

GFCI OUTLET FOR 3 - 12.5 Ton LIGHT COMMERCIAL ROOF TOP UNITS INSTALLATION INSTRUCTIONS

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19001 Kermier Rd., Waller, TX 77484
www.daikincomfort.com
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WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT.

THIS EQUIPMENT IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPACITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE EQUIPMENT.

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WARNING

HIGH VOLTAGE

TO AVOID THE RISK OF ELECTRICAL SHOCK, WIRING TO THE UNIT MUST BE POLARIZED AND GROUNDED.



WARNING

HIGH VOLTAGE

DISCONNECT ALL POWER BEFORE SERVICING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



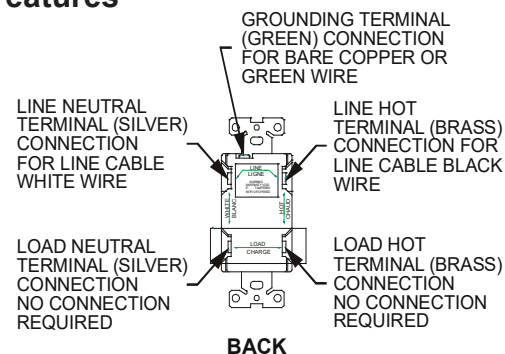
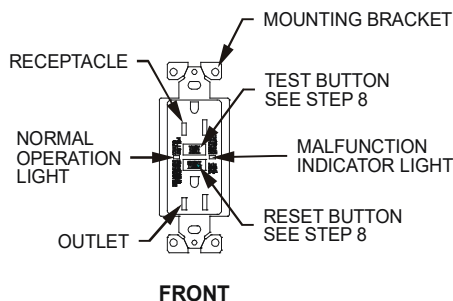
WARNING

DO NOT BYPASS SAFETY DEVICES.

IMPORTANT!

- A GFCI receptacle is different from conventional receptacles. In the event of a ground fault, a GFCI will trip and quickly stop the flow of electricity to prevent serious injury.
- A GFCI receptacle does NOT protect against circuit overloads, short circuits, or shocks. For example, you can still be shocked if you touch bare wires while standing on a non-conducting surface such as a wood floor.
- Your unit has been built with either a powered or non-powered 115V / 15A GFCI outlet for your convenience. This is to only be used while servicing the unit.
- Use this GFCI with copper or copper-clad wire. Do not use it with aluminum wire.
- Do not install this GFCI receptacle on a circuit that powers life support equipment because if the GFCI trips it will shut down the equipment.
- The GFCI receptacle must be kept dry by a weather proof cover and box at all times.
- Test the outlet before use to make sure it has not incurred any damage during shipping. Perform the *Operation Check* listed in this manual.

GFCI Features



SCREW (TERMINAL) COLORS:
GREEN = GROUNDING TERMINAL
SILVER = NEUTRAL TERMINALS
BRASS = HOT TERMINALS



POWERED GFCI OUTLET INSTALLATION INFORMATION

Your unit will have either a **powered** or **non-powered** GFCI outlet. If your unit has a factory-installed powered convenience outlet, the outlet is ready for use once the unit is installed and operating. See figures 1, 2 and 3 below for component locations of the powered outlet.

