

Selectone

ST-05x

APPLICATION NOTE # 0345

FOR USE WITH : MOTOROLA SPECTRA

APPROVAL DATE: 25MARCH98S BY: RTS

CONNECTIONS

Note	Pin #	ST-05x Function	Wire Color	Host Radio Connection
	3	(+) Supply	Red	J0502-1 9.6V
	9	(-) Supply	Black	J0502-7 GROUND
1	11	Rx Audio Input	Blue	JUNCT. OF U0523-4 AND C0409
2	1	Rx Audio Output	Wht/Blu	JUNCT. OF C0409 AND U0400-9
3	12	Tx Audio Input	Green	JUNCT. OF U0523-14 AND R0420
4	13	Tx Audio Output	Wht/Grn	JUNCT. OF R0420 AND C0419
5	6	PTT Input	Yellow	J0502-24
6	10	PTT Output	Blk/Yel	JUNCT. OF R0529 AND U0522-37
	7	Monitor/Clear/Ciphered	Brown	USER ADD SWITCH
	8	Amp. Enable	Blk/Brn	NO CONNECTION
	5	COS	Blk/Org	JUNCT. OF U0400-43 AND Q0401
	2	RS-232 Input	Violet	Used for setup only
	4	RS-232 Output	Wht/Org	Used for setup only

Notes:

1. REMOVE C0409.
2. ADD 0.01 CAPACITOR IN SERIES WITH WHT/BLUE WIRE.
3. REMOVE R0420.
4. ADD A 220 OHM RESISTOR IN SERIES WITH THE WHT/GRN WIRE.
5. REMOVE R0529.
6. ADD A 47K RESISTOR IN SERIES WITH THE BLK/YEL WIRE.

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Configuration Settings for Product Manager

The following settings, with most recent updates is available as XXXXXXXX.SPM from the Selectone web site www.selectone.com.

Operating Mode Tab

Tx PowerUp Mode		Ciphered		Clear
Functional Rx Conditions		Ciphered		Clear
COS (Carrier Operated Switch)		Active Low	X	Active High
User Code Key Selection		Double Click	X	Toggle
PTT Input	X	Active Low		Common PTT
PTT Output	X	Active Low		Active High
Special Functions		Amp. Enable		Special PTT In/Out
Missed Sync Reset			X	Power Save
Initial Synchronization Delay				System Related

Audio Levels Tab

Receiver Input Level	2000				
Receiver Output Level	2000				
Microphone Input Level	2000				
Microphone Output Level	2000				
Synchronization Level	X	3dB	9dB	15dB	21dB
<i>Internal Squelch Detection</i>				<i>Enable</i>	

Note: This application was done with a schematic only and no radio. Levels are set to maximum for reference. Contact Selectone TechSupport for assistance in setting levels.