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Approved: Chris Samios	Date: 4/01/05	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 4/04/05	Size: A	Dwg. #: 5961-271291-APP	Rev: A	Sheet: 1 Of 2

APPLIES TO: Sepura SRM2000 Mobile

RADIO MODIFICATIONS: The Applications Interface Unit Sepura P/N 300-00087 is required in order to use the JPS P/N 5961-271291 Radio Interface Cable. (See AIU detail in **NOTES:** section) The interface cable plugs into AA11 or AA12 position as shown.

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 5961-291291	(5961-271291 + 5961-261002-00)
ACU-T Cable	JPS P/N 5961-281291	(5961-271291 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271291	
RF Connector Type	BNC	

DSP-1 JUMPERS:

JP1	Low Impedance *
JP2	Balanced *

DSP PROGRAMMING:

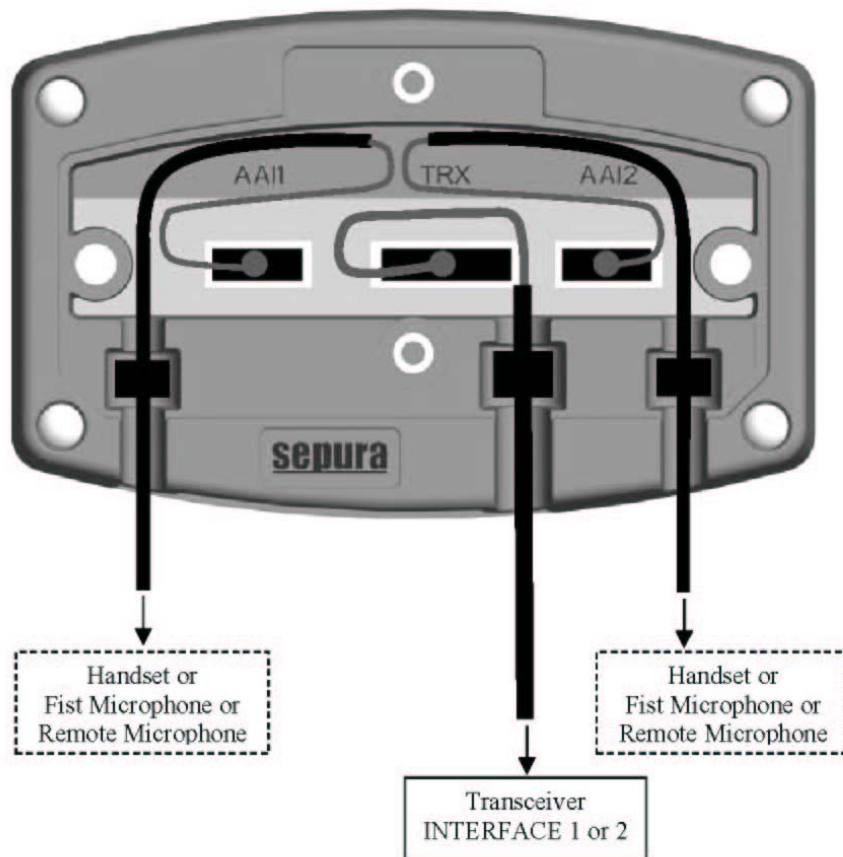
RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*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

(* Indicates Default Value)

