

Selectone

ST-50 Series

APPLICATION NOTE # 0407

FOR USE WITH : MOTOROLA Maxtrac

REV: A 1-18-00 BY:CPE

This note applies to Logic Board HLN9123A

CONNECTIONS

Note	Pin #	ST-050 Function	Wire Color	Host Radio Connection
	3	(+) Supply	Red	J6-1 9.6V
	9	(-) Supply	Black	J6-11 GROUND
1	11	Rx Audio Input	Blue	JUNCTION OF U552 AND C561
1	1	Rx Audio Output	Wht/Blu	JUNCTION OF R562 AND C561
2	12	Tx Audio Input	Green	Q651 COLLECTOR
2	13	Tx Audio Output	Wht/Grn	JUNCTION OF C652 AND R655
	6	PTT Input	Yellow	J8-11
	10	PTT Output	Blk/Yel	J8-11
	7	Monitor/Clear/Ciphered	Brown	USER SWITCH (TOGGLE see note 5)
	8	Amp. Enable	Blk/Brn	N/A
	5	COS	Blk/Org	COLLECTOR Q509
	2	RS-232 Input	Violet	N/A
	4	RS-232 Output	Wht/Org	N/A

Notes:

1. REMOVE C561.
 2. REMOVE C652.
 3. ADD A .0068uF CAP (REMOVED C652) IN SERIES WITH WHT/GRN WIRE.
 4. ADD A .022uF CAP (REMOVED C561) IN SERIES WITH WHT/BLU WIRE.
 5. BROWN PIN #7 MUST HAVE A PULL-UP RESISTER TO SWITCHED SUPPLY.
- Clear/Cipher is selected with a toggle switch to ground. Ground = Cipher. Open = Clear.

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Configuration Settings for Product Manager

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

Operating Mode Tab

Tx PowerUp Mode		Ciphered	X	Clear
Functional Rx Conditions	X	Ciphered	X	Clear
COS (Carrier Operated Switch)	X	Active Low		Active High
User Code Key Selection		Double Click	X	Toggle
PTT Input		Active Low	X	Common PTT
PTT Output		Active Low		Active High
Special Functions	X	Amp. Enable		Special PTT In/Out
Missed Sync Reset			X	Power Save
Initial Synchronization Delay				ABOVE 300mS

Audio Levels Tab

Receiver Input Level	2000			
Receiver Output Level	2000			
Microphone Input Level	1191			
Microphone Output Level	1191			
Synchronization Level	3dB	9dB	15dB	X 21dB
Segment Filtering	RX Threshold = 250	TX Threshold = 255		