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NFS2-3030/NCA-2 and FCPS-24S6/8 Product Installation Document for Marine Applications

PN 53128:A 9/05/2007 07-478

The installations described in this document make use of the contents of Hardware Kit p/n 90415. This kit contains the following items.

- Six ferrite beads, p/n 29146
- Two 8-32 x 0.5 long screws, p/n 38021
- Filter, p/n 29229
- Chassis-to-ground cable, p/n 71073
- Five 10-22 AWG wire nuts, p/n 36055

1 NFS2-3030 and NCA-2 Installation

1.1 Install Line Filter

Install the line filter as described below.

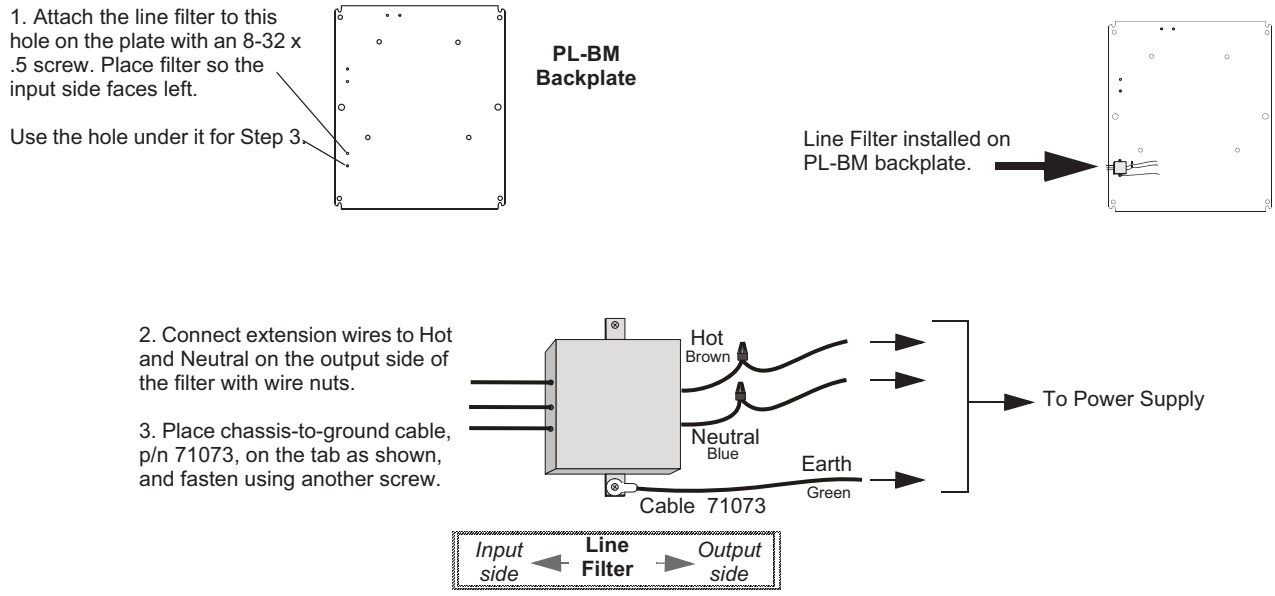


Figure 1 Install Line Filter

1.2 Create Knockouts

Create knockouts in the left walls of the CAB-B4 and CAB-BM as indicated.

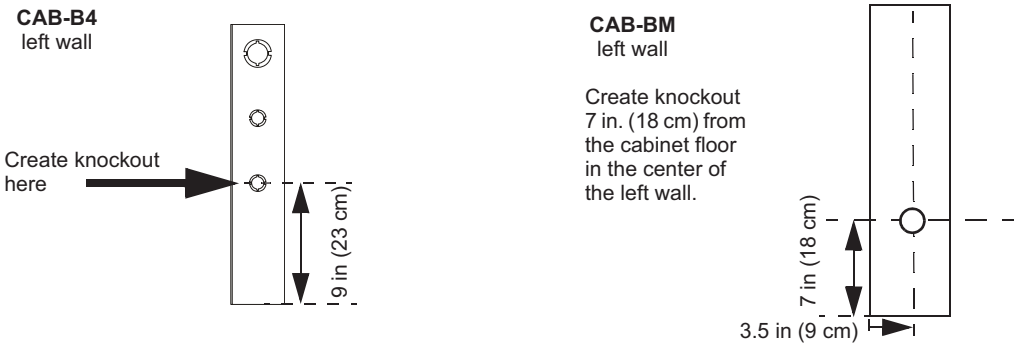


Figure 2 Create Knockouts

Make any other knockouts necessary for the panel installation.

