

Engineer: Chris Samios	Date: 3/11/04	 Raytheon JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Bruce Page	Date: 3/11/04				
Approved: Jack Curtis	Date: 3/11/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 4/25/05	Size: A	Dwg. #: 5961-271172-APP	Rev: C	Sheet: 1 Of 1

APPLIES TO: Vertex VX800 Portable

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING: Not Required.

RADIO CONTROLS:

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio. Should be about in the mid-range (12 o'clock) position.

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 5961-291172	(5961-271172 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281172	(5961-271172 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271172	
RF Connector Type	NA	

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	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)

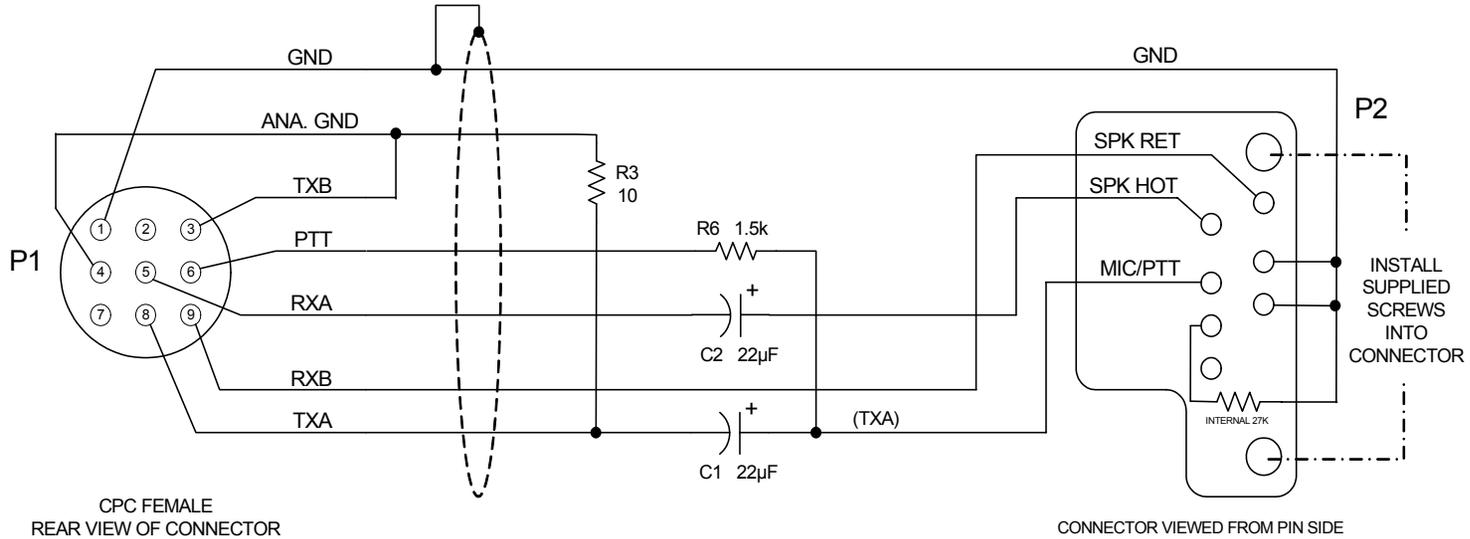
NOTES:

Rev	ECO	Date
C		04-25-05

PURCHASED PART

USE OTTO EXTERNAL SPK/MIC CURL
CORD ASSY
P/N V3-10254
(JPS P/N 0314-000211)

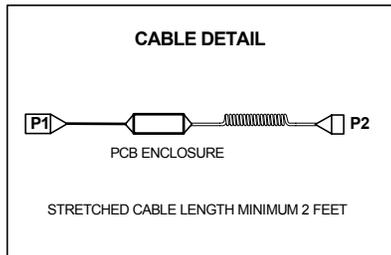
USE MOLDED CABLE
(JPS P/N 5961-261003-00)



CPC FEMALE
REAR VIEW OF CONNECTOR

CONNECTOR VIEWED FROM PIN SIDE

INSTALL
SUPPLIED
SCREWS
INTO
CONNECTOR



USED WITH:
VERTEX VX800 PORTABLE

COMPONENT PCB
(JPS P/N 5961-271000)

