



Installation Instructions

Prolink 4-slot Power Chassis

The following terms are used throughout this document to bring attention to the presence of hazards of various risk levels, or b important information concerning use of the product

DANGER!!	Indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if ignored .	Caution	Indicates the presence of a hazard that will or can cause minor personal injury or property damage if ignored .
WARNING!	Indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if ignored .	Notice	Indicates special instructions on installation, operation, or maintenance that are important but not related to personal injury hazards.

AC Connections

The 4-slot power chassis contains a built-in dedicated AC power supply that operates on either 110 or 220VAC at 50-60 Hz. The default factory setting for the voltage selector switch is 110VAC. For 220VAC power connections, please refer to the section entitled **Connecting 220VAC Power**. If for some reason the voltage selector switch is in the 220V position, adjust it according to the instructions in the section **Connecting 220VAC Power**.

Caution	It is extremely important to make sure that the voltage selector switch is positioned correctly. If 220VAC power is applied to the Prolink with the selector switch in the 110VAC position, the power supply board will be destroyed with possible injury to the installer.
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Connecting 110VAC Power

While making AC connections, please refer to the instructions that follow *figure 1*.

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1-800-777-2480

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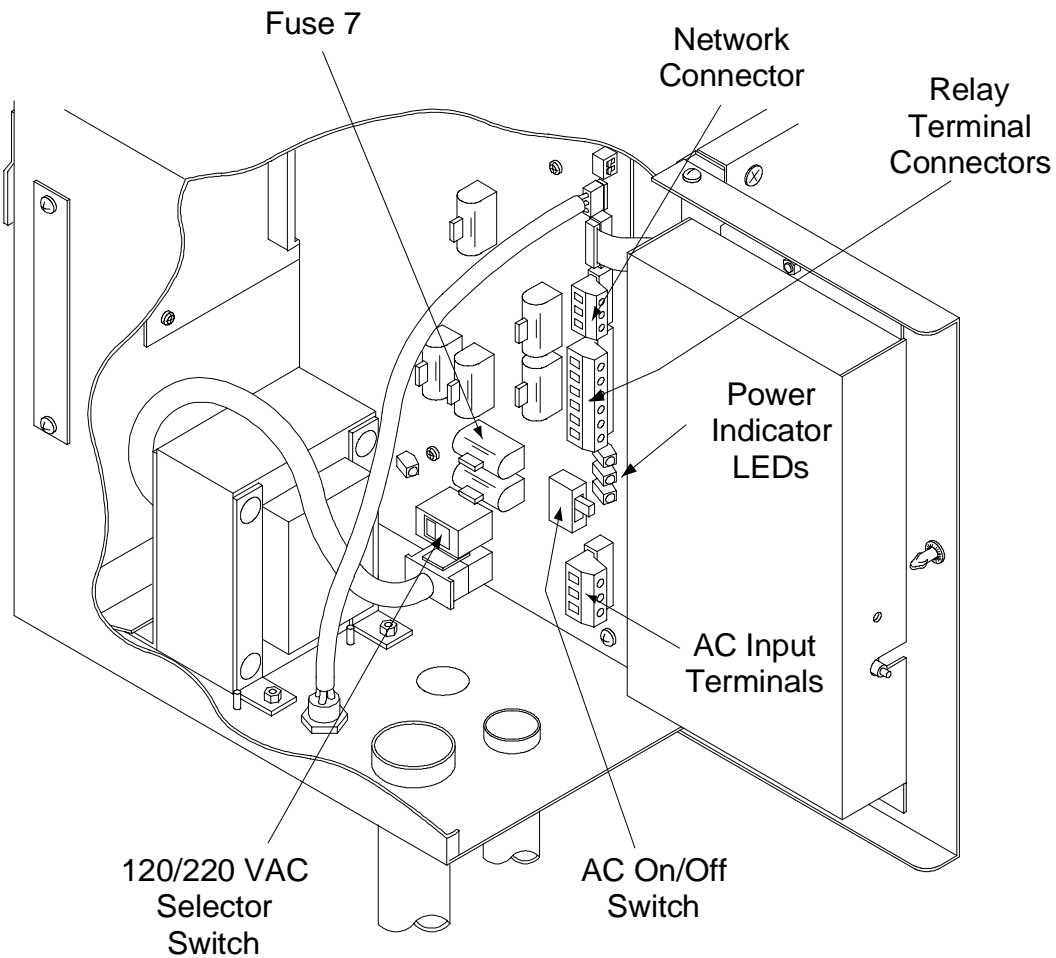


Figure 1 Cutaway of the Prolink main data chassis and detailed AC connection

WARNING!

