Installation Instructions

Drain Pan Overflow Switch

Precedent™ Packaged Rooftop Units

3 to 25 Tons

Model Number:	**Used With:**
FIAOVFL001*	T/Y*036-300, W/D/G*036-300

⚠ SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

January 2026 **ACC-SVN242D-EN**

Introduction

Read this manual thoroughly before operating or servicing this unit.

Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
NOTICE	Indicates a situation that could result in equipment or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

⚠ WARNING

Proper Field Wiring and Grounding Required!

Failure to follow code could result in death or serious injury.

All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.

⚠ WARNING

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury.

Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, MUST follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- **Before installing/servicing this unit, technicians MUST put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). ALWAYS refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.**
- **When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labelling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.**
- **If there is a risk of energized electrical contact, arc, or flash, technicians MUST put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, PRIOR to servicing the unit. NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.**

⚠ WARNING

Follow EHS Policies!

Failure to follow instructions below could result in death or serious injury.

- **All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.**
- **Non-Trane personnel should always follow local regulations.**

⚠ WARNING

R-454B Flammable A2L Refrigerant!

Failure to use proper equipment or components as described below could result in equipment failure, and possibly fire, which could result in death, serious injury, or equipment damage.

The equipment described in this manual uses R-454B refrigerant which is flammable (A2L). Use ONLY R-454B rated service equipment and components. For specific handling concerns with R-454B, contact your local representative.

⚠ WARNING

Cancer and Reproductive Harm!

This product can expose you to chemicals including lead and bisphenol A (BPA), which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Trademarks

Revision History

- Revised graphic Cabinet B – route harness WIRCUN008302 from IOM-J15 to PPM21.
- Added instructions for installing the new wire harnesses.
- Used with model number information updated.
- Updated Installation section.

Inspection

1. Unpack all components of the kit.
2. Check carefully for shipping damage. If any damage is found, report it immediately, and file a claim against the transportation company.

Parts List

Table 1. Parts list

Part Number	Description	Qty
189500760001	Condensate overflow switch	1
WIRCUN011102	Harness; controls, condensate overflow switch, connector to switch	1
WIRCUN008302	Harness; controls, condensate overflow switch, IOM to connector	1
WIRCUN036801	Harness; controls, cond overflow switch, CCM to raceway	1
436680450110	Overflow switch bracket	1
X25240209010	Mounting screws	2
X19210678001	Wire ties	2
X19210028050	Wire ties for adhesive pads	2
X21080229560	Wire seal	1
X19210284020	Wire ties for wire seal	2
X19100711001	Adhesive/sticky pads	2

Installation

Removing the Panels and Installing the Bracket

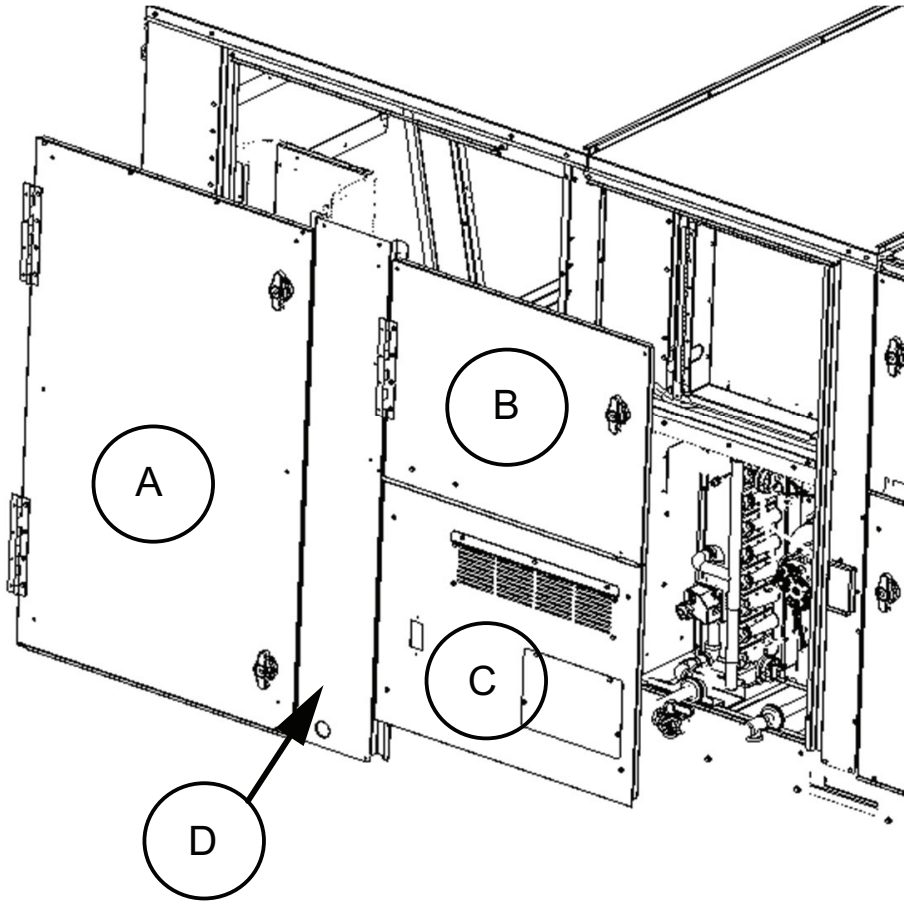
⚠ WARNING

Hazardous Voltage w/Capacitors!

Failure to disconnect power and discharge capacitors before servicing could result in death or serious injury. Disconnect all electric power, including remote disconnects and discharge all motor start/run capacitors before servicing. Follow proper lockout/ tagout procedures to ensure the power cannot be inadvertently energized. Verify with a CAT III or IV voltmeter rated per NFPA 70E that all capacitors have discharged.

1. Open and lock unit disconnect.
2. Detach pipe, P-trap connected to condensate drain opening in the post.
3. Remove indoor refrigeration coil panel (A), indoor fan panel (B), heat section panel(s) (C), followed by the vertical post (D) to which these were attached (see Figure 1, p. 6).

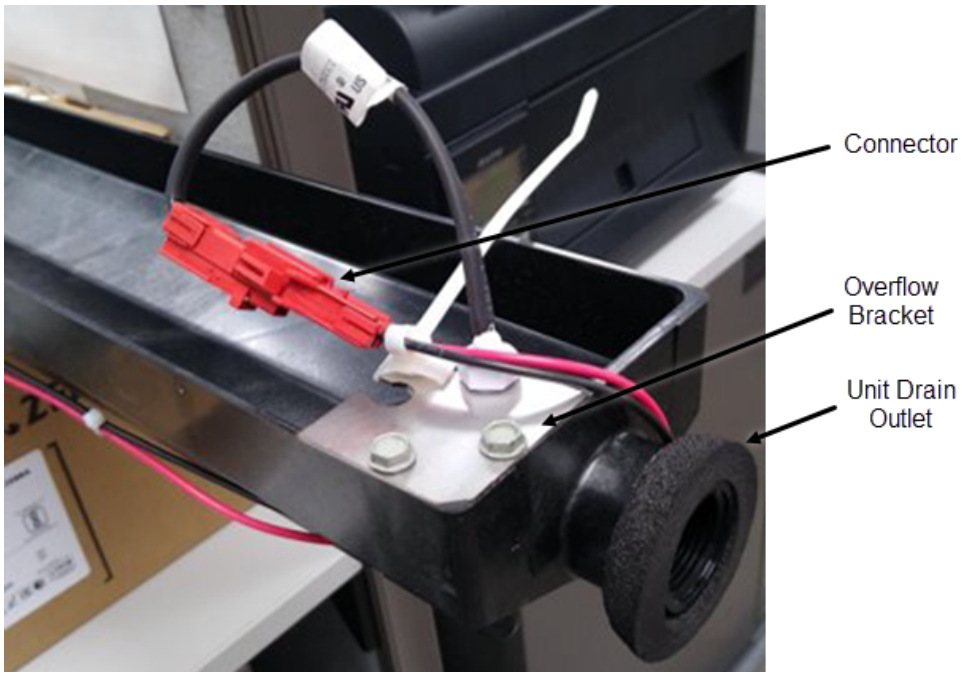
Figure 1. Remove panels and post



4. Locate the drain pan below the evaporator coil. Place the switch in the slot provided in the overflow bracket and tighten the nut.
5. Install the condensate switch bracket using the correct orientation shown in Figure 2, p. 7 and Figure 3, p. 7.

