

NOTES :-

1. COMPONENTS SHOWN IN BRACKETS ARE NON-FIT ITEMS FOR FUTURE BUILD
2. CAPACITOR TO BE HOT MELT GLUED TO PCB
3. CAPACITOR TO BE HOT MELT GLUED TO PCB IF LEGS ARE NOT FORMED

**Fig. 3 – ST30 Bidata PCB Layout (issue F)**

USED ON			
4148-004			
1	3015-058	1	PCB
2	3030-035	11	SOLDER SOCKET P1,2,3,4,5,6,7,8,9,10,11
3	01051	1	VARIATOR TYPE GE V22ZA1 VT
4	9602001	0	TRANSIENT VOLTAGE SUPPRESSOR - (AVX VC1206-180-400) (V2)
5	9600001	0	SURPRESSION FILTER EMI THO'-LINE (EMFIL) NFM41R10C223 (L1)
6	15156	0	CRYSTAL XTAL 12.0 MHz (XL2)
7	030B3	1	CAPACITOR CERAMIC DISC 1KV 2200pF ±10% C16
8	03065	1	CAPACITOR RADIAL ELECTROLYTIC 100uF +80%/-20% 16V C3
9	03066	1	CAPACITOR RADIAL ELECTROLYTIC 1000uF +80%/-20% 16V C15
10	15133	2	INTERMEDIATE FREQUENCY TRANSFORMER 5PLC-2086A TOKO IFT1,IFT2
11	15134	1	INVERTER TRANSFORMER 12VXA016 TOKO T1
12	9200BAS16	5	DIODE SOT23 BAS16 D4,5,6,7,8
13	9319222M	0	CAPACITOR X7R 2200pF ±20% 1KV (GR530-X7R-222M-1KV) (C28)
14	930133P	0	CAPACITOR COG 0805 33pF 5% 50V(AVX-0805-5A-330-JN3-TR) (C8,9)
15	9301680P	2	CAPACITOR COG 0805 680pF 5% 50V(AVX-0805-5A-681-JN3-TR) C20,24
16	9302100P	2	CAPACITOR COG 0805 100pF 10% 50V(AVX-0805-5A-101-KN3-TR) C23,29
17	9307U01	1	CAPACITOR X7R 1206 0,01uF 20%50V(AVX-1206-5C-103-MN3-TR) C25
18	93041000P	2	CAPACITOR X7R 0805 1000pF 10% 50V(AVX-0805-5C-102-KN3-TR) C6,19
19	93070U1	12	CAPACITOR X7R 1206 0,1uF 20% 50V(AVX-1206-5C-104-MN3-TR) C4,5,7,11,12,13,14,17,18,21,22,27
20	93091U	2	CAPACITOR TAN 293D 1uF 10% 16V SIZE A(SPRAGUE 293D-105-X9-01) C10,26
21	940093061	1	EEPROM 16x16 M93061M1 IC4
22	9400LM358	1	DUAL OP AMP LM358M NAT SEMI IC2
23	9500BC807	1	TRANSISTOR SOT23 BC807 PNP TR4
24	9501BC868	1	TRANSISTOR SOT BC868 NPN TR1
25	9500BC849C	15	TRANSISTOR SOT23 BC849C NPN TR2,3,5,6,7,8,9,10,11,12,14,16,17,18
26	9404S80C52	1	MICRO MASK 80C52 ST30 VERSION 2 IC5
27	15166	1	RESONATOR 12 MHz MURATA CST 12 0 MTW XL1
28	9400LM78L05	1	VOLTAGE REGULATOR LM78L05ACM IC1
29	94077225G	1	LCD DISPLAY DRIVER 7225G-00(INEC) IC7
30	9400LM339	1	QUAD OP AMP IC3
31	940074HC390	1	DUAL BCD COUNTER MM 74HC390M NATIONAL SEMICONDUCTOR IC6
32	95002N7002	2	FET 2N7002 TR13,15
33	05038	1	FET STL130 60V 25A TR20
34	9204DIF10	2	DIODE DIF10 D1,9
35	9200BAV70	2	DIODE DUAL BAV70 D2,D3
36	03068	1	CAPACITOR RADIAL ELECTROLYTIC 330uF +80%/-20% C1,12) SEE NO
37	9500BC817	1	TRANSISTOR SOT23 BC817 NPN TR19
38	910313R	2	RESISTOR WCR 1206 13R 1% 0,125W R1,R4
39	9103100R	3	RESISTOR WCR 1206 100R 1% 0,125W R8,51,54
40	91062K2	2	RESISTOR WCR 1206 2K2 5% 0,125W R11,14
41	9106390R	1	RESISTOR WCR 1206 390R 5% 0,125W R10
42	910639K	3	RESISTOR WCR 1206 39K 5% 0,125W R9,23,24
43	910622K	5	RESISTOR WCR 1206 22K 5% 0,125W R13,43,45,47,61
44	91068R2	1	RESISTOR WCR 1206 8R2 5% 0,125W R15
45	91064K7	6	RESISTOR WCR 1206 4K7 5% 0,125W R6,7,18,21,22,50
46	9106470R	2	RESISTOR WCR 1206 470R 5% 0,125W R19,20
47	910612K	1	RESISTOR WCR 1206 12K 5% 0,125W R30
48	91063R3	1	RESISTOR WCR 1206 3R3 5% 0,125W R62
49	910615K	4	RESISTOR WCR 1206 15K 5% 0,125W R12,25,32,40
50	910647K	1	RESISTOR WCR 1206 47K 5% 0,125W R53
51	9106820K	2	RESISTOR WCR 1206 820K 5% 0,125W R28,33
52	9106100K	2	RESISTOR WCR 1206 100K 5% 0,125W R38,39
53	910610K	6	RESISTOR WCR 1206 10K 5% 0,125W R27,31,44,46,57,59
54	9106330K	1	RESISTOR WCR 1206 330K 5% 0,125W R42
55	91061K5	1	RESISTOR WCR 1206 1K5 5% 0,125W R48
56	91061K8	1	RESISTOR WCR 1206 1K8 5% 0,125W R49
57	9106180R	2	RESISTOR WCR 1206 180R 5% 0,125W R2,55
58	91063K3	1	RESISTOR WCR 1206 3K3 5% 0,125W R56
59	910333K	2	RESISTOR WCR 1206 33K 1% 0,125W R26,58
60	91061K2	3	RESISTOR WCR 1206 1K2 5% 0,125W R16,17,60
60	15136	1	BUZZER SERIES AT-17 SUB MINIATURE B21
60	06026	4	ALP SWITCH SKHCAD S1,2,3,4