C1	JPS P/N 0321-220250
C2	JPS P/N 0321-220250
R3	JPS P/N 1820-100000
R6	JPS P/N 1820-152000
JU2	
JU5	

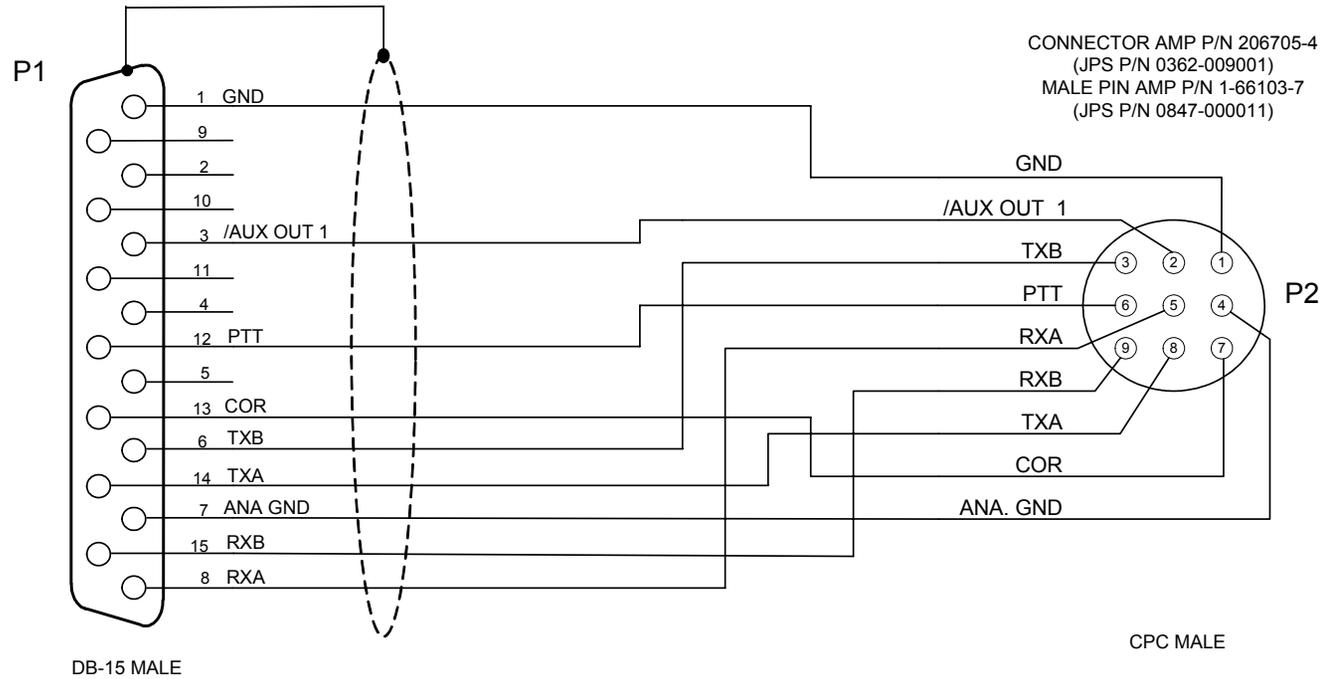
NOTES: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

FOR DETAILED CABLE ASSEMBLY INSTRUCTIONS SEE
5961-271001-CBL.

Designed By:	CTS	Raytheon JPS Communications Raleigh, NC USA	
Drawn By:	EDV	Title CABLE, CPC TO VERTEX VX800	
Checked By:	JAC	Size	Document Number
		A	5961-271172
Issued Date		NOVEMBER 18, 2003	Rev C
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PURCHASED PART

Rev	ECO	Date
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- 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).

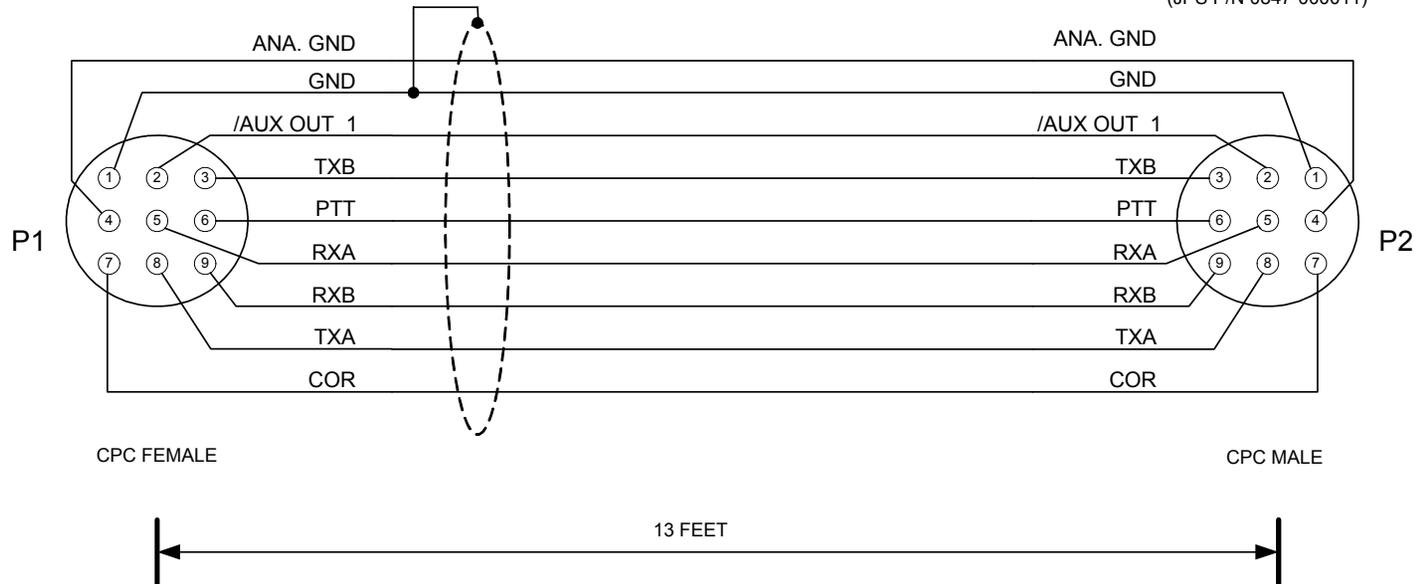
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

Rev	ECO	Date
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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>	