1.3 Install Doorless CAB-B4 and Backplate in CAB-BM

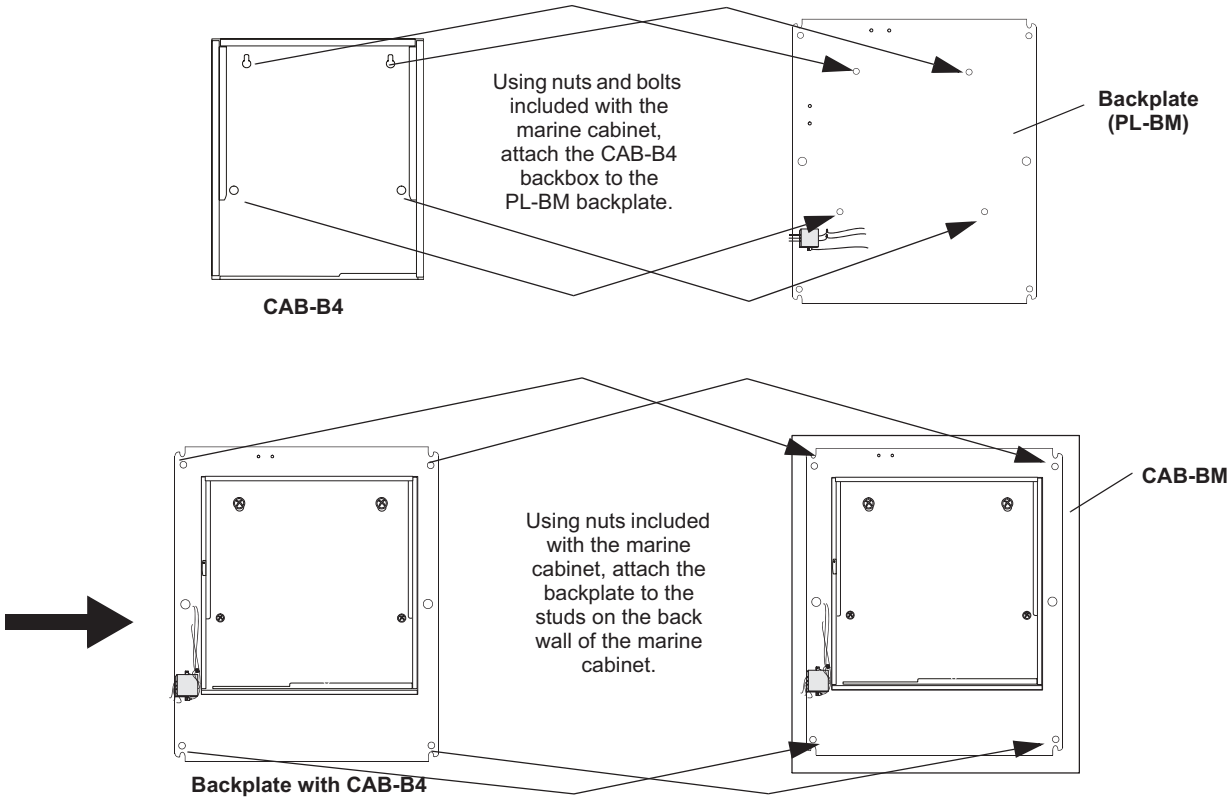


Figure 3 Install CAB-B4

1.4 Install NFS2-3030/NCA-2

Install the panel and power supply into the CAB-B4 cabinet according to the installation manuals.

1.5 Ferrite Bead Applications

Ferrite beads are applied as shown in the following illustrations. The beads must be contained within the CAB-B4 cabinet.

1.5.1 On Power Harness

Wrap a ferrite bead once with the power harness, and connect.

