

Engineer: Bruce Page	Date: 9/28/05	 Raytheon JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Bruce Page	Date: 9/28/05				
Approved: Chris Samios	Date: 9-29-05	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 9-29-05	Size: A	Dwg. #: 5961-271298-APP	Rev: A	Sheet: 1 Of 2

APPLIES TO: Kenwood TK-930 /930 (HD) 800MHz Mobile

RADIO MODIFICATIONS: None Required

RADIO PROGRAMMING: None Required

RADIO CONTROLS:

Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio. The full volume position will typically be 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 5961-291289	(5961-271298 + 5961-261002-00)
ACU-T Cable	JPS P/N 5961-281289	(5961-271298 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271289	
RF Connector Type	N-Type Female	

DSP JUMPERS:

JP1	High Impedance (SEE NOTES)
JP2	Balanced *

DSP PROGRAMMING:

RX Level	5	-8dBm
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* (SEE NOTES)
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:

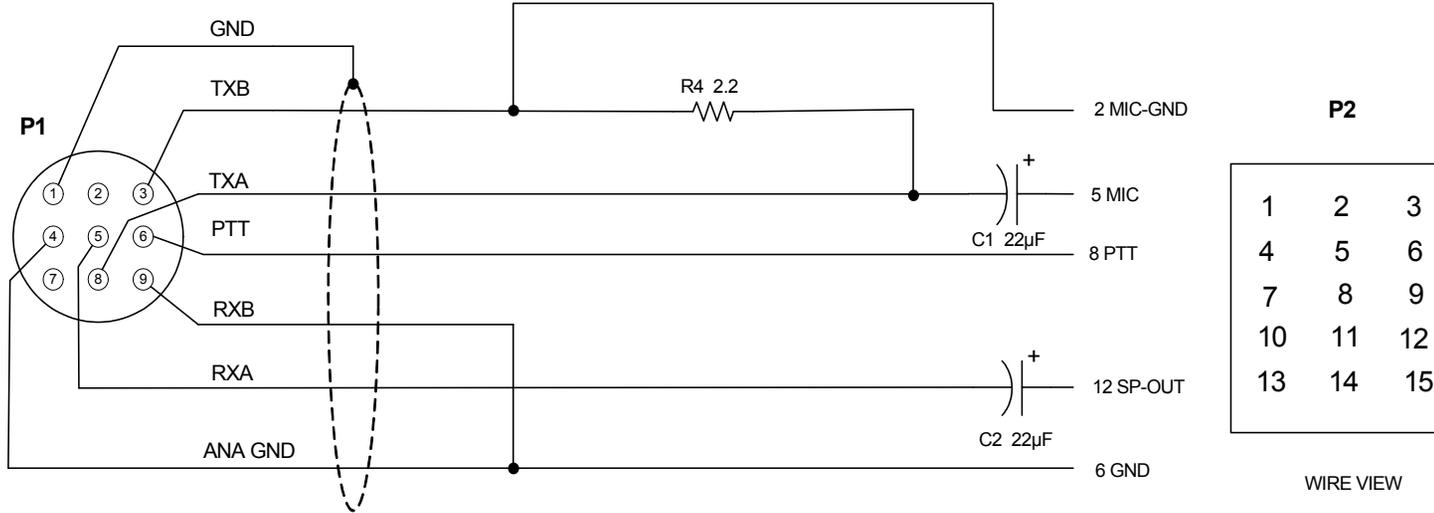
The DSP Module for this Interface Cable must have the default setting of JP1 change to the High Impedance as shown above. Also required is the radios' Volume in the Full Position with RX level setting of 5 (-8dBm).

If the radio is trunked, set the TX Audio Delay to 4 (800 ms).

PURCHASED PART

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



CPC FEMALE
REAR VIEW OF CONNECTOR

WIRE VIEW



ACC 15 PIN CONNECTOR
KENWOOD E09-1571-05
(JPS P/N 0360-015002)

CRIMP TERMINALS
KENWOOD E23-0613-05
(JPS P/N 0847-000012)

