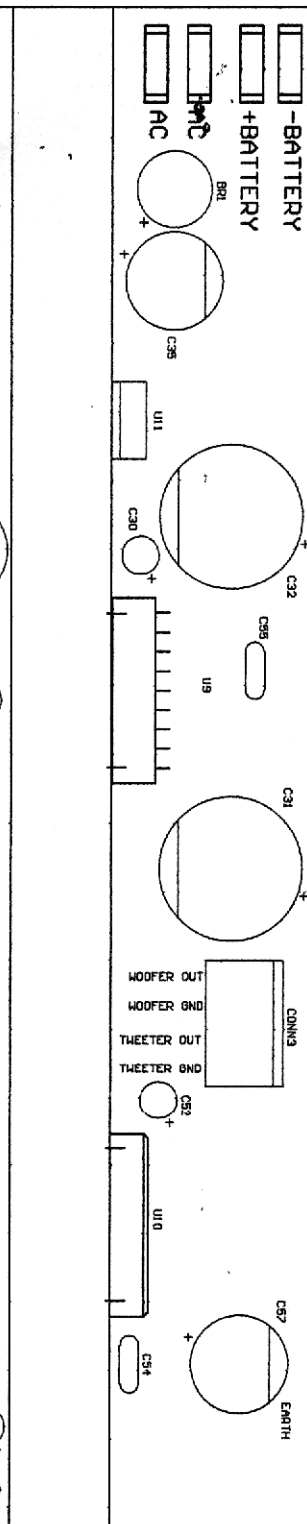
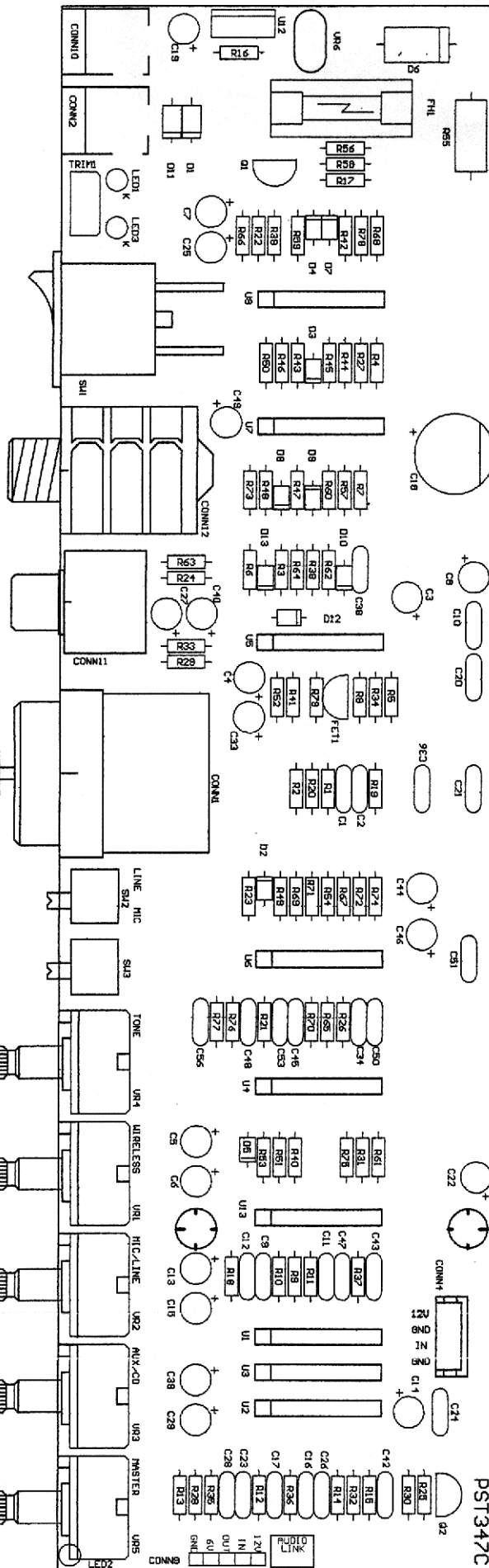
