

TECHNICAL ENGINEERING SUPPORT APPLICATION NOTICE (TESAN)

Subject: PS-12/24-8 Power Booster Power Supply

The model PS-12/24-8 is a power supply Cross-Listed by UL to Wheelock in late 1999. The power supply Listing stated that the product was suitable for NFPA 72 installations. Since the above date, some PS-12/24-8 units have been installed with ground fault detection enabled (as per NFPA 72, or other applicable codes, for Class B, Style Y or Class A, Style Z notification appliance circuits). It has recently come to our attention that during certain low impedance ground fault conditions on the positive NAC output; some of these installations may not operate properly in alarm.

If ground fault detection was not enabled (units installed as shipped), as permitted in some jurisdictions, the product should operate properly with or without the presence of a ground fault.

If units were installed with ground fault detection enabled (per the second sentence of Section 2.3.F of the installation manual instructions shipped with the product, and TESAN F003-99 dated October 25, 1999 that was posted on www.wheelockinc.com), **the connection from the negative AUX output to chassis ground must be removed and a UL Listed 22K ohm resistor/wire assembly must be installed from the positive AUX output to the chassis ground.**



WARNING! FAILURE TO REMOVE THE GROUND WIRE BETWEEN NEGATIVE (-) AUX AND CHASSIS GROUND COULD RESULT IN IMPROPER OPERATION OF THIS PRODUCT IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, SERIOUS INJURY, OR DEATH TO YOU AND/OR OTHERS.

Customers who have PS-12/24-8 power supplies that Wheelock shipped before September 8, 2003 must contact Wheelock Customer Service immediately at 1-800-631-2148 for UL Listed 22K ohm resistor/wire assemblies and wiring instructions for those units that are installed with ground fault detection enabled.

All models shipped from the factory after September 8, 2003 now incorporate this UL Listed 22K ohm resistor/wire assembly.

Application of the Ground Fault Circuit

The best "chassis" ground is the ground wire (green) in the transformer area shown in Figure 1.

When connected properly, and any portion (+, -) of the output circuit becomes grounded, there could be a two to five second delay before the output LED (OUT1 thru OUT4) will

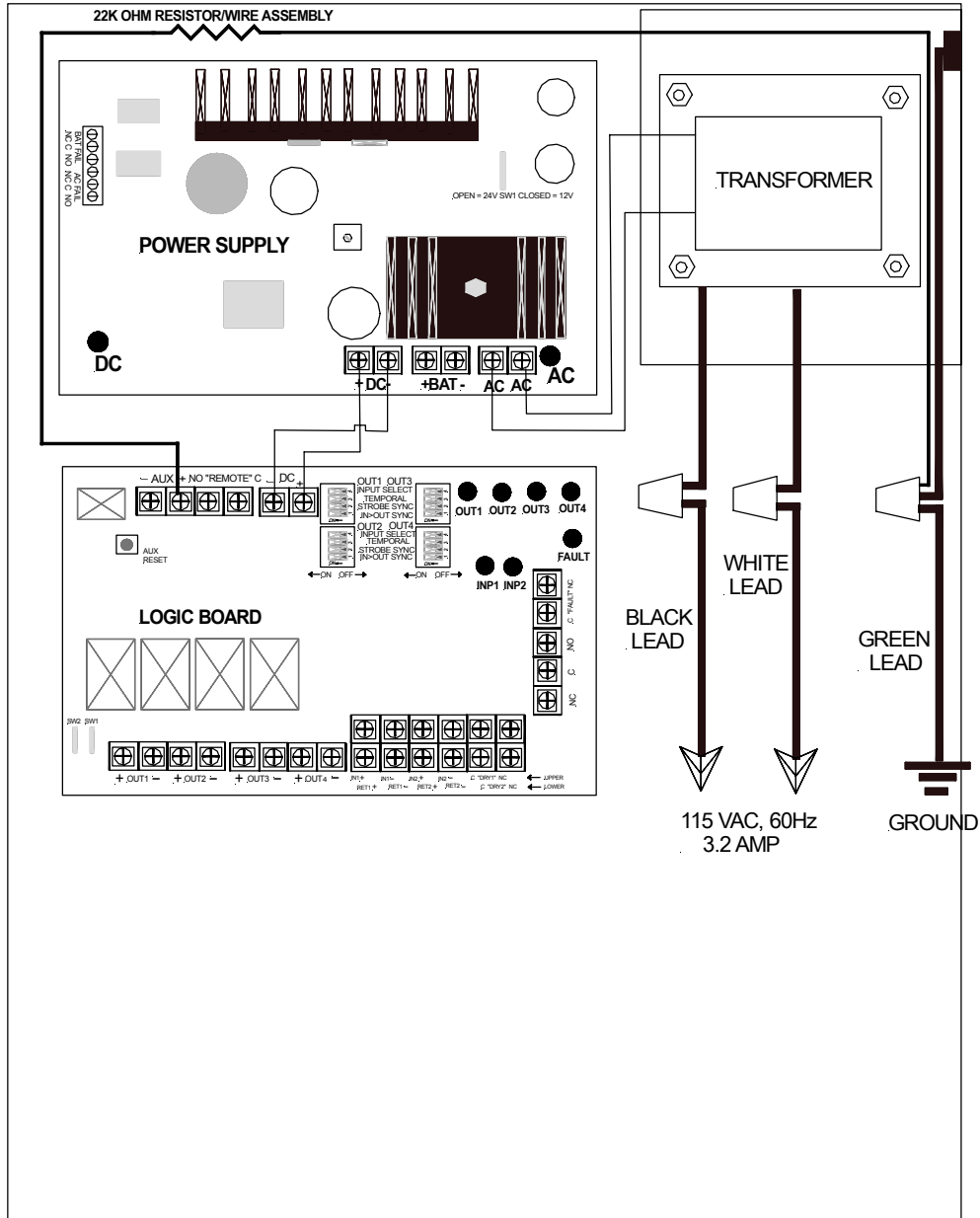


begin to flash, indicating a trouble on that circuit. At that time, the Form "C" relay (balloon 8 in Figure 2 of the Instruction sheet P83862) will change state. This relay can be used to indicate "Trouble" on the Power Booster Power Supply.

NOTE: The blinking "OUT" LED indicates a trouble on the circuit. It could be an open, short, or a ground fault condition.

If the ground fault feature does not function properly, check the ground fault connection as shown in Figure 1.

Figure 1
PS-12/24-8 Resistor/Wire Assembly Installation



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