Important: *Use caution while fastening the condensate overflow switch bracket to the drain pan. The drain pan is made of plastic and can develop cracks if the condensate drain pan overflow bracket screws are over-tightened.*

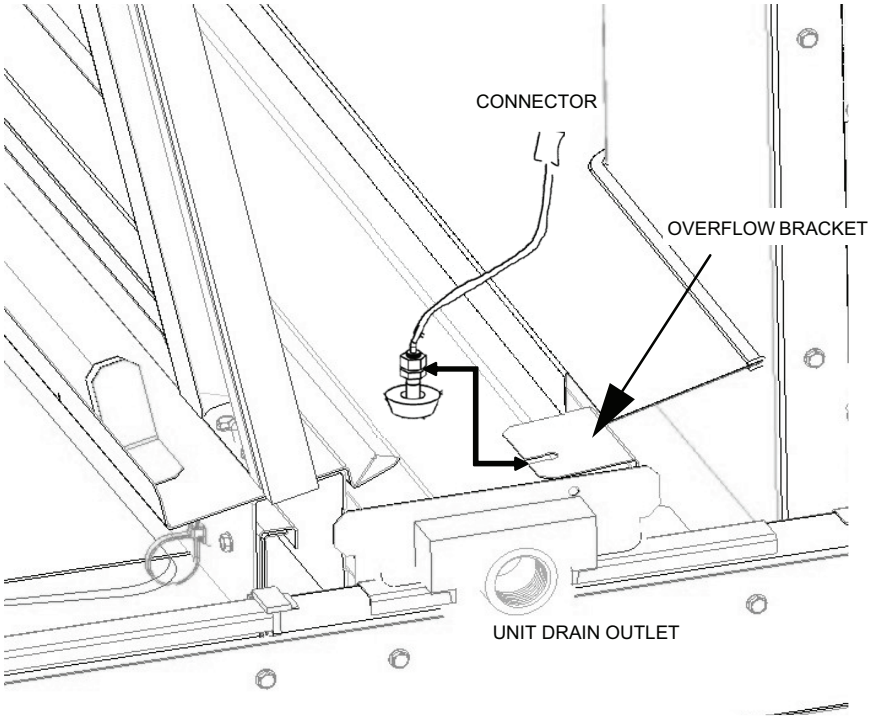
Figure 2. A, B, and C cabinet units – plastic drain pan



Notes: *There are two types of drain pans:*

- ***Plastic:*** *Install the bracket carefully and route the harness so that it has a loop as shown in* *Figure 2, p. 7*.
- ***Stainless Steel:*** *The bracket is pre-installed; discard the bracket and screws as shown in* *Figure 3, p. 7*.

Figure 3. D cabinet units



Routing the Wire Harnesses

1. **In cabinet A**, route harness **WIRCUN036801** from CCM-J12 to PPM21 (see Figure 4, p. 8, Figure 5, p. 9, and Figure 6, p. 9).

   Also see the main unit schematic, sheet 7. The harness starts from the Customer Connection Module (CCM) low-voltage box, passes through the high-voltage box, then routes downward as shown below.

