

Engineer: Chris Samios	Date: 5/13/02	 Raytheon JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Jack Curtis	Date: 5/13/02				
Approved: CTS	Date: 5/13/02	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 3/24/04	Size: A	Dwg. #: 5961-271121-APP	Rev: A	Sheet: 1 Of 1

APPLIES TO:

Bendix/King EMV UHF Mobile Radio

RADIO MODIFICATIONS:

1. Provide an external COR signal by installing a wire from pin 5 of IC4 to pin 6 of the DB-9 option connector.

RADIO PROGRAMMING:

1. Mobile radios should normally be programmed for low transmit power.
2. One of the front panel function buttons must be programmed for "SPK".

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.
2. Press the "SPK" button until the triangular indicator directly above the button is displayed.

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 5961-291121	(5961-271121 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281121	(5961-271121 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271121	
Radio RF Connector Type	Mini UHF	

DSP PROGRAMMING:

RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	COR	
COR Polarity	Active High	
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)

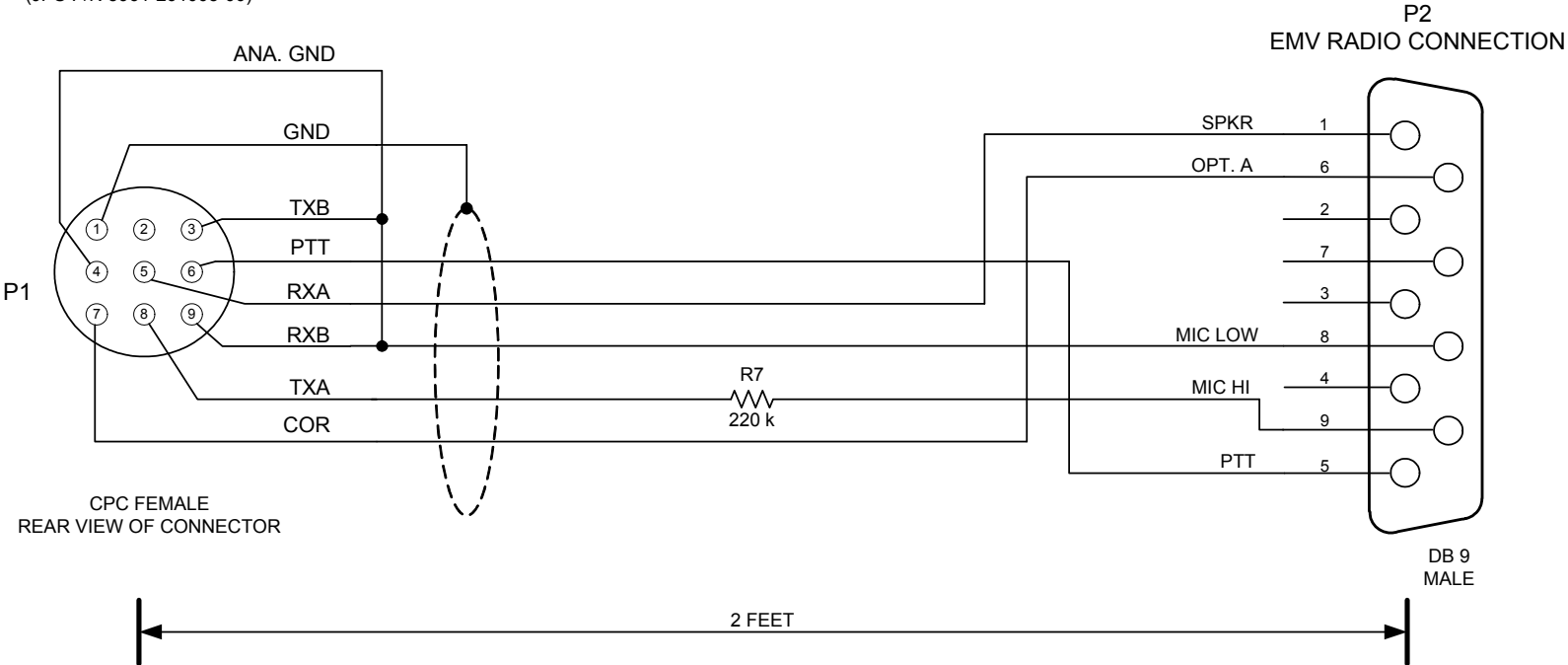
NOTES:

1. In lieu of the external COR modification, Squelch Type may be set to "VOX".

PURCHASED PART

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



CPC FEMALE
REAR VIEW OF CONNECTOR

DB 9
MALE

2 FEET

COMPONENT PCB
(JPS P/N 5961-271000)

