

Engineer: Jack Curtis	Date: 4/22/04	 JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Jack Curtis	Date: 4/22/04				
Approved: CTS	Date: 4/22/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 4/22/04	Size: A	Dwg. #: 5961-271261-APP	Rev: A	Sheet: 1 Of 1

APPLIES TO: Motorola STX Portable Radio

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING: None required.

RADIO CONTROLS:

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio.

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 5961-291261	(5961-271261 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281261	(5961-271261 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271261	
Radio RF Connector Type		

DSP PROGRAMMING: (See Notes)

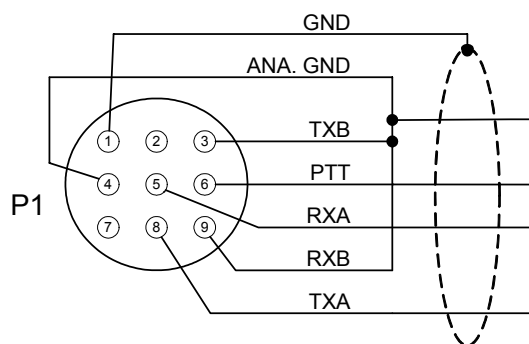
RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*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

(* Indicates Default Value)

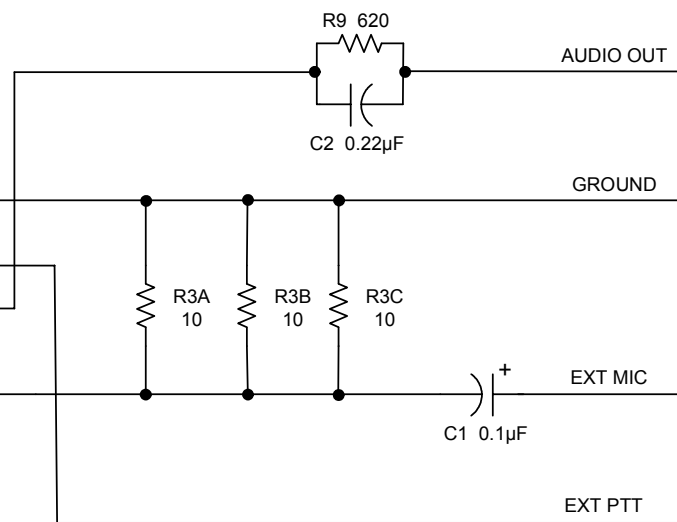
NOTES:

Raytheon JPS Communications has not developed specific settings for this model of radio. Use the generic DSP Setup Procedure to optimize the default values.

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



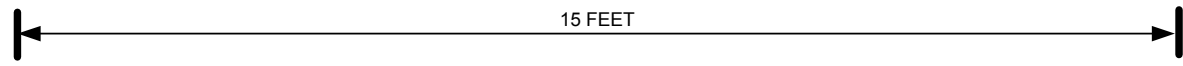
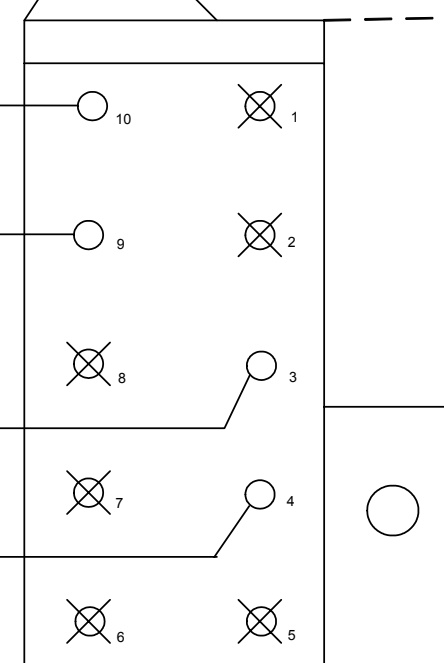
PURCHASED PART



P2

Rev	ECO	Date
A		

USE MOTOROLA SPK/MIC
NMN6176A
(JPS P/N 0314-617600)



VIEW FROM PIN SIDE
OF 10 PIN CONNECTOR
ASSEMBLY

COMPONENT PCB
(JPS P/N 5961-271000)