Figure 4. Cabinet A – route harness WIRCUN036801 from CCM-J12 to PPM21

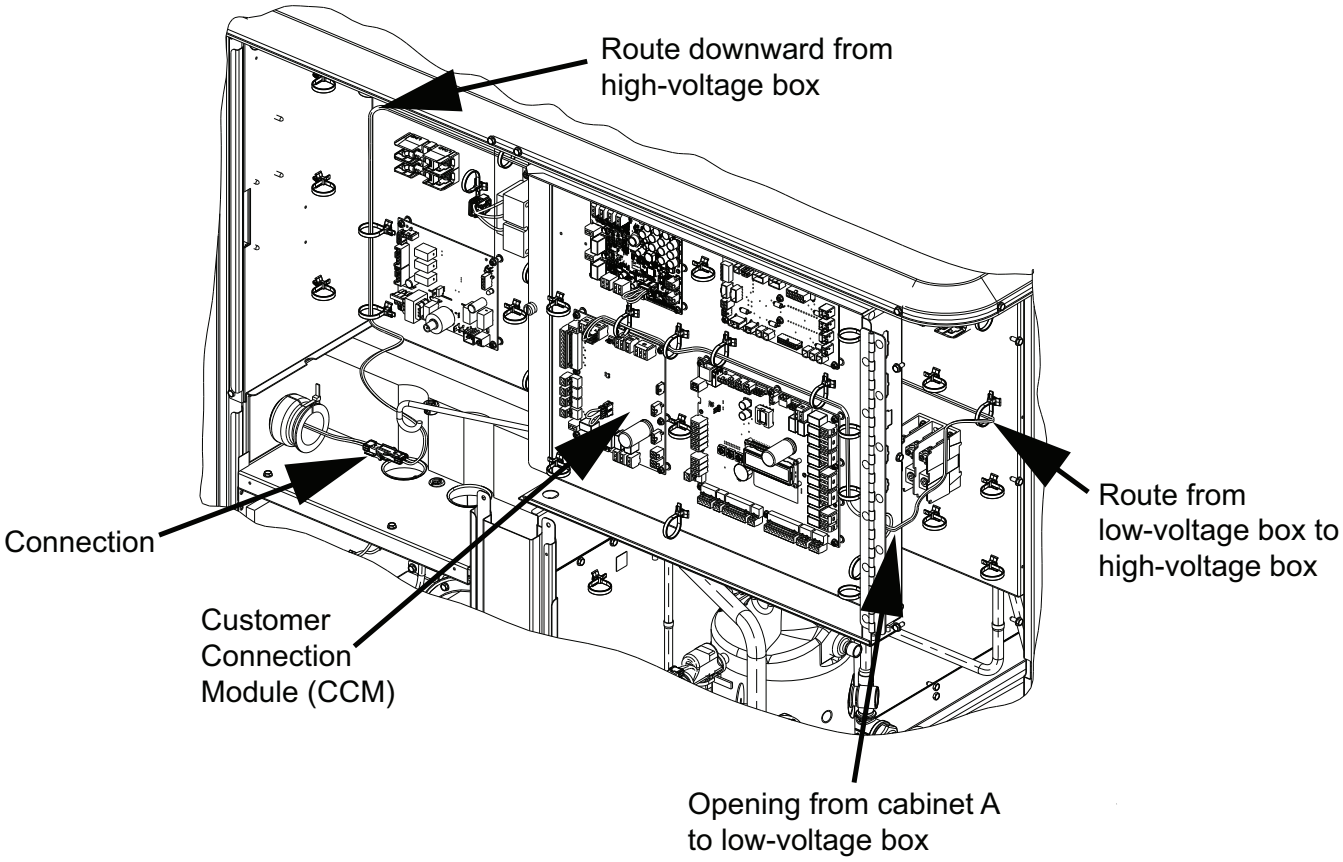


Figure 5. Low-voltage section

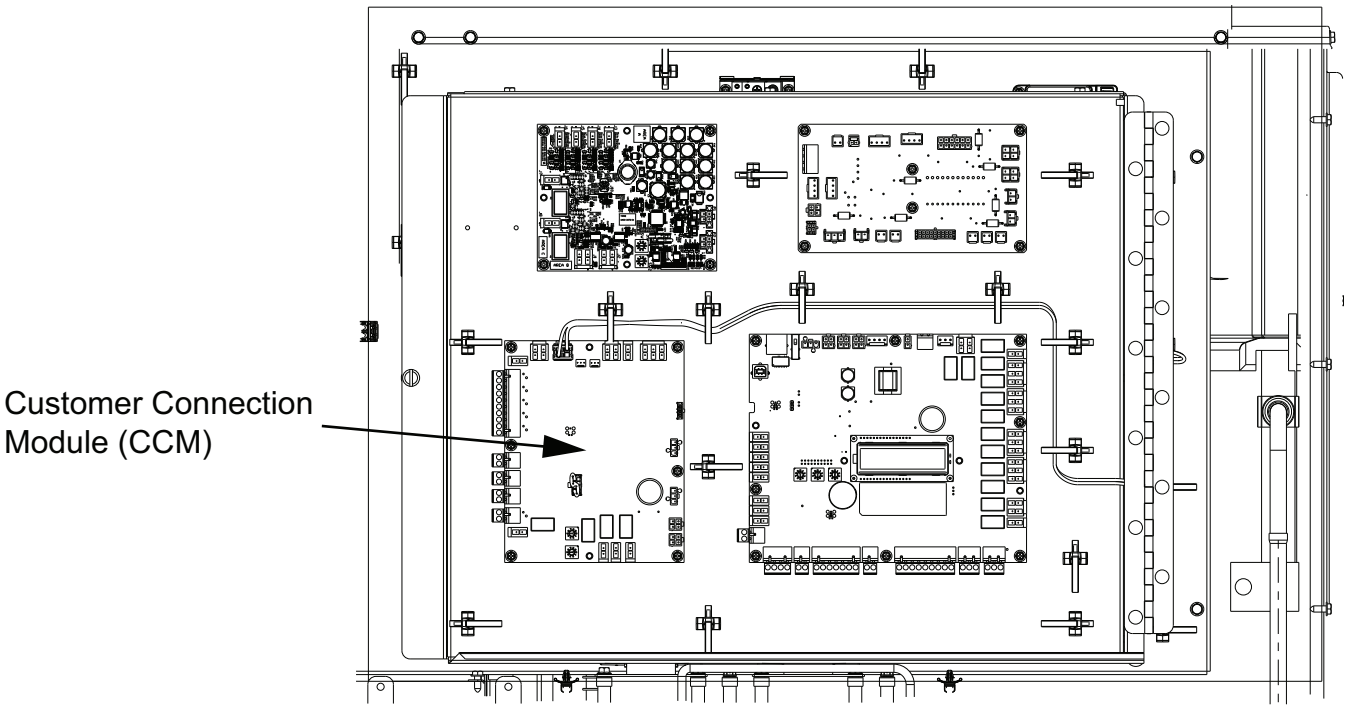
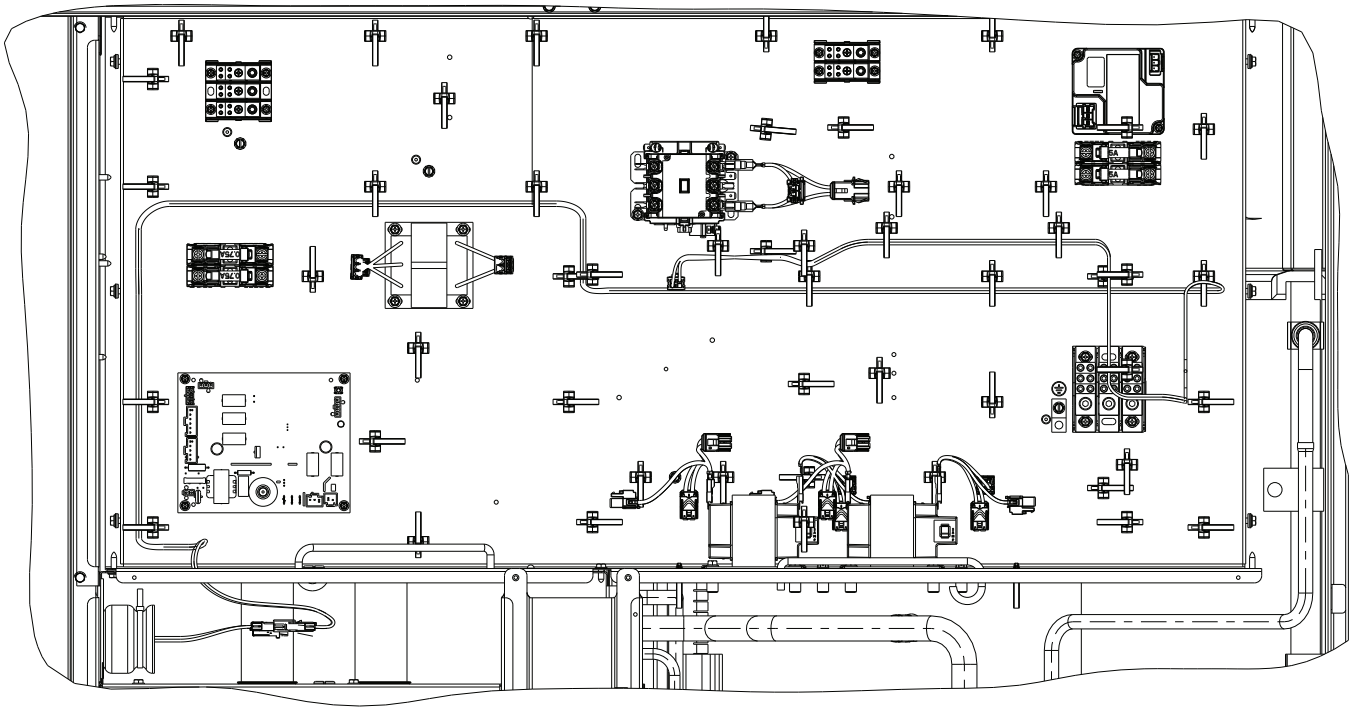


Figure 6. High-voltage section



2. **In cabinet B**, route harness **WIRCUN008302** from IOM-J15 to PPM21 (see Figure 7, p. 10, Figure 8, p. 11, and Figure 9, p. 11).

   Also see the main unit schematic, sheet 5.

   The harness starts at the Indoor Options Module (IOM) and routes from the left, downward as shown below.

