


Engineer: Chris Samios	Date: 2/26/04	<div style="text-align: center;">  JPS Communications 5800 Departure Drive, Raleigh, NC 27616 </div>			
Drawn: Jack Curtis	Date: 2/26/04				
Approved: Chris Samios	Date: 3-31-06	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 3-31-06	Size: A	Dwg. #: 5961-271311-APP	Rev: A	Sheet: 1 Of 2

APPLIES TO:

M/A-COM M-803 Mobile (Spkr / Mic Connectors)

RADIO MODIFICATIONS:

The Speaker Cable Assembly 1000005828-0002 that is part of the MAMROS0017 or MAMROS0018 Installation kit for M-803 Mobile radio and is a 15-PIN to 2-PIN adapter that will be connected to the interface P3 speaker connector. These standard accessory connectors are supplied with new radios and are required to provide the External Speaker output (2 Pin Female Molex) that is to be connected to the interface cable. The Multi-Cable Assembly MAMROS0052 can be used if the original equipment adapter has been lost.

RADIO PROGRAMMING:

None required.

RADIO CONTROLS:

Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot long TRP Radio Tray Interface cable and the appropriate 13-foot extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291311	(5961-271311 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281311	(5961-271311 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271311	

DSP-1 JUMPERS:

JP1	Low Impedance *
JP2	Balanced *

DSP PROGRAMMING:

RX Level	3*	(0dBm)*	
TX Level	6*	(0dBm)*	
Squelch Type	VOX*		
COR Polarity	Active Low*		
High Frequency Equalizer	4*	Flat*	
RX Audio Delay Time	2*	(100mS)*	
TX Audio Delay (Radio Type)	4	800	
Noise Reduction Value	0*	(Off)*	
VOX/VMR Threshold	1*	(Med1)*	
VOX/VMR Hang Time	3*	(775mS)*	
COR Inhibit After PTT	1*	(100mS)*	(See note below)
All Others	As needed		

(* Indicates Default Value)

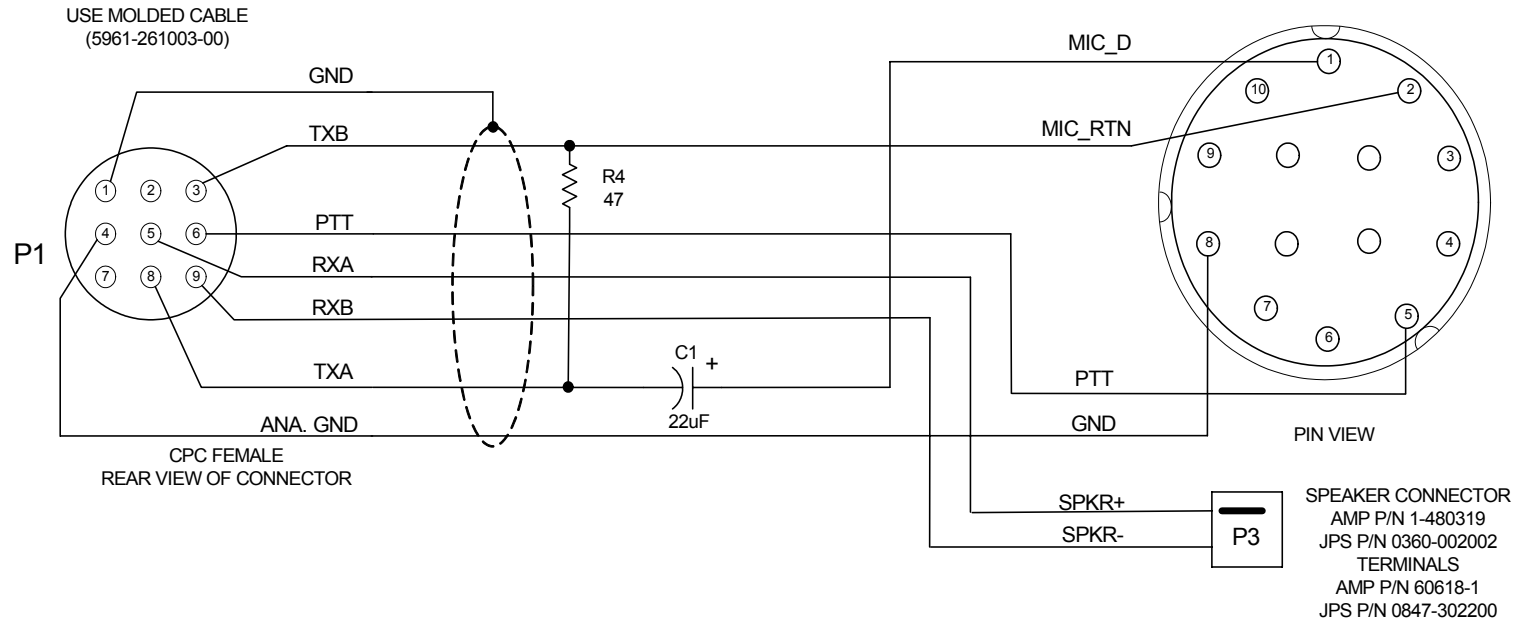
NOTES:

