



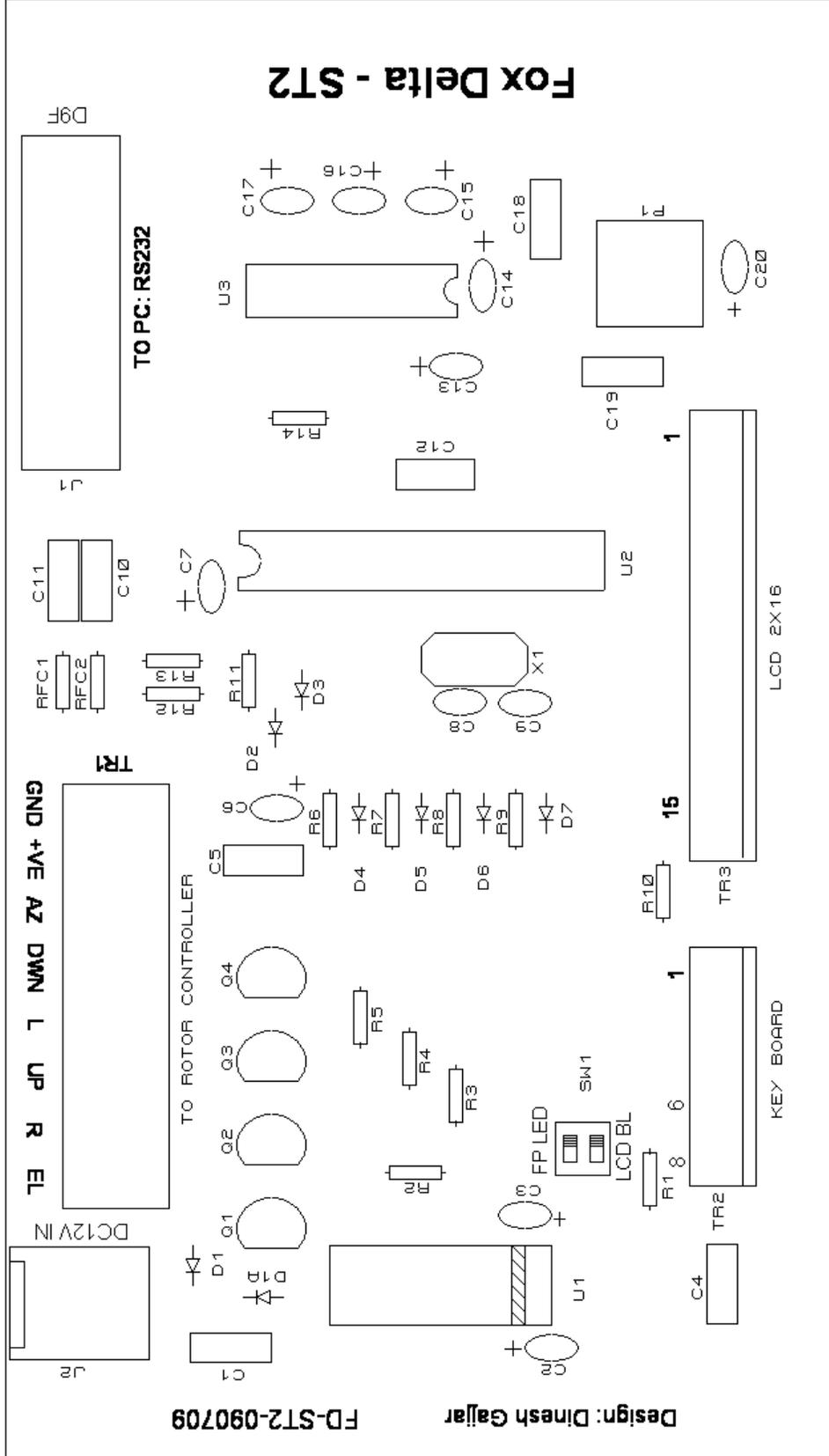
Silk Snap & Parts List: PIC16F876A LCD Satellite Tracker & Rotor Controller

ST2 Kit Parts List:

