

Selectone

ST-050

APPLICATION NOTE # 0315

FOR USE WITH : MAXON SP120/130/140

APPROVAL DATE: 24SEP97R BY: RTS

CONNECTIONS

Note	Pin #	ST-050 Function	Wire Color	Host Radio Connection
	3	(+) Supply	Red	CON404-1 (VCC)
	9	(-) Supply	Black	CON404-2 (GND)
	11	Rx Audio Input	Blue	CON404-8 (Rx AUDIO IN)
1	1	Rx Audio Output	Wht/Blu	CON404-14 (N/C AUDIO OUT)
2	12	Tx Audio Input	Green	CON404-5 (MIC CONTROL)
3	13	Tx Audio Output	Wht/Grn	CON404-13 (TX TONES)
4	6	PTT Input	Yellow	CON404-9 (PTT IN)
5	10	PTT Output	Blk/Yel	CON404-3 (TX ENABLE)
6,7,8	7	Monitor/Clear/Ciphered	Brown	CON404-10 (MONITOR)
8	8	Amp. Enable	Blk/Brn	NO CONNECTION
	5	COS	Blk/Org	CON404-12 (BUSY/SQ)
	2	RS-232 Input	Violet	NO CONNECTION
	4	RS-232 Output	Wht/Org	NO CONNECTION

Notes:

1. Remove LK5 to break the Rx audio path.
2. Install LK20 to connect Tx audio to CON404-5
3. Remove LK3 to break Tx audio path.
4. Remove LK4 to break PTT path.
5. Install LK21 to connect PTT to CON404-3
6. Install LK8 to connect CON404-10 to Monitor Circuitry.
7. Verify that LK12 is installed connecting Monitor Switch to Monitor circuitry.
8. On ST-050 jumper J1-8 to J1-7.

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Configuration Settings for Product Manager

The following settings, with most recent updates is available as SP120.SPM on 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	√	Active High
User Code Key Selection	√	Double Click		Toggle
PTT Input	√	Active Low		Common PTT
PTT Output	√	Active Low		Active High
Special Functions	√	Amp. Enable		Special PTT In/Out
Others			√	Power Save
Initial Synchronization Delay				System Related

Audio Levels Tab

Receiver Input Level	1683			
Microphone Input Level	843			
Segment Filtering	RX	184	TX	232
Synchronization Level	• 3dB	9dB	15dB	21dB