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Dallas, Texas, USA



INSTALLATION/ OPERATION INSTRUCTIONS

Auxiliary Heat Interface V0CTRL90

VRF SYSTEMS -- Auxiliary Heat
Interface
507544-01
02/2015

**THIS MANUAL MUST BE LEFT
WITH THE OWNER FOR
FUTURE REFERENCE**

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a licensed professional HVAC installer (or equivalent) or service agency. Be sure that power supply has been turned off before beginning installation. Do not operate equipment with wet hands.

⚠ WARNING

Do not install equipment in areas where heavy oil, vapor, or gases containing sulfur may exist or it may be damaged.

IMPORTANT!

These instructions are intended as a general guide and do not supersede local codes in any way. Consult authorities having jurisdiction before installation. Read all of the information in this manual before operating this equipment.

Shipping and Packing List

Package 1 of 1 contains:

- 1- Heating control
- 1- Installation manual
- 1- Crimp on connector

General

The installation location of the auxiliary heat interface varies between indoor units. Except for wall mounted units, indoor units have room for the heat control inside of the indoor unit cabinet.

Installation steps are similar for each indoor unit. See indoor unit sections of this guide for specific indoor unit installation information.

Installation

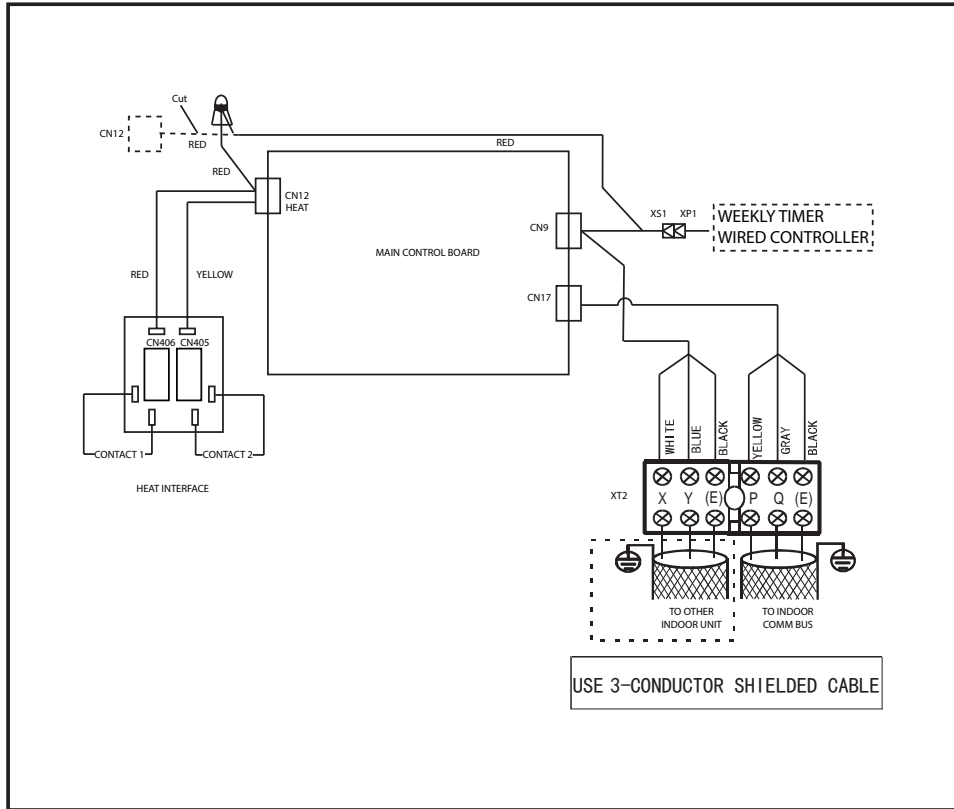


Figure 1. Principle Electrical Diagram of Heat Interface

All indoor units except wallmounted units.

1. Turn off power to the unit.
2. Remove the phillips-head screws securing the indoor unit electrical control box cover.
3. Mount the auxiliary heat control in the appropriate location, see indoor unit photos for specific locations.
4. Secure the heat control by pressing the four plastic feet at the bottom of the control through four holes provided in the unit cabinet. See figure 2 and individual indoor unit sections.
5. Locate the indoor unit main board, CN labeled "HEAT". See figure 3.
6. Unplug connection and use wire cutters to cut the red wire, leave enough wire on connection end to allow for connection to the auxiliary heat wiring harness. See figure 4.
7. Use the provided crimp-style wire nut and crimpers to connect the auxiliary heat wiring harness red wire to the connection-end red wire, and ensure the connections are secure.
8. Restore plug connection to CN HEAT. See figure 5.
9. Use phillips-head screws to secure indoor unit electrical control box cover.
10. Restore power to the unit.