Failure to disconnect Main Service Power to the Prolink main data chassis can cause severe personal injury, death, or substantial property damage if ignored.

Step 1: Disconnect Main Service Power.

Step 2: Make sure that the power supply circuit board AC On/Off switch is in the **OFF** position (Down). Refer to *figure 1*.

Step 3: In conduit, run a (3) conductor, minimum 16-gauge, gas and oil resistant cable from a **circuit breaker protected, dedicated isolated circuit** to the AC input terminals on the Prolink power supply circuit board. These terminals are marked on the circuit board underneath each terminal.

Step 4: Connect the appropriate wire to the **L1** terminal.

Step 5: Connect the appropriate wire to the **N** terminal.

Step 6: Connect the appropriate wire to the **GND** terminal.

Step 7: Reconnect power to the circuit dedicated to Prolink . The AC Power LED (red) should now be lit. This LED indicates that AC power is available for the power supply.

Step 8: Slide the power supply circuit board AC On/Off switch to the ON position (UP). The Power On LED (green) should now be lit. This LED indicates that the power supply and circuit board are energized.

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The third LED (yellow) should now be lit. This LED indicates that the low voltage section of the circuit board is energized. If this LED is not lit, refer to **Chapter 7: Troubleshooting Guide**.

Connecting 220VAC Power

Caution

It is extremely important to make sure that the voltage selector switch is positioned correctly. If 220VAC power is applied to the Prolink with the selector switch in the 110VAC position, the power supply board will be destroyed with possible injury to the installer.

The connections for single phase 220 VAC are the same as for 110 VAC. The only adjustment needed is to slide the voltage selector switch on the power supply circuit board to the 220 VAC position. This selector switch can be adjusted by using a small screwdriver to lever the switch from the factory default position of 110V to the 220V position. The switch must be completely positioned to one selection or the other, if the desired voltage can be seen on the switch face, the switch is correctly adjusted. See *figure 2* for location of switch.