Figure 7. Cabinet B – route harness WIRCUN008302 from IOM-J15 to PPM21

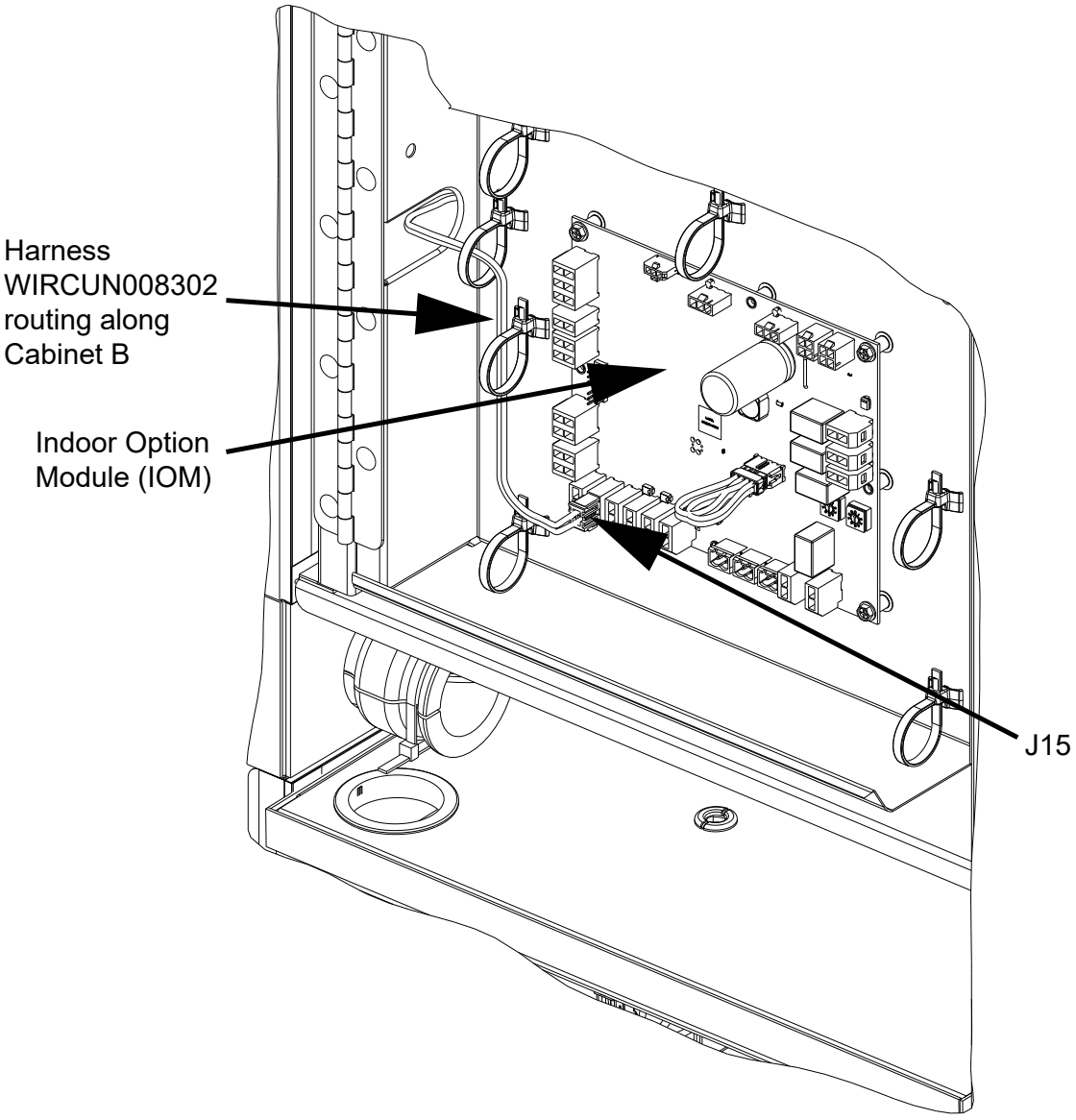


Figure 8. Cabinet B – side view

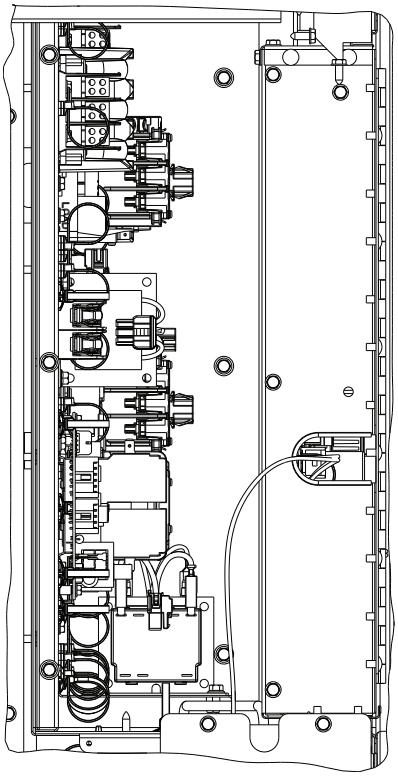
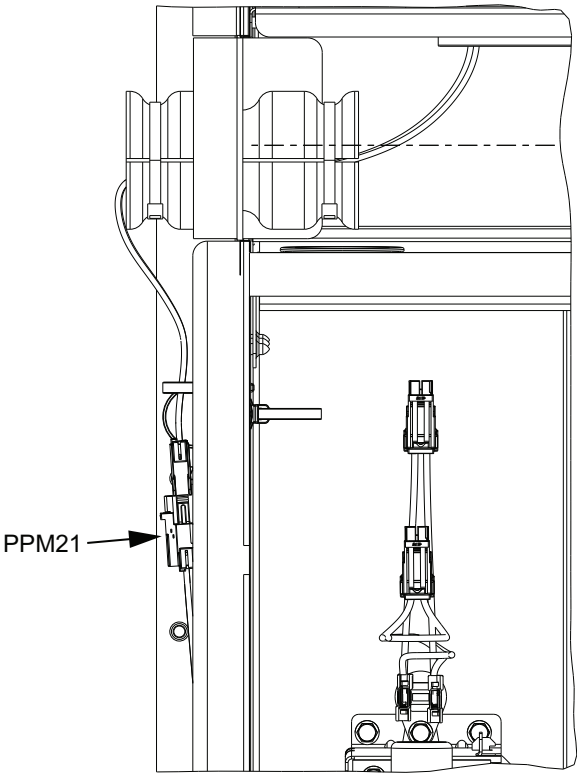


Figure 9. Cabinet B – connection point



3. **In cabinet C**, route harness **WIRCUN008302** from IOM-J15 to PPM21 (see Figure 10, p. 12, Figure 11, p. 13, and Figure 12, p. 13).

   Also see the main unit schematic, sheet 5.

   The harness starts at the IOM and routes from the left downward as shown below.