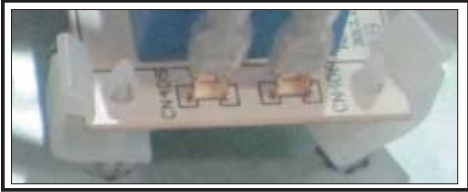


Figure 2. Mounting Feet

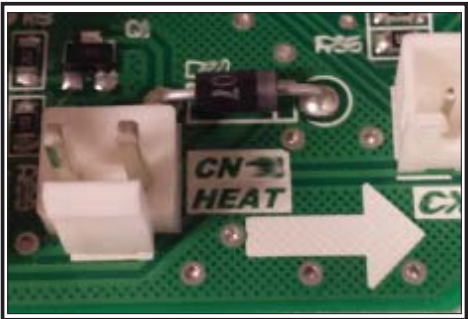


Figure 3. CN HEAT

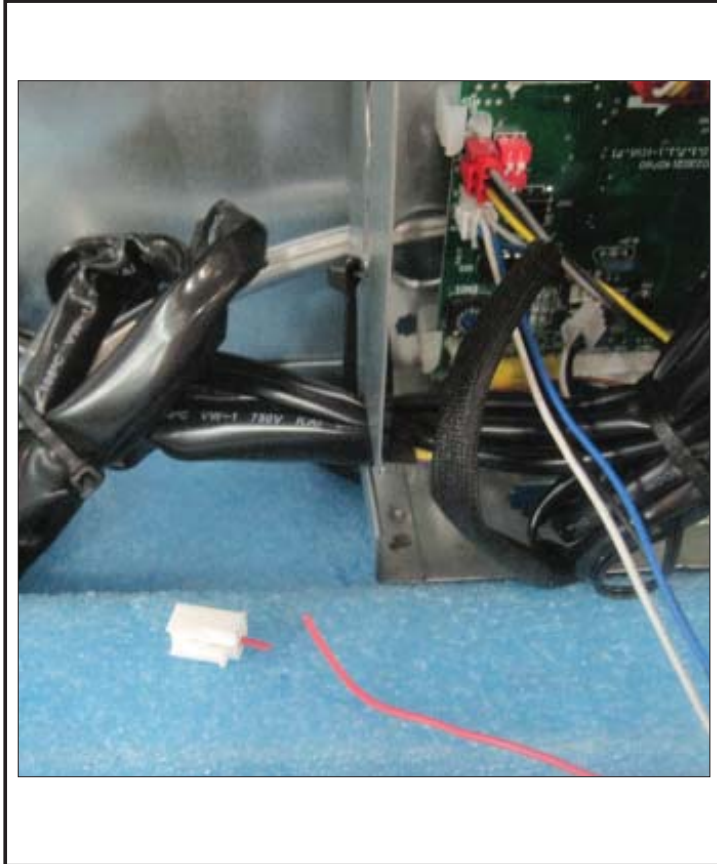


Figure 4. Cut Red Wire

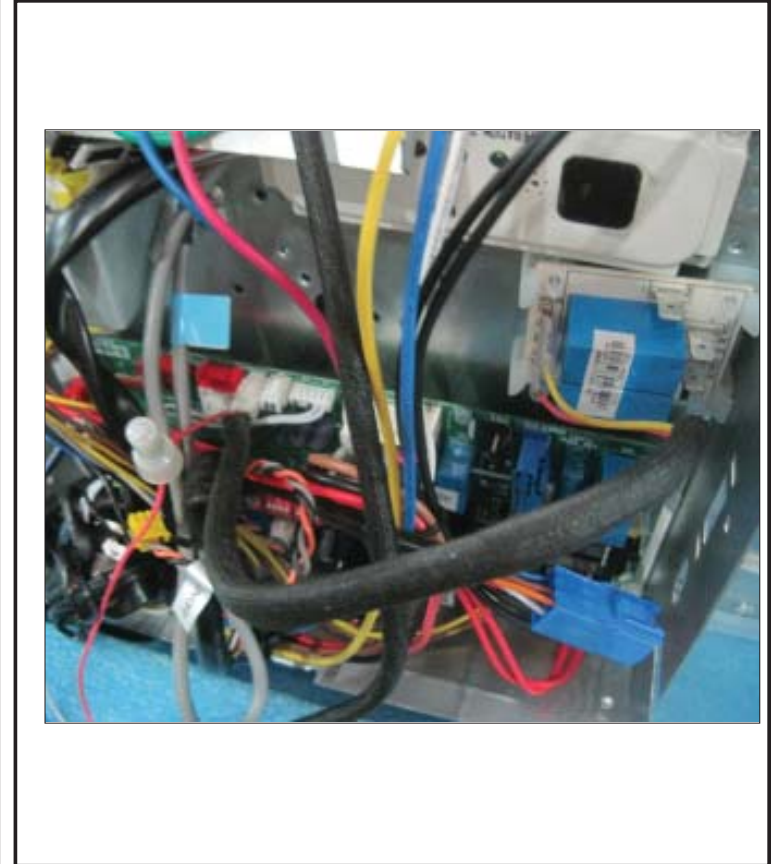
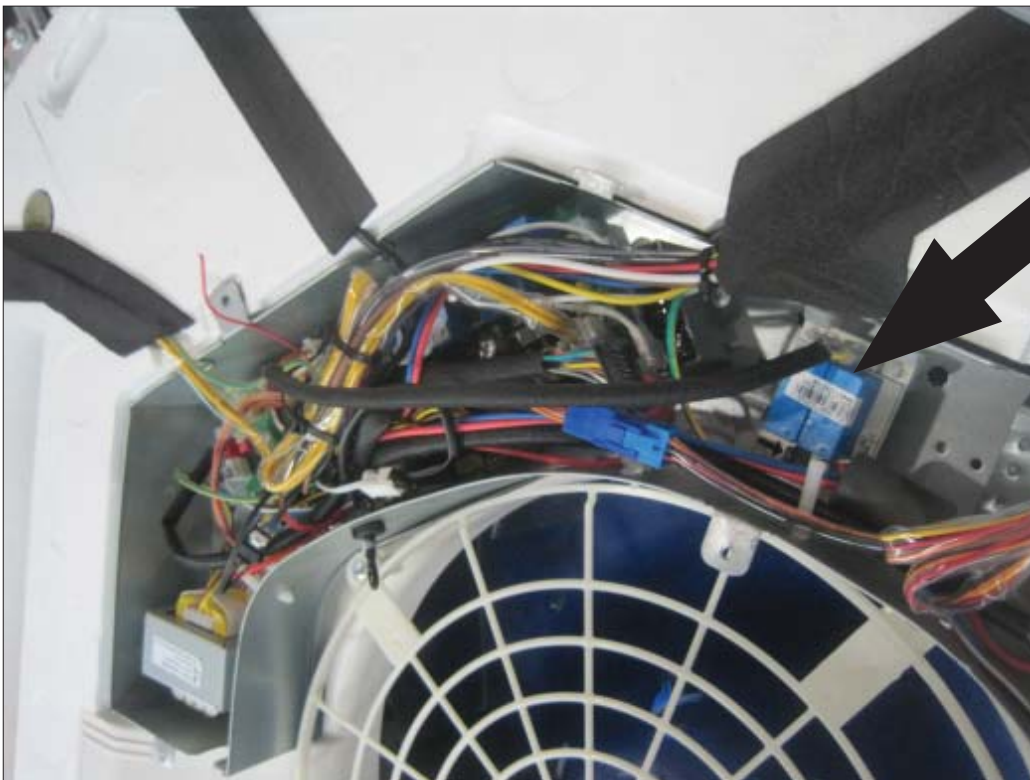


