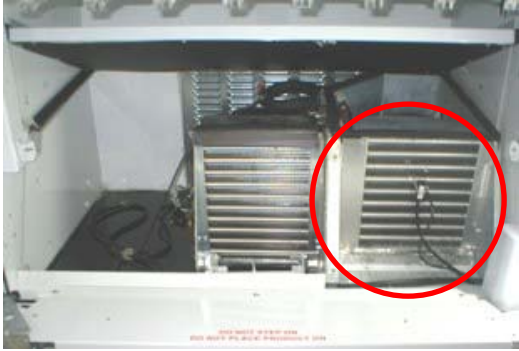
29. Plug the Compressor Power Connector and secure to cabinet base and refrigeration unit base plate with 2 small clamps removed in step 15.



Secure wires

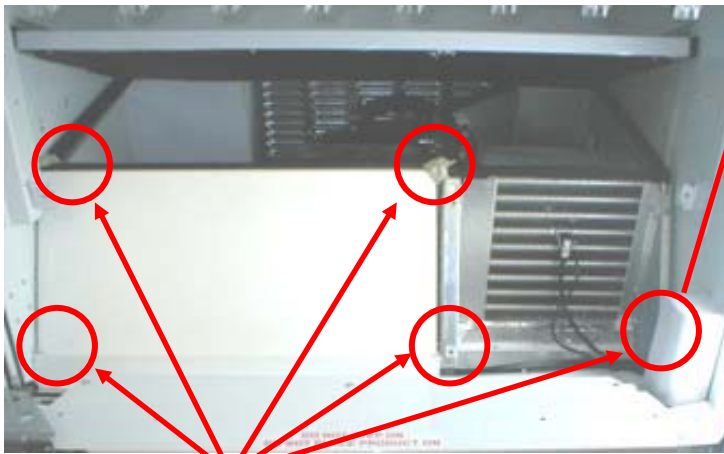
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30. Carefully install the Temperature Sensor and Defrost Control Bulb removed in step 13 in the Evaporator.



31. Before installing Condenser and Refrigeration Covers, install Permagum in 5 areas shown with circles.

Permagum hole on both sides in service area where wires pass through.



Install Permagum in the following locations

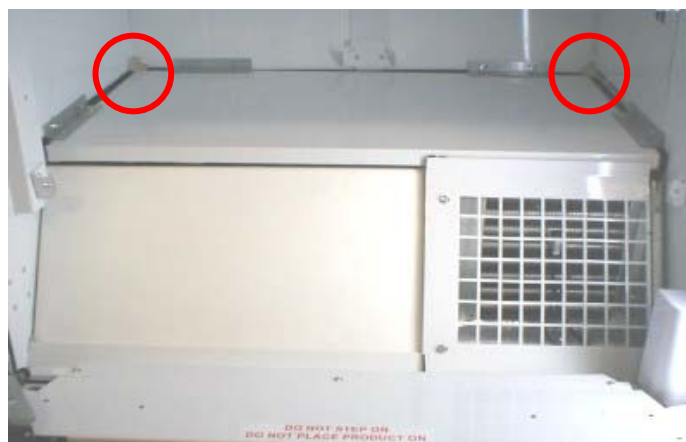
PERMAGUM IS CRITICAL TO THE SEAL OF THE SYSTEM

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32. Install Condenser Cover (Slanted Panel Assy.). New Condenser Slanted Panel Assy. will only work with Plastic Evaporator Box. Note: If you add some silicone or Vaseline to the right & left side gaskets it will help the panel slide in position easier.



