

Installation Instructions

Model PTB

Power Termination Board

INTRODUCTION

The Model PTB Power Termination Board from Siemens Industry, Inc., shown in Figure 1 filters the power from the incoming AC mains and distributes it to the PSC-12 power supply and the optional PSX-12 power supply extender.

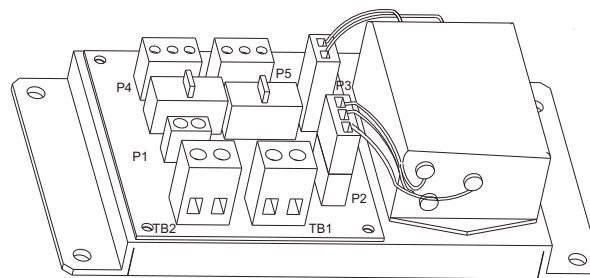


Figure 1
PTB Power Termination Board

Terminal Blocks

The terminal blocks of the PTB are defined as follows:

- TB1 AC Main Input
- TB2 AC Output To Next PTB



The main AC power line must be turned OFF prior to installation.

Connectors

The connectors of the PTB are defined as follows:

- P1 Laptop power connection (AC adapter, P/N 500-633992 required).
- P2 Factory connection.
- P3 Factory connection.
- P4 To PSC-12 or PSX-12
- P5 To PSC-12 or PSX-12



Always apply AC power first followed by the battery.

The installation kit has the following components:

INSTALLATION KIT COMPONENTS

PSC-12 / PTB Kit	PSX-12	PTB (Only)
Four #10-32 1/2" Phillips Screws (for PSC-12)	Four #10-32 1/2" Phillips Screws (for PSX-12)	
Four #10 Hex Nuts (for PTB)		Four #10 Hex Nuts
AC Wire Assembly, P/N 600-134264	AC Wire Assembly, P/N 600-134264	
Battery Wire Assembly, P/N 465-633943	Battery Wire Assembly, P/N 465-633943	
Battery Cable Conversion Kit P/N 545-634222	60-pin Flat Ribbon Cable, P/N 555-133036	
Anti-Interference Capacitor P/N A5Q00038368	Anti-Interference Capacitor P/N A5Q00038368	

INSTALLATION

Refer to Figure 2.



Only one PTB can be mounted in a CAB-1; one or two PTBs can be mounted in a CAB-2BB/-RB or CAB-3BB/-RB.

1. Place the four 1/4" holes on the PTB Power Termination Board over the threaded studs in the desired location in the bottom portion of the CAB enclosure.
2. Secure the PTB in place with the four #10 hex nuts supplied.

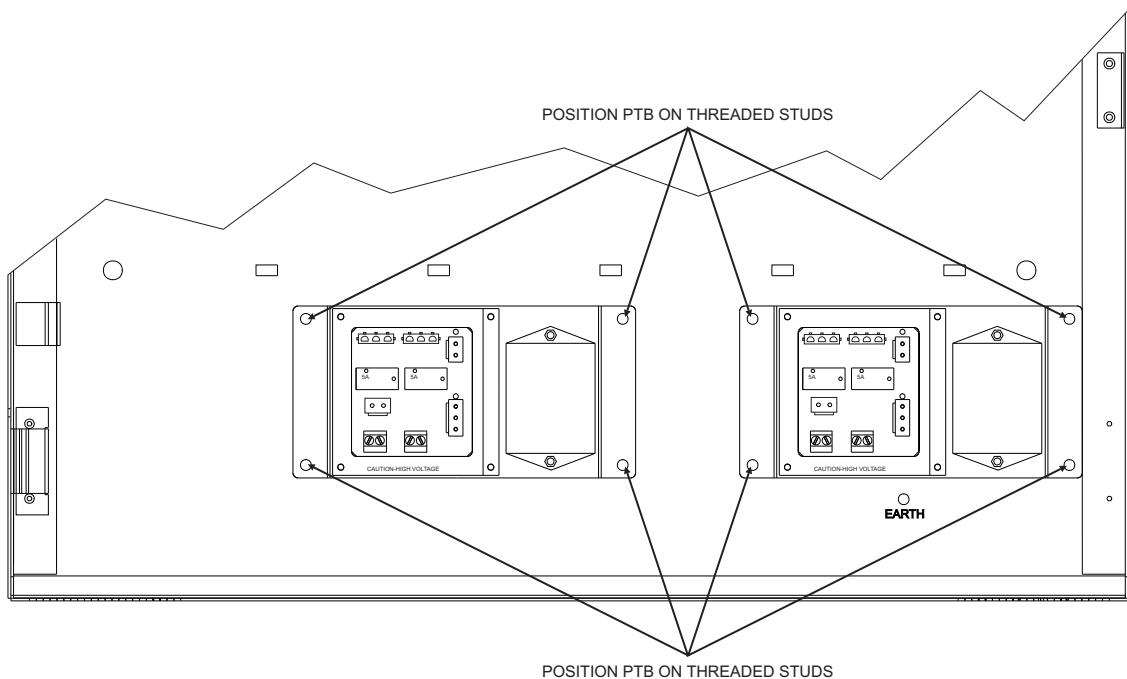


Figure 2
Mounting The PTB In CAB-2BB/-RB Or CAB-3BB/-RB

WIRING



Disconnect BATTERY and AC prior to working on equipment.

