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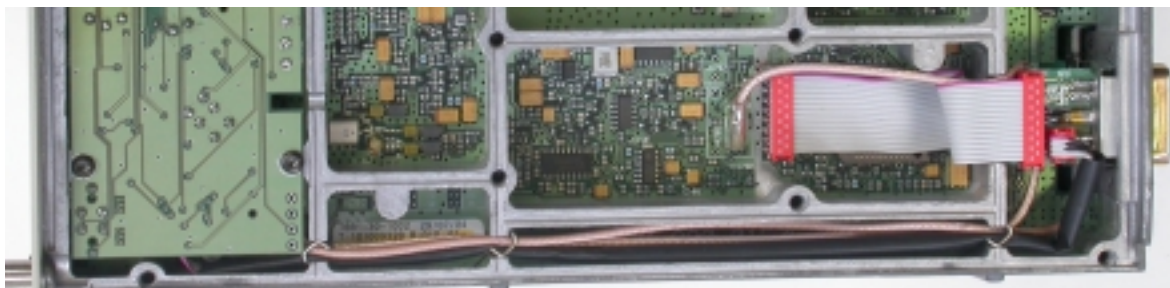
## Technical Note TN-939

### T800 Paging Board Installation Techniques to Preventing Loom damage

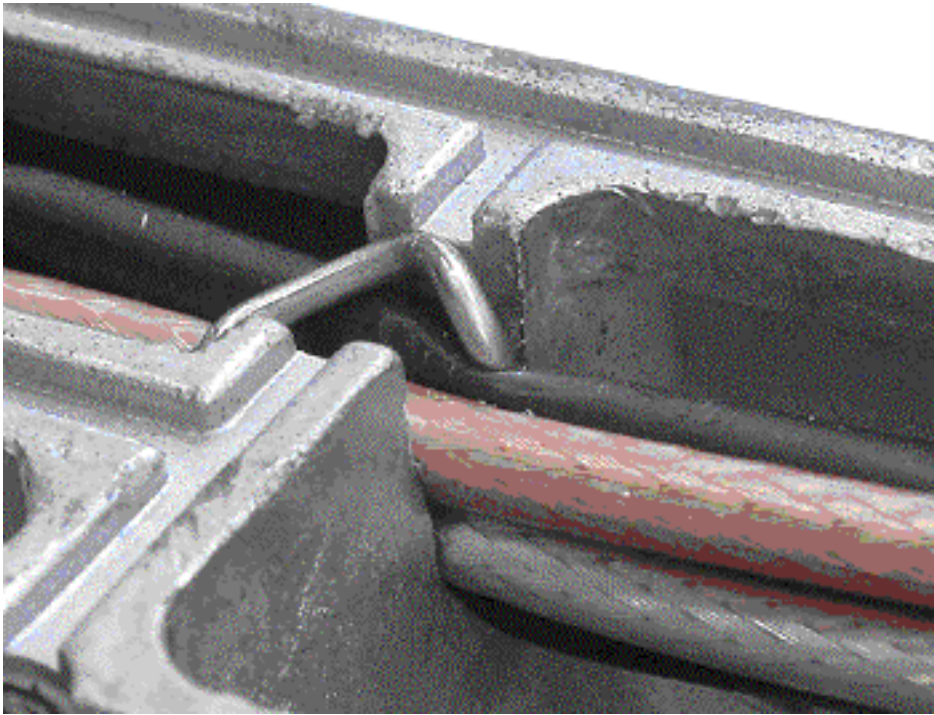
1 November 2004

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<b>Applicability</b>	All T8xx-xx-1xxx paging transmitters / excitors with paging board installations.
<b>Purpose of this Technical Note</b>	To prevent loom-fastening clips piercing or breaking wire looms against chassis walls causing failure.
<b>The Problem</b>	<p>T800 paging looms, particularly those with a 4-way ribbon cable are being cut by the chassis/cable clip combination. A length of heatshrink tubing was placed around the cable (but not shrunk) but even with this protection, the loom is still being damaged.</p> <p>External reference paging installations require 2 coaxial cables and a 4-way ribbon cable to be fed through three narrow, sharp chassis wall cutouts. Space is limited, and if the ribbon cable is caught between the sharp chassis edge and a tougher coaxial cable, pressing the retaining clip down can short the ribbon wires to the chassis.</p>
<b>Resolution</b>	<p>All future chassis will have the sharp edges smoothed off. For work in the field with existing modules, follow these instructions.</p> <p>Figures 1,2, &amp; 3 show an External Reference Paging board installed in a T800.</p>



**Figure 1.** An external reference paging board with loom to D-Range 2 correctly installed.



**Figure 2:** The 4-way ribbon cable should lie vertical with the 2 coaxial cables placed beside it, one on top of the other. In internal reference paging installations only 1 coaxial cable will be present, in this case the same instructions apply, but there will be more room.

Cables should be able to sit in the channel freely without the clip. The clip is only intended to prevent the cables from being trapped between chassis and lid when lid is fitted.

**Care must be taken when applying clips as to not have any part of the ribbon cable caught between the clip and the chassis wall.**



**Figure 3.** Cables passing through the channel without crimping against sharp edges.

**Compliance Issues**          None

## Issuing Authority

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