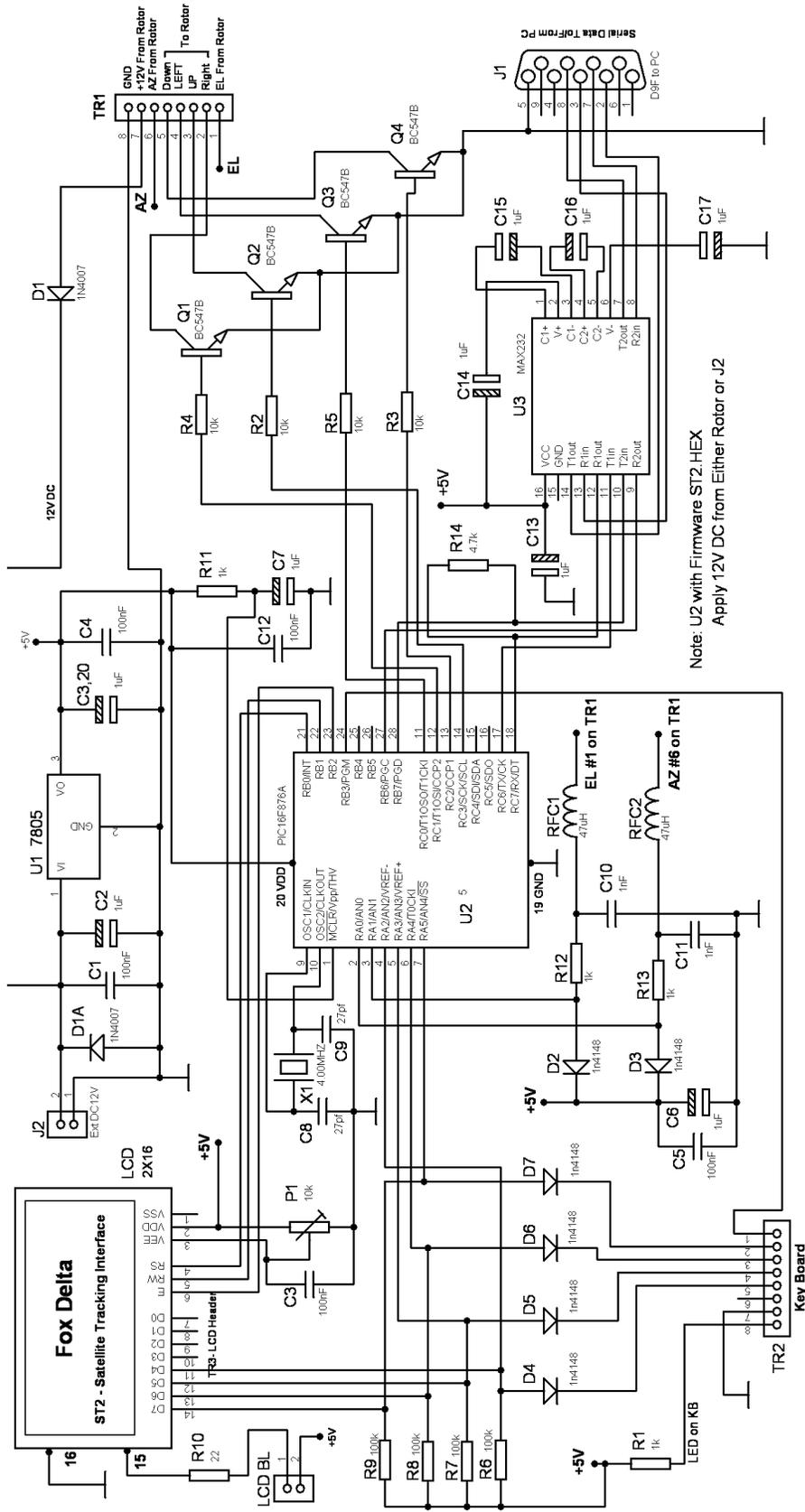
Part	Check	Quantity	Details
U2: PIC16F876A		1	Processor DIP28
Q1- 4: BC547B		4	NPN Transistors
16x2 LCD		1	LCD Display
X1: Crystal		1	4MHZ HC49U
ST2 PCB		1	Double Sided PTH PCB
U3: MAX232		1	RS232 Driver
TR3: SIL16 Male		2	LCD & PCB connector
SIL 16 Ribbon		1	Ribbon for interconnect
TR2: SIL8 Male		2	PCB mounted for KB
SIL 8 Ribbon		1	Key Board connection
U1: 7805		1	5V Positive Regulator
DIP 16		1	IC Socket for MAX232
47uh RFC		2	RFC1, 2
J2: DC Socket		1	+12V External
TR1: Terminal 8		1	8 Terminal block (2x4)
P1: 10K Preset		1	LCD Contrast
J1: D9F		1	PCB R/A D9 Female Connector
2 Pos DIP		1	LCD BL
Push Buttons		4	12MM
KB PCB		1	Keyboard PCB

Part	Check	Quantity	Details
1uf Tantalum		10	C2, 3, 6, 7, 13, 14, 15, 16, 17, 20
0.1uf Ploy		6	C1, 4, 5, 12, 18, 19
0.001uf Poly		2	C10, 11
27pf Ceramic		2	C8, 9,
1N4007		2	D1, D1A
1N4148		6	D2, 3, 4, 5, 6, 7,
1K		4	R1 (LED), R11, 12, 13
100K		4	R6, 7, 8, 9
10K		4	R2, 3, 4, 5
4.7K		1	R14
22 Ohms		1	R10 (LCD BL)

Silk Snap of the ST2 PCB:

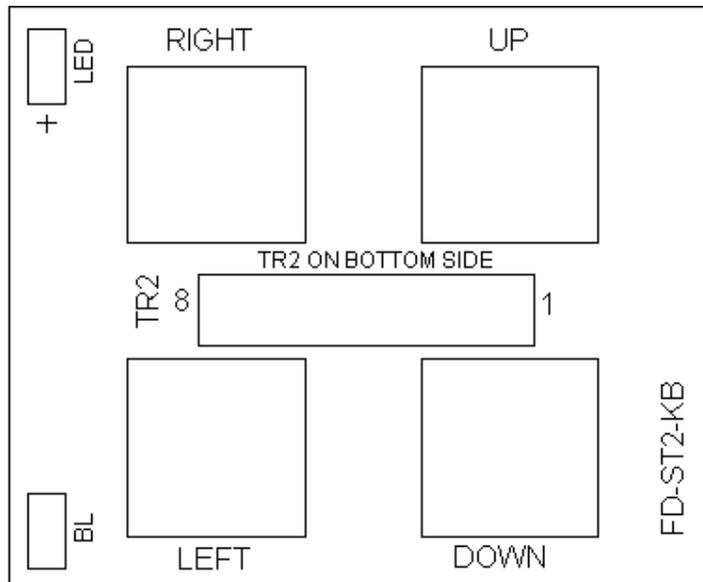


Schematic:



Note: U2 with Firmware ST2-HEX
Apply 12V DC from Either Rotor or J2

Silk View of Key Board:



Power LED & BL Switch, may be fitted by user on Front Panel by taking connections available on Keyboard PCB.

However, these parts are not supplied with kit.

73s/Dinesh Gajjar / 01 July 11

For more details, please visit Project Page: <http://www.foxdelta.com>