Figure 5. Installation Completed

V33 Cassette

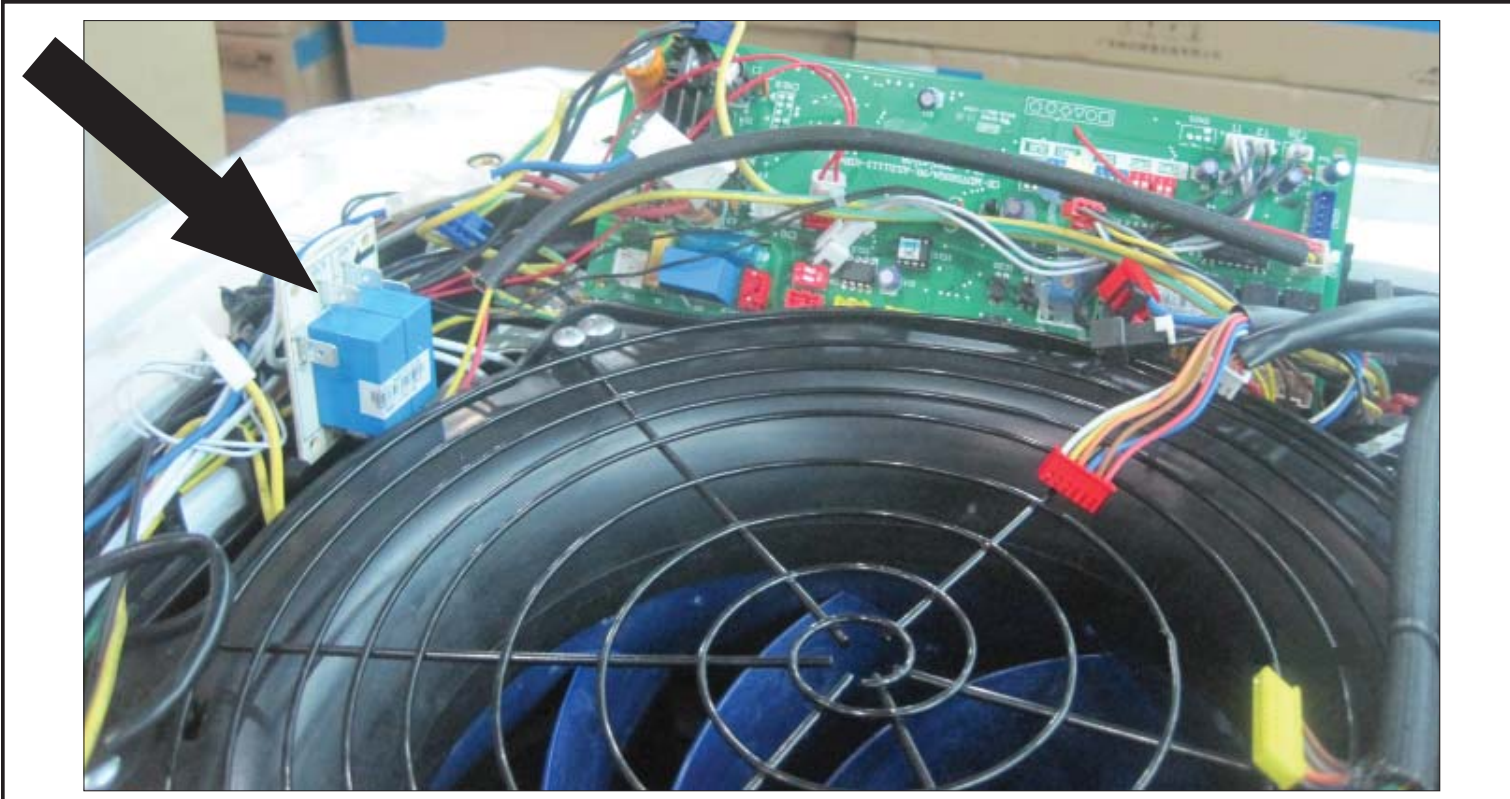


The auxiliary heat control mounting location is located in the control box on the opposite side from the transformer.

NOTE- Removal of indoor unit main board is required for connection.

Figure 6. V33 Cassette Installation

V22 Compact Cassette



The auxiliary heat control mounting location is located between the blower fan housing and the control box edge.

