Engineer: Bruce Page	Date: 2/18/04	Raytheon					
Drawn: Bruce Page	Date: 2/18/04		JPS Comm 5800 Departure Drive				
Approved: Chris Samios	Date: 2/18/04	Title: ACU RADIO APPLICATION NOTES					
Issued/ Revised	Date: 4/14/04	Size:	Dwg. #: 5961-291267-APP	Rev:	Sheet:	Of	2

APPLIES TO: Motorola/Nextel Model i50SX, i55SR, i58SX, i60C, i85S, i88S, i90C, and i95CL

Iden Cellphones (Direct Connection)

**RADIO MODIFICATIONS:** None required.

**RADIO PROGRAMMING:** None required.

## **RADIO CONTROLS:**

1. Turn the handset volume to maximum as indicated on the indicator bar.

## **CABLING:**

ACU-1000 Interface Top Level Assembly	JPS P/N 5961-291267
ACU-1000 Interface Cable	JPS P/N 5961-291263-00
ACU-1000 Extension Cable	JPS P/N 5961-291266-00
ACU-T Interface Top Level Assembly	JPS P/N
ACU-T Interface Cable	JPS P/N
ACU-T Extension Cable	JPS P/N

## **DSP PROGRAMMING:**

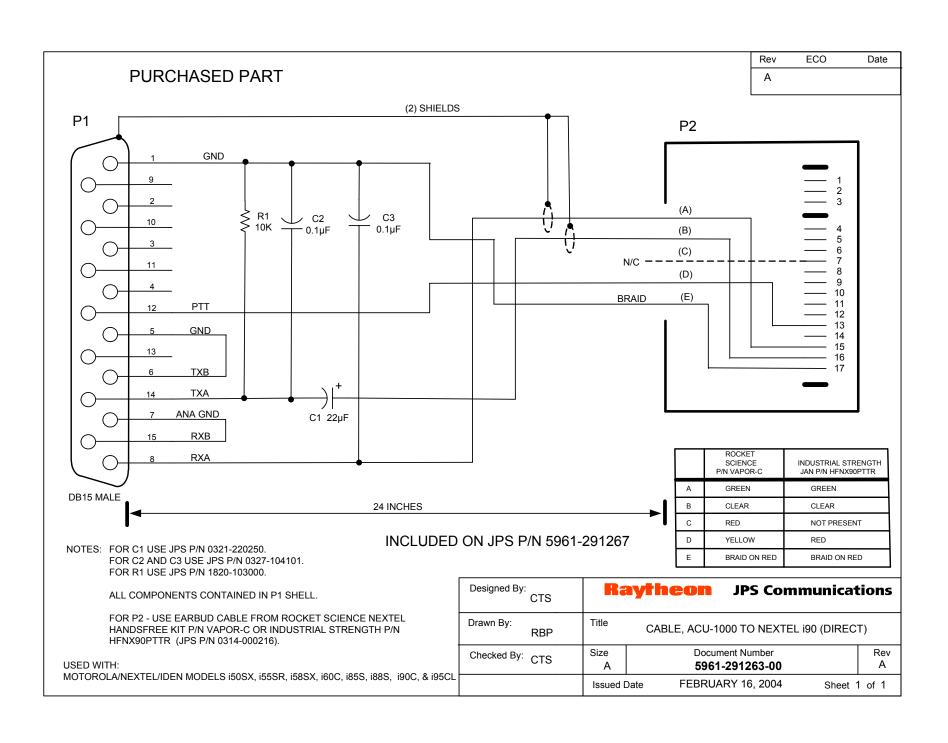
RX Level	9	-29dBm
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	5	2dB Boost
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	4	800 ms
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

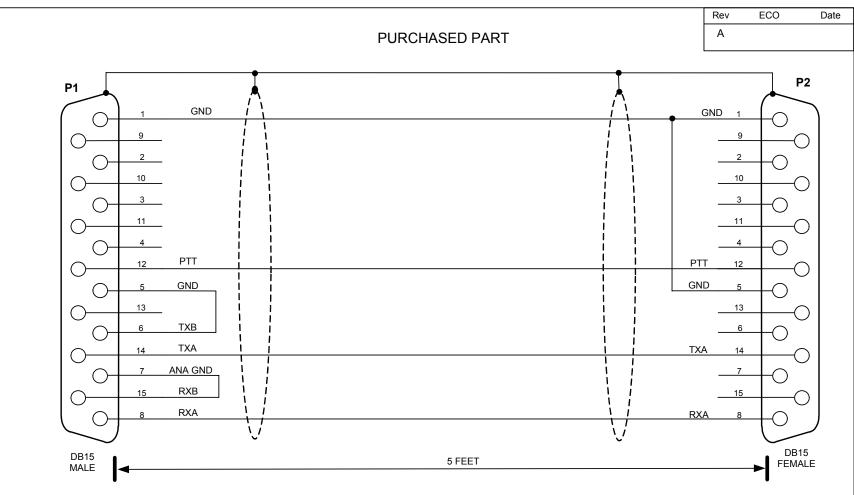
<sup>(\*</sup> Indicates Default Value)

## **NOTES:** This handset cannot be left to operate unattended.

1. The handset will revert to telephone mode after a time-out period of inactivity, and the operator will be needed to return the handset to Iden mode with the appropriate talk group selected.

2.	When multiple talk groups are active, the handset will revert to the operator will need to verify or select the desired talk group.	last active talk group and the
3.	The handset models covered in these Application Notes will not pa operator to manually complete all ACU-1000 or ACU-T interconne	ass DTMF, and therefore require an ections.
		291267-APP.doc
Dwg# 5961-29	291267-APP ACU RADIO APPLICATION N	





INCLUDED ON:

NEXTEL i90 DIRECT KIT JPS P/N 5961-291267 NEXTEL i305 DIRECT KIT JPS P/N 5961-291270

USED WITH:

ACU-1000 TO i90 DIRECT CABLE JPS P/N 5961-291263-00 ACU-1000 TO i305 DIRECT CABLE JPS P/N 5961-291269-00

NOTE: USE SHIELDED CABLE JPS P/N 0311-042410. CONNECT SHIELD DRAIN TO SHELL OF P1 AND SHELL OF P2. USE JACK SCREWS ON P2.

Designed By: Chris Samios	<b>Raytheon</b> JPS Communications				
Drawn By: Bruce Page	Title Cable, ACU Extension to Nextel i90 Family Direct Connect				
Checked By: Chris Samios	Size A				Rev B
File Name: 5961-291266-00.VSD	Issued [	Date MARG	CH 9, 2004	Sheet 1	_of_1_