NOTES: **AIU Interface Unit Sepura P/N 300-0087**

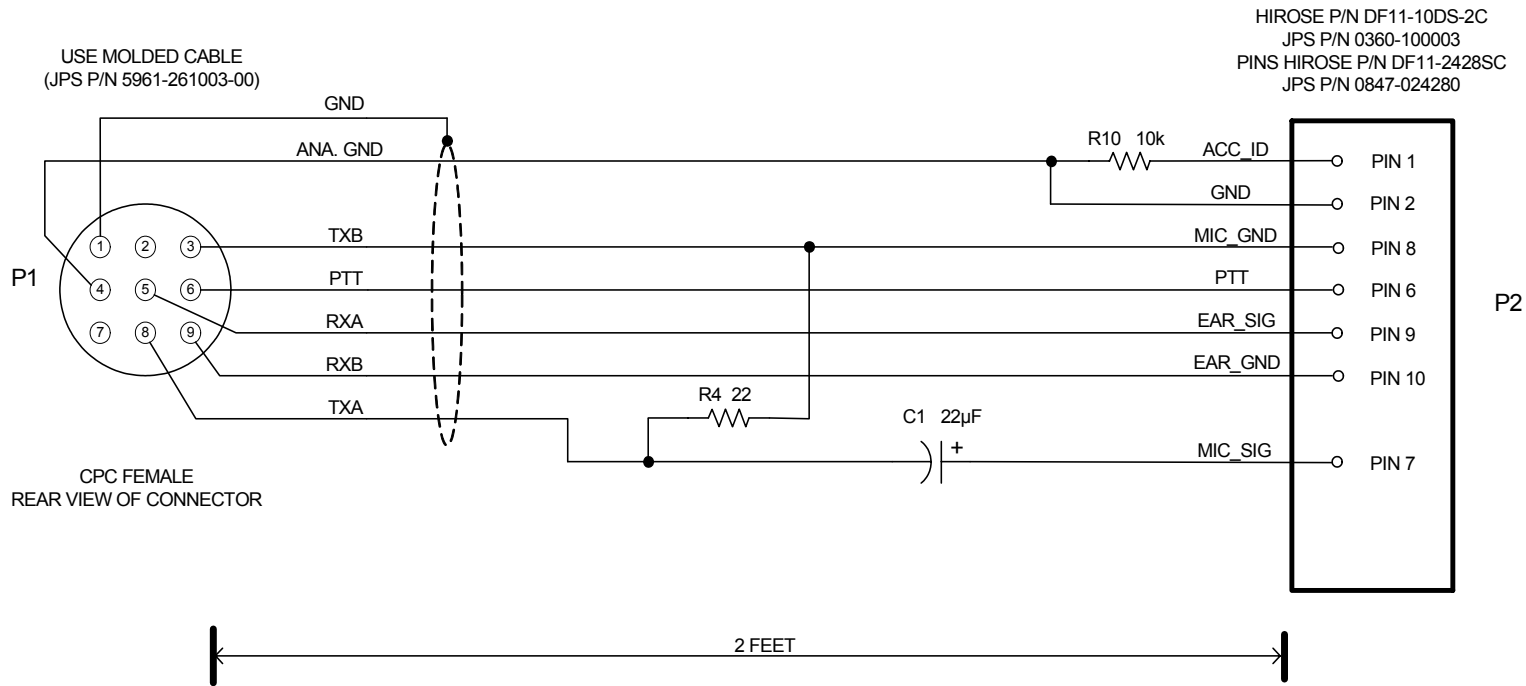
Connect JPS Interface Cable 5961-271291 to AAI1 or AAI2. The Transceiver Interface TRX should be connected to INTERFACE 1 or INTERFACE 2 using Sepura P/N 300-00067(0.5m), P/N 300-00068(2m), P/N 300-00069(5m), P/N 300-00070(10m) cables.

Internal sockets & cable routing



PURCHASED PART

Rev	ECO	Date
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CPC FEMALE
REAR VIEW OF CONNECTOR

COMPONENT PCB
(JPS P/N 5961-271000)

C1 JPS P/N 0321-220250
R4 JPS P/N 1820-220000
R10 JPS P/N 1820-103000
JU2
JU4

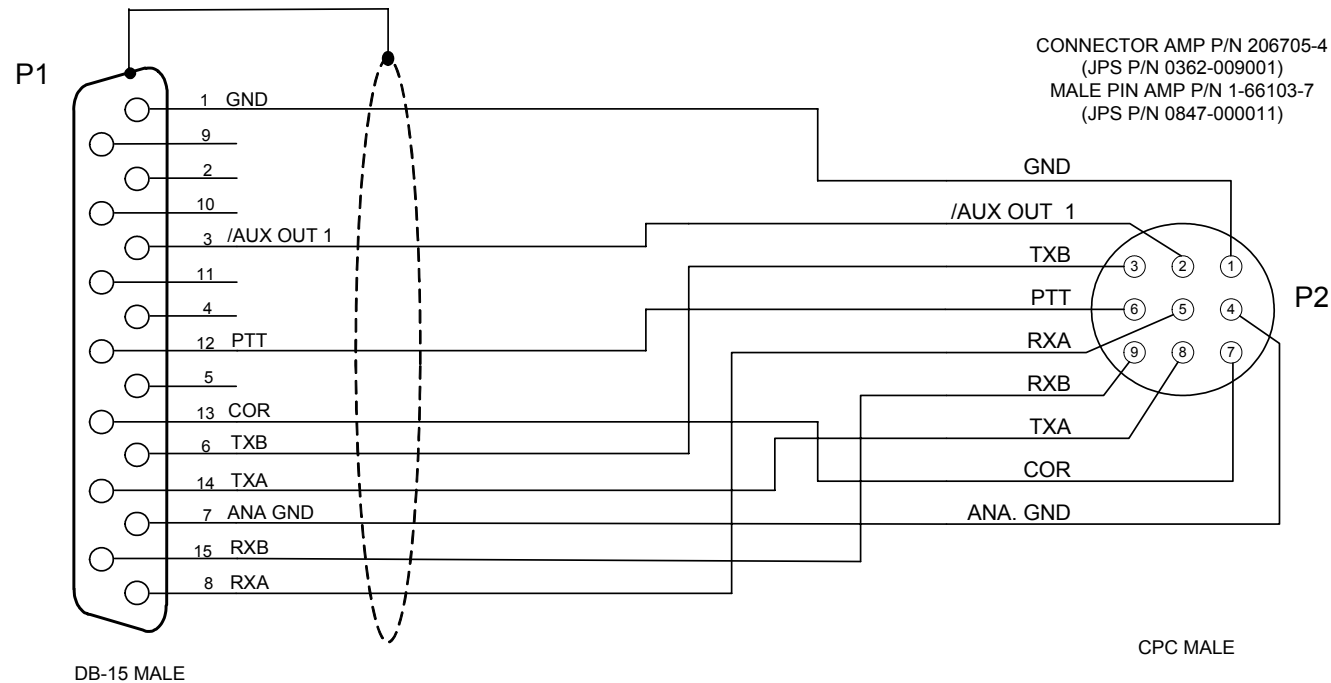
NOTE: CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.