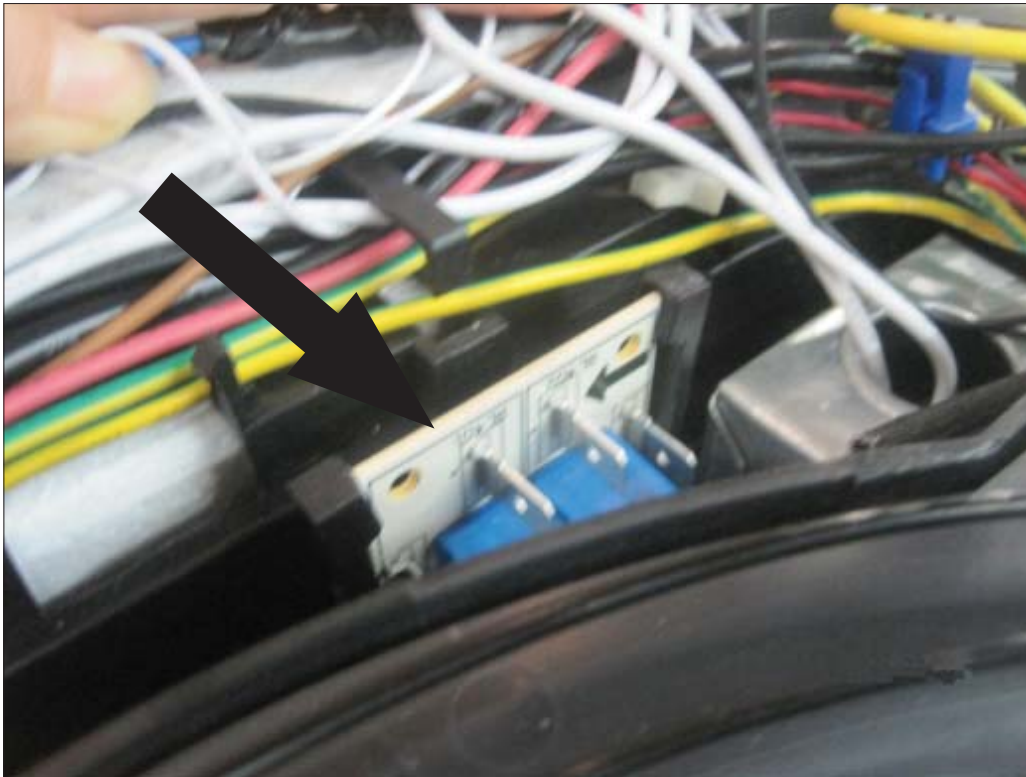
NOTE- Removal of indoor unit main board is required for connection.

Partial installation shown.

1. Open clip.
2. Slide auxiliary heat control into slot.
3. Close clip.

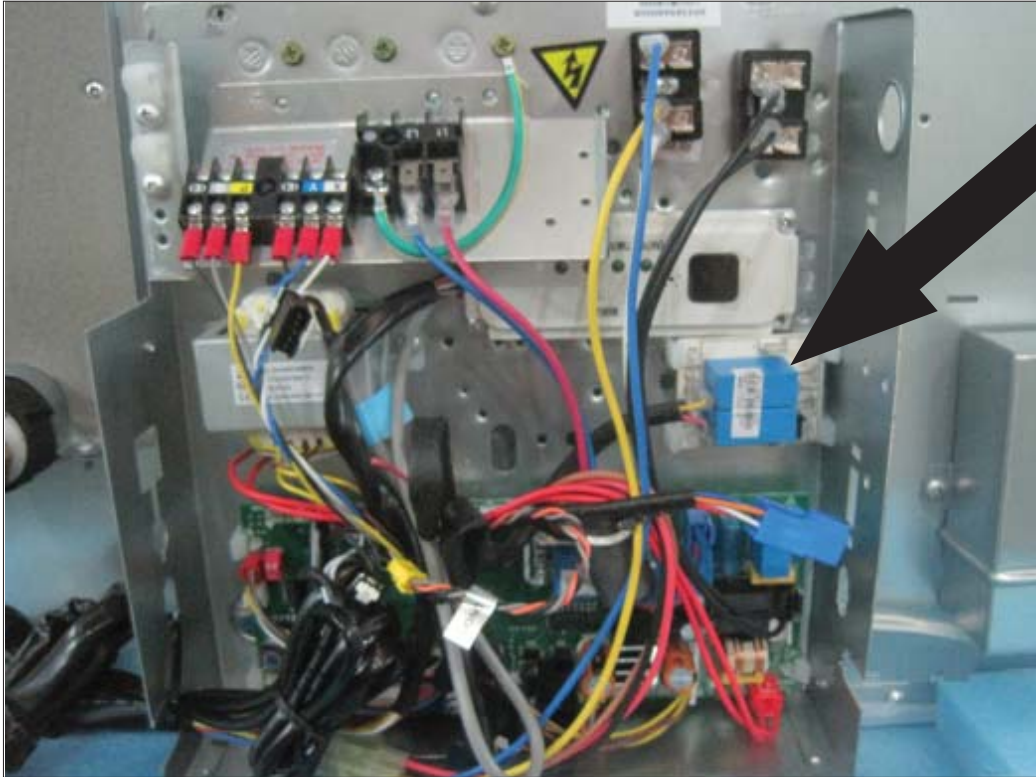
Figure 7. V22 Compact Cassette Installation Location

