

Engineer: Bruce Page	Date: 4/12/04	 JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Bruce Page	Date: 4/12/04				
Approved: Jack Curtis	Date: 4/12/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 7/7/06	Size: A	Dwg. #: 5961-271151-APP	Rev: B	Sheet: 1 Of 1

APPLIES TO: Ericsson-GE-M/A-Com MDX Mobile (14-Pin Option Cable)

RADIO MODIFICATIONS:

1. The radio requires the 14-Pin Option Cable PMCD9A (Ericsson P/N 19C851585G14).

RADIO PROGRAMMING:

1. Mobile radios should normally be programmed for low transmit power.

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 5961-291151	(5961-271151 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281151	(5961-271151 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271151	
Radio RF Connector Type	Female TNC	

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:

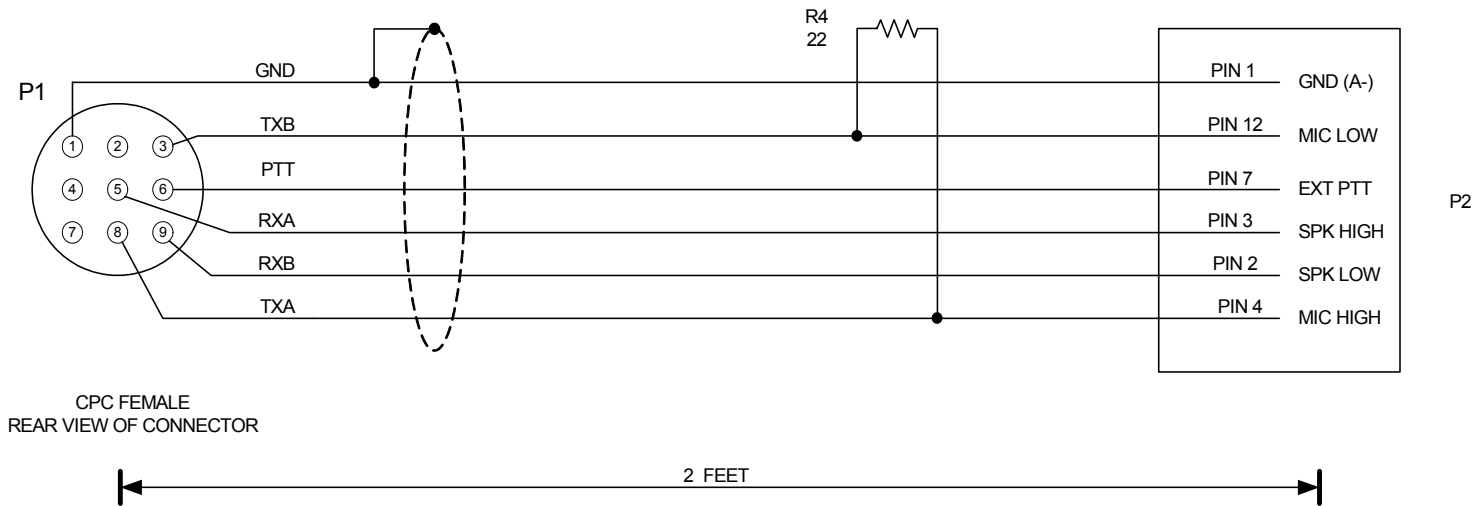
PURCHASED PART

Rev	ECO	Date
B		7-7-06

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

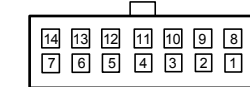
NOTE: RADIO MUST HAVE ERICSSON
OPTION CABLE PMCD9A INSTALLED
(ERICSSON P/N 19C851585G14)

ERICSSON RADIO END
14- PIN MOLEX CONNECTOR 39-01-2140
(JPS P/N 0360-014000)
MOLEX PINS 039-00-0047
(JPS P/N 0847-000022)



CPC FEMALE
REAR VIEW OF CONNECTOR

2 FEET



PLUG VIEWED FROM REAR

COMPONENT PCB
(JPS P/N 5961-271000)