1. For trunked radios, COR Inhibit After PTT time may need to be increased to prevent “ping-pong” effect. If this does not resolve the problem, Squelch Type may need to be changed to VMR.

PURCHASED PART

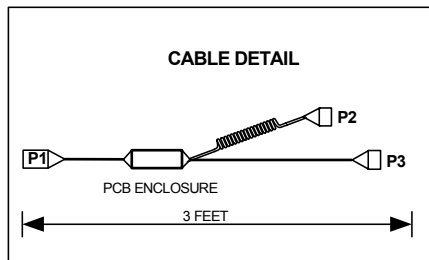
Rev	ECO	Date
A		3-31-06

COIL CORD CONNECTOR ASSEMBLY
14 PIN MIC CABLE CB-MA803-41
(JPS P/N 0314-803410)



NOTES: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

THE SPEAKER CABLE ASSEMBLY 1000005828-0002 (15-PIN to 2-PIN ADAPTER)
OR THE MULTI PURPOSE ACCESSORY CABLE M/A-COM P/N MAMROS0052
WILL BE REQUIRED TO CONNECT P3 TO THE RADIO.



COMPONENT PCB
(JPS P/N 5961-271000)

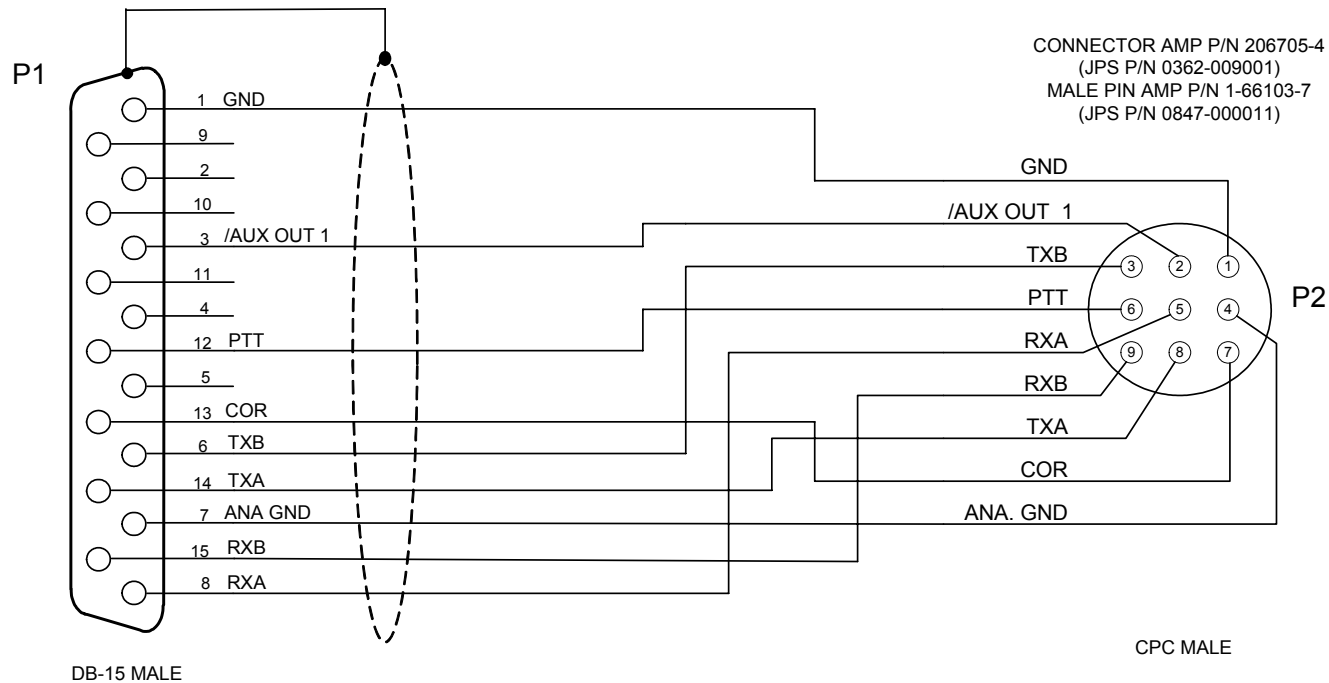
C1 JPS P/N 0321-220250
R4 JPS P/N 1820-470000
JU2
JU4