V22 Compact Cassette Cont.



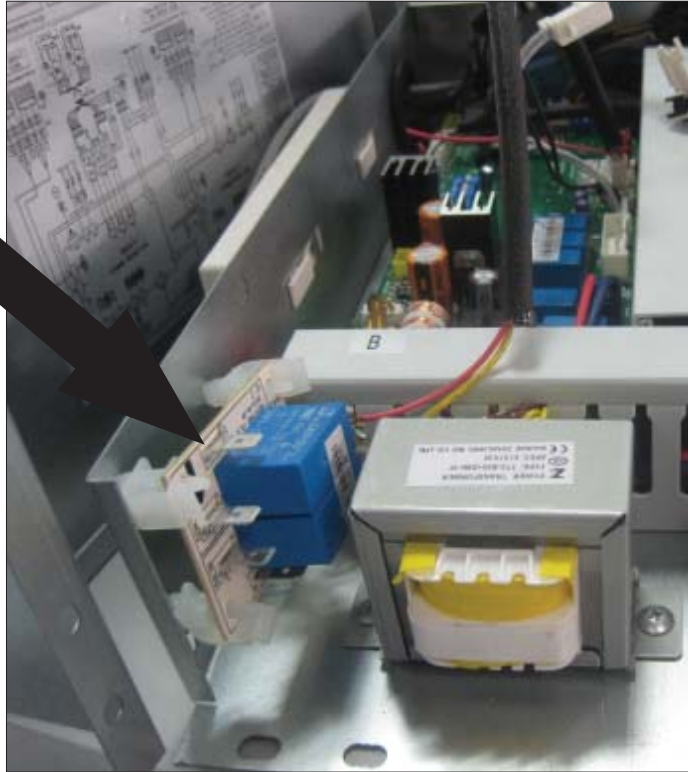
Complete installation shown.

Figure 8. V22 Compact Cassette Installation Complete



The auxiliary heat control mounting location is located below and to the right side of the LED display in the control box.

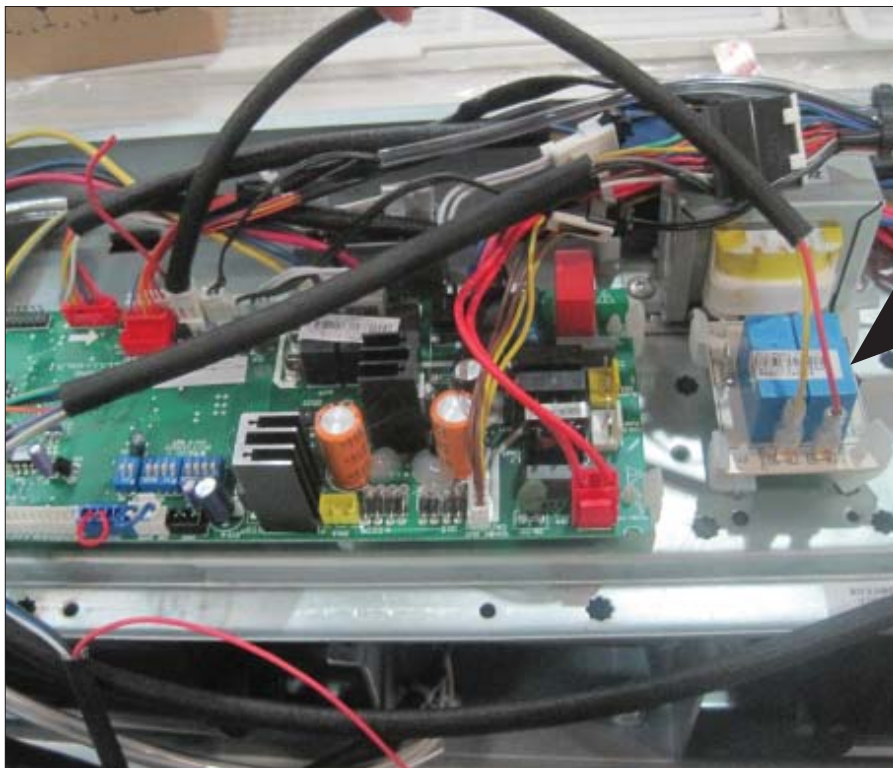
Figure 9. VHIA024-054 Ducted Installation Complete