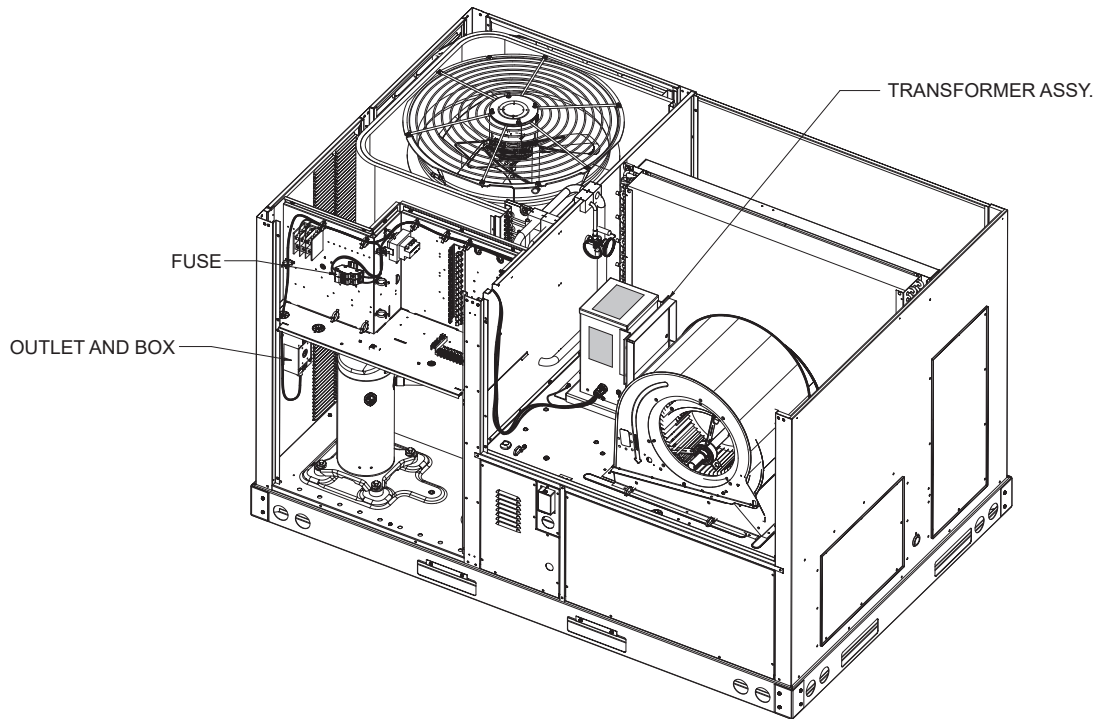


Figure 1: 3-6 Ton Units (DR, DB, DF, and DS Models)

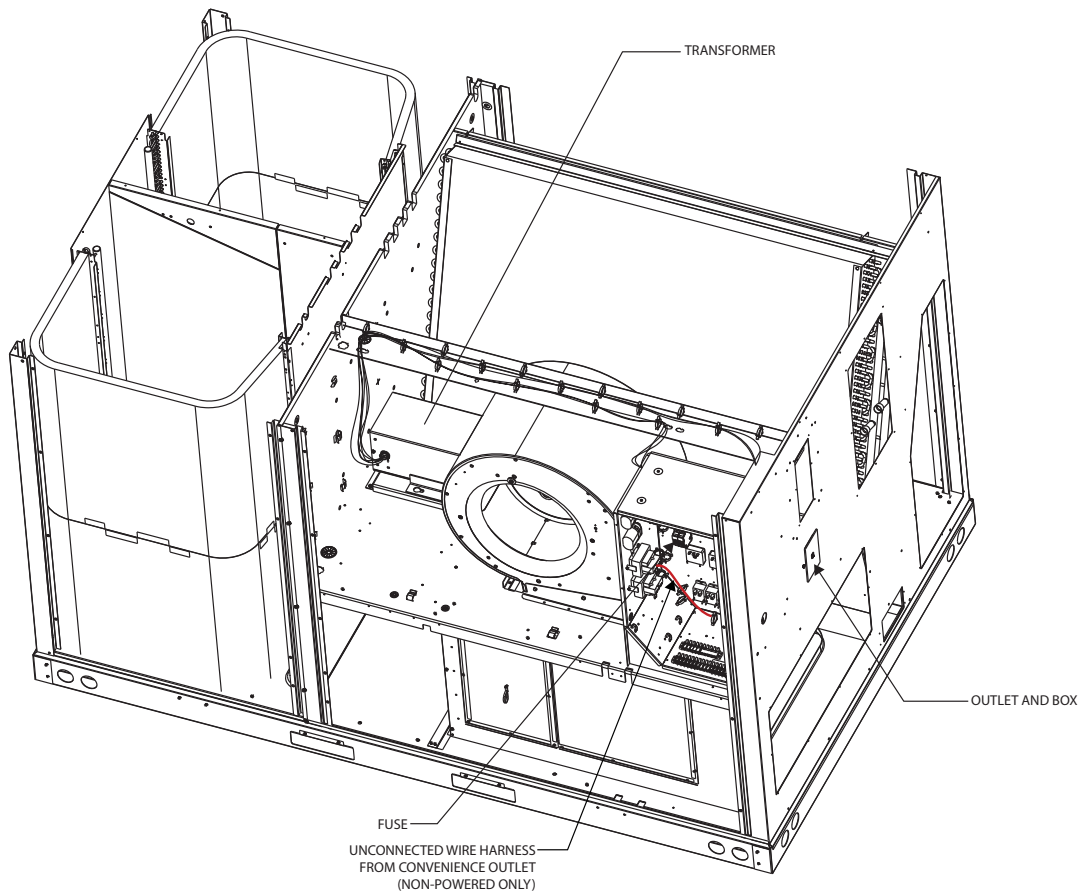


Figure 2: 7.5 -12.5 Ton Units (DR and DB Models)