Figure 10. Cabinet C – route harness WIRCUN008302 from IOM-J15 to PPM21

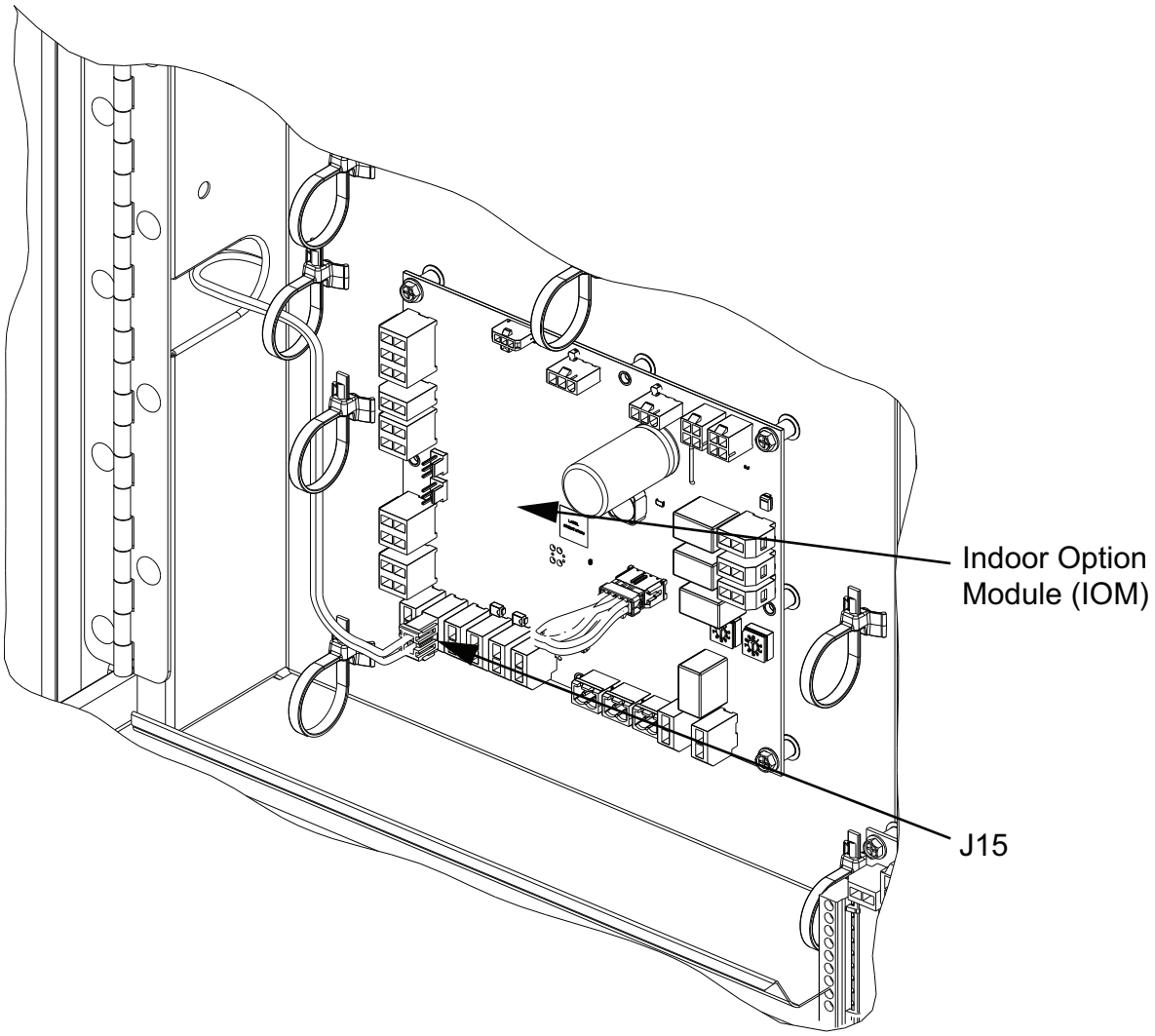


Figure 11. Cabinet C – side view

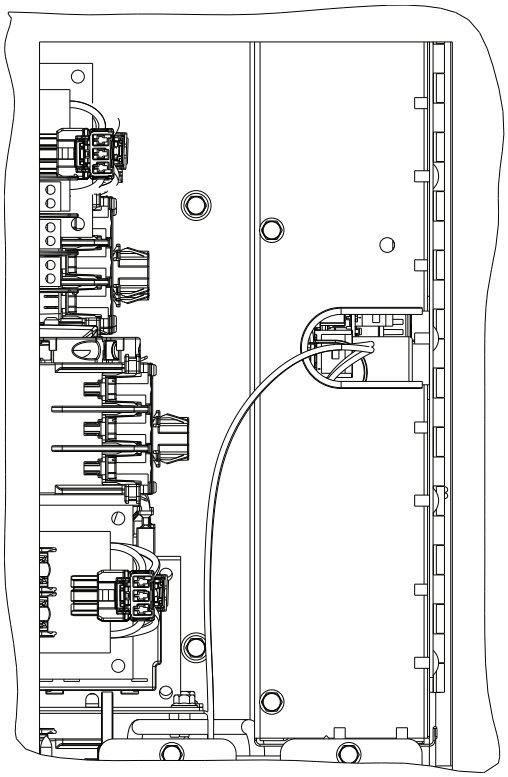
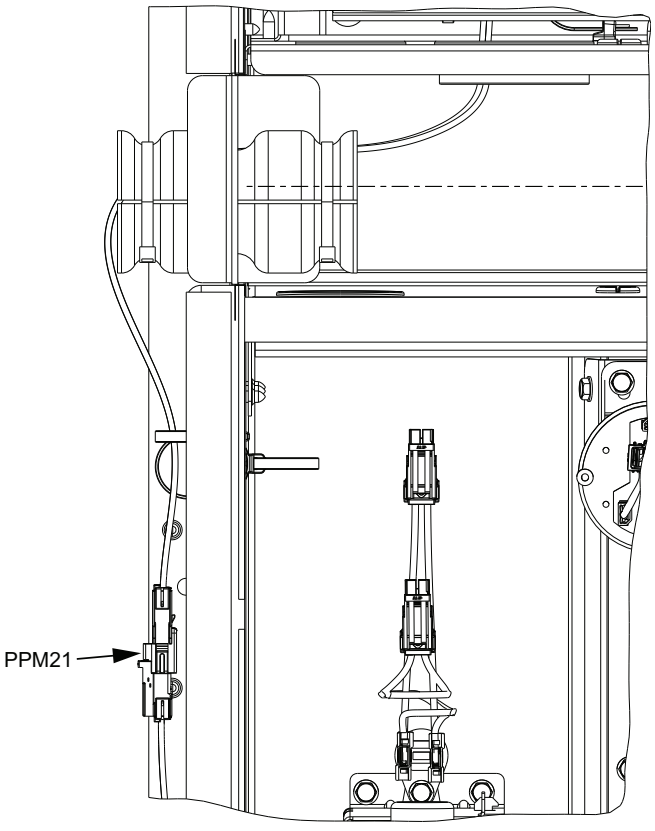


Figure 12. Cabinet C – connection point



4. **In cabinet D**, route harness **WIRCUN008302** from IOM-J15 to PPM21 (see Figure 13, p. 14 and Figure 14, p. 15).

   Also see the main unit schematic, sheet 5.

   The harness starts at the Indoor Options Module (IOM) and routes from the left to the connecting harness. Secure any extra length using a cable tie.