COMPONENT PCB (JPS P/N 5961-271000)	
C1	JPS P/N 0321-220250
C2	JPS P/N 0321-220250
R4	JPS P/N 1820-022000
JU2	
JU6	

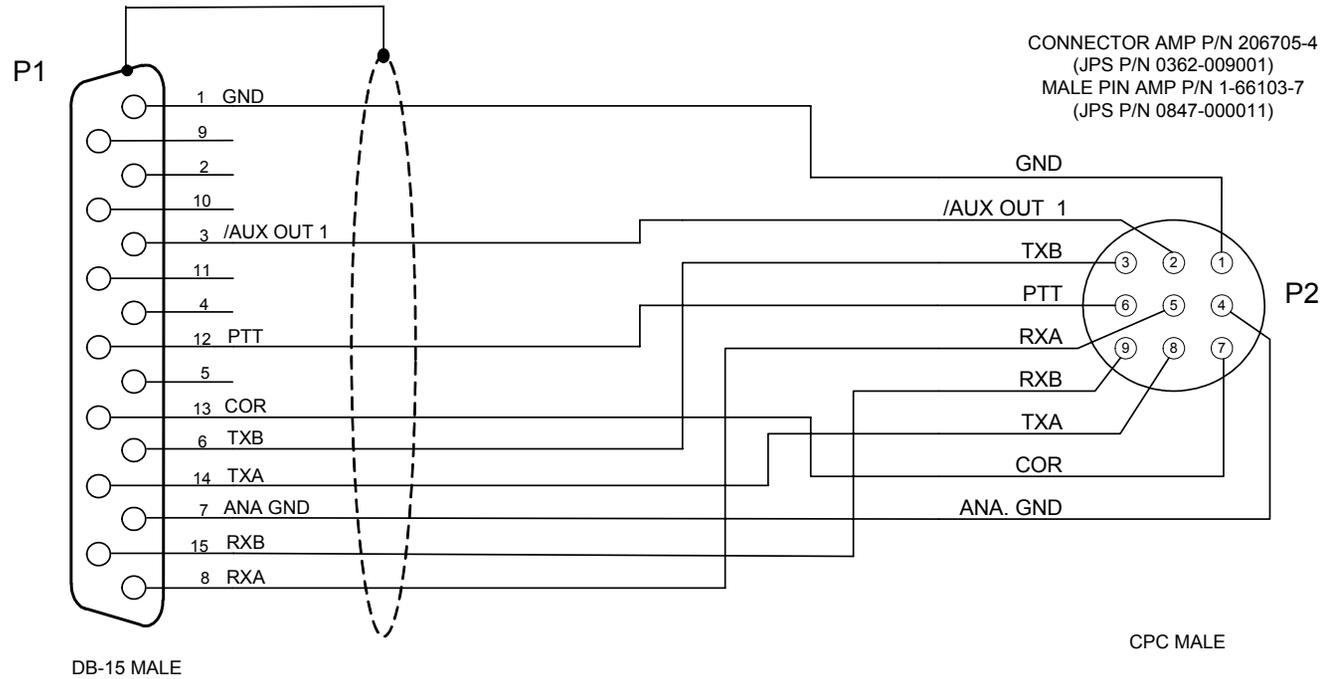
NOTE: USE SHIELDED CABLE. SHIELD DRAINS CONNECTED TO PIN 1 OF P1 ONLY.

USED WITH:
KENWOOD TK-930 / 930(HD) MOBILE

Designed By: RBP	Raytheon JPS Communications		
Drawn By: RBP	Title CABLE, CPC TO KENWOOD TK-930 MOBILE		
Checked By: CTS	Size A	Document Number 5961-271298	Rev A
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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).

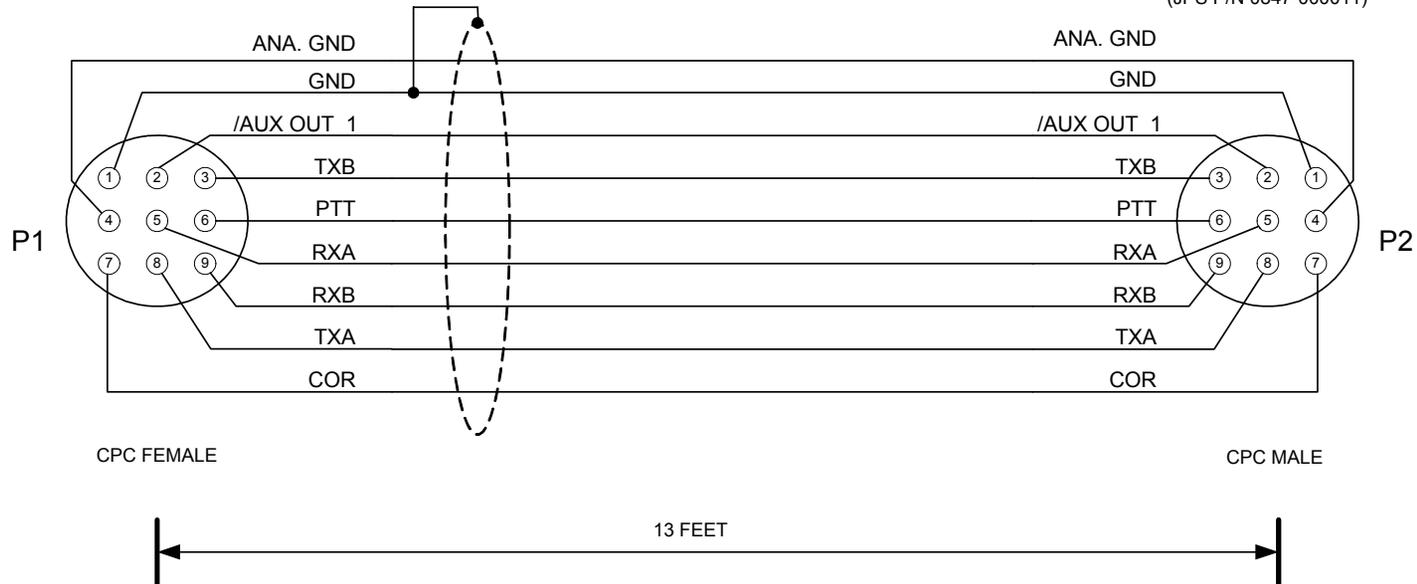
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

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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>