

19<sup>th</sup> March 2004

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**Applicability**

This technical note applies to all T800 Channel racks that include a power rail with the following part number X800-XX-XXXX

## 1. Introduction

**Background**

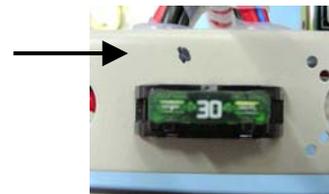
The wire that connects into the back of the blade fuse holder on the rear side of the T800 rackframe has been found to have been incorrectly crimped in the past. This has resulted in a significantly higher resistance connection, causing excessive heating around the plastic blade fuse carrier.

This problem is presented as a potential concern with T800 racks using a 100-watt Power Amplifier, utilising either a high or continuous duty cycle.

A new crimping procedure has been implemented within the factory, with the addition of solder, in order to improve the electrical conductivity and longevity of the crimped connection. These racks can be identified from here on in by a distinctive black dot located above the fuse holder, indicating the crimp connection has been both crimped and soldered.

Marker dot to indicate factory modified rackframe.

*Note:* A white dot will be used on a black surfaced rackframe.



This technical note describes the method to modify existing crimp connections, only required if an existing rackframe is deemed to be requiring it as per the description above.

**Products  
Effected**

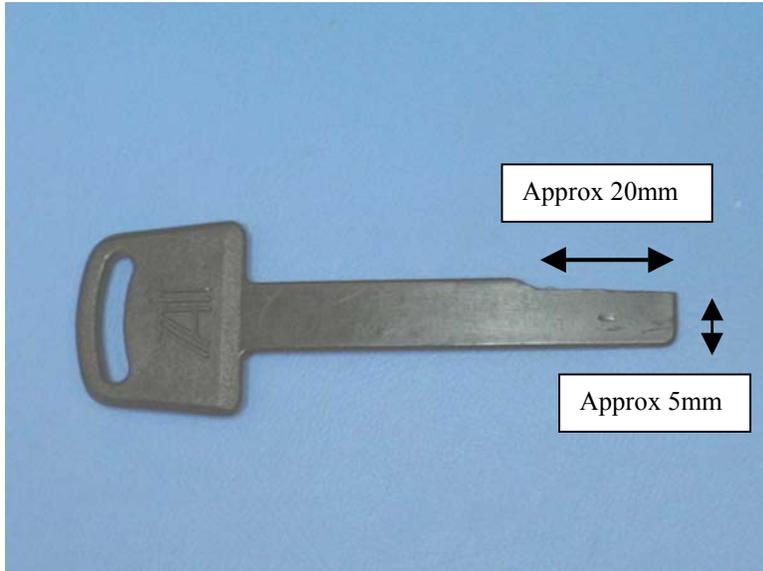
The following chart outlines the racks utilising the inline chassis mounted fuse holder (340-00010-25)

Power Rail	Product		Power Rail	Product
X800-22-15C0	T800-22-15C0		X800-93-0000	T800-22-0300
				T800-22-0310
X800-24-15C0	T800-22-15C2			T800-22-0320
	T800-24-15C0			T800-22-0323
				T800-22-0324
X800-26-0210	T800-26-0210			T800-24-0300
				T800-24-0303
X800-90-0000	T800-22-0000			T800-27-0301
	T800-22-0010			T800-56-8303
	T800-22-0020			
	T800-22-0023	X800-93-0004		T800-28-0300
	T800-22-0024			
	T800-22-TE01	X800-94-0000		T800-24-0403
	T800-22-TE02			T800-27-0401
	T800-24-0000			
	T800-24-0003	X800-95-0000		T800-22-0500
	T800-27-0001			T800-24-0500
	T800-29-0001			T800-27-0501
	T800-56-8003			
		X800-96-0000		T1500-56-0000
X800-90-0004	T800-28-0000			
	T800-28-0001			
X800-90-00AU	T800-22-00AU			
X800-90-8000	T800-56-8002			
X800-91-0000	T800-22-0100			
	T800-22-0110			
	T800-22-0123			
	T800-22-0124			
	T800-24-0100			
	T800-27-0101			
	T800-29-0101			
	T800-56-8103			
X800-91-0004	T800-28-0100			
	T800-28-0101			
X800-91-8000	T800-56-8102			
X800-92-0000	T800-22-0200			
	T800-22-0210			
	T800-22-0220			
	T800-22-0224			
	T800-27-0201			
X800-92-0004	T800-28-0200			
X800-92-00PD	T800-22-00BD			
	T800-22-00PD			