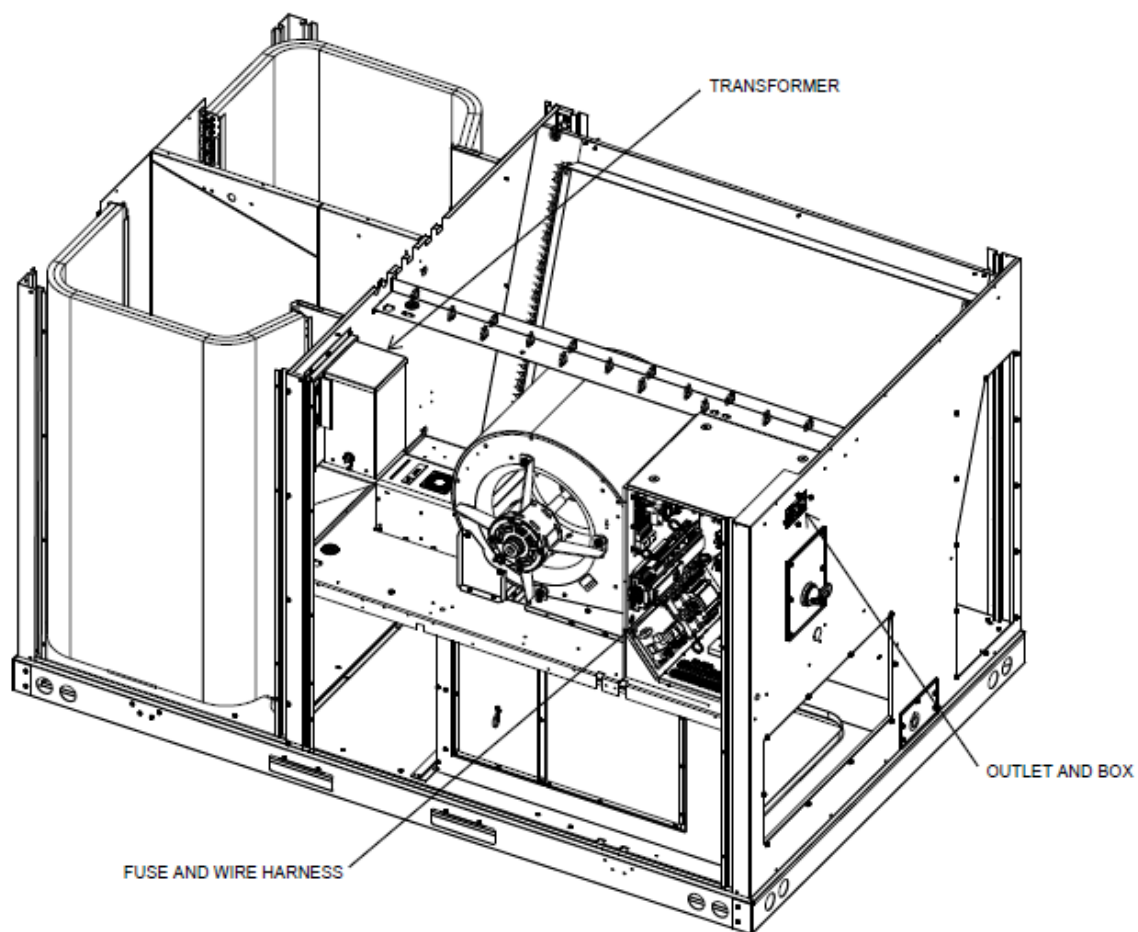


Figure 3: 7.5-12.5 Ton Units (DF, DS, and DH Models)