The auxiliary heat control mounting location is located next to the transformer in the control box.

Figure 10. VHIA072-096 Ducted Installation Complete

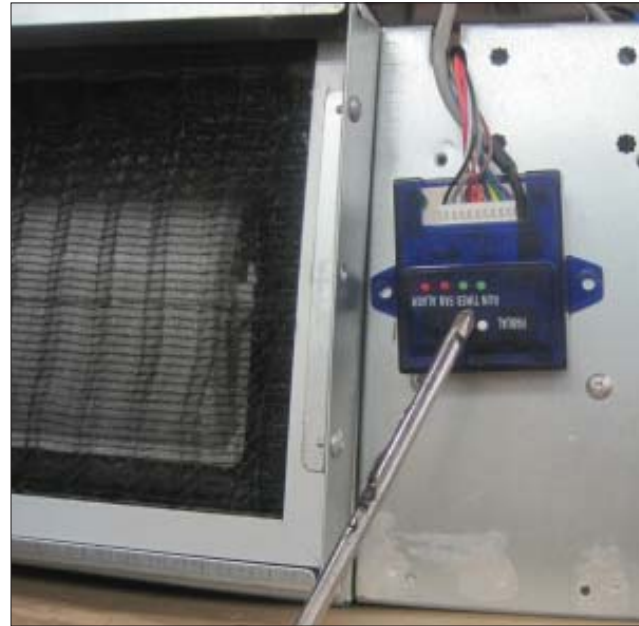
VCFA Ceiling/Floor Mount



The auxiliary heat control mounting location is located next to the transformer in the control box.

Figure 11. VCFA Ceiling/Floor Mount Installation Complete

VMDA Ducted (All Capacities)



1. Remove the LED display from its location within the control box. The holes that are exposed when the LED display is removed will be used to install the heat control.
2. Install the LED display on the outside of the control box as shown.

Figure 12. Relocate LED Display



The auxiliary heat control mounting location is located next to the control wiring terminal in the control box.

Figure 13. VMDA Ducted VMDA07-018

VMDA Ducted VMDA024-048



The auxiliary heat control mounting location is located next to the power wiring terminals in the control box.

Figure 14. VMDA Ducted VMDA024-048

VWMA Wallmount

NOTE- Removal of indoor unit main board is required for connection.

