Engineer: Bruce Page	Date: 3/11/04	Raytheon					
Drawn: Bruce Page	Date: 3/11/04	JPS Communications 5800 Departure Drive, Raleigh, NC 27616					
Approved: Jack Curtis	Date: 3/11/04	Title: ACU RADIO APPLICATION NOTES					
Issued/ Revised	Date: 3/11/04	Size:	Dwg. #: 5961-271138-APP	Rev:	Sheet:	Of	1

APPLIES TO: Motorola GM-300 Mobile

RADIO MODIFICATIONS: None required.

RADIO PROGRAMMING:

1. The radio should be programmed to the lowest programmable power range.

2. The "Microphone Off-Hook PL" disable function must be turned off using the programming software to allow the radio to transmit and receive PL tones. Under "Conventional Configuration" set "Hub Defeats PL" to Disable (no check mark in the feature selection block).

RADIO CONTROLS:

1. 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 5961-291138	(5961-271138 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281138	(5961-271138 + 5961-281013-00)

TRP-1000 Shelf Interface Cable JPS P/N 5961-271138

RF Connector Type Mini-UHF

DSP JUMPERS:

JP1 Hi Impedance – (See notes)
JP2 Unbalanced – (See notes)

DSP PROGRAMMING:

4	-4dBm - (See notes)		
6*	0dBm*		
VOX*			
Active Low*			
5	+2dB		
2*	100 ms*		
0*	No Delay*		
0*	Off*		
1*	Med1*		
3*	775 ms*		
1*	100 ms*		
As needed			
(* Indicates Default Value)			
	6* VOX* Active Low* 5 2* 0* 0* 1* 3* 1* As needed		

NOTES: If the DSP Jumpers are left in the default positions (Lo Impedance and Balanced),

the RX Level must be set at 7.

271138-APP.doc