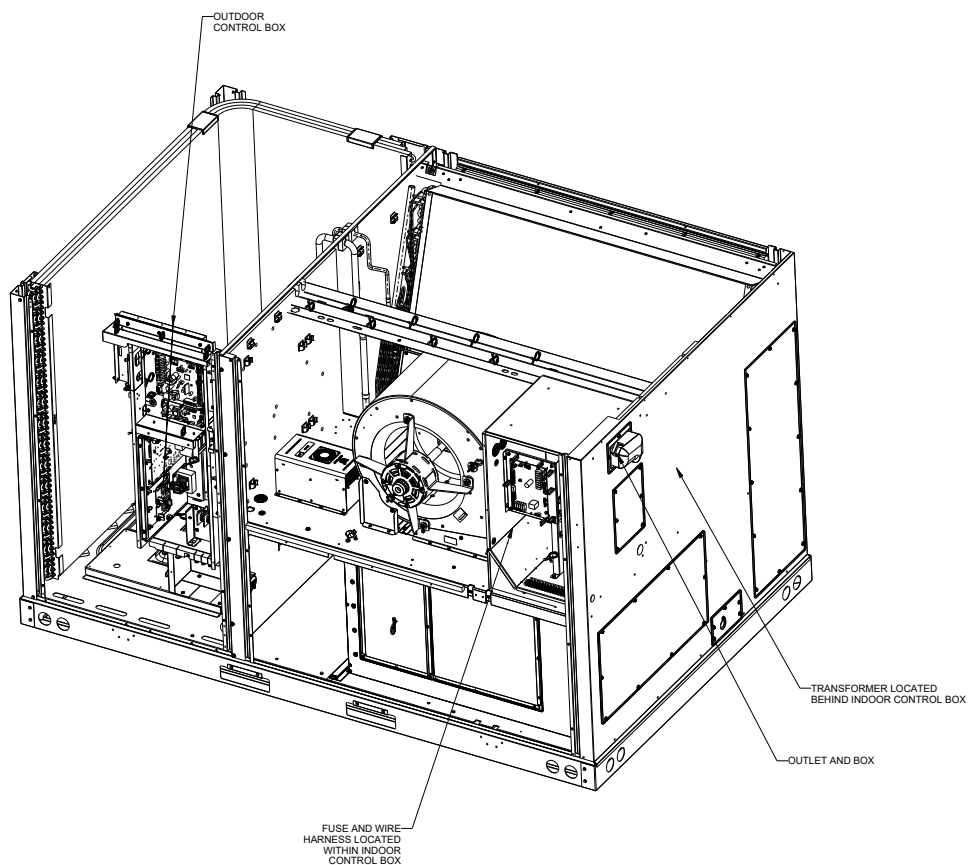
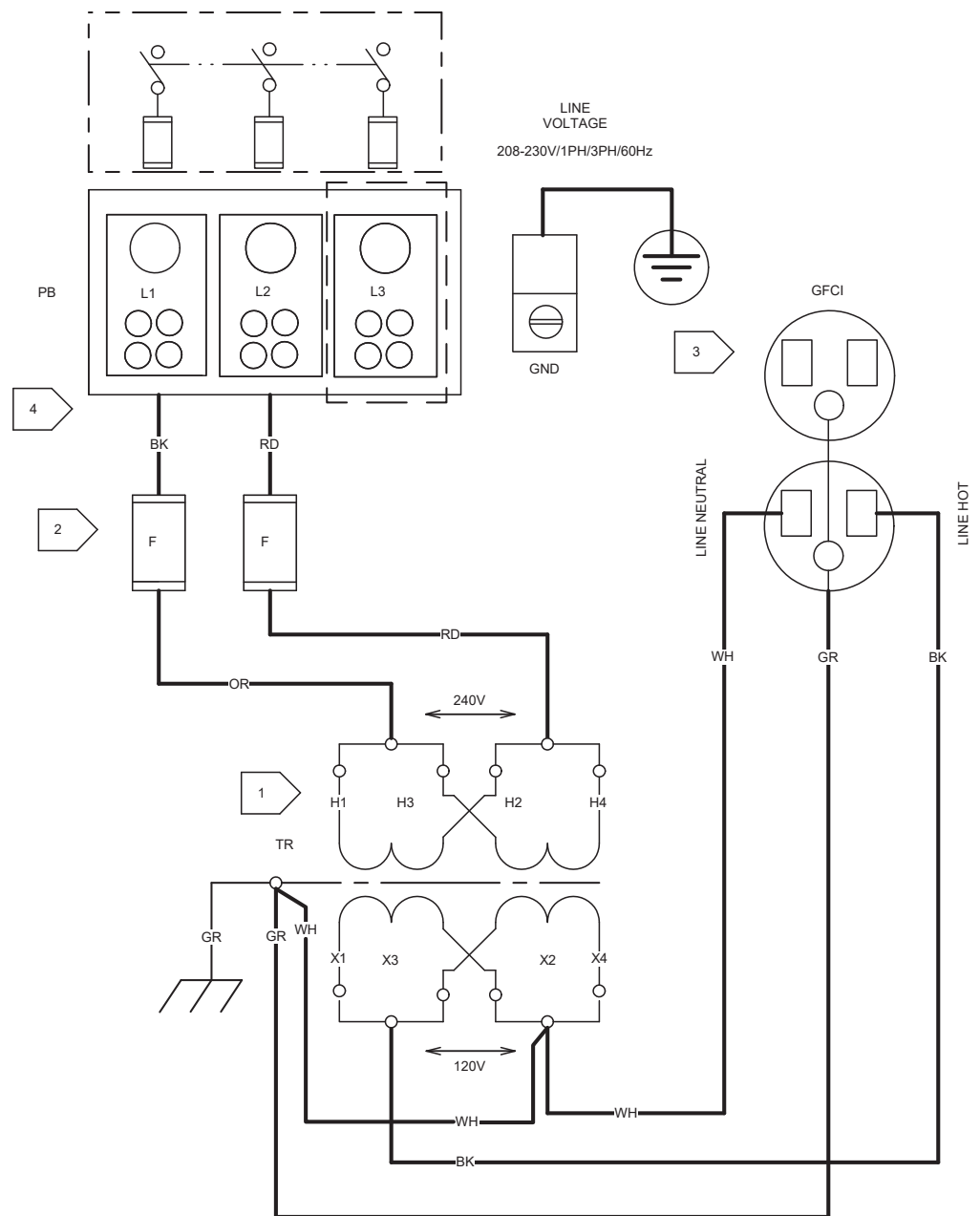


Figure 4: 7.5-12.5 Ton Units (DV Models)