USED WITH:
M/A-COM M-803 OPEN-SKY MOBILE RADIO

Designed By:	CTS	Raytheon JPS Communications Raleigh, NC USA		
Drawn By:	RBP	Title CABLE, CPC TO M/A-COM M-803 MOBILE		
Checked By:	CTS	Size A	Document Number 5961-271311	Rev A
		Issued Date March 31, 2006	Sheet <u>1</u> of <u>1</u>	

PURCHASED PART

Rev	ECO	Date
A		



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

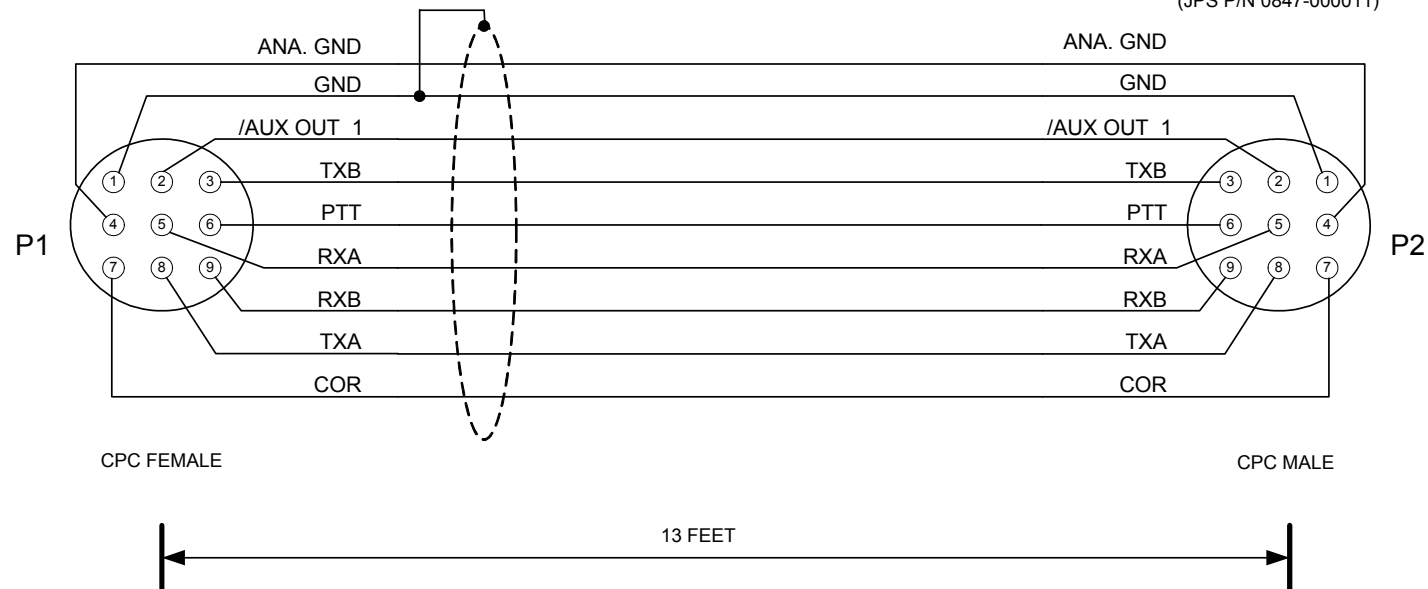
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date		JANUARY 5, 2004	Sheet <u>1</u> of <u>1</u>

Rev	ECO	Date
A		

PURCHASED PART

CONNECTOR AMP P/N 206708-1
(JPS P/N 0362-005003)
FEMALE PIN AMP P/N 1-66105-8
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4
(JPS P/N 0362-009001)
MALE PIN AMP P/N 1-66103-7
(JPS P/N 0847-000011)



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By: JAC	Raytheon JPS Communications Raleigh, NC USA		
Drawn By: JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-281013-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	