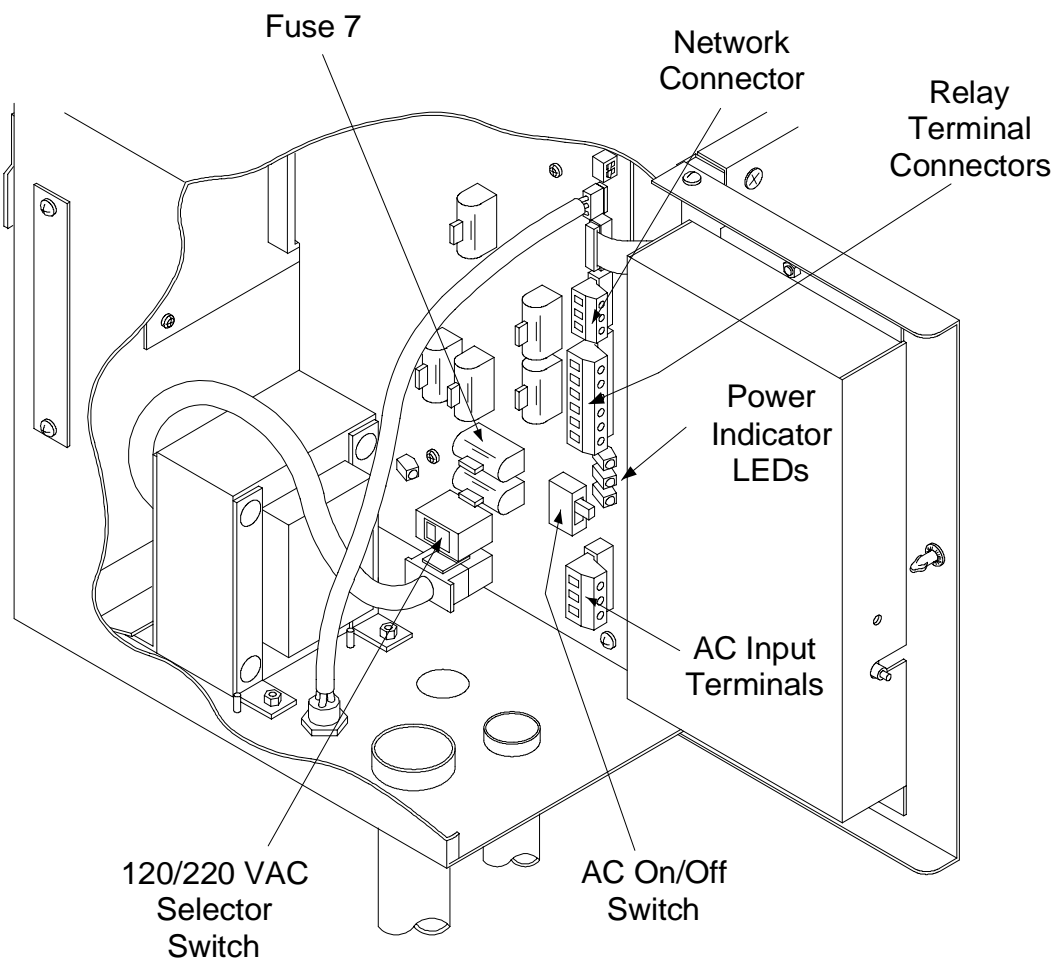


Figure 2 Cutaway of the Prolink main data chassis and detailed AC connection

WARNING!

DO NOT connect this unit to 220 VAC unless the 110/220 VAC switch is in the 220 VAC position!! Damage or Destruction of power supply circuit board and possible injury to the installer will occur.

Connection Types

There are two types of installation procedures, "Bus Connect" and "Cable Connect". Bus Connect is used when add-on chassis are being directly connected using the interlocking rail system. The Cable Connect method is used when a space or distance constraint is present. When using the Cable Connect method the maximum distance between chassis is 1000 feet (300m).

Bus Connect

The Bus Connect method consists of mounting additional interlocking mounting rails to the right of the Prolink main data chassis and hanging the 4-slot power chassis. These additional chassis are connected to the Prolink main data chassis backplane board using a backplane interconnect board.

Connecting a 4-Slot power chassis using the Bus Connect Configuration:

The following instructions should be used when installing a 4-slot power chassis.

Step 1: Disconnect power from the Prolink system.

Step 2: Remove the system inter-link cover, located on the right-hand side of the main data chassis. Refer to *figure 3*.

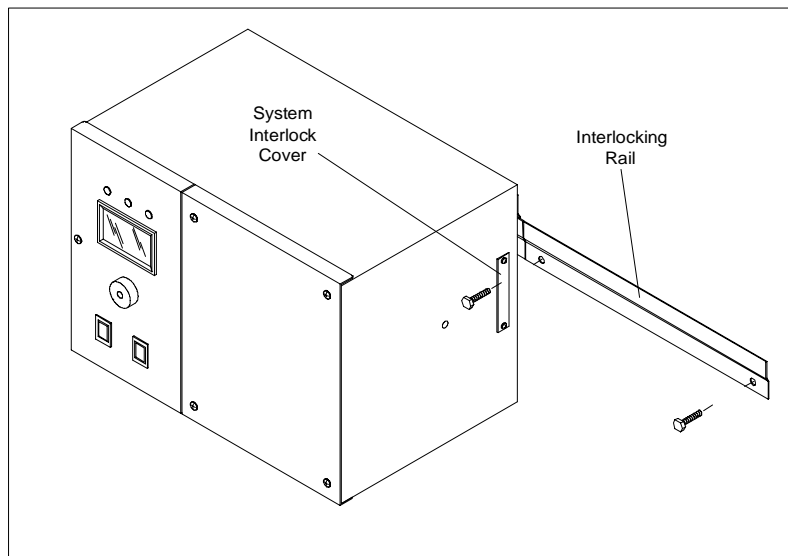


Figure 3 Removing the System Interlink cover and mounting the Interlocking Rail

Step 3: Remove the corresponding system interlink cover from the left hand side of the 4-slot expansion chassis. Open the left front cover and install the provided backplane interconnect board to the left end of the 4-slot power chassis backplane circuit board. See *figure 5*.

Step 4: Mount the provided interlocking rail end to end with the existing interlocking rail. Make sure they are both in-line and level.

