

Engineer: Jack Curtis	Date: 4/22/04	 JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Jack Curtis	Date: 4/22/04				
Approved: CTS	Date: 4/22/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 7/08/05	Size: A	Dwg. #: 5961-271286-APP	Rev: B1	Sheet: 1 Of 1

APPLIES TO:

M/A-COM Panther 605P Portable Radio
Tait Orca 5000 Series Portable Radio

RADIO MODIFICATIONS:

None required.

RADIO PROGRAMMING:

None required.

RADIO CONTROLS:

1. 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 TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291286	(5961-271286 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281286	(5961-271286 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271286	
Radio RF Connector Type		

DSP PROGRAMMING:

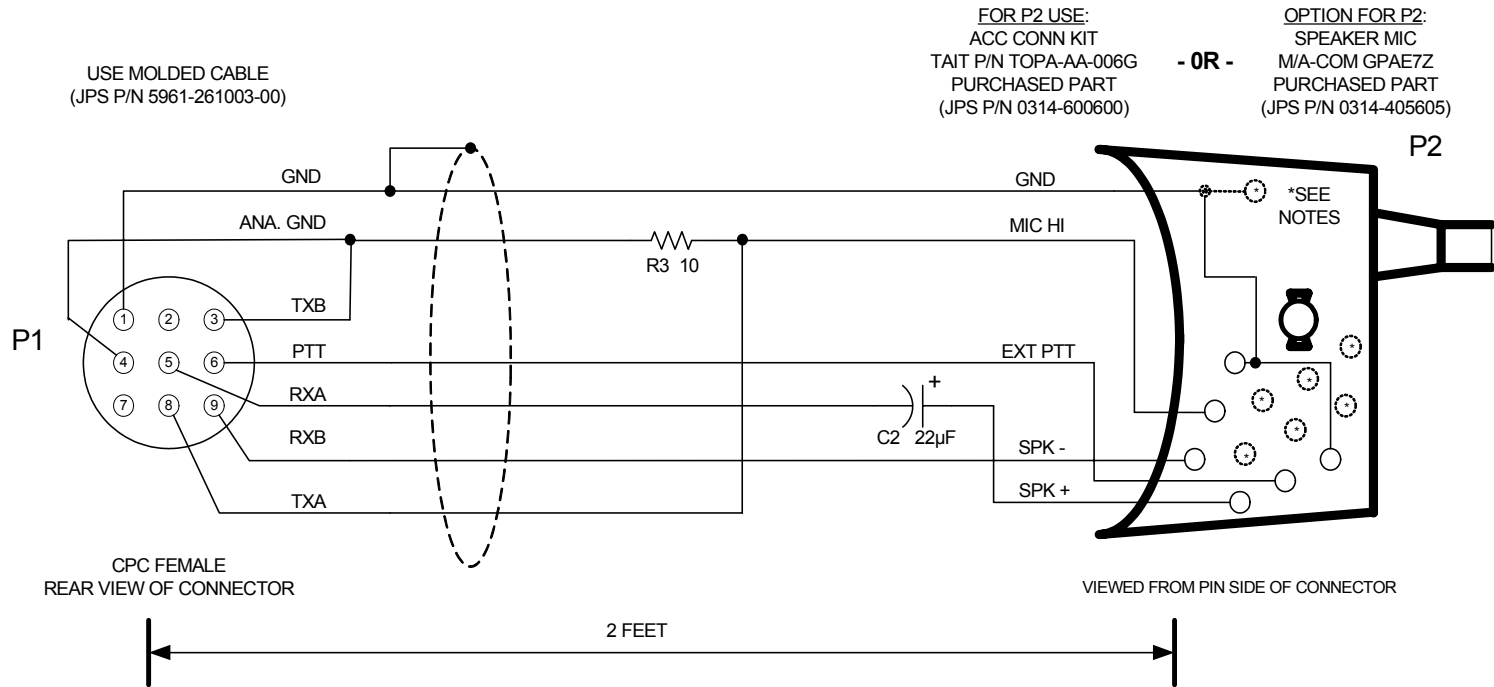
RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

(* Indicates Default Value)

NOTES:

PURCHASED PART

Rev	ECO	Date
B1		7/8/05



COMPONENT PCB
(JPS P/N 5961-271000)

R3 JPS P/N 1820-100000
C2 JPS P/N 0321-220250
JU1
JU2
JU5

FOR ACC PCB WIRING USE FOLLOWING:

PAD1 = MIC HI
PAD2 = GND
PAD3 = PTT
PAD6 = SPEAKER -
PAD7 = SPEAKER +

SHORT LK1 ON PCB - REQUIRED TO TURN
OFF RADIO SPEAKER WHEN USING
INTERFACE.