TRANSFORMER DIAGRAM @ 208-230V



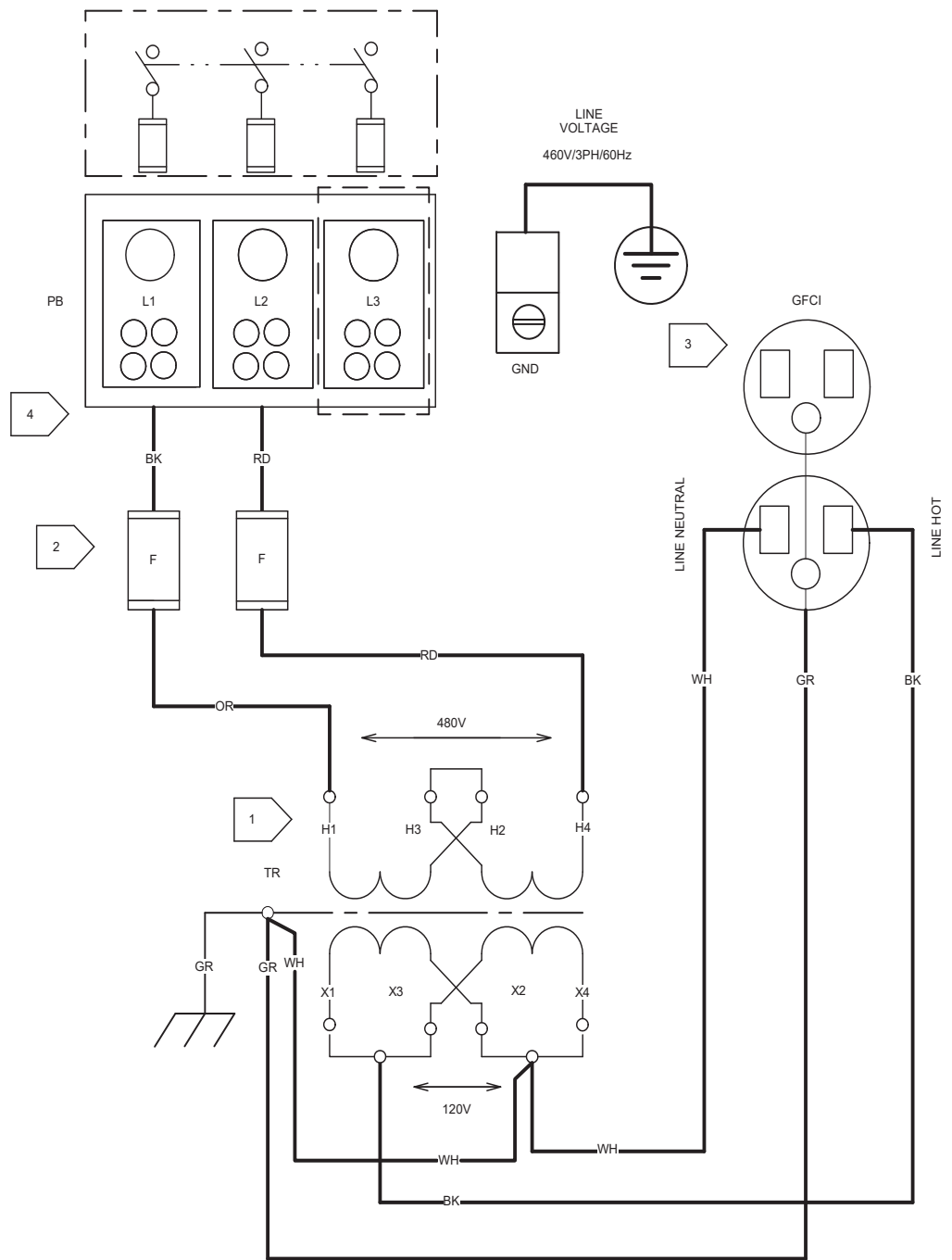
NOTES:

1. PRIMARY 240V, 8.33A
SECONDARY 120V, 16.7A
2kVA/1PH/60 HERTZ
2. 10A CLASS CC, 600VAC/DC, 200kA SCCR
3. RATING: 120V / 60 Hz / 15A.
PRODUCT CLASS A, NEMA TYPE 5-15R
GROUNDING DUPLEX RECEPTACLE
FOR USE WITH 10-14 AWG WIRE.
4. POWER BLOCK MAY NOT BE AVAILABLE ON SOME GAS MODELS. CONVENIENCE OUTLET POWER CAN BE SUPPLIED BY CONNECTING BLACK AND RED WIRES TO THE LINE SIDE OF ANY MOTOR CONTACTOR.

Wiring is subject to change. Always refer to the unit wiring diagram and accessory booklet for the most up-to-date wiring.

NOTE: There are fuses in the control box for the powered transformer. Check fuses if outlet is not working. For non-powered outlets that is powered by building power, check power source from building to make sure fuses or breaker is not tripped. If the breaker has been tripped, check for shorts in wiring.

