

Note:

Power entry connections must be made by a licensed electrician only. Installation must be in accordance with the National Electrical Code and Local Codes.

- Circuits must be wired with #12AWG wire utilizing #10AWG wire for common neutrals fused at 15 amperes. No more than ten Duplex receptacles per branch circuit.
- Trade size 3/4" liquidtite conduit, fittings and wire are not supplied.
- Liquidtite conduit must not exceed 18" in length and be hard-wired at both ends.
- Power entry is compatible with 36", 42", 48" and 60" wide panels only.
- Power supply box is right-handed from the factory.

Figure A

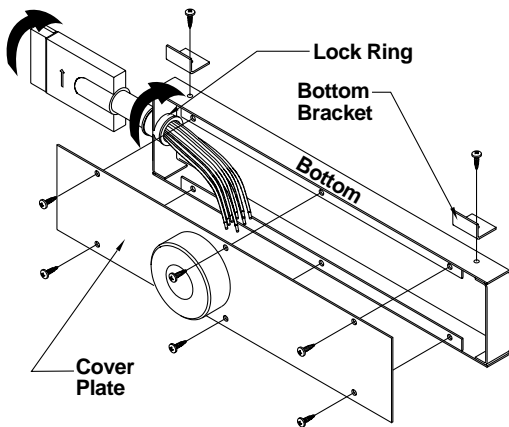
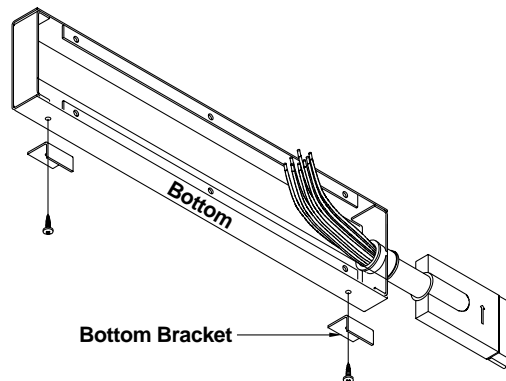


Figure B



- 1** To change the direction of the plug, remove the six screws in the cover plate (Figure A).
- 2** Remove the two screws in the bottom brackets (Figure A).
- 3** Loosen lock ring and rotate plug 1/2 turn, tighten lock ring (Figure A).

- 4** Turn box over and reinstall the bottom brackets (Figure B).

Note:

It is suggested that the AEF2 power supply box be attached to the AED Distribution Assembly before installing the panel. This will allow much easier access to the four screws which hold the two box retaining brackets.

Cetra®

Assembly Instructions

New York Floor Power Entry (AEF2) Installation

Recommended Tools

- 2 3/4" Diameter Chassis Punch
- Variable Speed Drill with Torque Option
- Phillips Bit

Package Contents Qty.

- New York Floor Power Entry Box (AEF2) _____ 1
- #6-20 x 1/2" Phillips Flat Head Screws _____ 6
- #6-20 x 1/2" Phillips Pan Head Screws _____ 4
- Pan Head Screws "U" Brackets _____ 6



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Assembly Instructions

New York Floor Power Entry (AEF2) Installation

5 Position the power supply box on top of the AED with the connector pointing toward the next powered panel (Figure C).

Note:

Bottom brackets must be inside wireway trough when AED is attached to panel.

6 Using 2 “U” brackets and four Phillips pan head #6-20 x 1/2” screws, secure box to metal channel of AED Distribution Assembly (Figure C).

7 Install 3/4” trade size liquidtite ELL or straight connector (not supplied) to box cover bushing and run 8 #12 AWG color coded wires (not supplied) through cover and into box.

8 Stagger wire lengths so as to fit in shallow depth box and follow color code. Connect with approved wire nuts (not supplied). Be sure to connect box and cover ground leads to solid green lead wire. Green/yellow wire is used for an isolated circuit (Figure D).