Refer to Figure 3.

Wire in accordance with local codes and Article 760 of the NEC, NFPA latest edition. In compliance with NEC, all power limited fire protective signaling conductors must be separated a minimum of a 1/4" from all of the following wiring located within a control panel:

- Electric light
- Power
- Class 1 or non-power limited fire protective signaling conductor

Refer to the CAB1 Installation Instructions, P/N 315-033007, or the CAB2-BB/-RB and CAB3-BB/-RB Installation Instructions, P/N 315-033009, as applicable for wiring requirements to comply with NEC codes.

1. Connect the AC mains to the PTB, TB1, as follows:

PRIMARY POWER CONNECTIONS		
	120VAC	240VAC
TB1-1	Hot	Hot
TB1-2	Neutral	Neutral

2. Connect the Green (earth ground) wire from the AC mains to the earth ground lug on the enclosure (chassis).



You must install the PSC-12/PSX-12 in the row and position directly above the PTB that connects to it.

4. The 12-inch cable connects the PTB to the PSC-12/PSX-12. Plug one end of this AC assembly cable into P12 on the PSC-12/PSX-12. Plug the other end of the cable into P4 or P5 on the PTB.
5. When two PTBs are used in the same enclosure (CAB2-BB/-RB or CAB3-BB/-RB only), wire as shown in Figure 3 using 14 AWG minimum, 10 AWG maximum gauge wire.
6. Tighten the screw terminals of TB1 and gently pull AC connection to verify that the AC line is properly connected to the PTB.

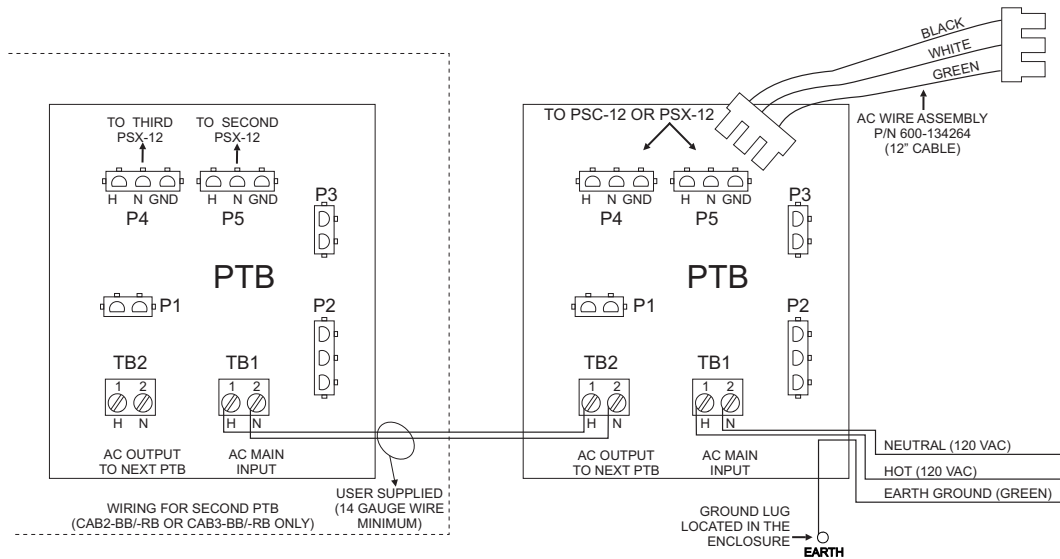


Figure 3
PTB Wiring



The green earth ground wire from the AC Mains **MUST** be connected to the “EARTH” ground lug located in the enclosure directly below where the PTB is mounted.

P1 provides the same AC voltage as the input mains on TB1. Care must be taken when using this output because a short circuit at this terminal can shut down the AC line connection of the fire alarm panel.

ELECTRICAL RATINGS

AC MAINS RATINGS (EACH PSC-12/PSX-12)	
120VAC @ 50/60Hz	3.5A Max.
220VAC @ 50/60Hz	2.5A Max.
240VAC @ 50/60Hz	2.0A Max.

For CE applications in Cerberus E100 systems refer to
Installation Instruction A24205-A334-B844 (English) or A24205-A334-A844 (German).