

Engineer: Bruce Page	Date: 2/10/06	 Raytheon JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Bruce Page	Date: 2/10/06				
Approved: Chris Samios	Date: 2/24/06	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 2/24/06	Size: A	Dwg. #: 5961-271308-APP	Rev: A	Sheet: 1 Of 2

APPLIES TO: ICOM IC-2720H Dual Band Mobile Radio

RADIO MODIFICATIONS:

The interface cable's 3.5mm plug P2 is connected to the external speaker jack SP-1 (left side rear). The interface cable's RJ45 microphone plug P3 may be connected to either of the two microphone connectors on the IC-2720H. The radio's microphone may be used at the same time as the interface cable.

RADIO PROGRAMMING: None required.

RADIO CONTROLS:

Adjust the left and then the right Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio for that band. This should be about straight up for 50% full volume level. The Squelch Controls should be adjusted for the correct RF attenuation.

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 5961-291308	(5961-271308 + 5961-261002-00)
ACU-T Cable	JPS P/N 5961-281308	(5961-271308 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271308	
RF Connector Type	PL259	

DSP 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*

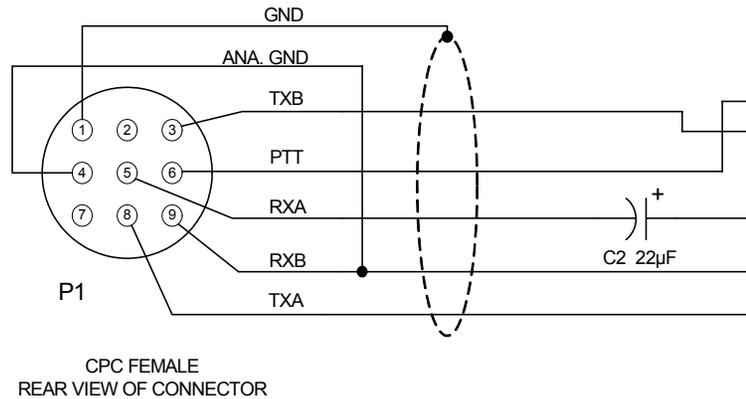
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

(* Indicates Default Value)

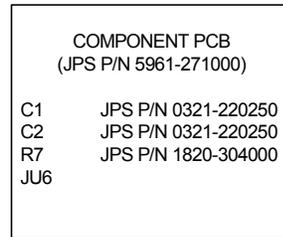
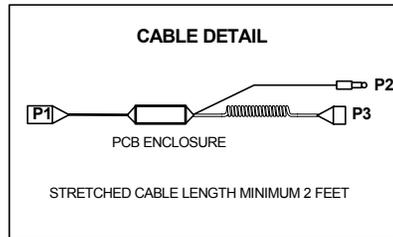
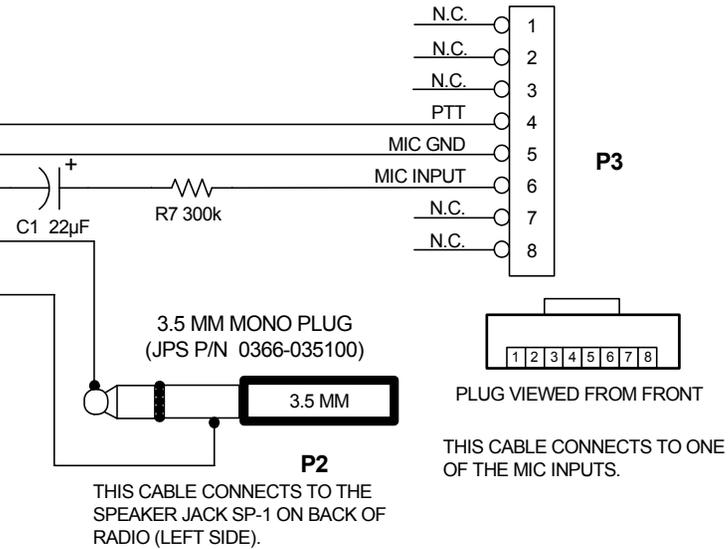
PURCHASED PART

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



MAKE FROM HM-133 MIC
REPLACEMENT CABLE
ICOM P/N 8900011270
(JPS PN 0314-000222)