TRANSFORMER DIAGRAM @ 480V



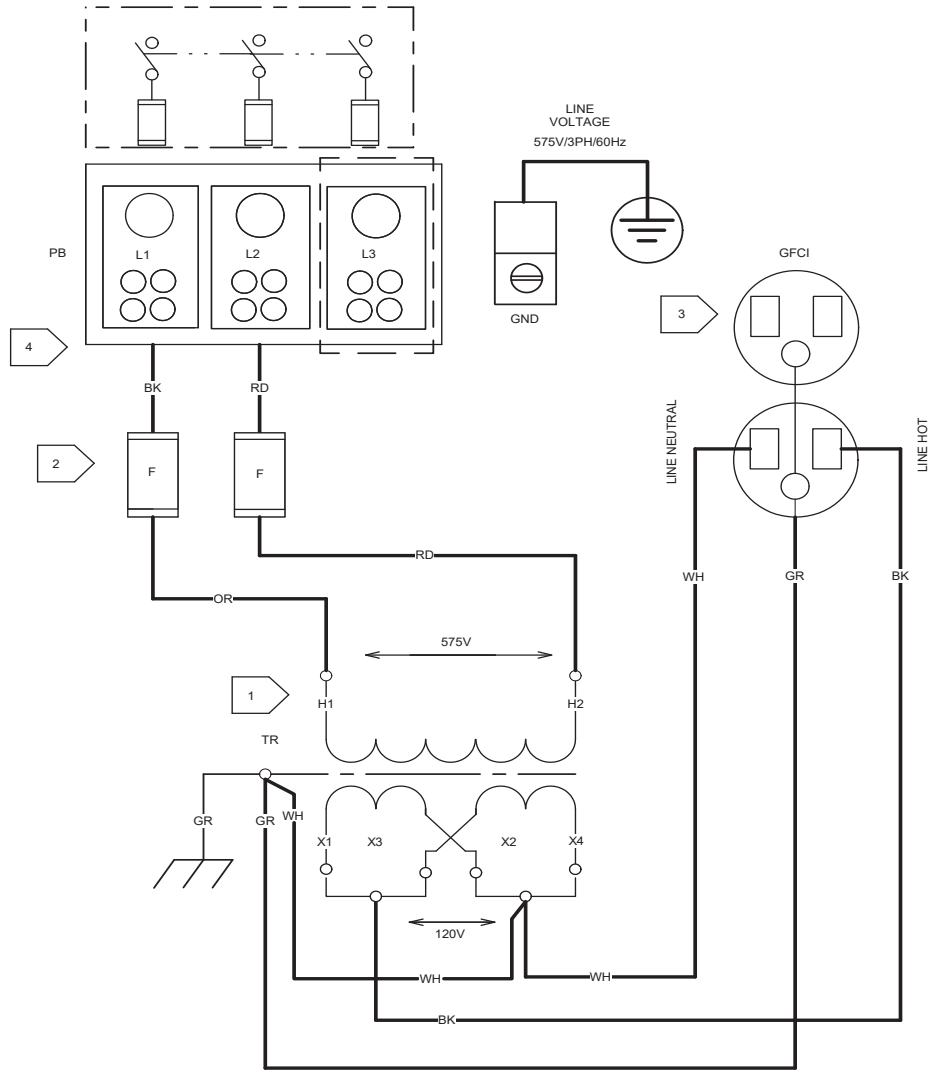
NOTES:

1. PRIMARY 480V, 4.17A
SECONDARY 120V, 16.7A
2kVA/1PH/60 HERTZ
OUTPUT: 13.04A @ 115V.
2. 5A CLASS CC, 600VAC/DC, 200kA SCCR
3. RATING: 120V / 60 Hz / 15A.
PRODUCT CLASS A, NEMA TYPE 5-15R
GROUNDING DUPLEX RECEPTACLE
FOR USE WITH 10-14 AWG WIRE.
4. POWER BLOCK MAY NOT BE AVAILABLE ON SOME GAS MODELS. CONVENIENCE OUTLET POWER CAN BE SUPPLIED BY CONNECTING BLACK AND RED WIRES TO THE LINE SIDE OF ANY MOTOR CONTACTOR.

Wiring is subject to change. Always refer to the unit wiring diagram and accessory booklet for the most up-to-date wiring.

NOTE: There are fuses in the control box for the powered transformer. Check fuses if outlet is not working. For non-powered outlets that is powered by building power, check power source from building to make sure fuses or breaker is not tripped. If the breaker has been tripped, check for shorts in wiring.

TRANSFORMER DIAGRAM @ 575V



NOTES:

1. PRIMARY 600V, 3.33A
SECONDARY 120V, 16.7A
2KVA/1PH/60 HERTZ
2. 5A CLASS CC, 600VAC/DC, 200KA SCCR
3. RATING: 120V / 60 Hz / 15A
PRODUCT CLASS A, NEMA TYPE 5-15R
GROUNDING DUPLEX RECEPTACLE
FOR USE WITH 10-14 AWG WIRE.
4. POWER BLOCK MAY NOT BE AVAILABLE ON SOME GAS MODELS. CONVENIENCE OUTLET POWER CAN BE SUPPLIED BY CONNECTING BLACK AND RED WIRES TO THE LINE SIDE OF ANY MOTOR CONTROLLER.