9 Install box cover with six Phillips flat head #6-20 x 1/2” screws provided.

Figure C

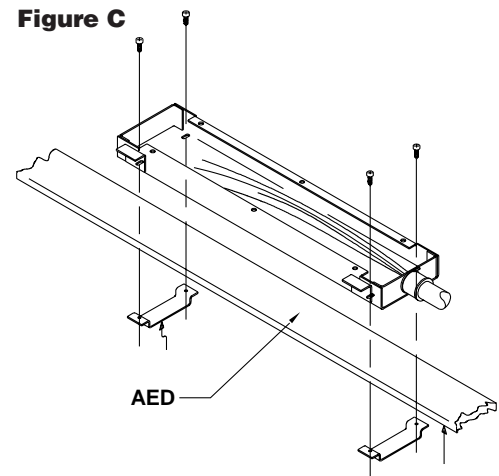


Figure D

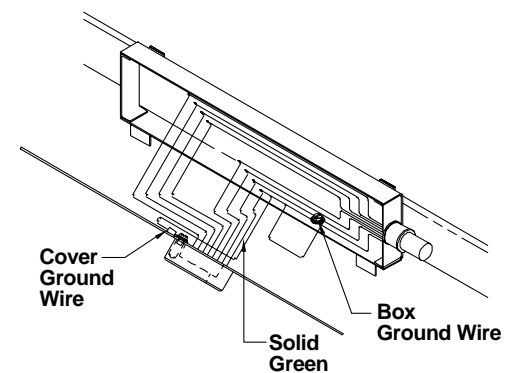
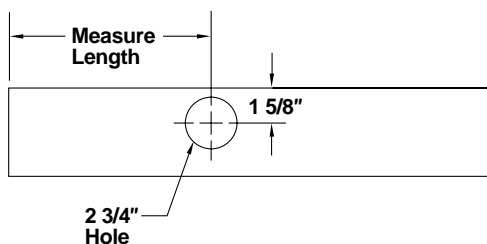
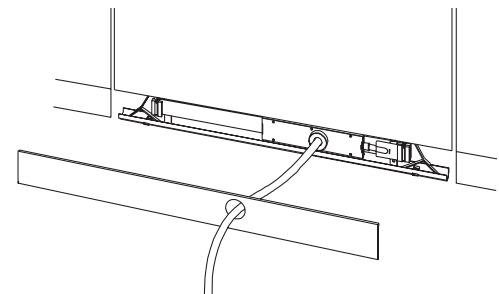


Figure E



10 Hole in wireway cover must be field installed. Measure length from next cover to center of bushing and mark. Measure down 1 5/8” from top edge of wireway cover and cut a 2 3/4” diameter hole. Recommended method is to use chassis punch for a clean hole (Figure E).

Figure F



11 Liquidtite conduit must be fed through opening in wireway cover before wires are connected to building power supply (Figure F).

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3 & 1 Configuration

Receptacles 1, 2, 3, and 4.

2 & 1 Configuration

Receptacles 1, 3, and 4.

Note:

Receptacle number 5 can not be used in these configurations.

The Cetra standard eight-wire electrical system provides up to four circuits using four hot wires, two increased size neutrals, a system ground and an isolated ground for the fourth circuit.

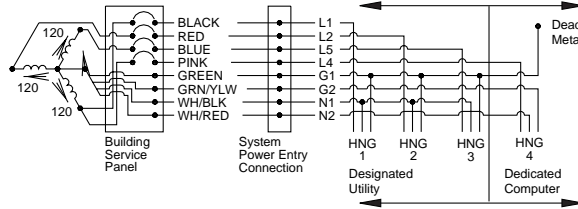
Ideally, a four-wire, WYE, 208 volt service provides the best utilization. Circuits 1, 2, and 3 can be wired for general use. Circuit 4 which has its own increased size neutral and an isolated ground, can be reserved for data and communications requirements.

Other power supplies such as 120/240 volt delta, 120/240 volt open delta and 120/240 volt single phase will use circuits 1, 3, and 4 with L2 (red) circuit taped off.

Single phase 120 volt, two-wire systems will use L1 (black) paired with N1 (white/black) and L4 (pink) paired with N2 (white/red). L2 (red) and L3 (blue) should not be used.