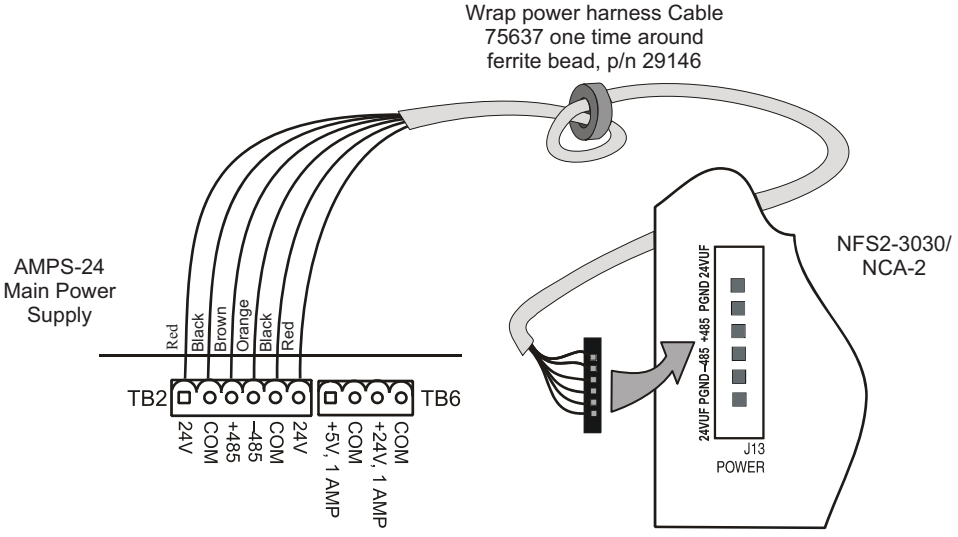


Figure 4 Ferrite Bead on Power Harness

1.5.2 On SLC and Network Connections

Wrap a ferrite bead once with the SLC or network wires, as shown.

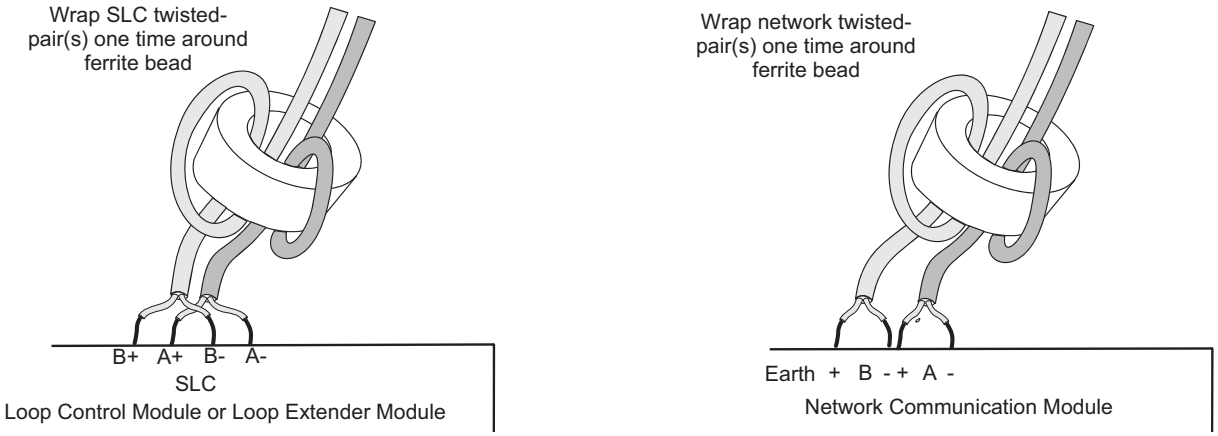


Figure 5 Ferrite Bead on SLC and Network Connectors

1.5.3 On Auxiliary Power Connection

Wrap a ferrite bead once with 24V auxiliary power output wires of the CPU's TB6.

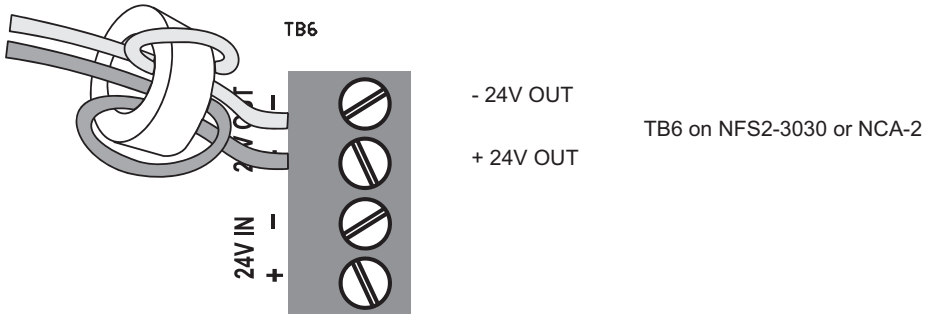


Figure 6 Ferrite Bead on Auxiliary Power Connection

1.6 Power Cable

Bring the Power Cable in through the knockout created in the left wall of the CAB-BM cabinet, using an appropriate bushing. (See Section 1.2.) Use wire nuts to attach cable wires to the input side of the line filter