33. Install Bottom Panel Assembly and secure with the eight 5/16" screws removed in step 9.

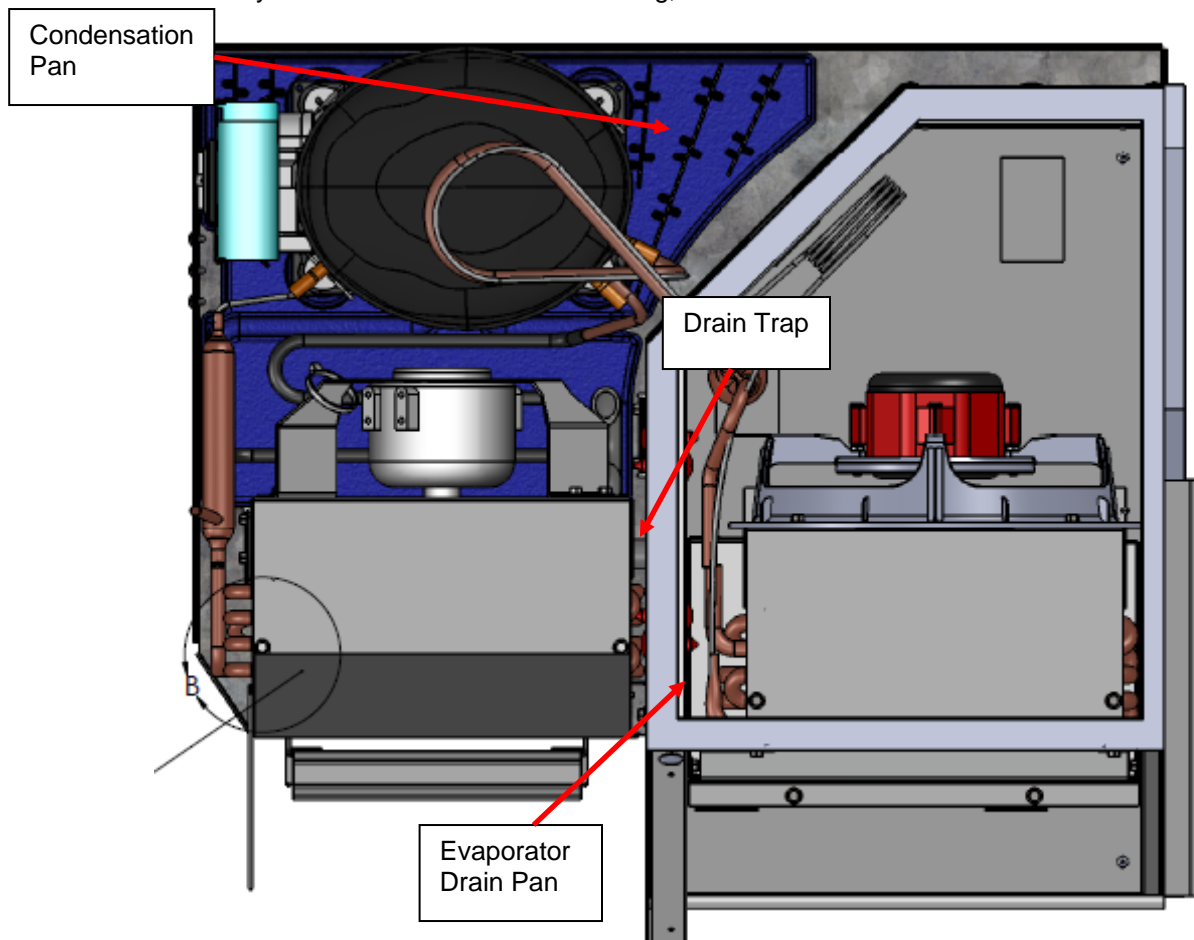


34. Permagum back corners of Bottom Panel Assy. See picture above.
35. Install Tray D and secure with 2 screws removed in step 5.
36. Install Tray 4 and secure with 2 screws removed in step 5.
37. Plug Refrigeration Unit to AC Distribution Box.
38. Plug in main power cord to the AC Distribution Box and test Vender for proper operation.

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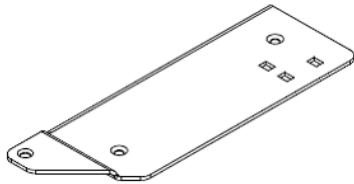
Things to check:

1. Is vender placed in a recommended environment for its use?
 - a. Indoor location, climate controlled?
 - b. Confirm vender is not placed in direct sunlight or near a heat source.
 - c. Confirm vender is level.
 - d. Vender is manufactured to function at 90° F, 65% RH. Conditions outside these parameters will produce condensation that the vender may not be able to evaporate at a rate faster than it is produced.
2. Was the vender handled as recommended?
 - a. Moving the DN5800/DN3800 – due to the large size and weight of the Vender, never attempt to move the Vender with a Hand Truck or Stair Climber. Use a pallet jack or Vender/Cooler Dollies at all times when moving the Vender.
 - b. Casters on DN58/DN3800 - due to the large size and weight of the Vender, DO NOT USE casters.
 - c. Stacking the DN5800/DN3800 - due to the large size and weight of the Vender, DO NOT stack.
 - d. Due to weight, DN5800/DN3800 machine should never be moved loaded with product.
3. Identify where the vender is leaking and/or where condensation build up is accumulating if possible.
 - a. Is the condensation pan overflowing?
 - b. Is the evaporator drain pan overflowing?
 - i. Check drain trap from evaporator drain pan to condensation pan is not clogged.
 - c. Identify where the condensation is forming, look for air leaks in this area.