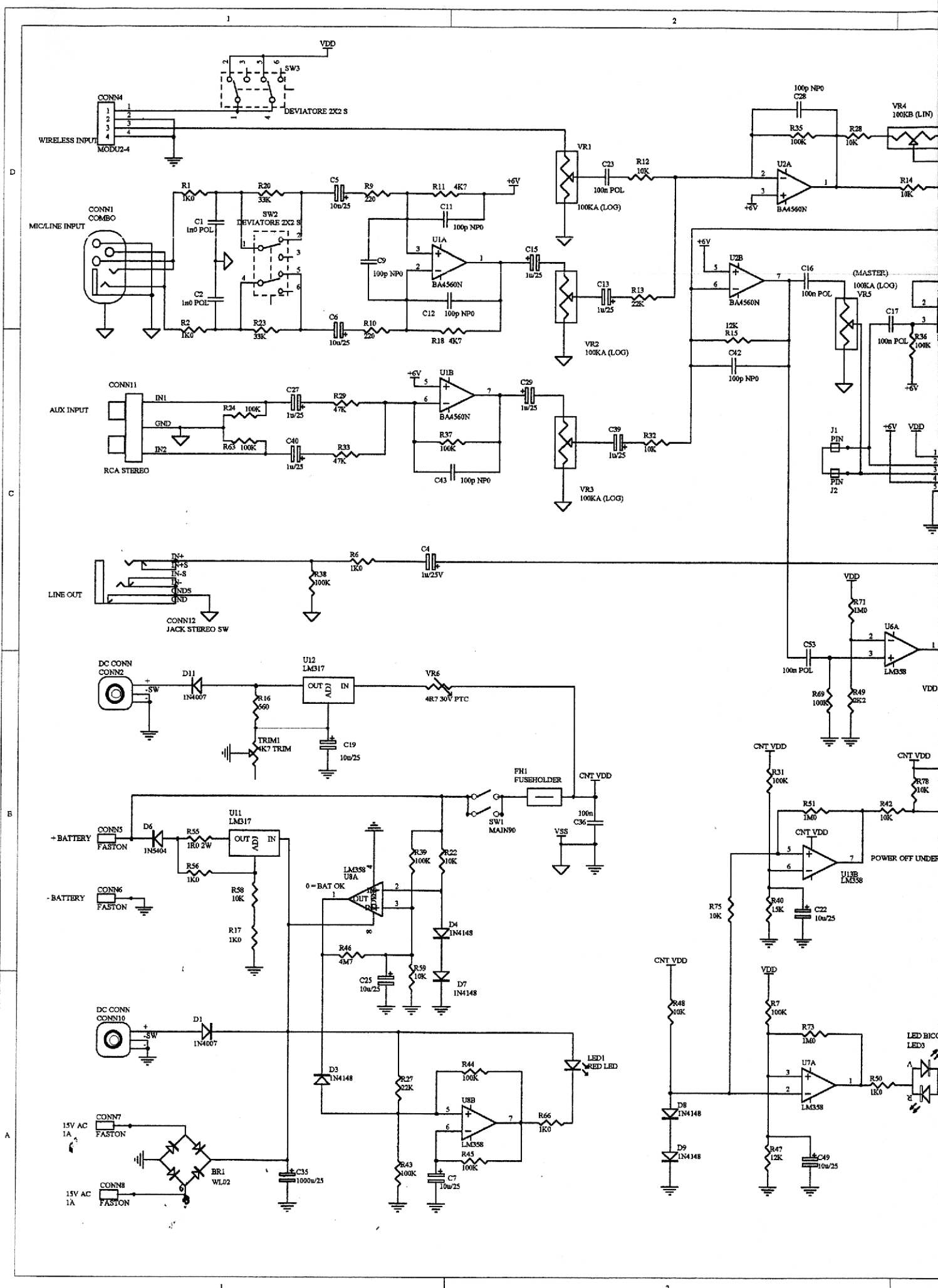
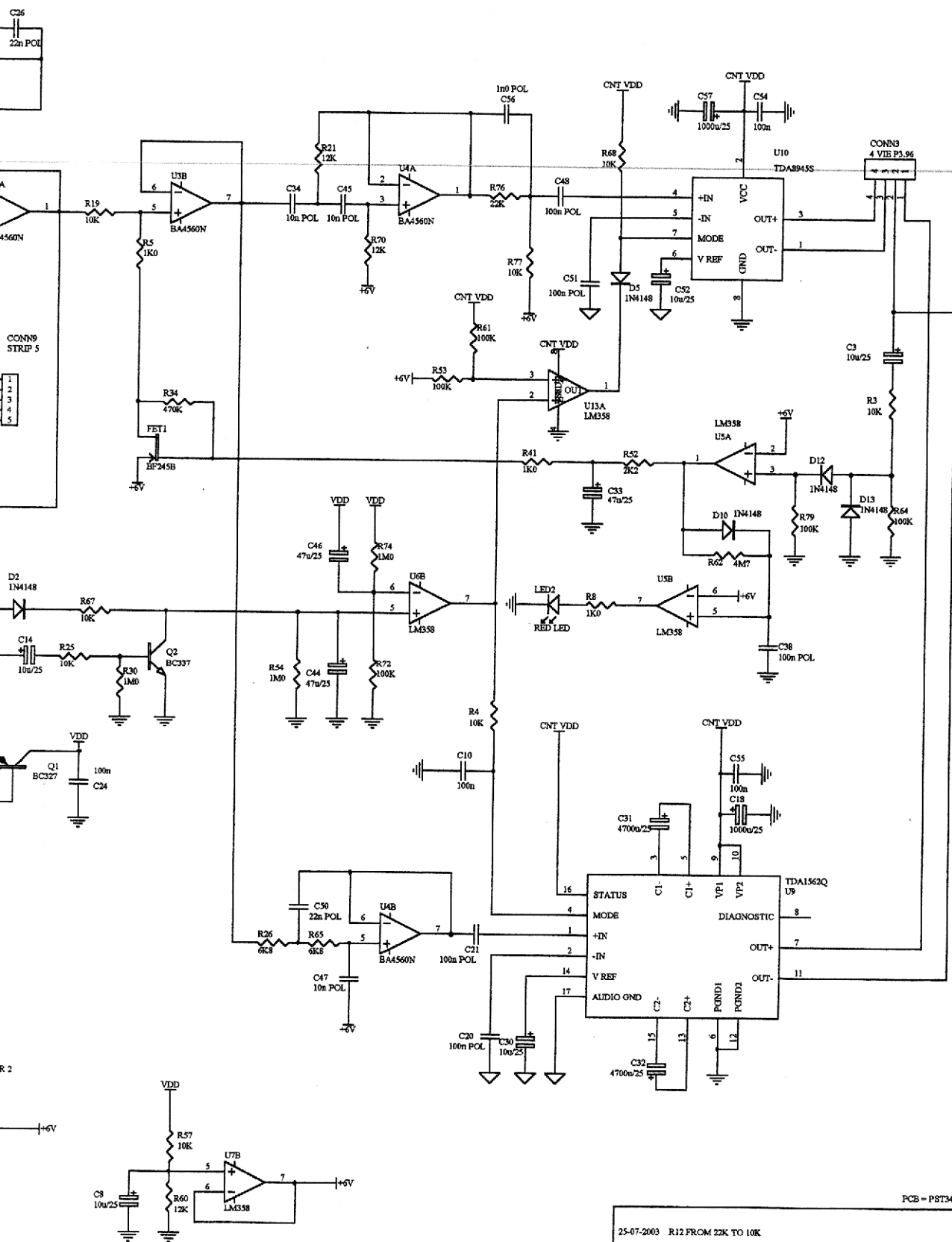


