

Application Note

AN #: 257A

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PYRAMID MODEL #: SVR-200 / SVR-250

RADIO MODEL: Icom F121 / F221 / F521

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Connections:	SVR	Function	Radio DB9 of ICOM OPC-617
	Black/Shield	Ground	J2 Pin 9
	White	Tx Audio Out	J2 Pin 4
	Blue	Remote enable/disable	External Switch To Ground
	Green	PTT Out	J2 Pin 5
	Red	Switched B+	J2 Pin 1 * See Notes
	Yellow	Rx Audio In	J2 Pin 3
	Violet	COR	J2 Pin 6
	Brown	Local Mic In	N/C
	Grey	On Air Detect	N/C

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	Low
Jumpers:	J1	[Out]	Tx audio level	Program:	Mobile Type:	Conv.
	J2	[Out]	Tx audio impedance		On-Air Polarity:	---
	J4	[Out]	Local mic audio loop		Tx Audio Response:	Flat
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Flat
	J6	[Out]	Local Mic Sensitivity		Local Mic Repeat	Disabled
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[In]	MCOR Pull up resistor			

Additional Modifications (SVR-200/SVR-250):

Additional Modifications (Radio):

1. Remove the Blue Wire from Pin 2 of J6 (11 pin connector) and move this wire to Pin 1 of J6. This provides SWB+ to Pin 1 of the OPC-617 DB9 connector.
2. Ensure that Solder Bead F is removed and Solder Bead D is installed on the Main Unit PCB of the radio. This enables the external audio input.
3. In the radio cloning software, to set Pin 6 as Carrier Operated Relay:
 - a. Disable 2/5 tone functions for the desired channels.
 - b. In the Expert screen, set RX EXO to ON and Delay Timer to OFF.
4. In the radio cloning software, to enable external PTT:
 - a. Set EPTT/FTSW to EPTT
 - b. Set EPTT Delay Timer to OFF