Selectone

ST-050 /051 / 052   APPLICATION NOTE   # 0394

FOR USE WITH: Kenwood TK-840

APPROVAL DATE: 26JAN99R BY:RTS

CONNECTIONS

Note	Pin #	ST-050 Function	Wire Color	Host Radio Connection
	3	(+) Supply	Red	CN201-9
	9	(-) Supply	Black	CN201-1
1	11	Rx Audio Input	Blue	Junction of R31 and C56
2	1	Rx Audio Output	Wht/Blu	Junction of C56 and R48
3	12	Tx Audio Input	Green	Junction of C238 and C246
4	13	Tx Audio Output	Wht/Grn	Junction of C246 and R238
	6	PTT Input	Yellow	J201-3
	10	PTT Output	Blk/Yel	Junction of R214 and D202
	7	Monitor/Clear/Ciphered	Brown	IC2-60
5	8	Amp. Enable	Blk/Brn	See note below
	5	COS	Blk/Org	
	2	RS-232 Input	Violet	Used for setup only
	4	RS-232 Output	Wht/Org	Used for setup only

Notes:

1. Remove C56 (there are 2 C56 on the layout becareful).
2. Add a 6800Pf capacitor in series with the Wht/Blu wire.
3. Remove C246.
4. Add a 0.022mfd capacitor in series with the Wht/Grn wire.
5. Add 2 diode in cathodes to Blk/Brn wire, one anode AM the other to AC.

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Configuration Settings for Product Manager

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
Missed Sync Reset	5		√	Power Save
Initial Syncronization Delay				System Related

Audio Levels Tab

Receiver Input Level	2000			
Receiver Output Level	2000			
Microphone Input Level	0843			
Microphone Output Level	0843			
Syncronization Level	• 3dB	9dB	15dB	21dB