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

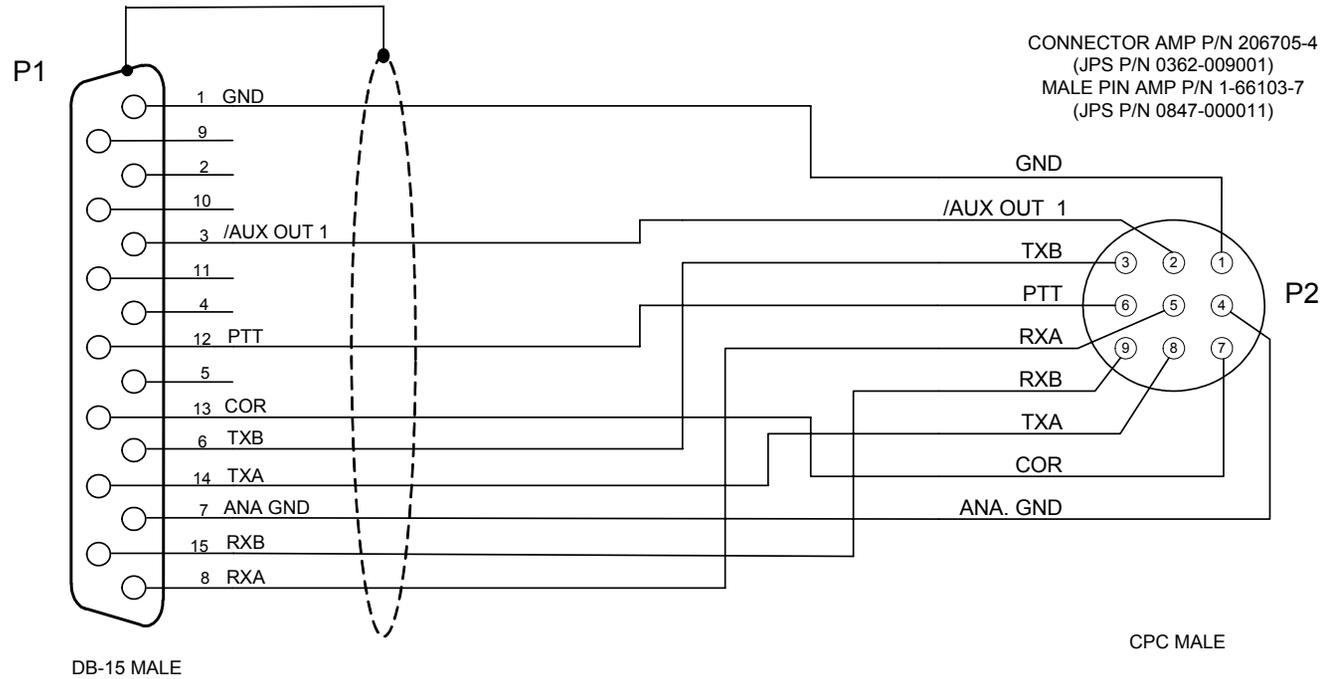
FOR DETAILED CABLE ASSEMBLY INSTRUCTIONS SEE
5961-271001-CBL.

USED WITH:
ICOM IC-2720H DUAL BAND FM (SPEAKER/MICROPHONE)

Designed By: RBP	Raytheon JPS Communications Raleigh, NC USA		
Drawn By: RBP	Title CABLE, CPC TO ICOM SPEAKER / MICROPHONE		
Checked By: CTS	Size A	Document Number 5961-271308	Rev A
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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).

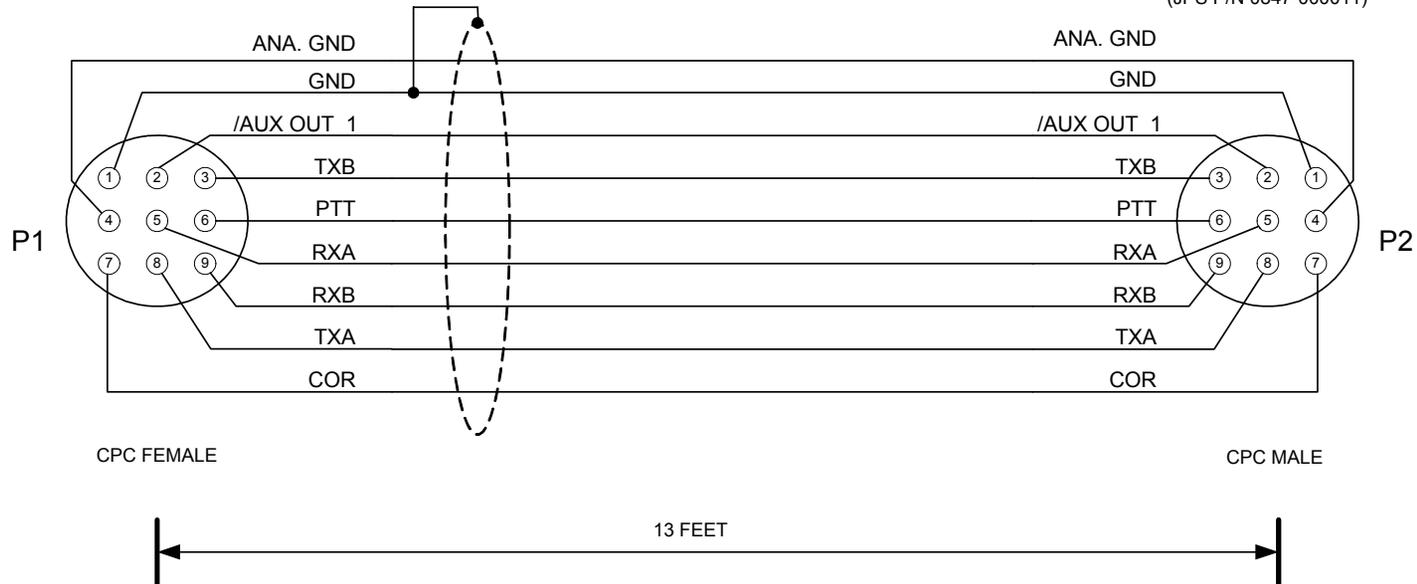
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
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PURCHASED PART

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		
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