Selectone

ST-050   APPLICATION NOTE   # 0317

FOR USE WITH : Motorola GP300 (with or without speaker/mic)   APPROVAL DATE: 28OCT97R BY: RTS

CONNECTIONS

Note	Pin #	ST-050 Function	Wire Color	Host Radio Connection
	3	(+) Supply	Red	**Junction of R460 and CR403**
	9	(-) Supply	Black	**P1-8**
1	11	Rx Audio Input	Blue	**P1-7 Unmuted Flat Rx Audio**
1,2	1	Rx Audio Output	Wht/Blu	**P1-6 Rx Audio**
3	12	Tx Audio Input	Green	**P1-5 Option Audio**
3,4	13	Tx Audio Output	Wht/Grn	**P1-4 Tx Audio**
5	6	PTT Input	Yellow	**Not used**
6	10	PTT Output	Blk/Yel	**Junction of R451 and R452**
8	7	Monitor/Clear/Ciphered	Brown	**Junction PB401 & C483**
	8	Amp. Enable	Blk/Brn	**Junction of PB403 and C468**
	5	COS	Blk/Org	**Base Q411**
5	2	RS-232 Input	Violet	**Junction of Q408 and R494**
	4	RS-232 Output	Wht/Org	**Used only for setup**

Notes:

1. Remove R455 from the radio.
2. Change R2 on the ST-050 to 30K or place a 30 K resistor in series with the Wht/Blu lead.
3. Remove R506 from the radio.
4. Change R4 on the St-050 to 24K or place a 24K resistor in series with the Wht/Grn lead.
5. The Yellow is not used. The Violet wires is used for (+) PTT input.
6. Place a 51K resistor in series with the Blk/Yel lead.
7. Set Radio mic gain to 0dB.
8. Program the radio for monitor when PB401 monitor switch is pressed.

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Configuration Settings for Product Manager

The following settings, with most recient updates is available as GP300.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	√	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 Syncronization Delay				System Related

Audio Levels Tab

Receiver Input Level			1002	
Receiver Output Level			1002	
Microphone Input Level			2000	
Microphone Output Level			2000	
Syncronization Level	3dB	9dB	15dB	• 21dB
Internal Squelch Detection			*Enable*	