Engineer: Bruce Page	Date: 8/29/03	Raytheon					
Drawn: Bruce Page	Date: 8/29/03		JPS Comm 5800 Departure Drive			_	
Approved: CTS/JAC	Date: 10/3/03	Title: ACU RADIO APPLICATION NOTES					
Issued/ Revised	Date: 3/24/04	Size:	Dwg. #: 5961-271222-APP	Rev:	Sheet:	Of	2

APPLIES TO: Motorola CDM1250 Mobile Radio Motorola CDM1550 Mobile Radio

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING:

- 1. This radio requires programming for proper ACU to radio interconnection. Accessory pin 4 must be programmed to enable hard COR. The function selection "CSQ Detect (Output)" should be programmed. Accessory pin 3 should be left at the default function selection of "External Mic PTT (Input)".
- 2. The programmable function button P3 should be programmed for High/Low Transmit Power selection (default).

RADIO CONTROLS:

- 1. The Transmit Power setting is indicated by an "H" or "L" in the top row of the LCD screen. Toggle to "L" if necessary by pressing and holding the front panel function button P3.
- 2. The Volume Control setting has no effect on the level of receive audio to the ACU-1000.

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 5961-291222	(5961-271222 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281222	(5961-271222 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271222	

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Radio RF Connector Type Mini-UHF

DSP PROGRAMMING:

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KX Level	5	-8aBm
TX Level	6*	0dBm*
Squelch Type	COR	
COR Polarity	Active Low*	
High Frequency Equalizer	5	2dB Boost
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:	
The radio's accessory connector is a 20 pin Molex, and the correct accessory connector kit (Motorola P/N HLN9457A, JPS P/N 0314-000203) contains a 16 pin Molex which can only be installed in one position	
(centered).	
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