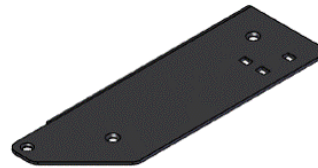


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4. Check that Evaporator Fan is working in standard operating mode after 2 minute time out.
 - a. If not confirm 804,927,700.91 software is being used.
 - b. Confirm Evaporator Fan is good. Fan relay test in programming.
5. Condensation on glass door. **IMPORTANT** – Glass Door weighs approximately 57 lbs.
 - a. Check glass door gasket is sealing to cabinet using paper drag test.
 - b. Check glass door gasket is not damaged (cut, torn, rolled, etc).
 - c. Check XY components do not cause issues with gasket as door is opened & closed.
 - i. If issue with top hinge side of gasket hitting install new flat top hinge CR0014018 in place of original hinge 65700036. Install and secure glass door. Check Glass Door Gasket Seal with paper drag test.



65700036 (Original Hinge)

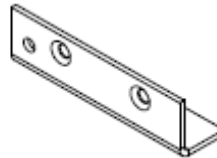


CR0014018 (New Hinge)

- ii. In venders serialized 913900068DH & higher if issue with bottom hinge side of gasket hitting install service bottom glass door hinge 65700035. You will need to drill the existing bottom hinge pin hole in the cabinet base larger to allow adjustment when you install the service hinge over top the existing hole. A Unibit Step Drill is recommended when drilling the existing hole larger. Place the hinge 65700035 so it overlays the existing hole in the cabinet base. If it aligns exactly with the existing hole you will need to place a thin spacer between the hinge and the front of the base plate. **The spacers approximate thickness is 1/16". Use no more than 2 spacers or 1/8" as long as the glass door frame is parallel to breaker strip and when you perform a paper drag test to confirm seal before drilling holes.** Mark and center punch the 2 hinge mounting holes. Drill these holes using a 7/32" (.219") drill bit. Then drill the existing hinge pin hole in the cabinet base larger using the Unibit Step Drill. You need enough clearance so the hole in the cabinet base will not touch the glass door hinge pin, the glass door hinge pin will be located by the hole in the hinge that you are installing. Secure the 65700035 hinge using two ¼ - 20 X 1 ¼" Self Tapping Type F Screws part #80030535. Check hinge pin holes of hinge and cabinet base for proper clearance as noted earlier. Install and secure glass door. Check Glass Door Gasket Seal with paper drag test.