Figure 13. Cabinet D – route harness WIRCUN008302 from IOM-J15 to PPM21

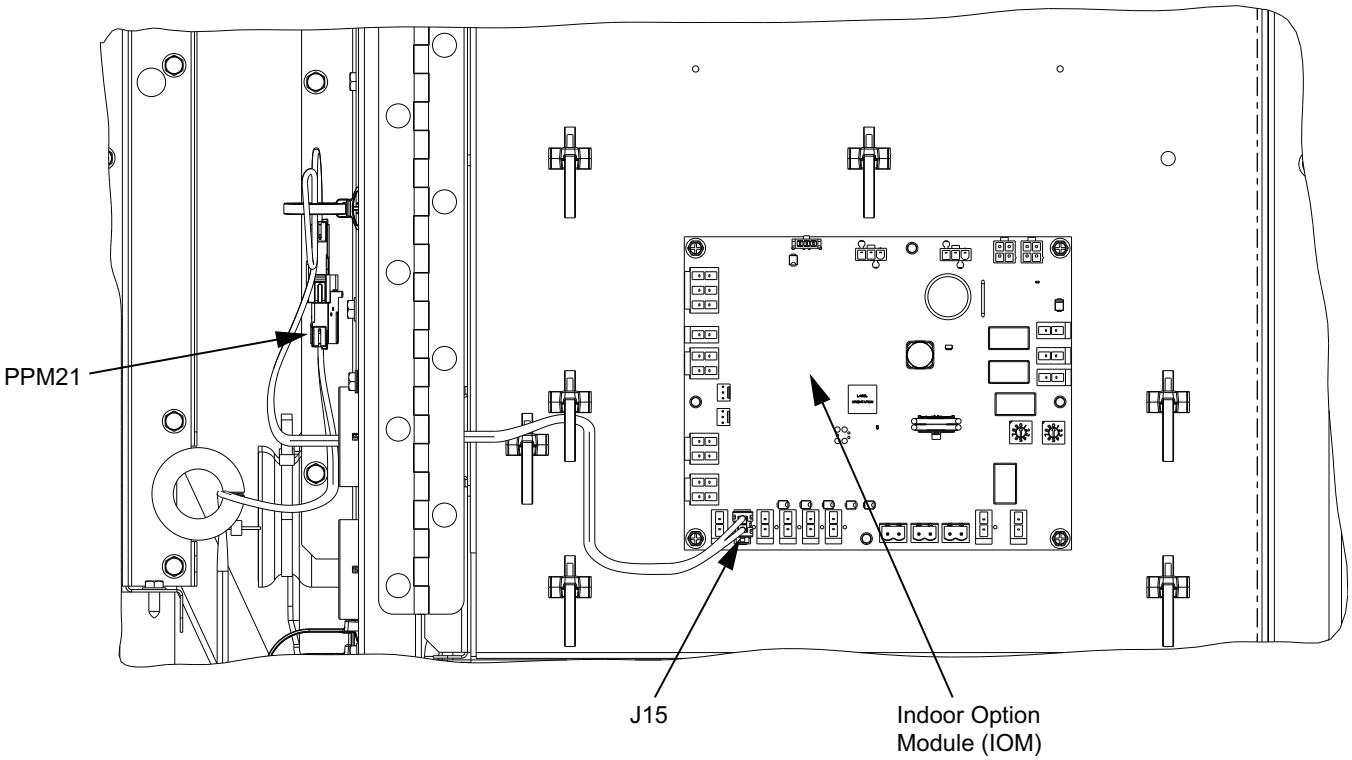
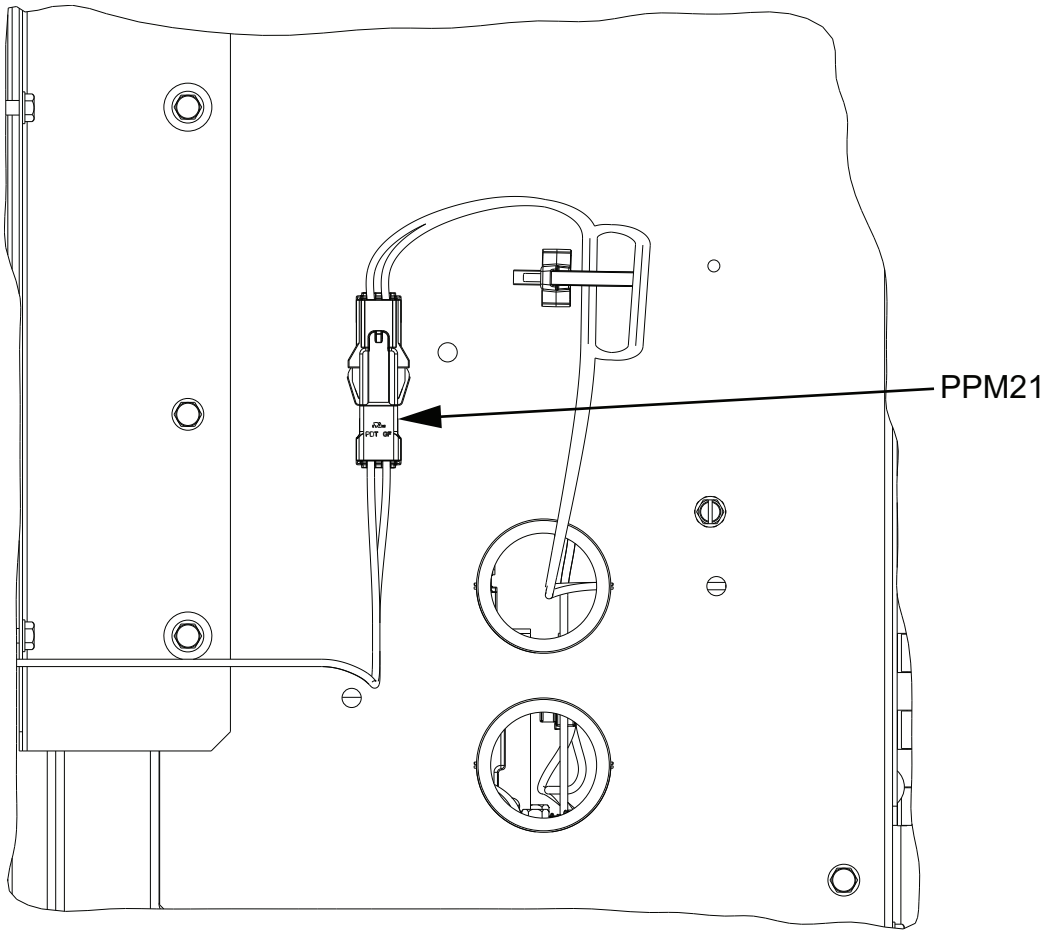


Figure 14. Cabinet D – side view



5. For cabinet A, refer to the main unit schematic, sheet 7.

   For cabinets B, C, and D, refer to the main unit schematic, sheet 5.

   In cabinets A, B, and C, route harness **WIRCUN011102** from PPM121 (COF switch pigtail) to PPF21 as shown in Figure 15, p. 16, Figure 16, p. 17, and Figure 17, p. 18.

6. For A, B, and C cabinets, connect the COF switch pigtail, route the harness below the drain pan, then connect to the intermediate connector coming from the IOM/CCM (see Figure 15, p. 16, Figure 16, p. 17, and Figure 17, p. 18).