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

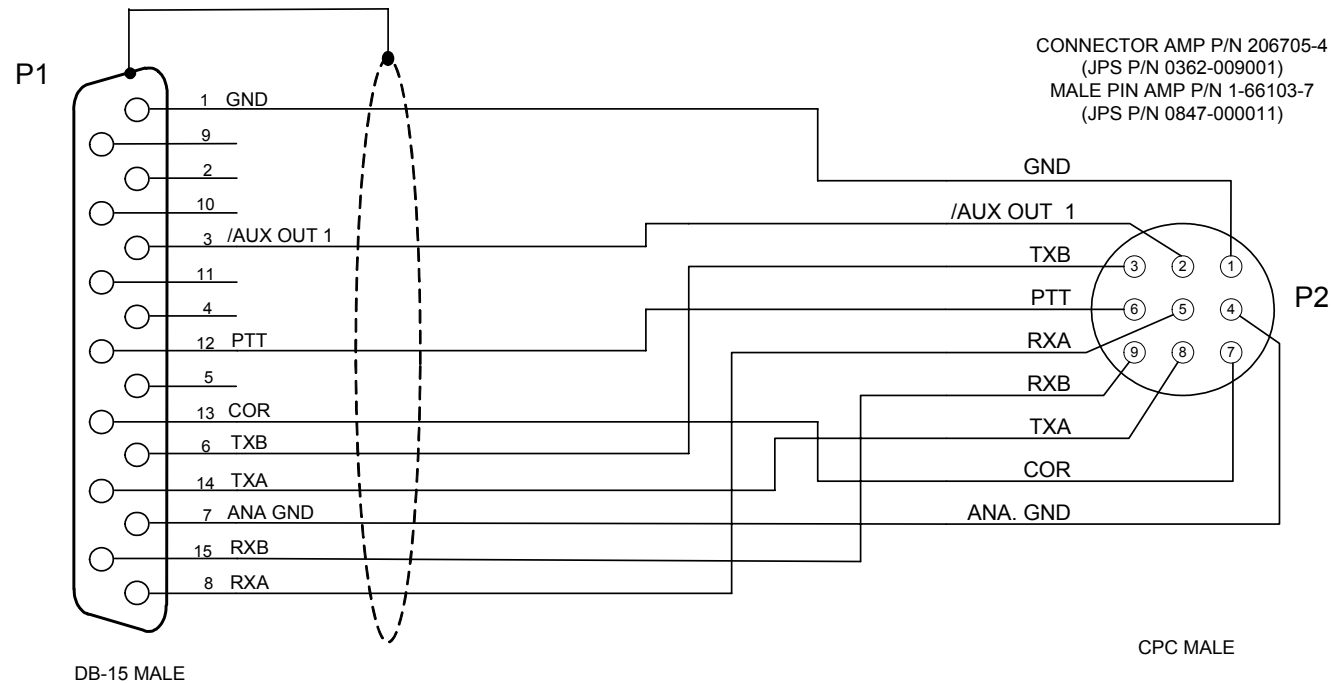
* DEPENDING ON VERSION OF CONNECTOR USED
* ADDITIONAL PINS SHOWN MAY BE PRESENT.

USED WITH:
ERICSSON-GE-MACOM PANTHER 605P PORTABLE
TAIT ORCA 5000 SERIES PORTABLE

Designed By:	RBP	Raytheon JPS Communications Raleigh, NC USA		
Drawn By:	RBP	Title CABLE, CPC TO M/A-COM PANTHER 605P		
Checked By:	CTS	Size A	Document Number 5961-271286	Rev B1
		Issued Date	FEBRUARY 3, 2005	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).

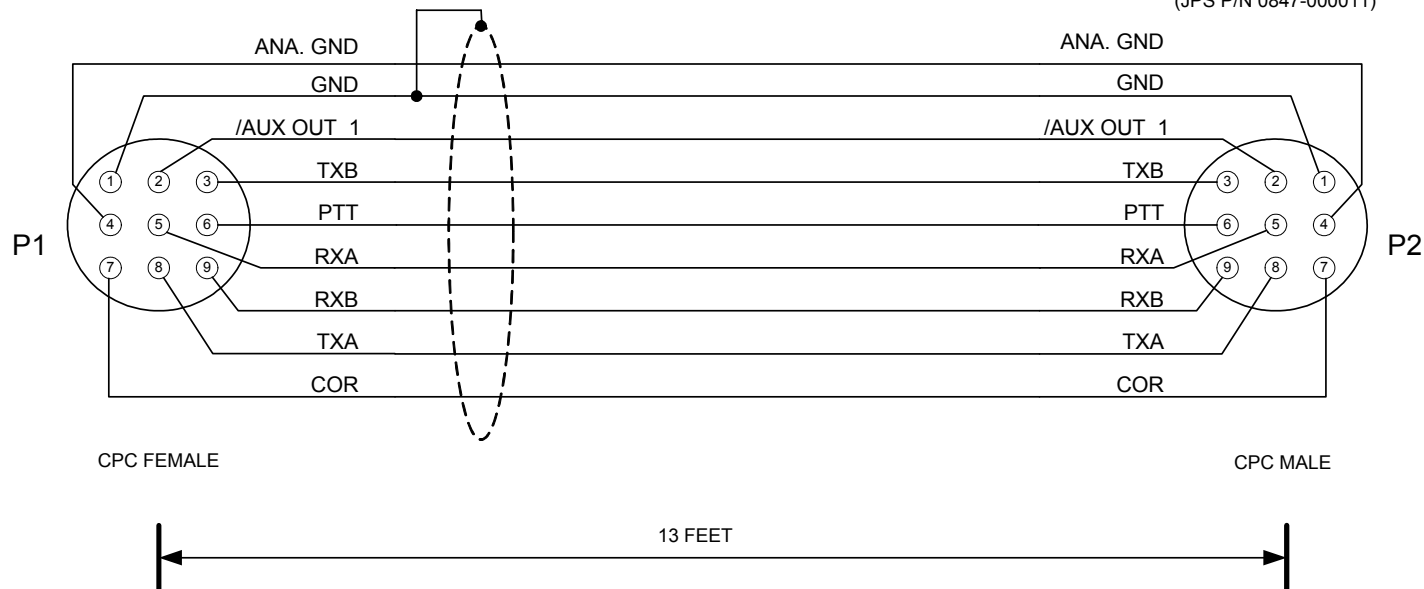
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

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>	