Engineer: Chris Samios	Date: 4/5/04	Raytheon						
Drawn: Bruce Page	Date: 4/5/04	JPS Communications 5800 Departure Drive, Raleigh, NC 27616						
Approved: CTS	Date: 4/5/04	Title: ACU RADIO APPLICATION NOTES						
Issued/ Revised	Date: 4/14/04	Size:	Dwg. #: 5961-291243-APP	Rev:	Sheet:	Of	2	

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

Iden Cellphones (Cradle Connection)

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING: None required.

RADIO CONTROLS:

1. Turn the handset volume to 3/4 of maximum level as displayed on the indicator bar.

CABLING:

ACU-1000 Interface Top Level Assembly	JPS P/N 5961-291243
ACU-1000 Interface Cable	JPS P/N 5961-291242-00
Nextel Hands-Free Kit with Cradle	JPS P/N 5961-291244
ACU-T Interface Top Level Assembly	JPS P/N 5961-281243
ACU-T Interface Cable	JPS P/N 5961-281242-00
Nextel Hands-Free Kit with Cradle	JPS P/N 5961-291244

DSP PROGRAMMING:

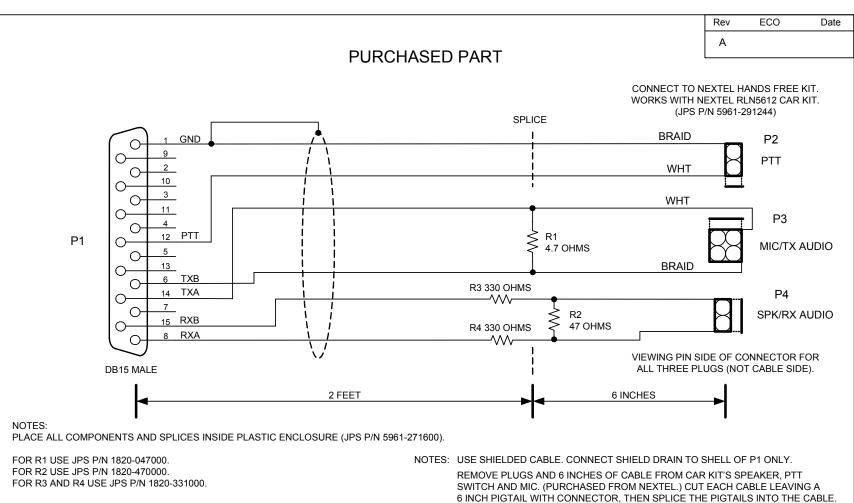
RX Level	4	-4dBm
TX Level	6*	0dBm*
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	6	3.5dB Boost
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	4	800ms
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

^{(*} Indicates Default Value)

NOTES: 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 last active talk group and the operator will need to verify or select the desired talk group.

3.	The handset models cove operator to manually com	erred in these Application Notes will not pass DTMF, ar applete all ACU-1000 or ACU-T interconnections.	nd therefore require an
			201242 ADD DOG
Dwg# 5961-291	243-APP	ACU RADIO APPLICATION NOTES	291243-APP.DOC 2 of 2



USED WITH:

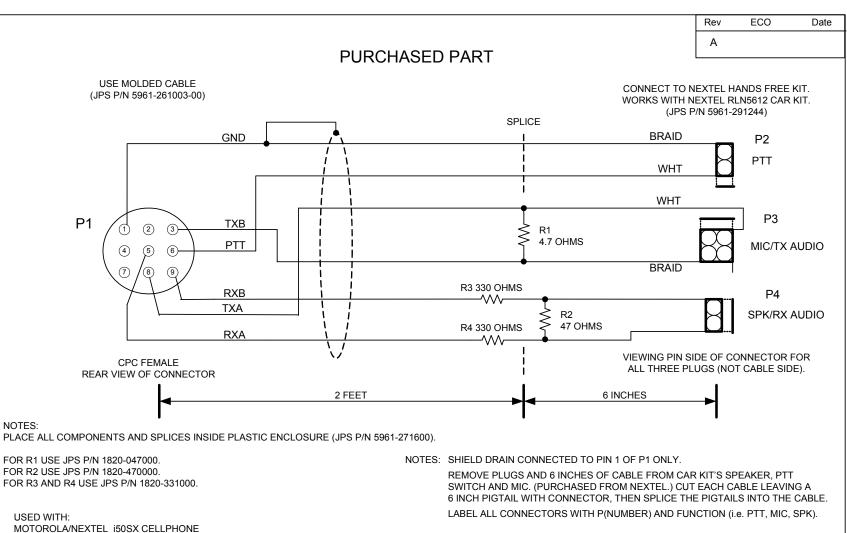
MOTOROLA/NEXTEL i50SX CELLPHONE MOTOROLA/NEXTEL i55SR CELLPHONE MOTOROLA/NEXTEL i58SX CELLPHONE MOTOROLA/NEXTEL i60C CELLPHONE MOTOROLA/NEXTEL i85S CELLPHONE MOTOROLA/NEXTEL i88S CELLPHONE MOTOROLA/NEXTEL i90C CELLPHONE

MOTOROLA/NEXTEL i90CL CELLPHONE

THE TOP ASSEMBLY P/N BELOW INCLUDES BOTH HANDS-FREE KIT AND CABLE: JPS P/N 5961-291243 (ALL MODELS).

LABEL ALL CONNECTORS WITH P(NUMBER) AND FUNCTION (i.e. PTT, MIC, SPK).

Designed By:	CTS	Raytheon JPS Communications Raleigh, NC USA					
Drawn By:	EDV	Title	Title CABLE, ACU-1000 TO NEXTEL i90 CELLPHONE				
Checked By:	JAC	Size A			nent Number 291242-00		Rev F3
		Issued [Date	NOVEMBE	R 8, 2003	Sheet 1	_of1_



MOTOROLA/NEXTEL 55SR CELLPHONE
MOTOROLA/NEXTEL 55SR CELLPHONE
MOTOROLA/NEXTEL 58SX CELLPHONE
MOTOROLA/NEXTEL 60C CELLPHONE
MOTOROLA/NEXTEL 68S CELLPHONE
MOTOROLA/NEXTEL 690C CELLPHONE
MOTOROLA/NEXTEL 690C CELLPHONE
MOTOROLA/NEXTEL 690CL CELLPHONE

THE TOP ASSEMBLY P/N BELOW INCLUDES BOTH HANDS-FREE KIT AND CABLE: JPS P/N 5961-281243 (ALL MODELS).

Designed By:	CTS	Raytheon JPS Communications Raleigh, NC USA					
Drawn By:	EDV	Title	Title CABLE, ACU-T TO NEXTEL i90 CELLPHONE				
Checked By:	JAC	Size A		Document Number 5961-281242-00		Rev F3	
	•	Issued [Date	NOVEMBER 8, 2003	Sheet 1	of_1_	