Figure 15. Cabinet A, B, and C routing – stainless steel drain pan

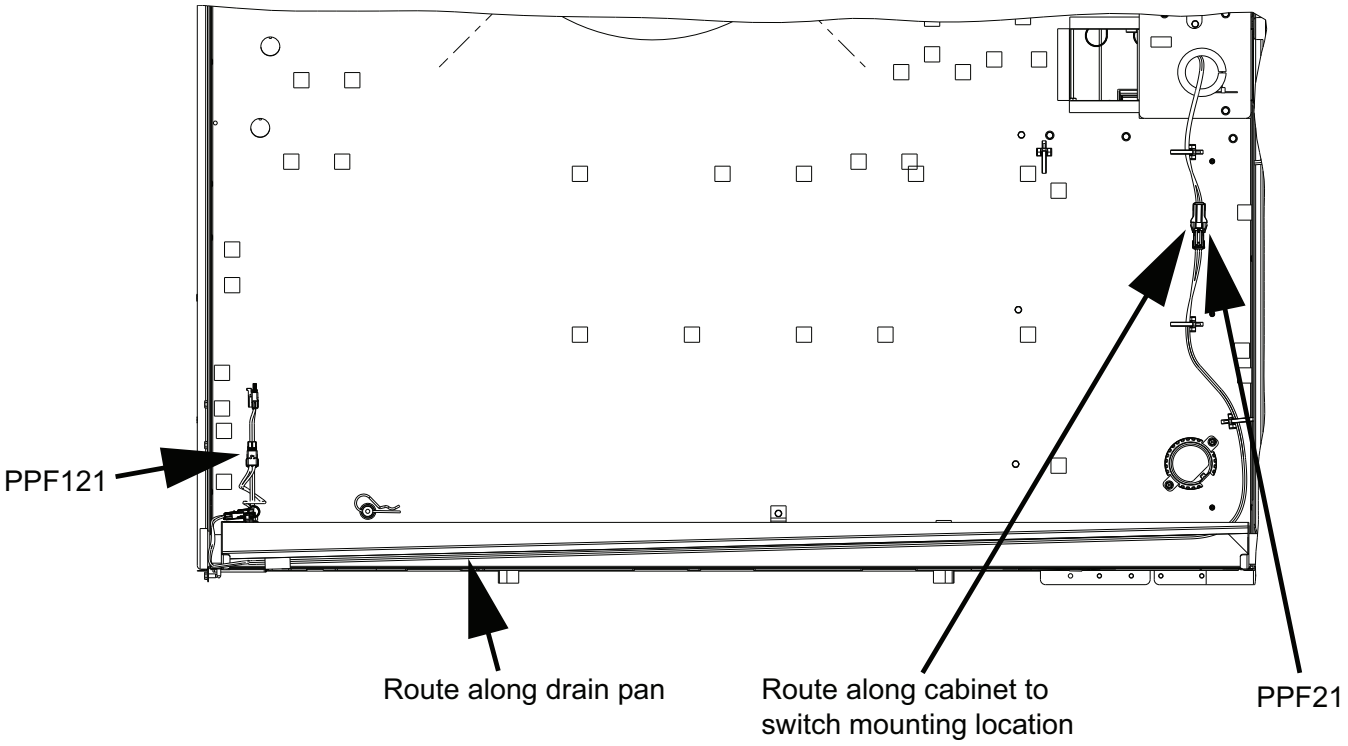


Figure 16. Cabinet A, B, and C routing – plastic drain pain

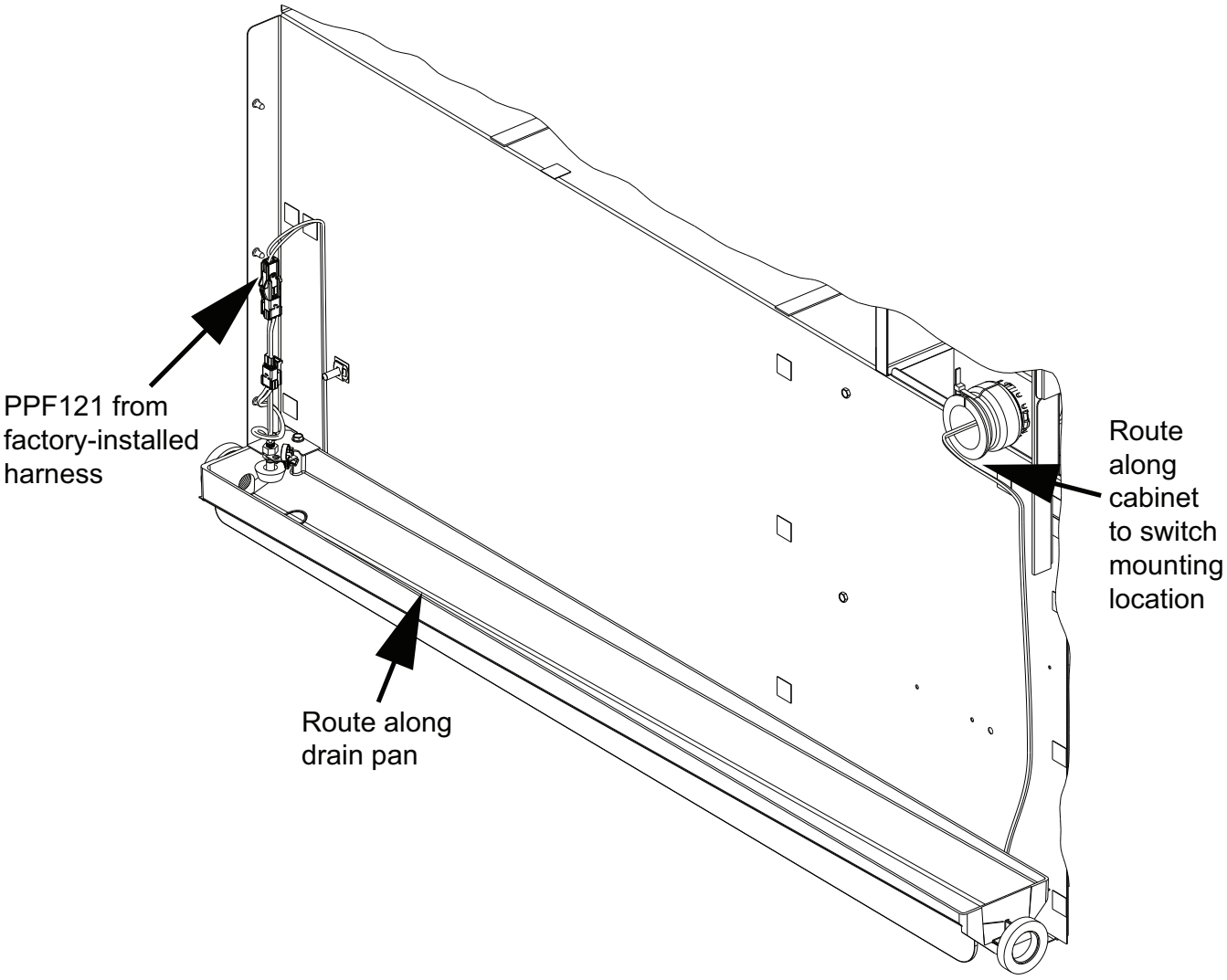
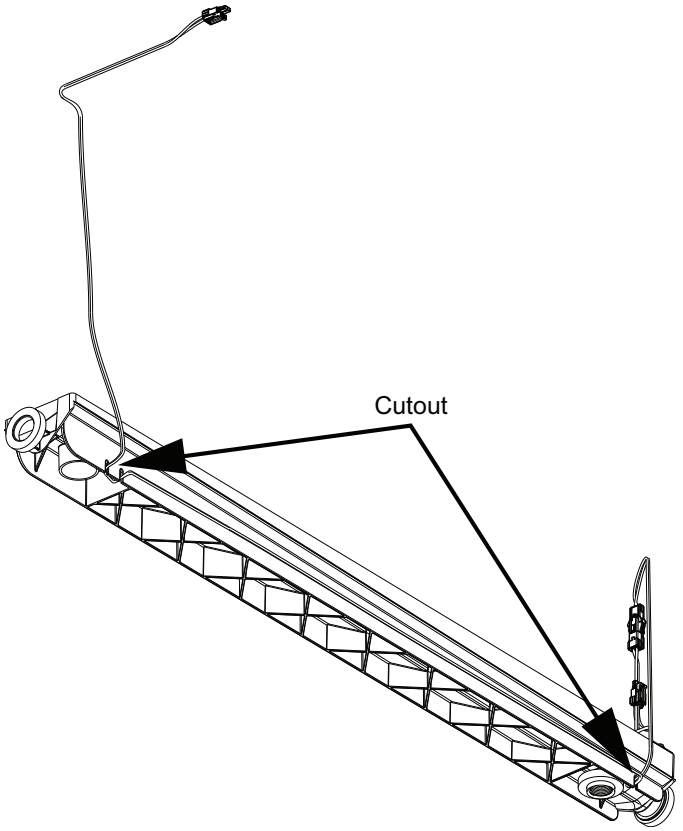


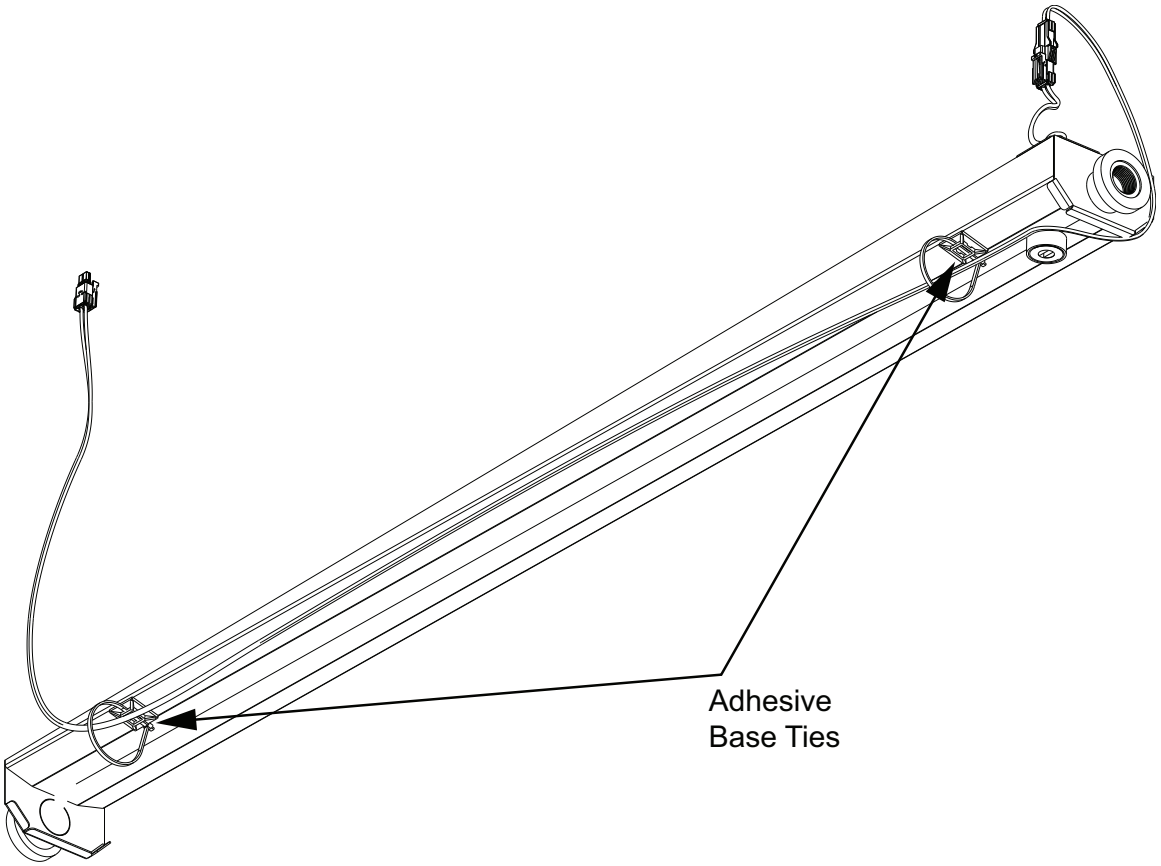
Figure 17. Cabinet A, B, and C routing – plastic drain pain cutout view



