

ST-020B / ST-025B APPLICATION NOTE # 0400

FOR USE WITH: Motorola MAXTRAC MTX-840 & GM300 APPROVAL DATE: 19FEB99 BY: RTS

CONNECTIONS

Note	Pin	ST-02x Function	Wire	Host Radio Connection		
	#		Color			
	3	(+) Supply	Red	J6-1 9.6V		
	9	(-) Supply	Black	J6-11 GND		
	11	Rx Audio Input	Blue	Junction U552 and C561		
	1	Rx Audio Output	Wht/Blu	Junction R562 and C561		
	12	Tx Audio Input	Green	Collector Q651		
5	13	Tx Audio Output	Wht/Grn	Junction C652 and R655		
	6	PTT Input	Yellow	J6-4 T/R Shift		
	10	PTT Output / Code Select 3	Blk/Yel	Cust Select ST-020B, Not Used ST-025B		
7	7	Monitor/Clear/Ciphered	Brown	S1103 FPC		
2,3	8	Amp. Enable	Blk/Brn	Collecter Q509		
	5	Code Select 2	Blk/Org	Cust Select ST-020B, Not Used ST-025B		
	2	RS-232 Input/Code Select 1	Violet	Cust Select ST-020B, Not Used ST-025B		
4,6	4	RS-232 / BEEP Output	Wht/Org	U553-2		

Notes:

- 1. Remove C561 & C652 from the radio.
- 2. Remove R41 on the ST-02xB.
- 3. Place a wire jumper across R37 on the ST-02xB.
- 4. Place a 15K resistor to GND from the Wht/Org wire.
- 5. Add a .0068µF cap (Removed C652) in series with the Wht/Grn wire.
- 6. Add a .1µF cap (Removed C561) in series with the Wht/blu wire.
- 7. This application uses the double click mode with the radio audio mute button.

Configuration Settings for Product Manager

Operating Mode		Switched	•	Double Click					
Power Up Mode		Ciphered	•	Clear					
LED Operation	•	Active Low		Active High					
Transmit Alert		On		Off					
Transmit Delay	System Related								
Code Key #1	User Selected								
Code Key #2	User Selected								
Code Key #3	User Selected								
Code Key #4	User Selected								