

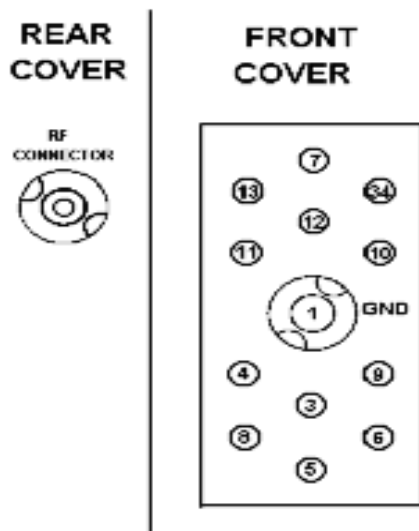
## General Electric M-PA/M-PD Programming Cable Information

In the EARLY models of the M-PA radio, the control boards were NOT flashable. Hence, the original version of the programming cable (P1) were not capable of flashing a radio. When the later models of M-PA radio were released that incorporated a FLASH IC, a different programming cable was sold, which would flash a radio (the P2 cable).

To change the P1 cable over to a P2 version, you simply need to move one wire in the DB-25 headshell. To modify an older 19A705477P1 programming cable into a current model 19A705477P2 cable which will both program and flash a radio, you need to make the following modification to the cable. Inside the DB-25 headshell, unsolder the GREEN wire on PIN #10, and move it over to PIN #5.

As the only pins necessary for programming are TXD, RXD and Ground, it would appear that a simple program interface may be constructed using a MAX232 and a handful of other common parts.

### M-PA/M-PD Side Connector Pin Assignments



Pin	Name	Input or Output	Use
1	Ground	--	Case Ground
3	UDC RX Audio	Output	Test point for speaker audio
4	SWBatt	Output	Switched accessory power
5	Ext PTT	Input	External microphone PTT input
6	TX Data	Input	For programming
7	RX Data	Output	For programming
8	Spare		
9	UDC Volt	--	Option/Accessory Sense pin
10	T/R	Output	Low = Transmit, High = Receive
11	UDC Mute	Output	Low = Audio muted
12	Ext Mic High	Input	External microphone audio input
13	Ext Emer	Input	Lanyard connection
34	UDC Discr	Output	Test point for RX audio

M-PA/M-PD Program Cable Schematic

TQ-3339  
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