## 2. Modifications

### Steps

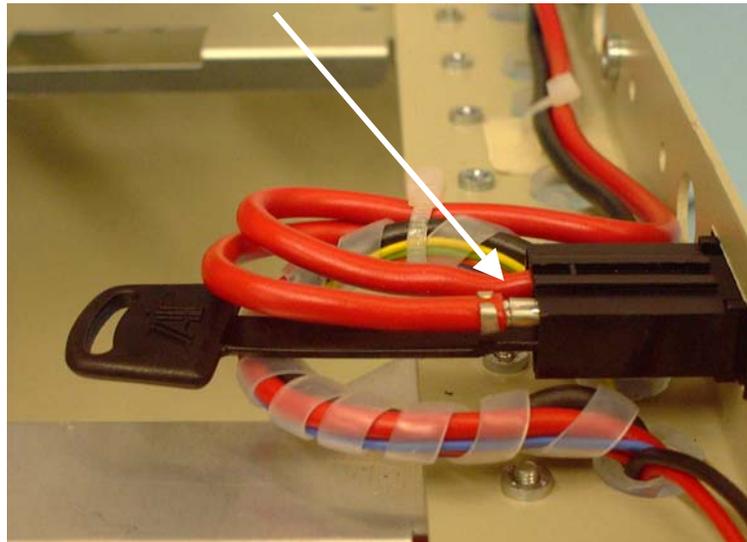
1. For ease of removal of the fuse holder crimps, a modified T2000 cradle key, displayed below, was found to be an efficient tool.



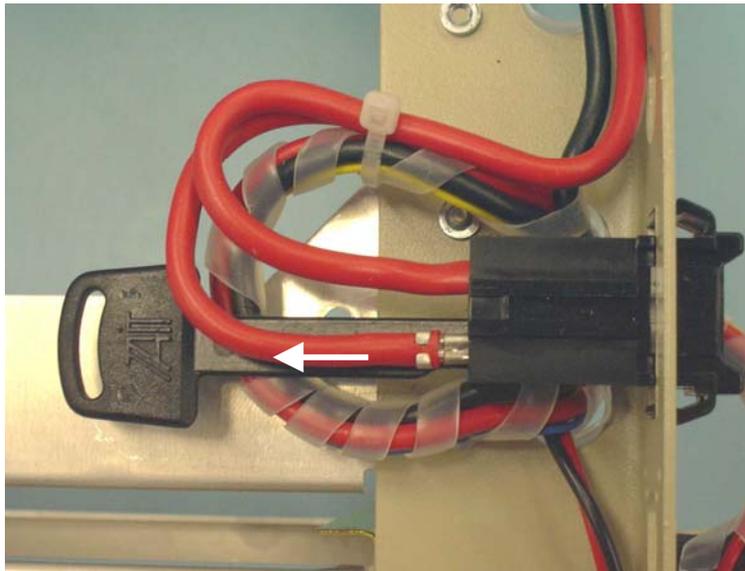
Trim a length from the end of the cradle key to give you a section of key approximately 20mm long with a width of approx 5mm.

2. Remove the rackframe fuse if it is still inserted in the fuse holder.  
Insert the modified T2000 key into the rear of the fuse holder so the key is positioned between the D.C wire (and associated crimp connection), and the black plastic fuse retainer.

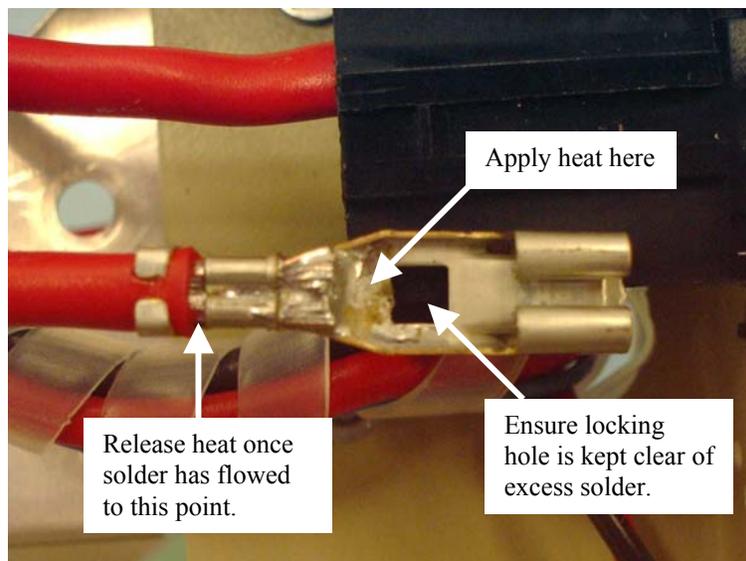
### Side View



## Top View



3. Carefully slide out the D.C wire and inserted T2000 cradle key simultaneously. With the cradle key inserted correctly, this should occur with little effort.



4. To solder, apply heat to the section of the crimp connector just after the end of the crimped D.C wire. Feed solder wire into the strands of the D.C cable until the solder has flowed, and can be seen flowing between the crimp jaws and the red cable sheath. Remove the heat. Care must be taken not to apply too much solder that may block the hole used for locking the crimp into place inside the fuse holder. Allow cooling, then insert back into the fuse holder.

**Compliance Issues** None

**CSO Instruction** CSO's – please inform all technical staff and dealers of this optional modification

### 3. Issuing Authority

**Name and Position of Issuing Officer** Paul Hinton

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