7. **For stainless steel drain pans only (cabinets A, B, and C),** attach the adhesive base tie as follows:
   a. Clean the bottom of the drain pan where the adhesive wire tie anchors will be installed.

      Allow the drain pan to dry completely before continuing.
   b. Peel off the adhesive backing and apply the adhesive wire tie anchor to the designated location (6 to 7 inches from the corners/end of the drain pan) as shown in Figure 18, p. 19.
   c. Press and hold the adhesive back wire tie anchor for at least 30 seconds.

Figure 18. Adhesive base tie — stainless steel drain pans only (cabinets A, B, and C)



8. Discard any parts not required for the cabinet.
9. Insulation may be damaged during harness or COF switch installation. Handle with care and follow instructions closely. If damage occurs, promptly arrange for a replacement to be shipped.
10. To prevent condensation and component failure, seal the control box holes using the wire seal. Remove the existing wire seal, complete any required routing, then install the new wire seal from the kit to ensure a proper seal.

Figure 19. Wire seal – closing the indoor section (cabinets A, B, C, and D)

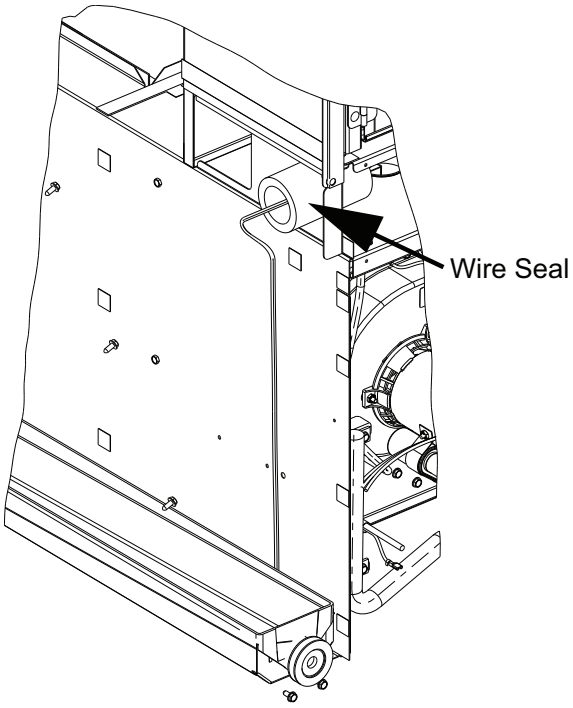
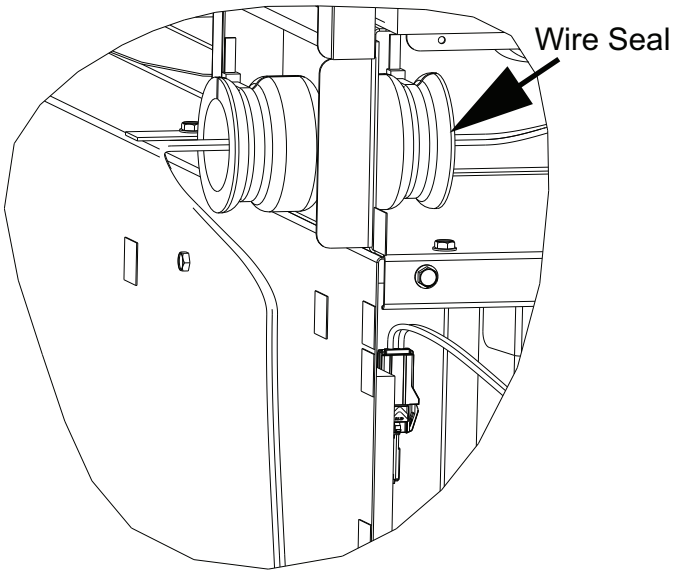


Figure 20. Wire seal location (cabinets A, B, C, and D)



11. In the D cabinet, connect PPF121 from the factory-installed harness to the connector on the switch pigtail and PPM21 from the same factory-installed harness to PPF21 (see Figure 13, p. 14 and Figure 14, p. 15).

Configuring the Symbio 700™ Options Modules and UC Board

Option Board Addressing

For Indoor Options Module (IOM):

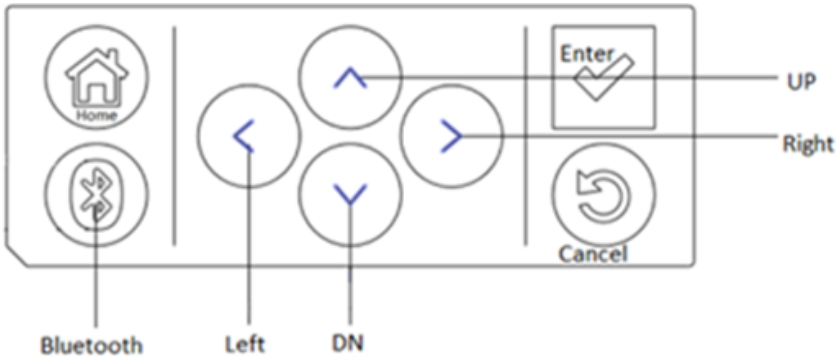
- If installing a new IOM, set the IOM Module address to 5 on the two rotary dials on the board.
- Set SW1 to 7 and SW2 to 5.

For Customer Connection Module (CCM):

- If installing a new CCM, set the CCM Module address to 7 on the two rotary dials on the board.
- Set SW1 to 7 and SW2 to 8.

Symbio 700 UC Board Configuration Changes

Figure 21. Symbio UC board user interface



On-board menu and keypad:

1. Press **Home**.
2. Press the **Down Arrow** and select **Utilities**.
3. Press the **Check**.
4. Press the **Down Arrow** and select **Unit Config**.
5. Press the **Check**.
6. Press the **Down Arrow** and select **Edit Unit Config**.
7. Press the **Check**.
8. Press the **Down Arrow** and select **Condensate Overflow Switch**.
9. Press the **Check**.
10. Press the **Down Arrow** and select **Installed**.
11. Press the **Check**.
12. Press the **Down or Up Arrow** to **Save Config**.
13. Press the **Check**.
14. Press the **Up Arrow** and select **Yes**.
15. Press the **Check**.

    The display will say **Updating**.

Using the app:

1. Connect to the Symbio 700 board through Bluetooth.
2. Select the **Settings** menu.
3. Select **View Configuration**.
4. Select **Edit** at the top right of the screen.
5. Select **Proceed** to stop the equipment operation.

6. Scroll down to **Condensate Overflow Switch**.
7. Tap **Not Installed**.
8. Select **Installed**.
9. Select **Save**.
10. Select **Save** again at the top right of the screen to save all configurations.

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ACC-SVN242D-EN 30 Jan 2026
Supersedes ACC-SVN242C-EN (January 2026)