

Tech Note #100517-003

Rewiring the Ax9150 incoming power connection for Automatic Comm Loss Reset

This document explains and directs how to rewire the Ax9150 incoming power connection so as to allow an automatic reboot of the board in the event of a Network Communication Loss.

A. Pre-Requisites

1. The Ax9150 Board must be powered through the front power connector and NOT through Pin 25 of the attached serial cable (In the case of DNC utilization). If the Ax9150 is powered from pin 25 of the connector installed in "COM1 CNC DCE" then this connector must be opened and the wire connected to pin 25 removed. A suitable 24 VDC power source must then be located inside the cabinet where the Ax9150 is mounted. Wire this newly acquired power source in accordance with the instructions below.
2. Digital output 03 (DO-3) must be free of use (no wires connected), (See Fig 1, Item 3 below).

B. Removal / Relocation of the main incoming power wiring

1. Power off the main control so there is no power on the main incoming power connection of the Ax9150. Check with a meter to ensure there are 0 VDC present between the pins marked "12-24VDC" and "GND" (See Fig 1, Item 1 below). This connector is named "POWER IN" and is located directly in the middle of the Ax9150 board. (See Fig 1, Item 2 below)
2. Remove the 6 pin terminal block attached to the DO-2 and DO-3 terminal (See Fig 1, Item 3 below).
3. Using the 10 pin IDC to 3 pin Terminal block cable harness (See Fig 2 on Page 3), place the 10 pin IDC socket to the JTAG header (See Fig 3, Item 1 on Page 2) and place the 3 pin terminal block into "DO-3" terminal (See Fig 3, Item 2 on Page 2).
4. Turn the power back on to the control. It is ready to resume normal operation. When a communication loss is detected for a pre determined period of time, the Ax9150 board will power itself off, then on again and attempt to reconnect to the network during a power up sequence.

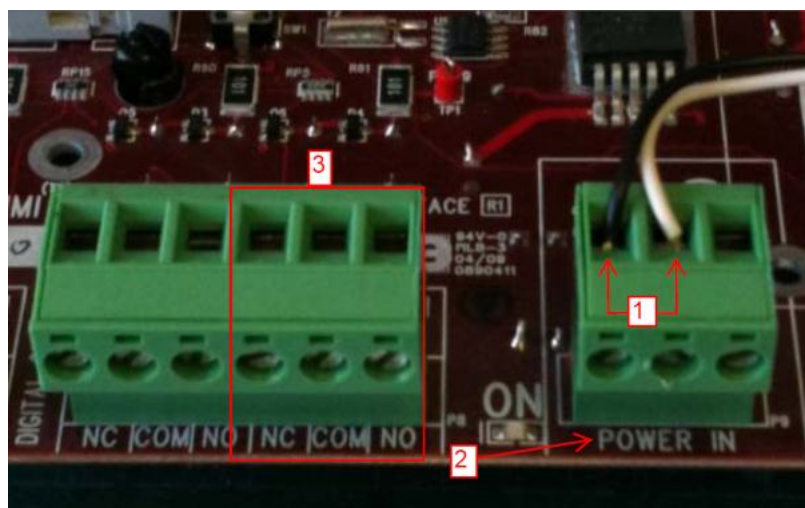


Fig 1





Fig 2

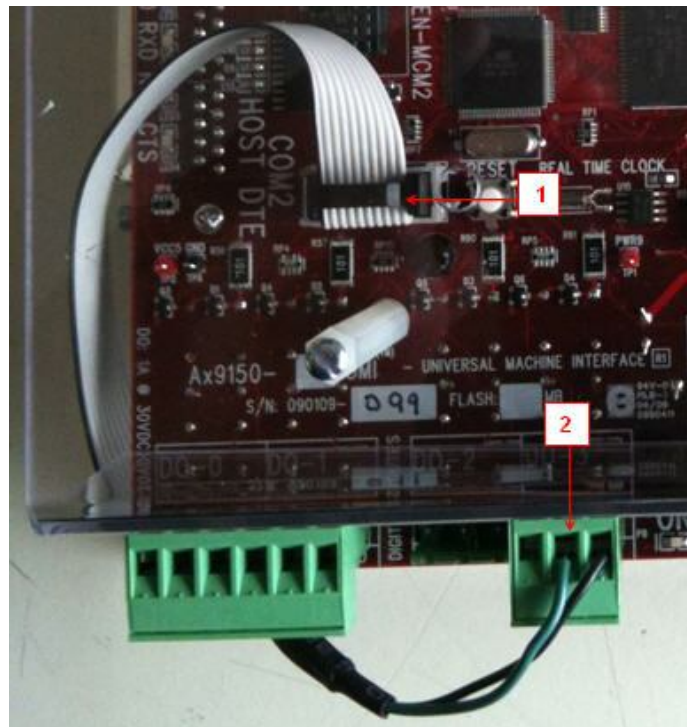


Fig 3