R7 JPS P/N 1820-224000
JU1
JU4
JU5
JU6

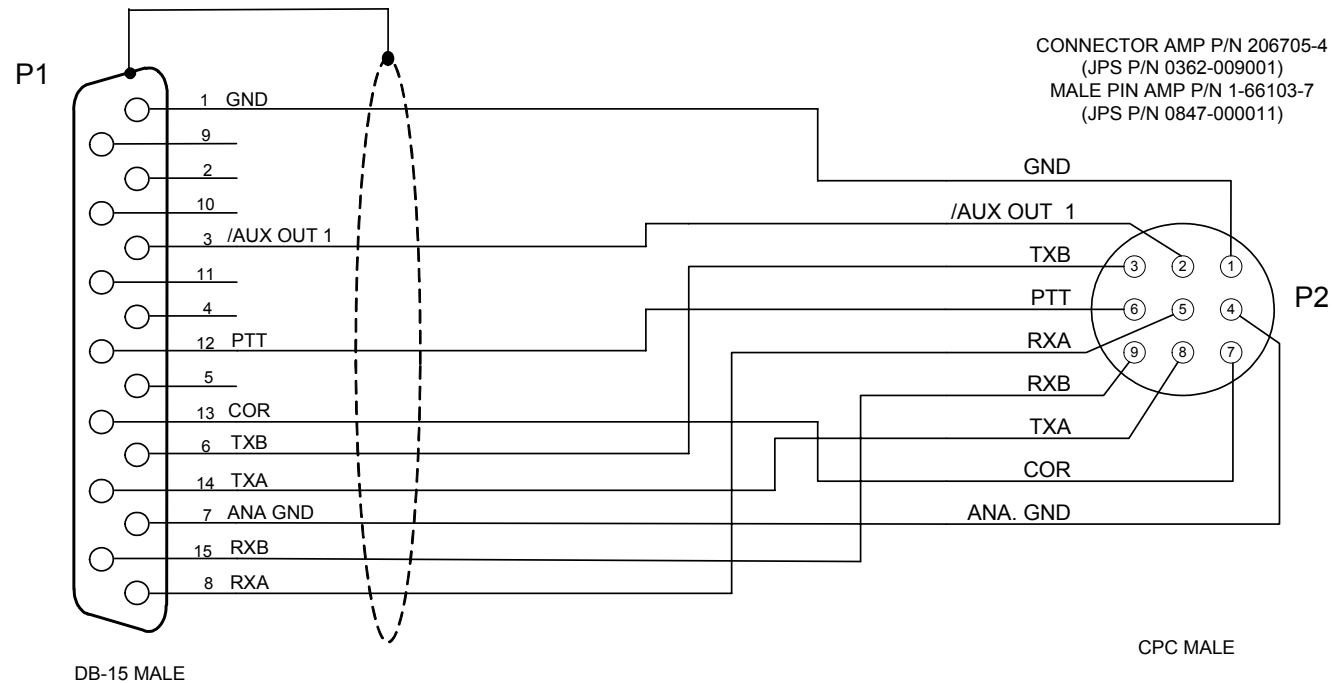
NOTE: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

USED WITH:
BENDIX/KING EMV MOBILE

Designed By: CTS	Raytheon JPS Communications Raleigh, NC USA		
Drawn By: EDV	Title CABLE, CPC TO BK RADIO EMV (UHF)		
Checked By: JAC	Size A	Document Number 5961-271121	Rev A
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PURCHASED PART

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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).

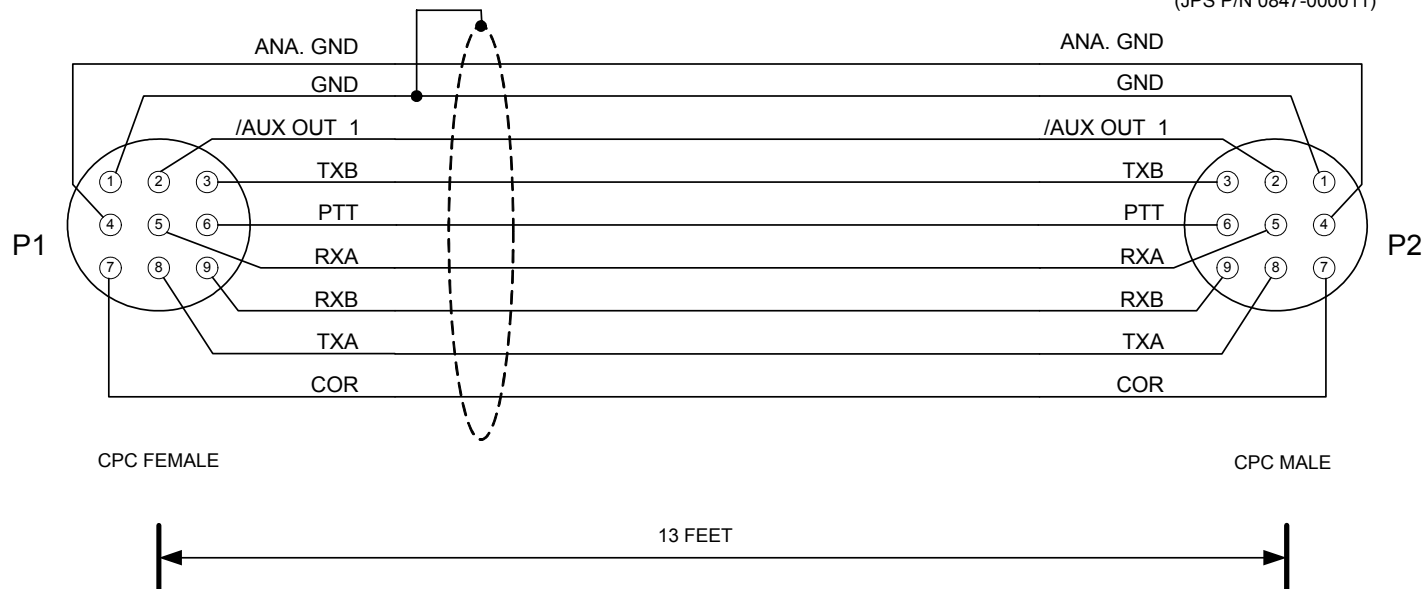
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

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
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