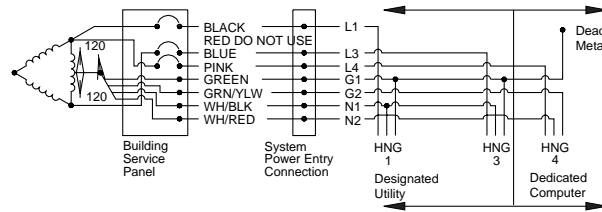
3 & 1 Configuration

120/208V WYE 3 Phase 4 Wire
4 Circuit, 20 AMP, Isolated Ground



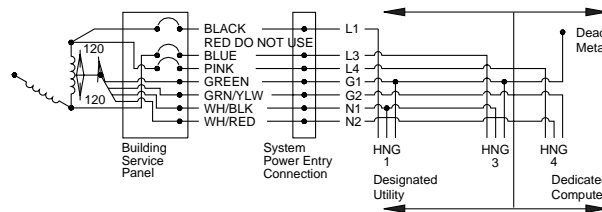
2 & 1 Configuration

120/240V Delta Single Phase
3 Circuit, 20 AMP, Isolated Ground



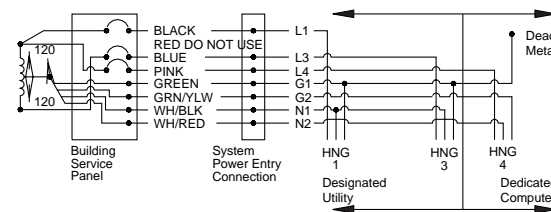
2 & 1 Configuration

120/240V Open Delta Single Phase
3 Circuit, 20 AMP, Isolated Ground



2 & 1 Configuration

120/240V Single Phase
3 Circuit, 20 AMP, Isolated Ground



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Assembly Instructions

**Standard
8-Wire
Schematic
3 & 1
Configuration
and 2 & 1
Configuration**

Proper product installation, in accordance with these instructions, is the responsibility of the installing agent. If you have any questions concerning these instructions, please call Kimball Customer Service.

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Assembly Instructions

Standard 8-Wire Schematic 2 & 2 Configuration and 1 & 2 Configuration

2 & 2 Configuration
Receptacles 1, 2, 4, and 5.

1 & 2 Configuration
Receptacles 1, 4, and 5.

Note:
Receptacle number 3 can not be used in these configurations.

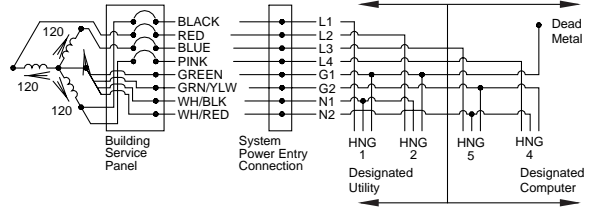
The Cetra standard eight-wire electrical system provides up to four circuits using four hot wires, two increased size neutrals, a system ground and an isolated ground for circuits four and five.

Ideally, a four-wire, WYE, 208 volt service provides the best utilization. Circuits 1 & 2 can be wired for general use. Circuits 4 & 5 can be reserved for data and communications requirements.

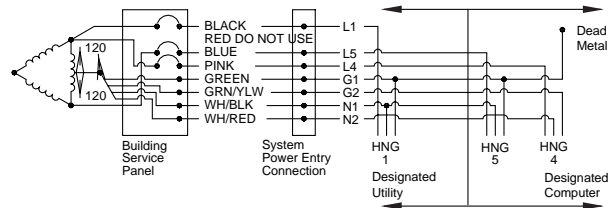
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Single phase 120 volt, two-wire systems will use L1 (black) paired with N1 (white/black) and L4 (pink) paired with N2 (white/red). L2 (red) and L5 (blue) should not be used.

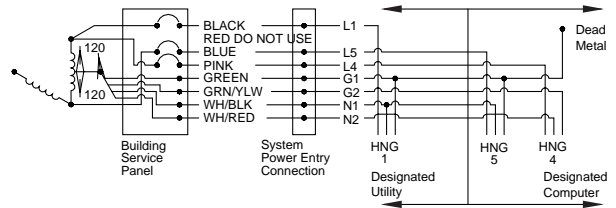
2 & 2 Configuration
120/208V WYE 3 Phase 4 Wire
4 Circuit, 20 AMP, Isolated Ground



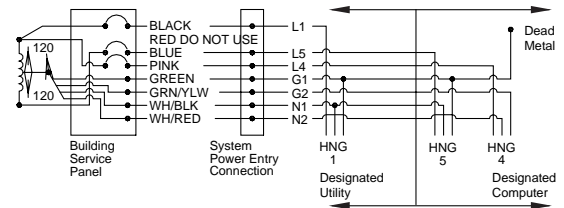
1 & 2 Configuration
120/240V Delta Single Phase
3 Circuit, 20 AMP, Isolated Ground



1 & 2 Configuration
120/240V Open Delta Single Phase
3 Circuit, 20 AMP, Isolated Ground



1 & 2 Configuration
120/240V Single Phase
3 Circuit, 20 AMP, Isolated Ground



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