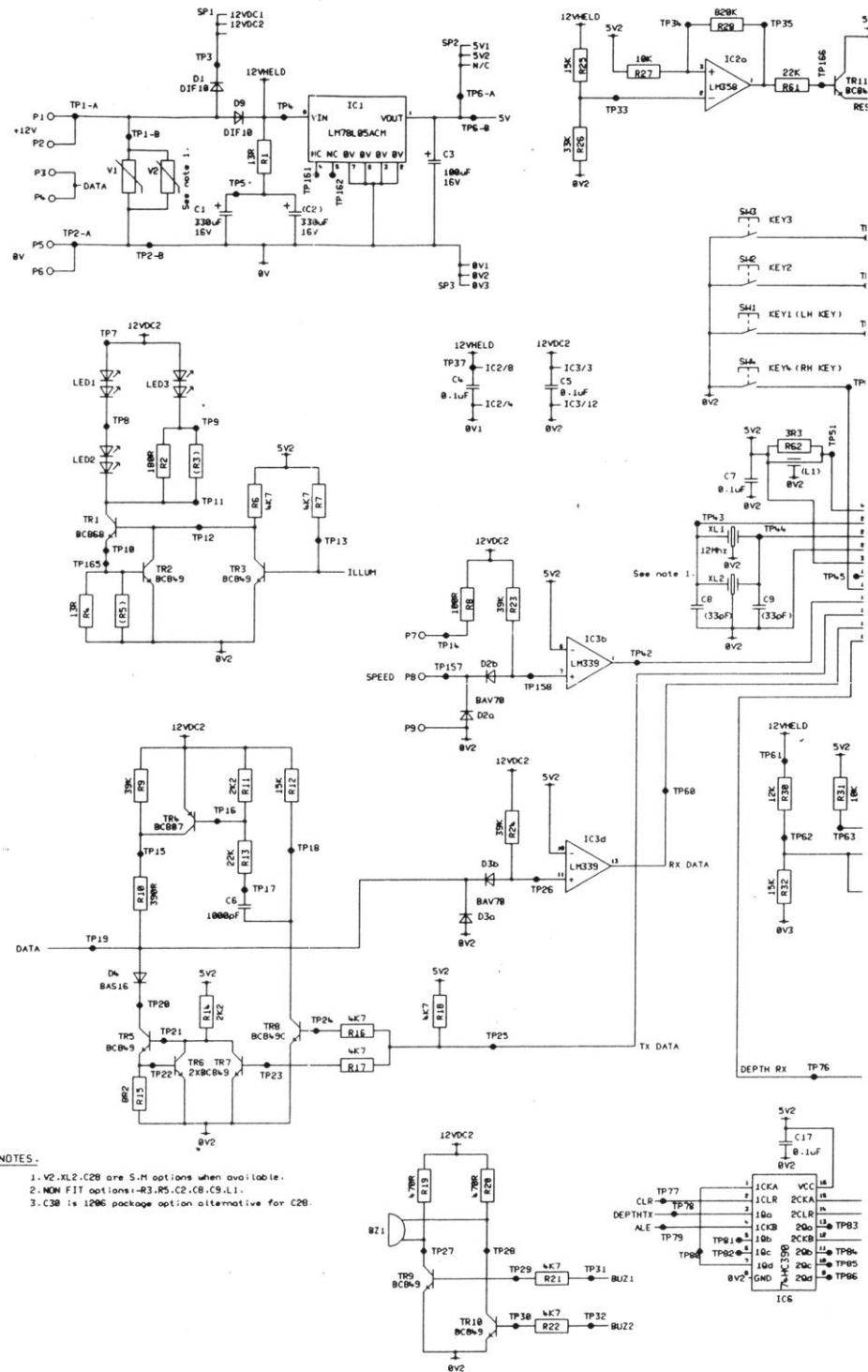


Fig. 2 – ST30 Bidata Circuit Diagram (issue A)