Sample Unibit Step Drill



65700035
Bottom Glass Door Hinge

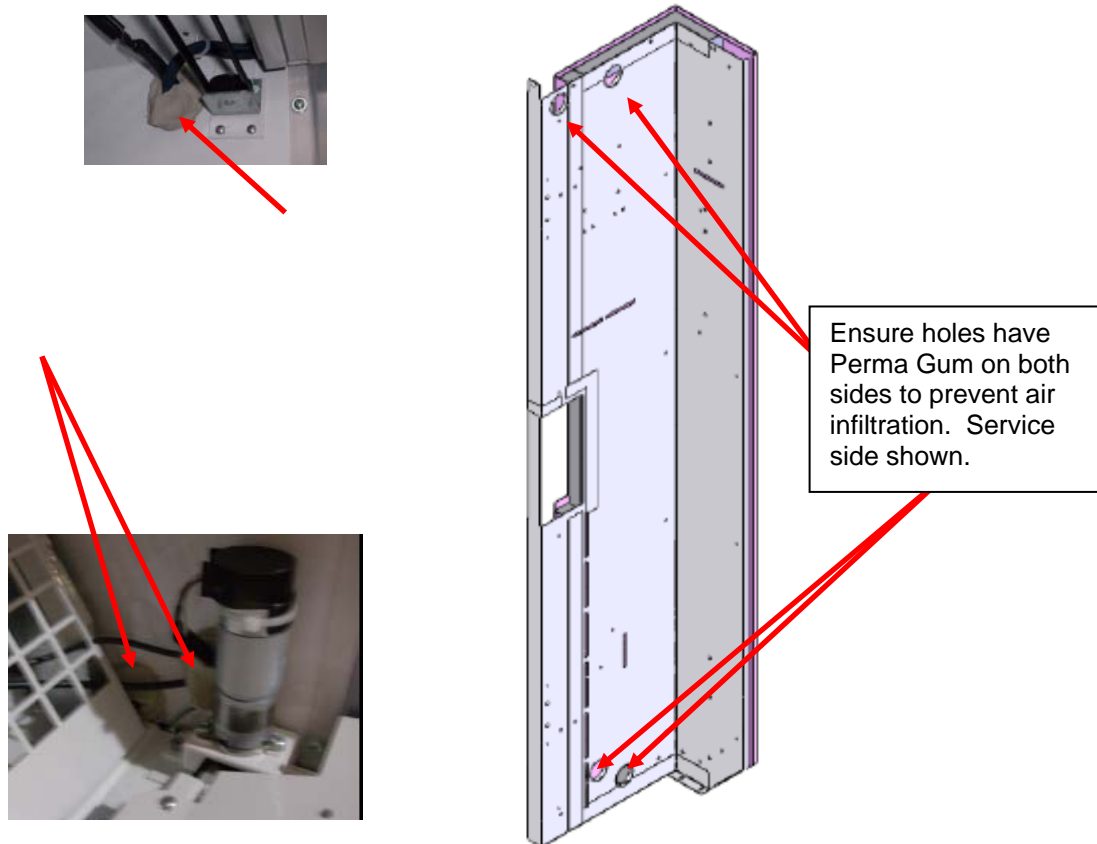
6. Check the left side and top Security Angle seals to cabinet. The Security Angles have a bead of sealant applied to the back before riveted in position to the Cabinet to eliminate air infiltration. If you can see light between the Security Angle and Cabinet the seal has been broken. Look for loose rivets. You can run a bead of sealant to fill the gap between the Security Angle and Cabinet to correct. Sealant from CMS is sold by the tube. Clear 90360049, black 90360048, or white 90360019.

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7. Seal all four sides of both the Refrigerated & Service sides of the Discharge Frame with white sealant to prevent air infiltration around the Discharge Frame Assembly. Sealant from CMS is sold by the tube. Clear 90360049 or white 90360019.