R4 JPS P/N 1820-220000
JU1
JU2
JU4

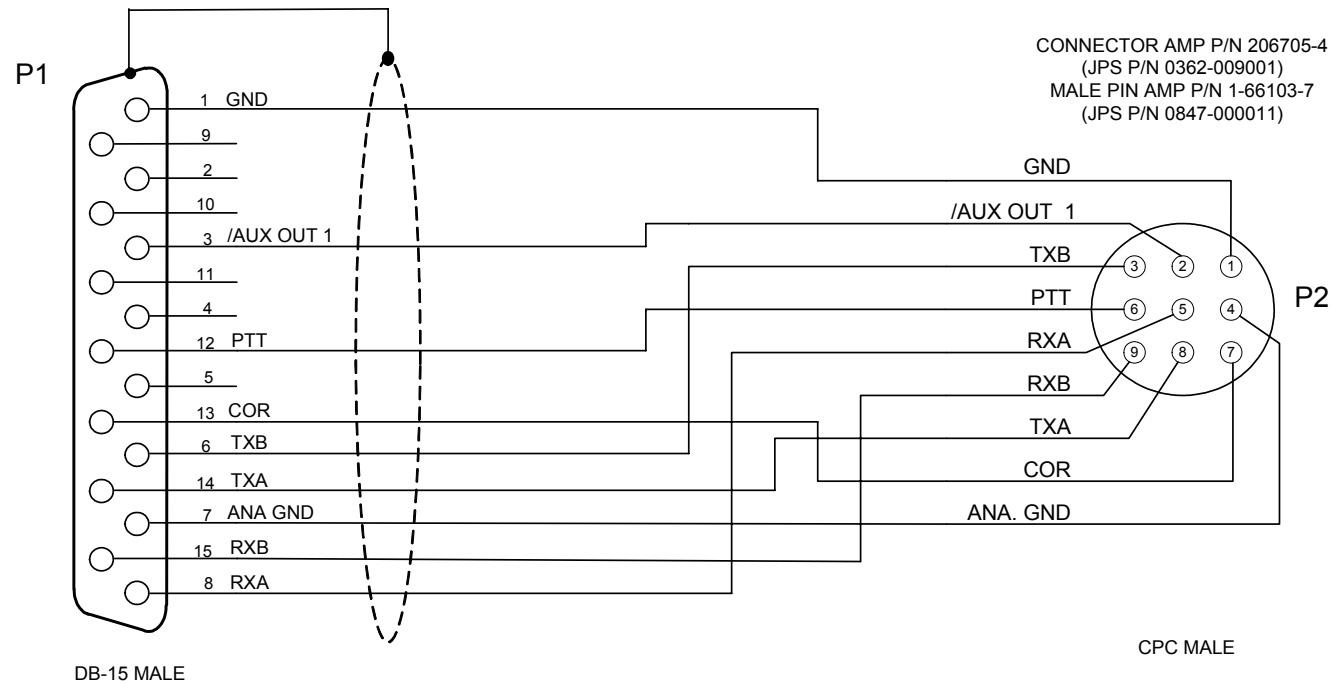
NOTE: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

USED WITH:
ERICSSON-GE MDX MOBILE (14-PIN OPTION CABLE)

Designed By: CTS	Raytheon JPS Communications Raleigh, NC USA		
Drawn By: EDV	Title CABLE, CPC TO ERICSSON-GE MDX		
Checked By: JAC	Size A	Document Number 5961-271151	Rev B
Issued Date NOVEMBER 3, 2003		Sheet 1 of 1	

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).

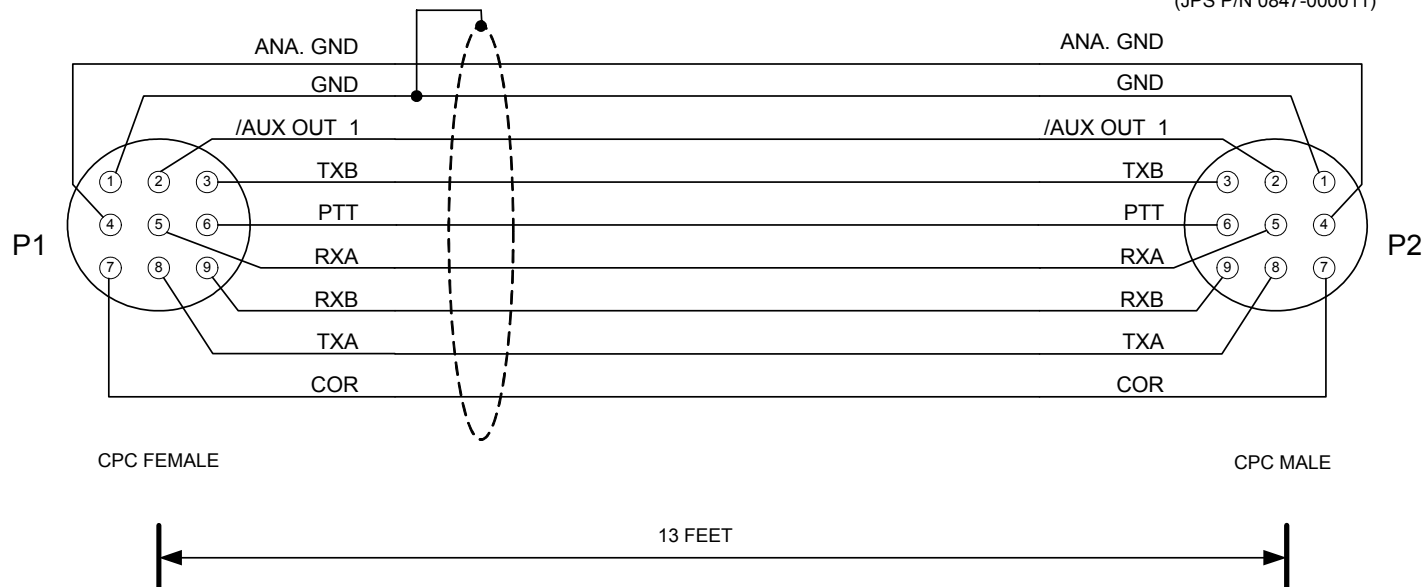
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

Rev	ECO	Date
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>	