



TECHNICAL NOTE TN-1138

T800 Reverse Tone Burst Operation

10th January 2006

Applicability

T800 Series II Transmitters and Exciters, excluding product with Firmware v2.06

1. Introduction

T800 Transmitters have Reverse Tone Burst built into the TX Tail Timer Function. The length and phase of the Tone Burst are not adjustable, but the TX Tait Timer is. The TX Tail Timer can be set with PGM800 from 0 to 5 seconds. Reverse Tone Burst is continuous for the period of the TX Tail Timer.

2. Useful TX Tail Timer Settings

- If TX Tail Timer is set to **Zero**, no Reverse Tone Burst will be present.
- A TX Tail Timer of approximately **120-140ms** should make receivers close the mute silently.
- A TX Tail Timer of approximately **300ms** will close, then re-open the receiver mute producing the characteristic end-of-transmission squelch noise some users prefer.

Phase: The standard Reverse Tone Burst phase for Tait products is 180°, this is not adjustable.

Note: If adjustable Reverse Tone Burst Phase and Duration is required, Firmware v2.06 and PGM800 v4.30 support this. See TN-1118-SR on the Technical Support Website. Upgrading the firmware is only possible by swapping the microcontroller. Contact TEL.

Compliance Issues

None

CSO Instruction

None

3. Issuing Authority

Name and Position of Issuing Officer

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Document History

Original Release	10 th January 2006	SJN
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