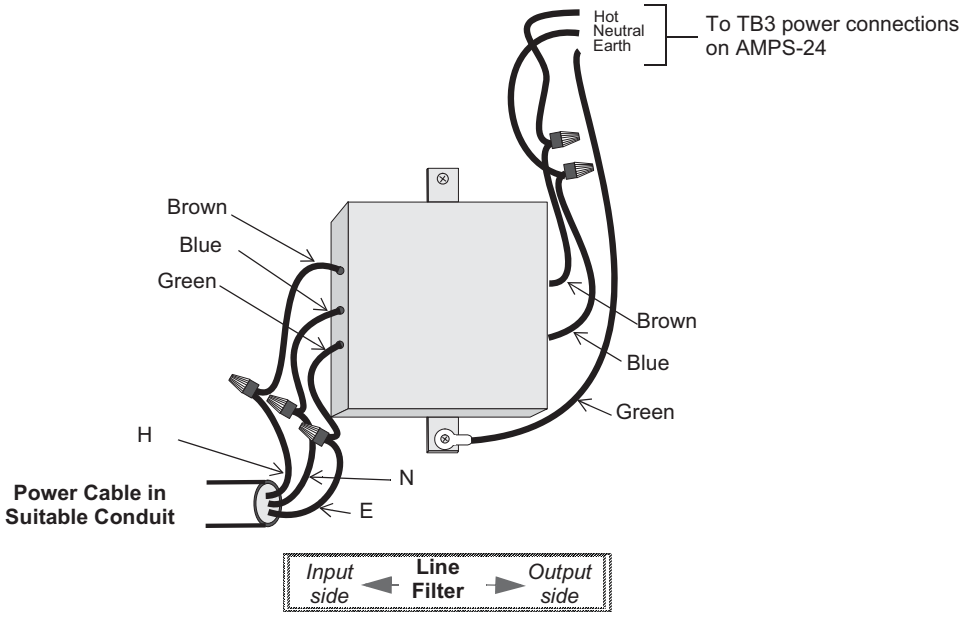


Figure 7 Power Cable and Line Filter

Bring the filter's outputs into the CAB-B4 and connect them to Hot, Neutral, and Earth on the AMPS-24.

Note:
All wires should enter and exit the cabinet in suitable conduit.