C1	JPS P/N 0327-104101
C2	JPS P/N 0327-226500
R3A,B,C	JPS P/N 1820-100000
R9	JPS P/N 1820-621000
JU2	
JU5	
JU6	

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

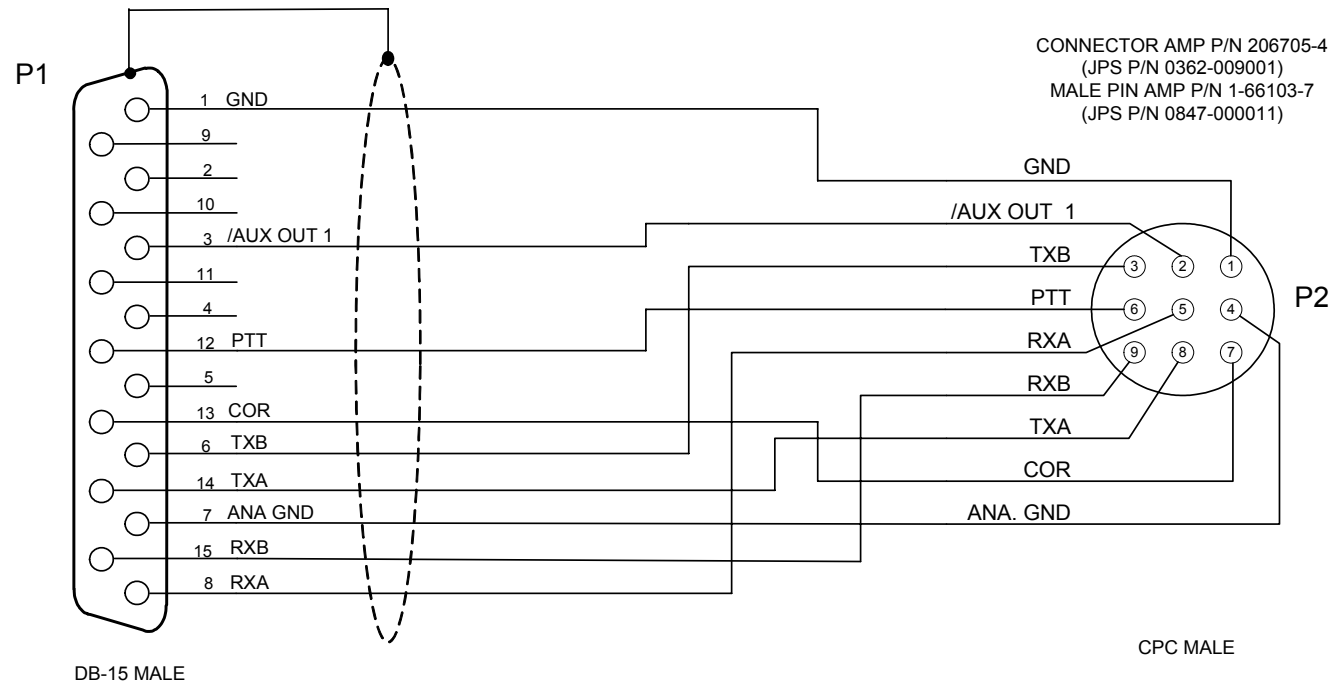
CONNECTOR P2 TO BE SUPPLIED BY CUSTOMER.

USED WITH: MOTOROLA STX PORTABLE

Designed By:	RBP	Raytheon JPS Communications		
Drawn By:	RBP	Title CABLE, ACU TO MOTOROLA STX PORTABLE		
Checked By:	CTS	Size A	Document Number 5961-271261	Rev A
		Issued Date	DECEMBER 12, 2003	Sheet _1_ of _1_

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).

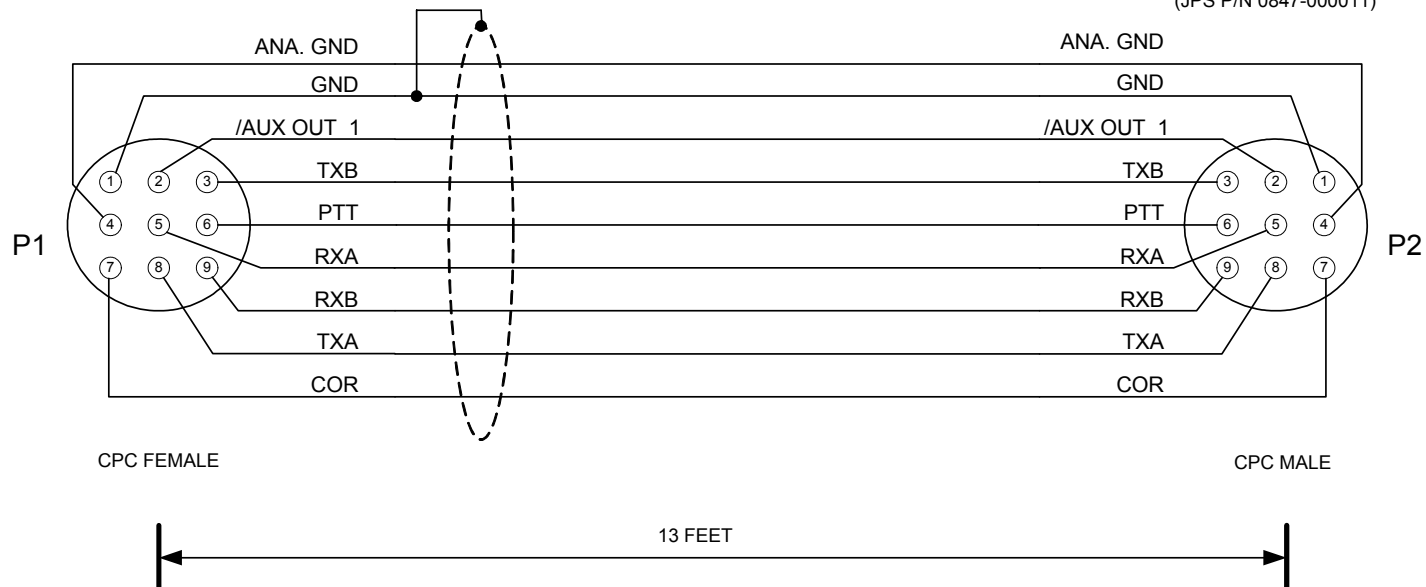
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

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>	