USED WITH:
SEPURA SRM2000 MOBILE

Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, CPC TO SEPURA SRM2000 MOBILE		
Checked By: RBP	Size A	Document Number 5961-271291	Rev A
Issued Date		MARCH 10, 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).

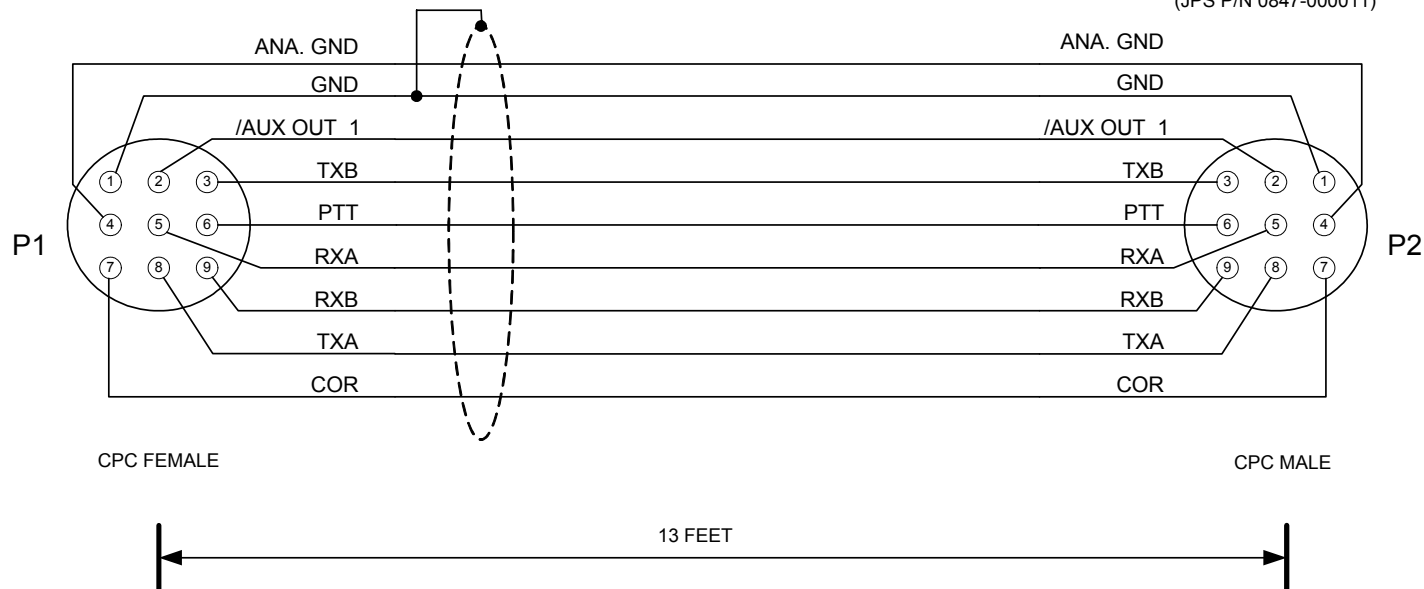
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

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>	