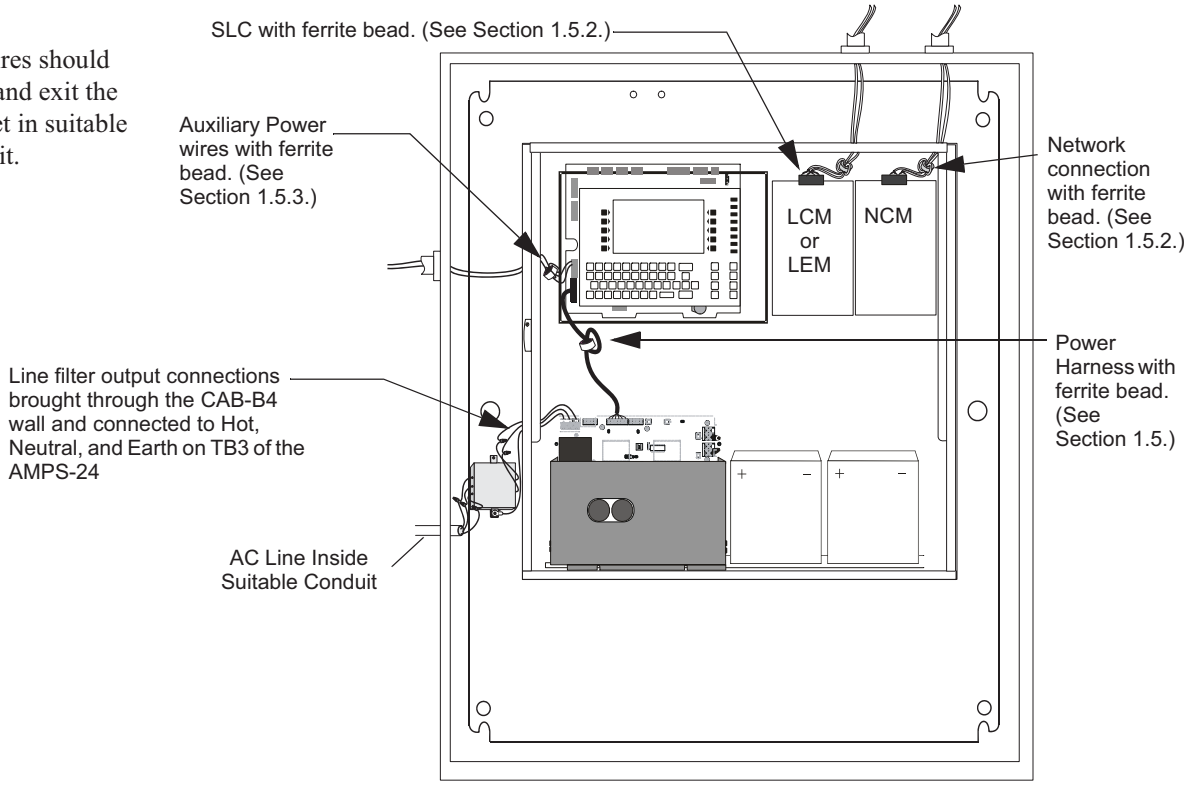


Figure 8 Panel in CAB-BM

Refer to the specific panel or power supply manual for the remaining panel and power supply wiring.

2 FCPS-24S6/8 Installation

The FCPS-24S6/8 should be mounted in its cabinet to the backplate, along with the ferrite beads and line filter included in Kit p/n 90415 . That backplate can then be mounted into the marine enclosure.

2.1 Install Line Filter

Install AC line filter to the backplate.

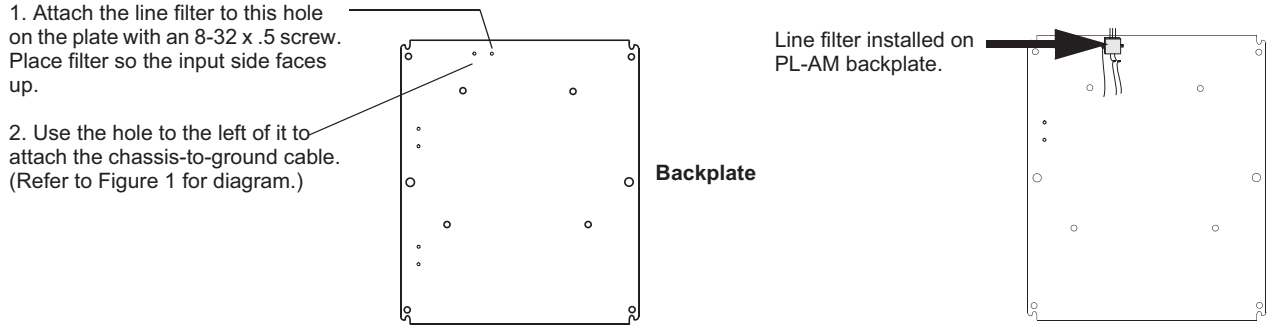


Figure 9 Install Line Filter

2.2 Create Knockouts

Create two knockouts in the top wall of the marine cabinet and two knockouts in the top wall of the FCPS-24S6/8 cabinet. One set of knockouts is for the AC line, the other is for the output wires.

2.3 Install FCPS-24S6/8 and Backplate in Marine Cabinet

Mount the FCPS-24S6/8 in its cabinet to the backplate. Then attach the cabinet/backplate assembly to the back wall of the marine cabinet.