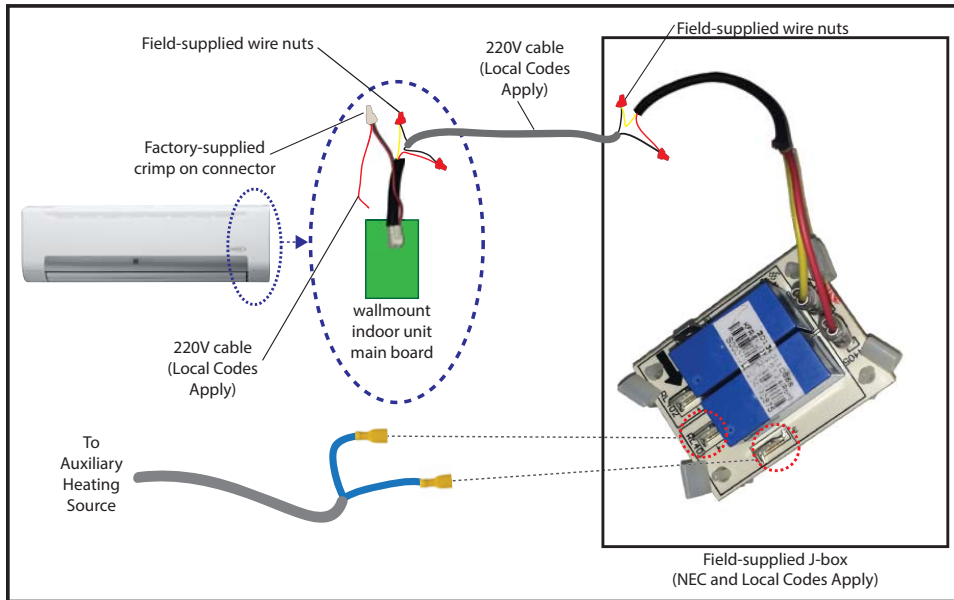
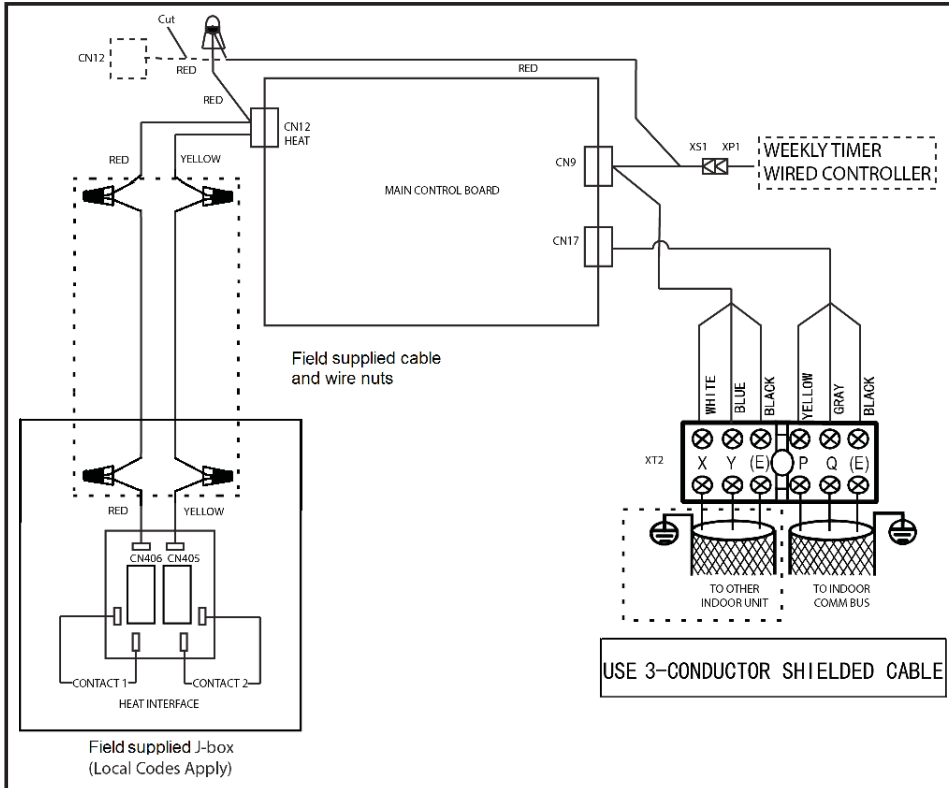


Figure 15. Wallmounted Installation

Wallmounted indoor unit models require the auxiliary heat control to be installed outside of the unit cabinet. All 220V wiring must confirm to NEC

1. Mount the auxiliary heat control inside of an electrical J-box in a location near the indoor unit.
2. Turn off power to the indoor unit.
3. Remove the phillips-head screws securing the indoor unit control box cover.
4. Locate the indoor unit main board, CN labeled "HEAT".
5. Unplug the connection and use wire cutters to cut the red wire, leave enough wire on connection end to allow for connection to the auxiliary heat wiring harness. See figure 4.
6. Cut the auxiliary heat control wiring harness at the mid point of the wires. See figure 15.
7. Connect two ends of extended wires to 220V cable.
8. Use the provided crimp on connector and crimpers to connect the auxiliary heat wiring harness red wire to the connection-end red wire, and ensure the connections are secure.
9. Restore plug connection to CN HEAT.
10. Connect to the auxiliary heat source using two of the four spade terminals located on the heat control. Use one of the terminals located across from the indoor unit connection side of the heat control, and use the side terminal nearest to that one. See figure 15.
11. Use phillips-head screws to secure indoor unit electrical control box cover.
12. Restore power to the unit.

VWMA Wallmount Cont.



1. Follow this schematic.

Figure 16. Wiring Schematic VWMA