

Engineer: Bruce Page	Date: 8/9/06	 JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Bruce Page	Date: 8/9/06				
Approved: CTS	Date: 8/17/06	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 8/17/06	Size: A	Dwg. #: 5961-271318-APP	Rev: A	Sheet: 1 Of 2

APPLIES TO: Motorola XTL5000 Console Radio with TRC Option

RADIO MODIFICATIONS:

Tone Remote Control Board DIP switch settings are require to change from factory defaults.
Switch S101-7 = OFF position and switch S101-8 = ON position.

RADIO PROGRAMMING:

1. Console radios should normally be programmed for low transmit power.
2. In order to use External PTT the factory default setting of AUX TX and 300mV input level must be selected on the Radio Configuration>Radio Wide>Advanced screen.

RADIO CONTROL: None required.

CABLING:

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

ACU-1000 Interface Cable	JPS P/N 5961-291318	(5961-271318 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281318	(5961-271318 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271318	
Radio RF Connector Type	N-Type Female	

DSP JUMPERS:

JP1	Low Impedance *
JP2	Balanced *

DSP PROGRAMMING:

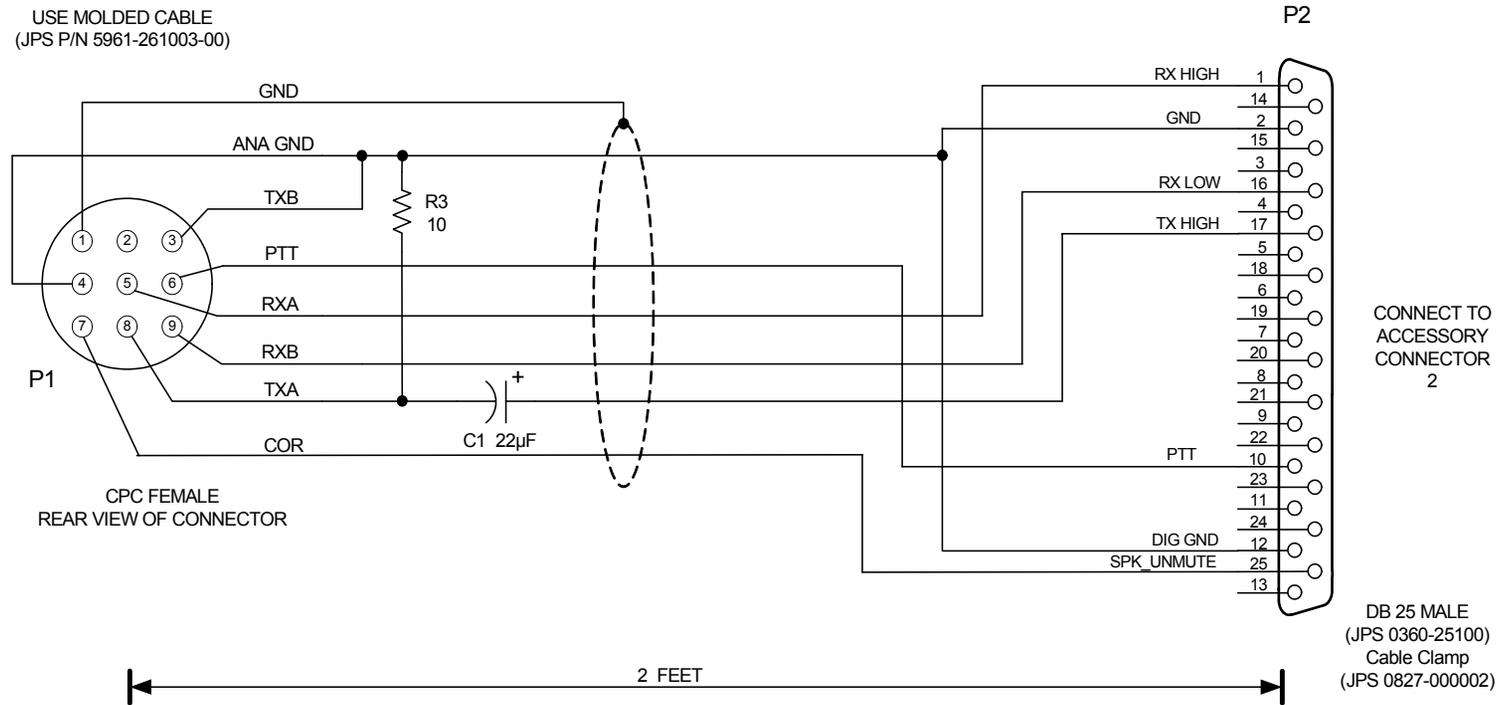
RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	COR	
COR Polarity	Active Low*	
High Frequency Equalizer	6	3.5 dB Boost
RX Audio Delay	0	20 ms
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

(* Indicates Default Value)

PURCHASED PART

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USE MOLDED CABLE
(JPS P/N 5961-261003-00)



CONNECT TO
ACCESSORY
CONNECTOR
2

DB 25 MALE
(JPS 0360-25100)
Cable Clamp
(JPS 0827-000002)

2 FEET

COMPONENT PCB
(JPS P/N 5961-271000)

