

Quick Start Guide

ProtoNode Kit Installation for PowerBay+™ Full-Size BDFB

Scope & Applicability

This document details the instructions for installing the ProtoNode gateway kit into the PowerBay+™ Full-Size BDFB.

Installation Procedure

NOTE: Refer to Fig. 3 on backside of document for wiring layout detail.

WARNING! ELECTRICAL HAZARD

MULTIPLE POWER SOURCES ARE PRESENT. ELECTRICAL INSTALLATION SHOULD ONLY BE PERFORMED BY QUALIFIED PERSONNEL WITH PROPER TOOLS AND PROTECTIVE SAFETY EQUIPMENT.

1. Loosen the captive thumbscrew found on the BDFB controller door and uninstall the ground cable by removing the k-lock nut.
2. Carefully disconnect the ribbon cable from the BDFB controller door.
3. Remove the two upper front panels of the BDFB by uninstalling (4) Phillips® head screws per panel (Fig. 1).
4. Using the supplied mounting screws, secure the ProtoNode module and the power supply module to the mounting provisions located on the BDFB midplane (Fig. 2).
5. Locate the twisted pair wire that includes a pre-terminated connector installed on one end. On the opposite end of this wire harness, install the pre-crimped fork terminals into the power supply module termination block; **red (+)** wire into **+ (INPUT)** and **black (-)** wire into **- (INPUT)**.
6. Locate the second set of twisted pair wire and install the pre-crimped fork terminals into the power supply module termination block; **black (-)** wire into **-V (OUTPUT)** and **red (+)** wire into **+V (OUTPUT)**. On the opposite end of this wire harness, strip both wire ends and connect the **red (+)** wire into **+PWR** and the **black (-)** wire into **-PWR** termination block positions of the ProtoNode.
7. Install the pre-terminated connectorized end of twisted pair wire from Step 5 into the **LOGO** connection point on the BDFB controller PCB.
8. Plug a network cable into the **ETHERNET** port of the ProtoNode. A network connection should also be made to the ethernet port of the BDFB controller PCB.
9. Reinstall the front panels of the BDFB from Step 3, plug in the ribbon cable from Step 2, and reinstall the ground cable from Step 1. Ensure that the captive screw on the BDFB controller door is retightened.

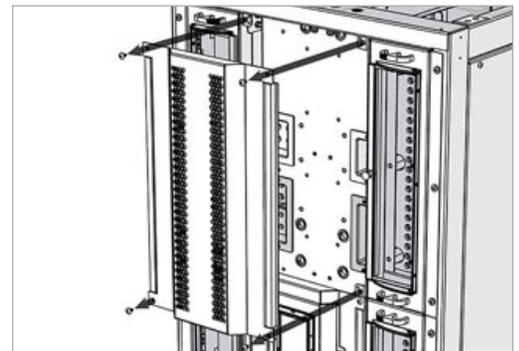


Fig. 1, BDFB front panel removal

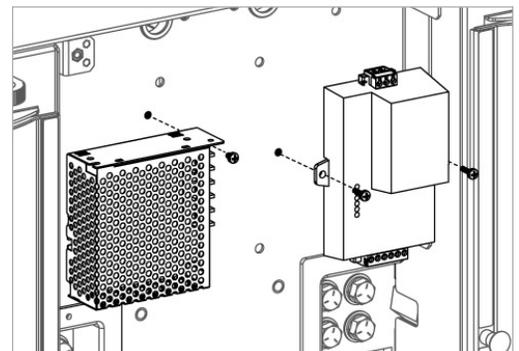


Fig. 2, ProtoNode/power supply mounting

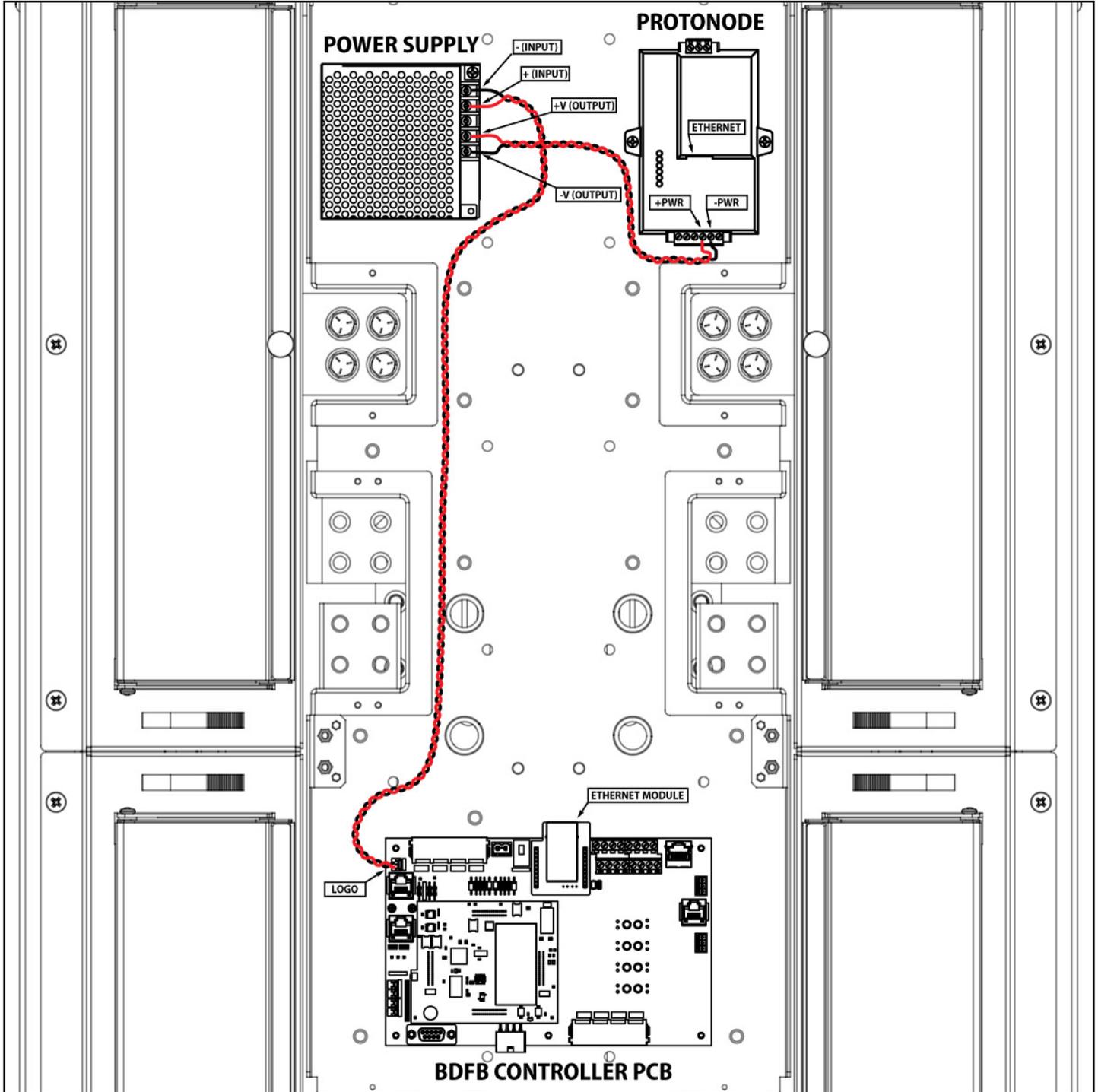


Fig. 3, Wire layout detail