AN-MX800-200

MX800 Interface To CSI TP163 Shared Repeater Tone Panel

INTRODUCTION

The MX800 provides the utmost flexibility when interfacing to peripherals. The rear connectors provide the point of interfacing.

This application note highlight how easy the MX800 is to interface with Connect Systems Inc. TP-163 Shared Repeater Tone Panel.

Please note this document is not intended to replace User manuals.

(Figure 1-1) M800 And TP163 Panels

HARDWARE CONFIGURATION

The MX800 allow the use to set the polarity of the Digital I/O (DB25 connector). You can also set the polarity of the M lead. See section 2.2.2.1 of the MX800 technical manual for Jumper settings.

The Subtone from the TP163 is injected into the DC FM input thus Jmp8 on the MX800 must be set to position 2-3 WB I/P.

Insure the radio User select dipswitch 4 is in the off position. This disables the MX800 internal Repeater mode.
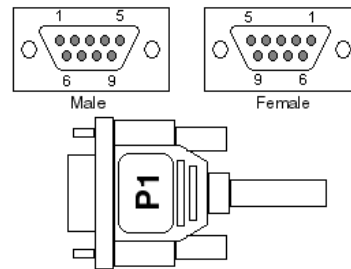
The TP-163 also can change the polarity, refer to User's Instruction Manual.

SOFTWARE PROGRAMMING
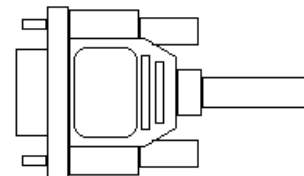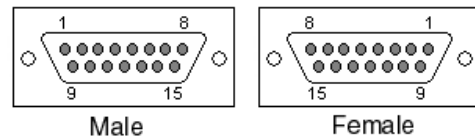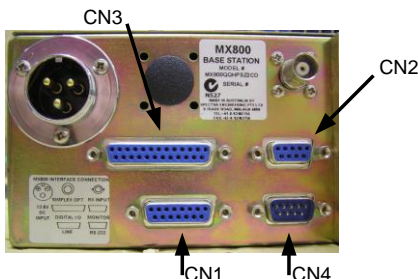
The MX800 will not need changes to software settings.

Please be aware that if CTCSS or DCS is programmed please disable, other wise Sub tone form TP163 will mix with the MX800 generated tone.

For programming of TP-163 please consult User's Instruction Manual

(Figure 1-3A) MX800 Rear Connector.

INTERFACING INFORMATION

M800 Interface connections to TP-136

CN2 (DB9)

Pin#	MX800 Description	TP-163 Description
1	- Earth Supply	GND
5	+13.8V Supply	+12 VDC

(Figure 1-2) DB9 - Viewed from front of connector.

(Figure 1-3) DB15 - Viewed from front of connector.

CN1 (DB15)

Pin#	MX800 Description	TP-163 Description
4	RX Disc Audio	RX Audio
9	TX Audio	TX Audio
10	Earth	GND
12	PTT	PTT
13	DC FM I/P	Sub Tone
14	RX Mute	COS

(Figure 1-3B) TP163 Rear Connector.