Step 5: Hang the 4-slot power chassis on the second rail as shown in *figure 4*.

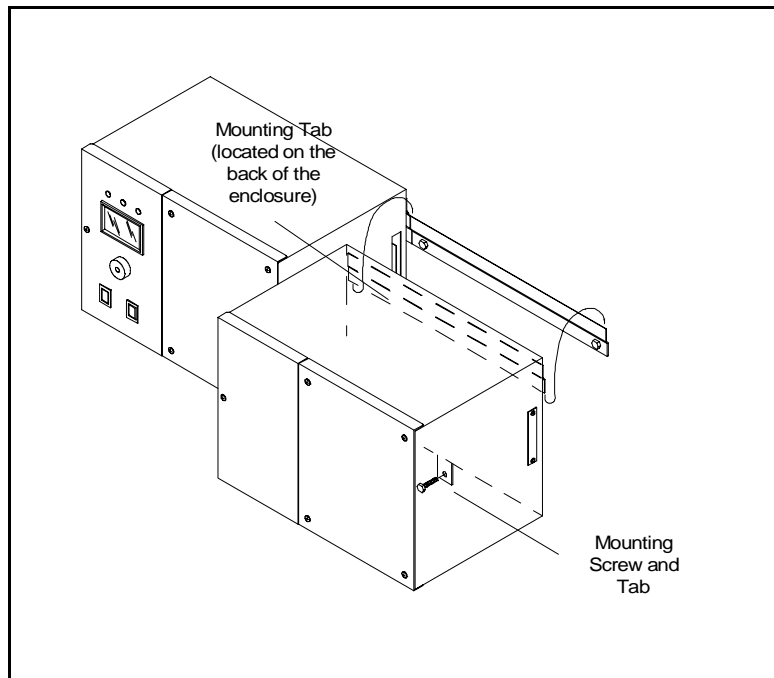


Figure 4 Hanging the 4-slot power chassis

Step 6: Slide the 4-slot power chassis along the interlocking rail until both ends of the backplane connector board mate. See *figure 5*.

