NCT Maryland Power Cabinet

Critical Information

1. **The TIU must be powered through the AUX power connection.**

2. **All Channels on the TIU must be configured as "Fixed"**

3. **The TIU is a Rev L The (Rev L) has a USB port. The older TIUs have a RS232 connector. All channels are permanently configured as Fixed on the NCT Rev L TIUs.**

4. **The PRGM TIU is usually at a lower Hardware and Software level. (RS232 connector and a software level less than 6.10). The main TIU and PRGM TIU are not easily interchangeable. For full functionality software must be upgraded and the RS232/USB cable installed and all channels configured as Fixed.**

5. **TIU power is routed through the switch mounted on the Purple/Yellow metal switch cover. The power brick is located in the lower left side of the top portion of the cabinet, it has a circuit breaker on the brick.**

6. **Legacy/TMCC power is routed through the switch mounted on the Orange/Blue metal switch cover. The power brick is located in the lower left side of the top portion of the cabinet, it has a circuit breaker on the brick.**

7. **The MTH TIU must be at Version 6.10 for DCS WIFI operations.**

8. **Legacy software must be at 1.52 or higher for Lionel WIFI operations.**

9. **MTH and Lionel's WIFI can operate as stand-alone networks or as part of an existing network. Each device has both options. The NCT router acts as an existing network and allows access to both WIFI protocol's while using one sign on. The NCT router setup with the Lionel WIFI uses the WPA buttons on the router and devices. (Wireless). MTH WIFI is connected via a cable. Reference the appropriate installation instructions.**

10. **The Green Light is designed to assure the Harness Cable connectivity at each show layout. The orange wire that runs through-out the harness is used for this purpose. The Power Cabinet acts as a "module" and is in series with all the other modules. If the light fails to come on when the layout is fully connected, someone is not properly connected. Check all harness connections.**

11. **There are two programing tracks. One is located on the top with the power always connected. The secondary programming track is located on the pull-out drawer just below the Z4000 transformers. The power connection must be plugged in when using this option. (Note the connected cable stored next to the top programming track).**

12. **The fixed 18 V power supply is connected to the Outer Loop. Since the voltage is not variable the loop is for Command Only operations. The reasoning behind this upgrade is due to the problem encountered while controlling 2 tracks using one Z4000. Any issues on either loop will overload the Z4000 and take down both loops. By using the fixed power supply the Z4000 is only used for a single loop mitigating the issue.**