Wiring is subject to change. Always refer to the unit wiring diagram and accessory booklet for the most up-to-date wiring.

NOTE: There are fuses in the control box for the powered transformer. Check fuses if outlet is not working. For non-powered outlets that is powered by building power, check power source from building to make sure fuses or breaker is not tripped. If the breaker has been tripped, check for shorts in wiring.

NON-POWERED GFCI OUTLET INSTALLATION INSTRUCTIONS

3-6 Ton Units

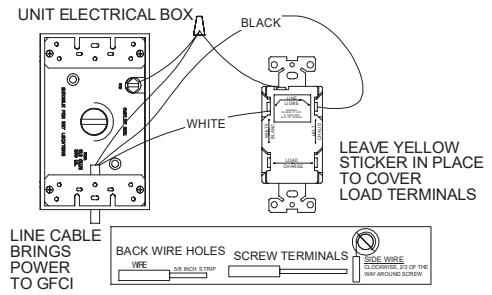
1. Turn power and gas supply to unit OFF. Turn power source used to power the outlet OFF.
2. Locate the outlet on the unit. It will be near the control box.
3. For this installation, only use wires that are suitable for outdoor conditions. Run the outlet power wires into the outlet box as shown. (Figure 5)
4. Make the following connections to the outlet:
 - Connect the 120V (black*) wire to the line hot terminal (brass)
 - Connect the neutral (white*) wire to the line neutral terminal (silver)
 - Connect a 6" bare copper (or green*) 12 or 14 AWG wire to the grounding terminal on the GFCI, and a similar wire to the grounding terminal on the gang box. Connect the ends of these wires to the outlet power supply circuit's ground wire using a wire nut.
5. Fold the wires into the gang box, keeping the grounding wires away from the neutral and hot terminals. Screw the receptacle onto the gang box.
6. Perform operation check and install cover per instructions.

7.5-12.5 Ton Units

1. Turn power and gas supply to unit OFF. Turn power source used to power the outlet OFF.
2. Locate the factory installed outlet power harness inside the unit's control box. (Figure 2 - available in DR and DB models)
3. For this installation, only use wires that are suitable for outdoor conditions. Run the outlet power circuit into the control box.
4. For DR and DB Models: Make the following connections to the factory installed outlet power harness:
 - Connect the 120V (black*) wire to the harness's black wire.
 - Connect the neutral (white*) wire to the harness's white wire.
 - Connect the ground wire (green*) wire to the harness's green wire.

For DF, DS, DH, and DV Models: Make the field power wires connect directly to the outlet by removing the GFCI from the electrical box.

 - Connect the 120V (black*) wire to Line HOT on GFCI.
 - Connect the neutral (white*) wire to Line WHITE on GFCI.
 - Connect the ground wire (green*) wire to electrical box ground screw and GFCI ground screw.
 - Reinstall GFCI to electrical box when complete.
5. Perform operation check and install cover per instructions.



*Suggested wire colors based on industry standards

OPERATION CHECK

1. Turn power ON. Press the RESET button fully on the GFCI outlet. Plug in a GFCI plug tester (also known as a Receptacle Tester) into the GFCI outlet. There should be 3 indicator lights on the GFCI tester to show the condition of the powered outlet. Refer to the GFCI tester indicator lights to ensure correct wiring is made. Proceed to Step 2 if it is correct. Proceed to Step 5 if it is wrong.
2. Next, press the TEST button on the GFCI to trip the device. The GFCI tester should shut OFF and there should be no indicator lights on the GFCI tester. The RESET button will be slightly popped-out on the GFCI outlet. To restore power, press the RESET button on the GFCI.
3. With the power back ON, The GFCI tester should have the indicator lights back ON. Look for a TEST button on the GFCI tester - it is usually located on the top of the tester - and press the TEST button on tester. The GFCI will trip and the RESET button will slightly pop-out on the GFCI outlet. The GFCI tester should show no status or indicator lights; the GFCI is confirmed and passed the GFCI testing. To restore power, press the RESET button on the GFCI.
4. If the malfunction indicator light (end-of-life indicator LED) (RED) lights up, the GFCI has stopped functioning and needs to be replaced.
5. If the outlet does not work as described, turn the power OFF and check the wire connections against the diagram shown above. Ensure that there are not loose wires or loose connections. If the RESET button does not work, check the LINE and LOAD connections; they could be reversed. If there are no wiring mistakes, the receptacle could be damaged and will need to be replaced. If the connections are rewired to the GFCI, please perform the Operation Check again.

NOTE: For non-powered outlets that are powered by building power, check power source from building to make sure fuses or breaker are not tripped. If the breaker has been tripped, check for shorts in the wiring.

Check the TEST and RESET buttons monthly to assure proper operation.