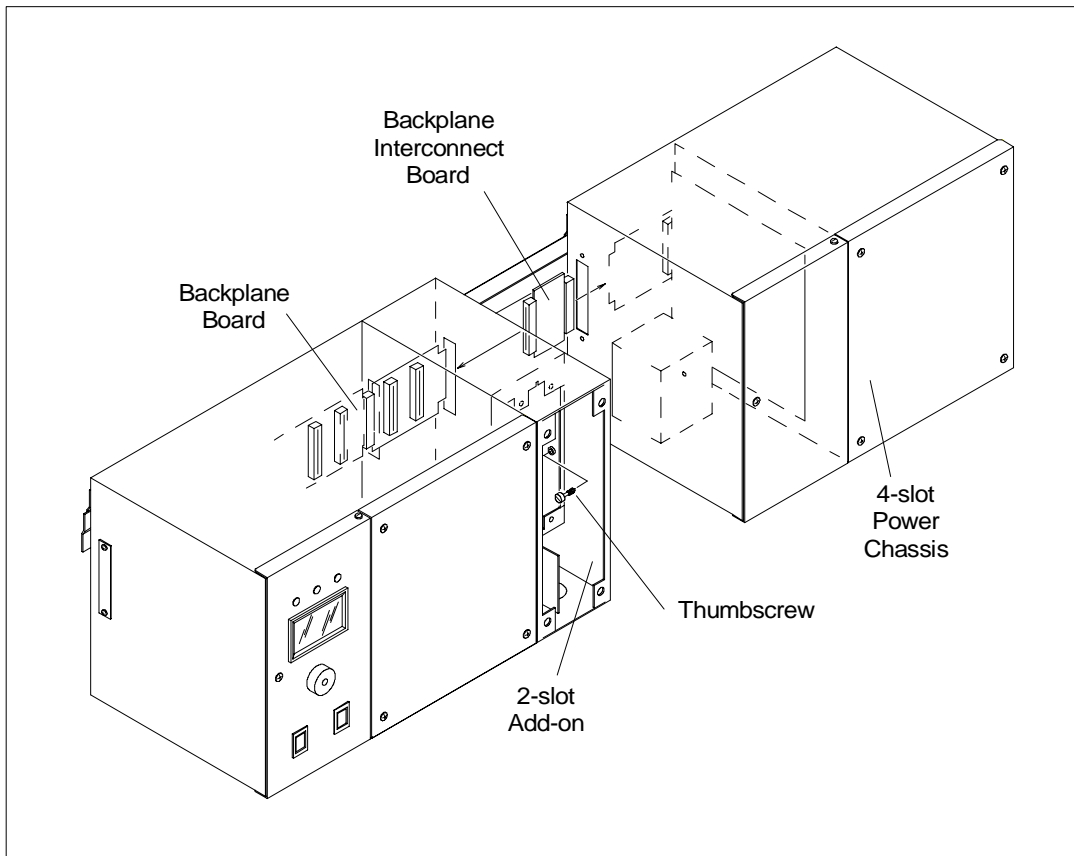


Figure 5 Connecting a 4-slot power chassis using the Backplane interconnect board

Step 7: Use the provided thumb screw to secure the two chassis together. Use the provided mounting screw to attach the chassis mounting tab to the wall.

Step 8: Re-apply power to the Prolink system.



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Cable Connections

Sometimes add-on installations using the Bus Connection configuration (meaning one chassis butted up to another) are not possible due to space or distance constraints. Cable Connection installations allow you to connect the chassis together using a network cable. Maximum distance between chassis is 1000 feet (300m). The following instructions describe adding a 4-slot power chassis using the Cable Connection configuration.

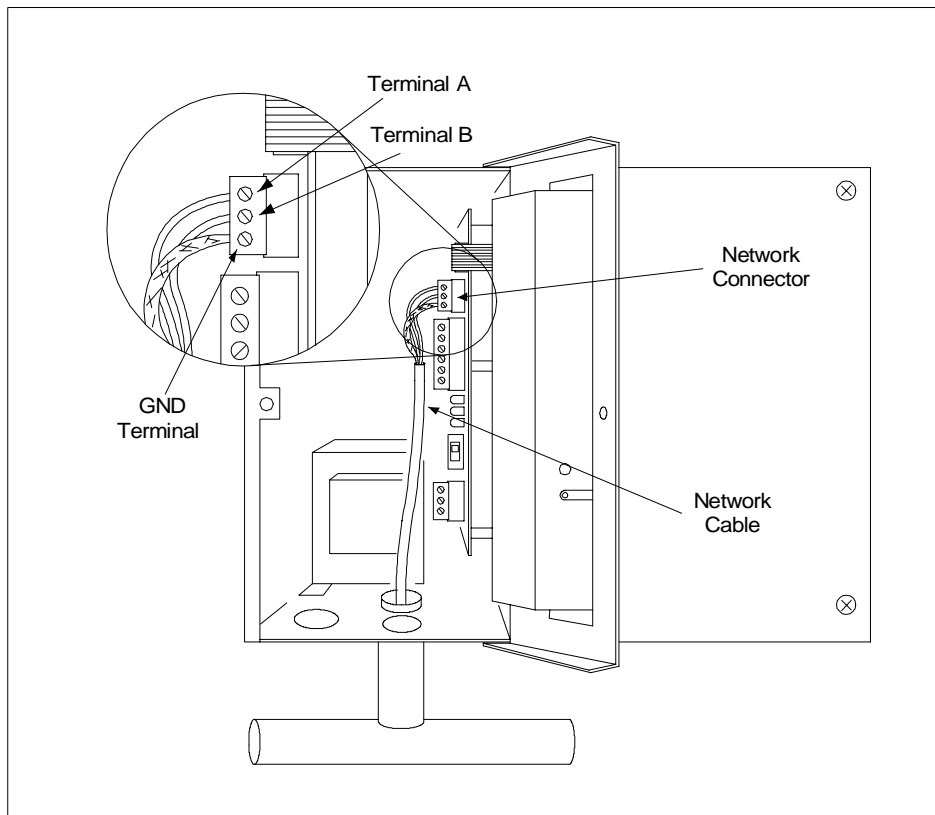


Figure 6 Cutaway of the Prolink main data chassis and network connections

Step 1: Connect the 4-slot power chassis to AC power following the previous instructions.

Step 2: Connect the network cable conductors to terminals **A** and **B** on the network connector. This connection is not polarized. See *figure 6*.

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