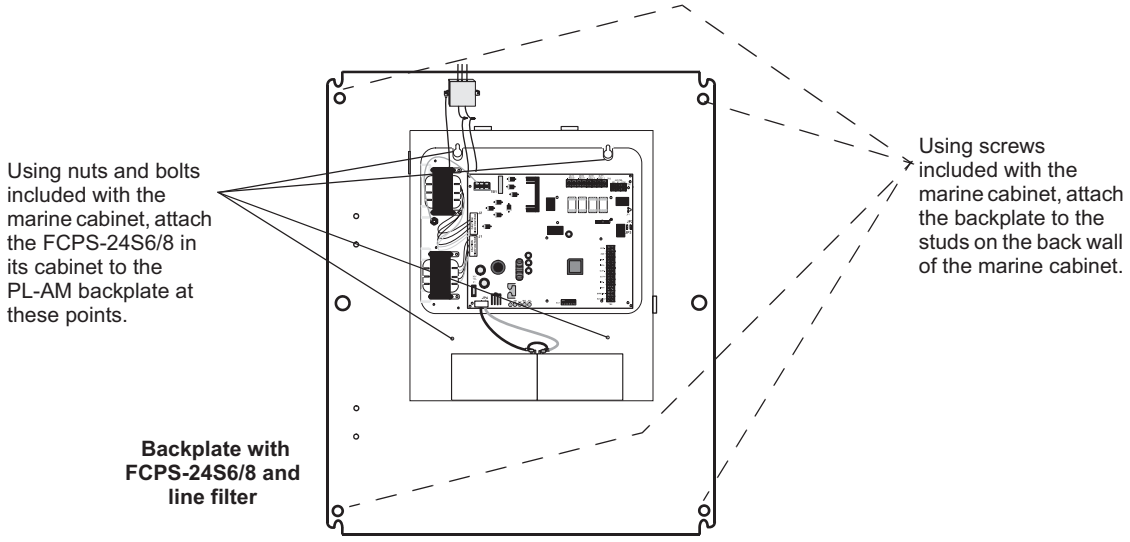


Figure 10 Install FCPS-24S6/8

2.4 Ferrite Bead Applications

Ferrite beads are applied on NAC outputs. Refer to Figure 6 for illustration. Each NAC output wire pair should wrap once around a ferrite bead.

2.5 Power Cable

Bring the AC power cable in through the knockouts created on the top wall of the marine cabinet. Use wire nuts to attach cable wires to the input side of the line filter. (Refer to Figure 7 for power cable wiring.)

Bring the filter's outputs into the FCPS-24S6/8 cabinet and connect them to Hot, Neutral and Earth on the FCPS-24S6/8. (Refer to Figure 1 and Figure 7 for line filter wiring.)

Wrap the NAC OUT wires of TB2 on the FCPS-24S6/8 once around a ferrite bead as shown in Figure 6.

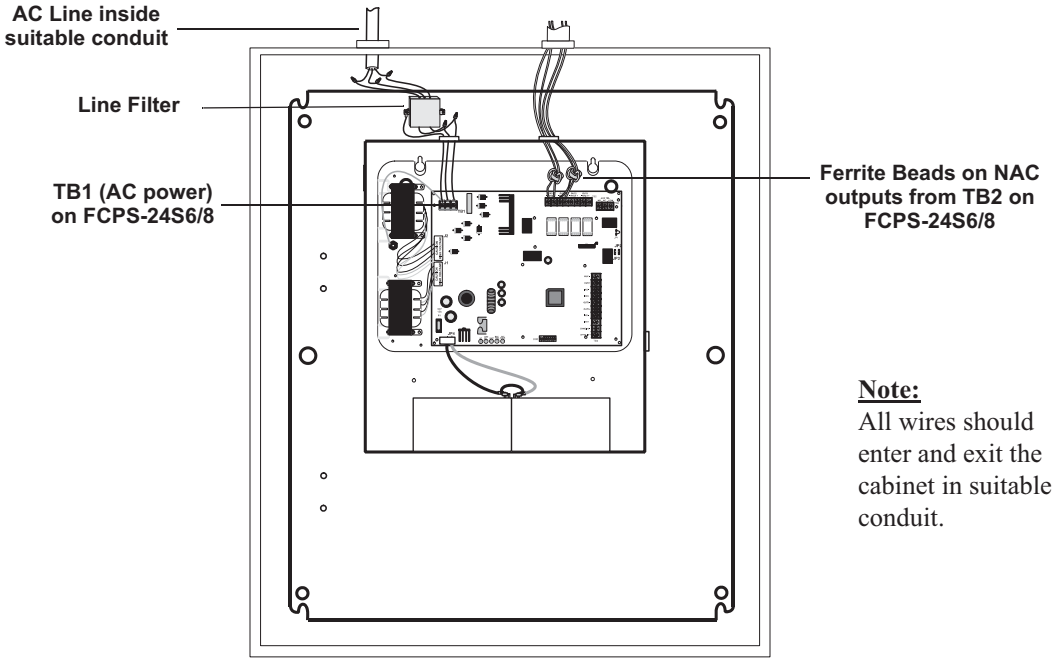


Figure 11 FCPS-24S6/8 in CAB-AM