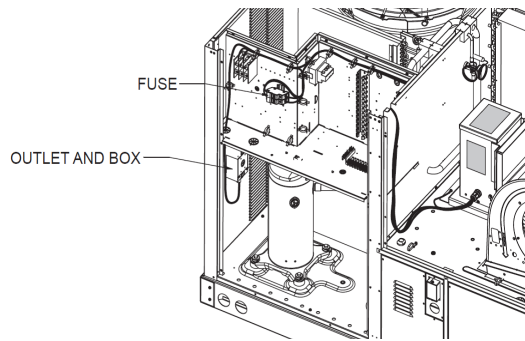


Figure 5

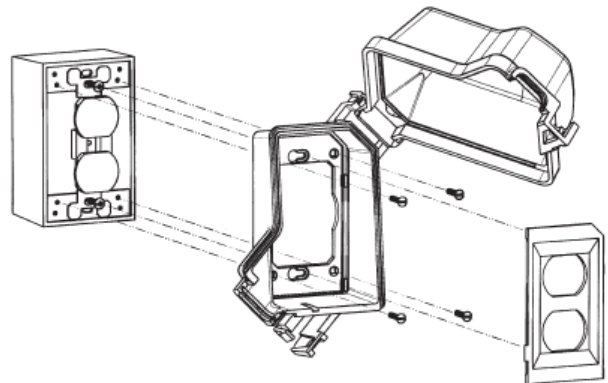
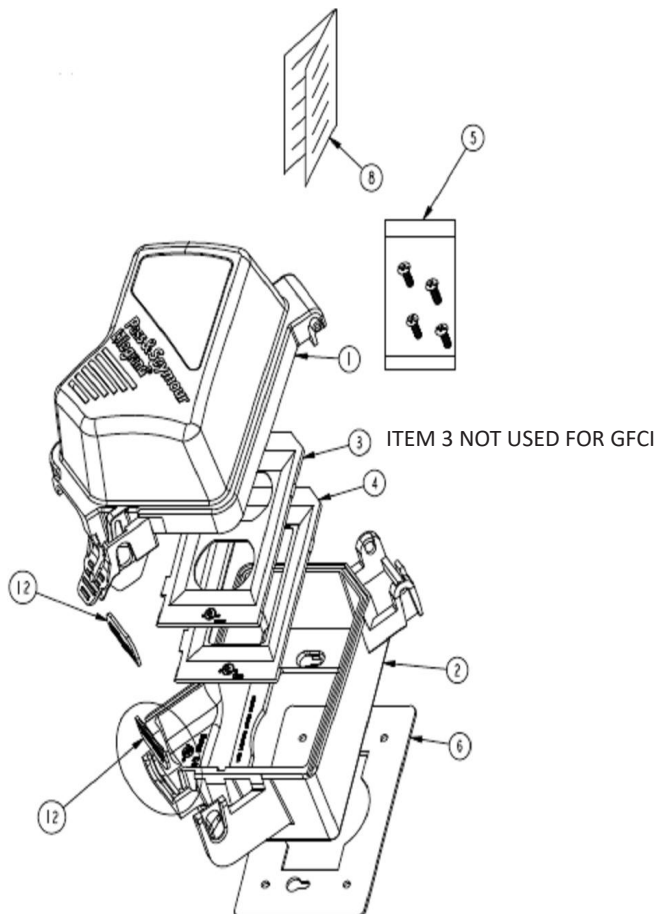
NON-POWERED AND POWERED GFCI OUTLET COVER INSTALLATION INSTRUCTIONS

1. Locate the outlet on your unit. It will be near the control box area.
2. Remove the gasket.
3. Install the GFCI outlet cover as shown.
4. The outlet cover is shipped with the unit and could be found in control box or blower deck.
5. Perform operation check.

ASSEMBLY INSTRUCTIONS

NOTE: Numbers in parentheses reflect the balloon numbers on the drawing.

1. Apply gasket (ITEM 6) to base (ITEM 2).
2. Apply adhesive, LOCTITE 4204 or 4205, into cord flap gasket slot of cover (ITEM 1) and base (ITEM 2).
3. Insert cord flaps (ITEM 12) into slots of cover and base within 15 seconds of step 2 above. Ensure cord flaps are fully seated and top of flap is flush with the top of cord opening of cover and base. Presence of adhesive should not be apparent on any exposed surface of installed cord flap gasket.
4. Snap cover (ITEM 1) to base (ITEM 2).
5. Back off the mounting screws that hold the GFI receptacle to the junction box but do not remove screws.
6. Insert mounting screws through the keyhole shaped mounting holes on cover assembly and slide the assembly to lock it in place. Tighten screws.
7. Use the four screws provided (ITEM 5) to further secure the assembly to the junction box. **DO NOT OVER TIGHTEN SCREWS.**
8. Select wall plate (ITEM 4) and snap in by putting one long edge in place first and rotating the plate over the device. (If device is in the way, loosen screws and move left or right.) Discard other plate(s).
9. As an added measure of sealing the assembly from the elements, seal the perimeter of the interface between the outlet cover and the duct panel using field supplied caulking.



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You can also scan the QR code on the right to be directed to the feedback page.



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