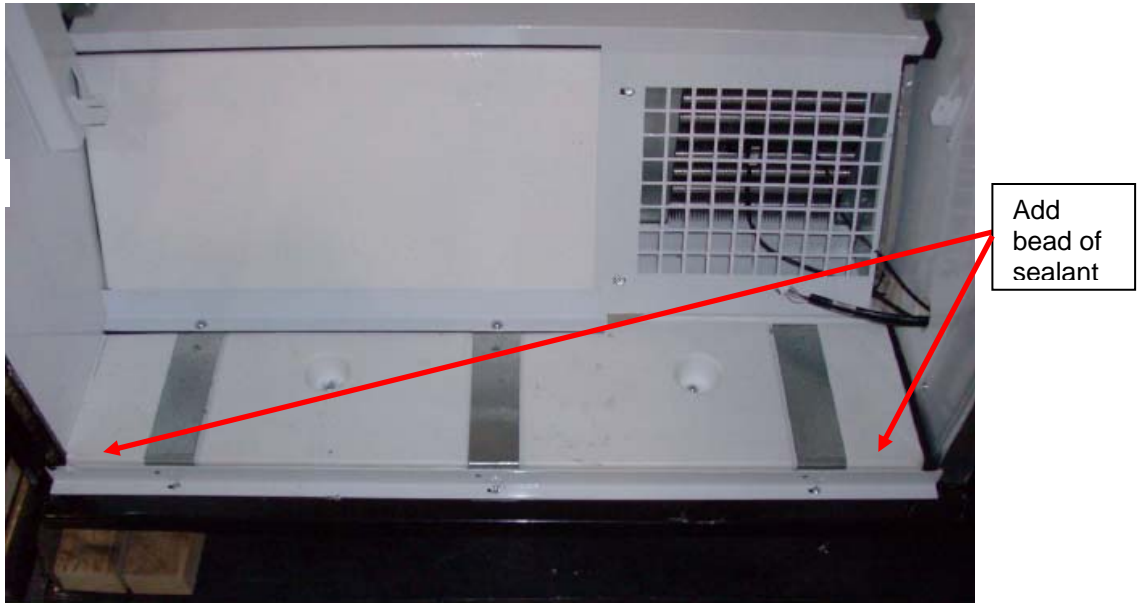


8. Ensure all access holes from Service Area to Refrigerated Area have Perma Gum filling the holes on both sides to prevent air infiltration.

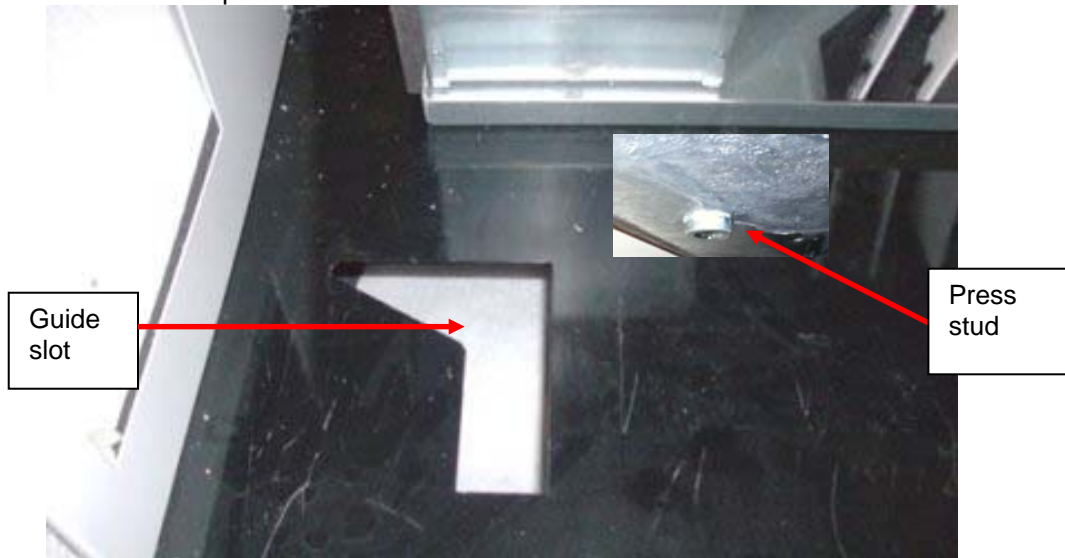


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9. Remove the Bottom Ramp Assembly. On the Bottom Panel Assembly run a bead of sealant to fill the gap between the Base Panel Foam Assembly and the Base Panel Front Mounting Bracket from the left side all the way to the right side. Sealant from CMS is sold by the tube. Clear 90360049 or white 90360019.

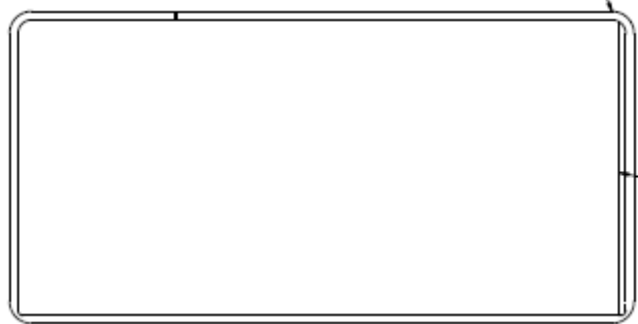


10. Check that the press stud on the bottom of the Refrigeration Systems Base Plate is in the guide slot in the Cabinet Base. If it is not in the slot, it may cause the Refrigeration Unit to tip forward and not allow the condensation to drain in to the Condensate Pan to evaporate.

