

Application Note

AN #: 533

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PYRAMID MODEL #: 2012 / 3012 / 2017 Merlin / 2016

RADIO MODEL: Motorola MCS-2000

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Connections:	SVR-200	Function	Radio {DB25 connector}
	Black/Shield	Ground	J403 pin 10
	White	Tx Audio Out	J403 pin 13 mic hi
	Blue	On Air Detect	J403 pin 20 IO4
	Green	PTT Out	J403 pin 21 IO3
	Red	Switched B+	J403 pin 14 SW B+
	Yellow	Rx Audio In	J403 pin 11 Rx_Hi
	Violet	COR	J403 pin 8 IO5
	Brown	Mic Mute	N/C
	Grey	Audio Mute/Ch. Chng.	N/C

2012/Merlin	J1	[Out]	Tx audio level	Pyramid	Mobile COR Polarity:	Low
Jumpers:	J2	[Out]	Local PTT Loop	Program:	Mobile Type:	Conv./Trunk
					On-Air Polarity:	High
2012/Merlin	J1	[Out]	Local PTT Loop		I/O Pin 9	Mute
Jumpers:	J2	[Out]	TX audio level			

Additional Modifications (2012/2012/Merlin):

Additional Modifications (Radio):

1. Add a jumper wire between junction of R202/R239 and J403 pin 8 (AUPA to MCOR).
2. Add a jumper wire between Q553-Collector and J403 pin 20 (Tx 9V to on-air detect). Remove R0449.

Ensure the car radio mute option is disabled in the MCS-2000 programming, and the defaults are programmed for IO3, IO4 and IO5.

