

Technical Note TN-837

T808/807 Power Supply DC Connector

11th February 2004

Applicability

Applies to all systems using T808 and T807 Power supplies

1. Introduction

Fault

There have been reports of the DC connector on the rear of the T808/807 Power Supplies burning up.

The problem has been traced to the screws securing the DC cable into the connector not being tightened properly to provide a good electrical connection for high current installations.

Over a period the wires tend to compress in the DC connector resulting in a poor electrical connection. Consequently when high current is drawn from the T808/807 Power Supply the connector heats up increasing the resistance causing more heat until the connector eventually burns up.

2. Remedy

When installing a system that uses a T808/807 Power Supply the screw terminal screws securing the DC cable to the T808/807 Power Supply **must** be re-tightened as part of the commissioning process.

The screw terminal screws must be tightened so that the wire does not move when pulled

After tightening the screws in the DC screw terminal pull on the cable to check the cable is secured tightly into the screw terminal.

TN-837 Page 1 of 2 11 February 2004

Telephone: +64-3-358-3399

When replacing a T808/807 Power Supply into an existing system it is recommended that the DC wires be reterminated if the strands had previously been twisted together or show any signs of damage.

Cut the wire at the end of the insulation and then strip approximately 10mm of insulation off the cable. **Do not twist the wire strands**. Insert the DC cable into the screw terminal and tighten the screw to secure the cable.

An alternative method for terminating the DC cables in the screw terminal is to fit a blade crimp terminal to the wire. The blade crimp terminal is then inserted into the screw terminal and the screw tightened onto the blade.

Compliance Issues None

CSO Instruction For general publication

3. Issuing Authority

Name and Position Rob Ottaway

of Issuing Officer Technical Support Team Leader Infrastructure

Confidentiality Confidential – This message or document contains

proprietary information intended only for the person(s) or organisation(s) to whom it is addressed. All Recipients are legally obliged to not disclose Tait technological or business information to any persons or organisations without the

written permission of Tait.

Distribution Level Public

Document History Original Release 11 February 04 RO

Added last paragraph of Remedy 13 February 04 RO