C1 JPS P/N 0321-220250
R3 JPS P/N 1820-100000
JU2
JU4
JU5

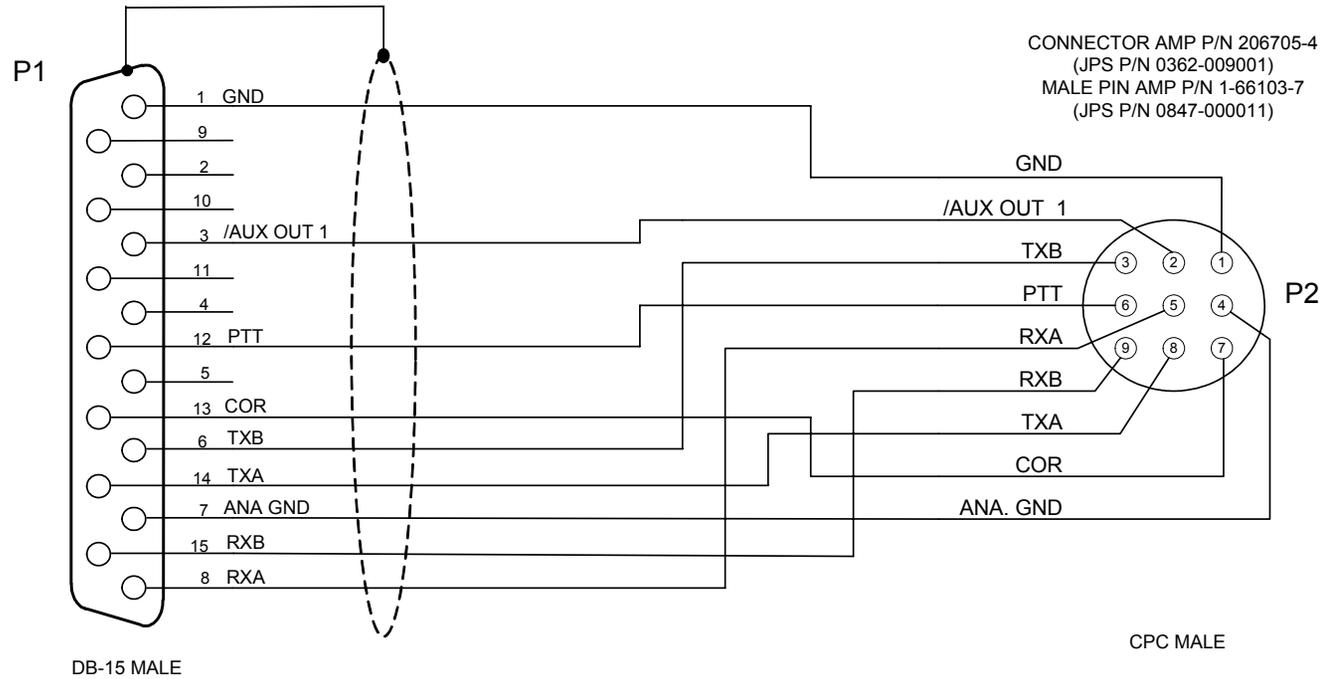
NOTE: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

USED WITH:
MOTOROLA XTL5000 CONSOLETTTE WITH TRC OPTION

Designed By:	JAC	Raytheon JPS Communications Raleigh, NC USA		
Drawn By:	RBP	Title CABLE, CPC TO MOTOROLA XTL5000 CONSOLETTTE WITH TRC OPTION		
Checked By:	CTS	Size A	Document Number 5961-271318	Rev A
		Issued Date	August 17, 2006	Sheet 1 of 1

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).

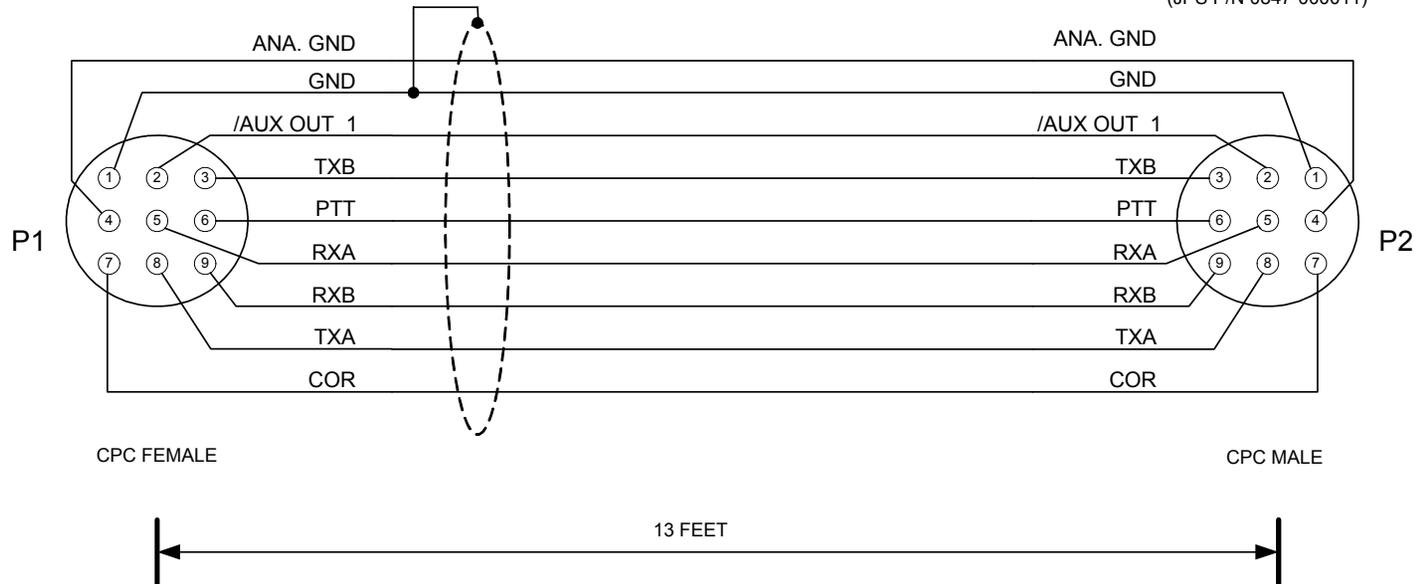
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

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>	