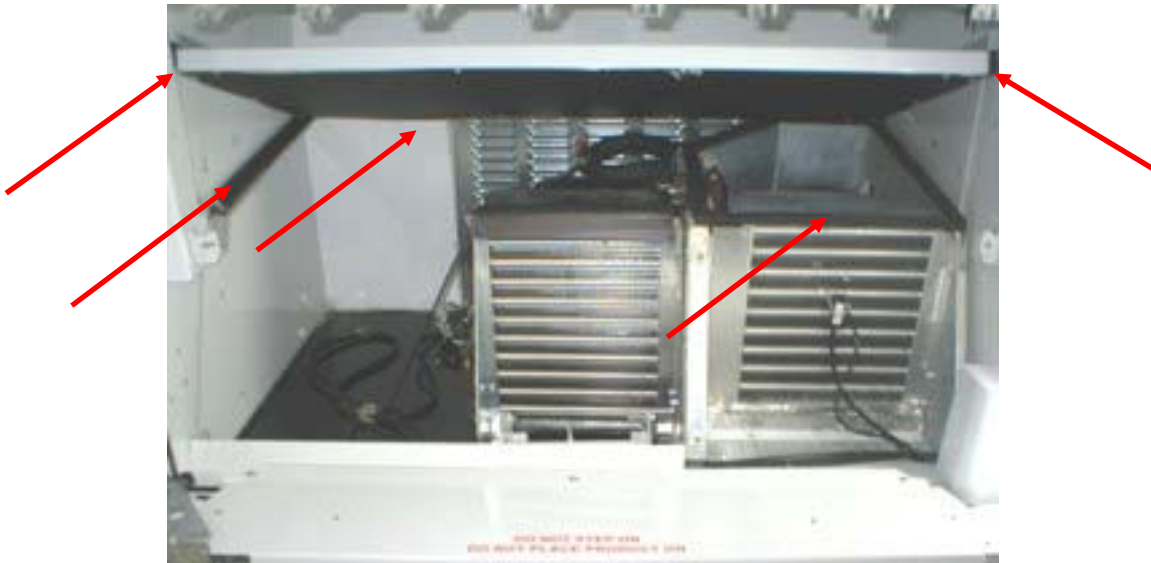


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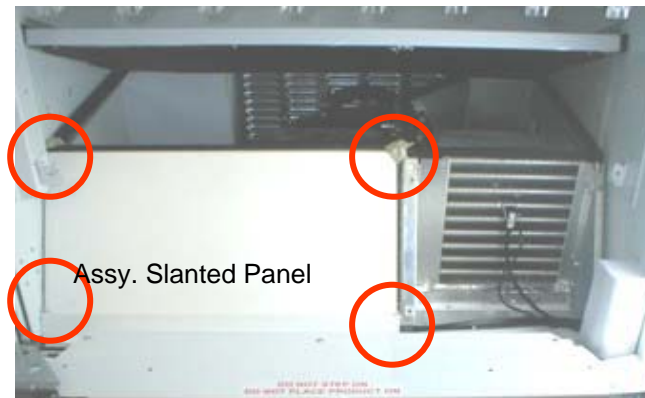
11. Check gasket seal is on the side of the Condenser cover Assembly Slanted Panel.



12. Check gasket seal on left, right, and back sides of the Bottom Panel Assembly, on top of Refrigeration Assembly, and on support bracket mounted on the left Cabinet wall.

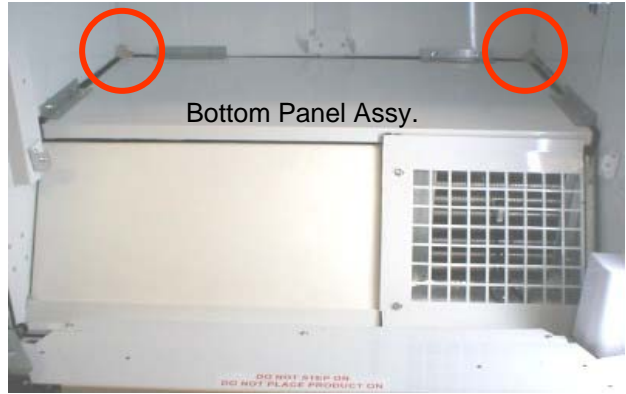


13. Check Permagum has been installed in the corners of the Condenser cover Assembly Slanted Panel.



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14. Check Permagem has been installed in the corners of the Bottom Panel Assembly.



15. Check the Refrigeration Unit gasketing on the right side of the Refrigeration Unit. Then confirm it is sealed tight to Cabinet wall and the Refrigeration Bracket is tightened to secure.