DC IN
DC OUT
CHARGE LED
V OUT ADJ
BAT STATUS
POWER ON
MIXED OUT
AUX INPUT
MIC/LINE INPUT
LINE MIC
RX OFF
RX ON
MIC TONE
WIRELESS
MIC/LINE
AUX
MASTER
PEAK LED







CNT VDD = CONTROL VOLTAGE
VDD = VOLTAGE UNDER MIN VOLTAGE CONTROL

25-07-2003 R12 FROM 22K TO 10K			
16-07-2003 R49 FROM 3K3 TO 2K2			
R69 FROM 1M0 TO 100K			
13-06-2003 R49 FROM 10K TO 3K3			
Title			
OPERA110 MOBILE			
Size	Number	Revision	
Creed A	OPERA110 MOBILE SCH		
Date:	25-Jul-2003	Sheet of	
File:	C:\WINDOWS\Desktop\OPERA110 MOBILE.sch	End by:	

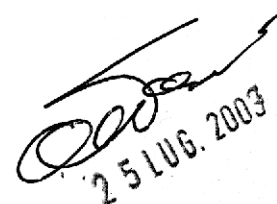
25 JUL 2003

1 Bill of Material for OPERA110 MOBILE.Bom

2	3 Used Part Type	Designator	Footprint	Description
4	=====	=====	=====	=====
5 10	1K0	R1 R2 R5	R 1/4W	RESISTOR
6		R6 R8 R17		
7		R41 R50		
8		R56 R66		
9 6	1M0	R30 R51	R 1/4W	RESISTOR
10		R54 R71		
11		R73 R74		
12 2	1N4007	D1 D11	DIODE P10	1A DIODE
13 10	1N4148	D2 D3 D4	DIODE P7.5	LV DIODE
14		D5 D7 D8		
15		D9 D10 D12		
16		D13		
17 1	1N5404	D6	DIODE P17.5	3A DIODE
18 1	1R0 2W	R55	R 2W	2W RESISTOR
19 3	1n0 POL	C1 C2 C56	COND P5	CER CAP
20 6	1u/25	C13 C15	ELECT P2.5 D5	CAPACITOR
21		C27 C29		
22		C39 C40		
23 1	1u/25V	C4	ELECT P2.5 D5	CAPACITOR
24 2	2K2	R49 R52	R 1/4W	RESISTOR
25 2	4K7	R11 R18	R 1/4W	RESISTOR
26 1	4K7 TRIM	TRIM1	PT10H	TRIMMER
27 2	4M7	R46 R62	R 1/4W	RESISTOR
28 1	4R7 30V PTC	VR6	NTC-PTC P5	
29 1	4 VIE P3.96	CONN3	4 VIE P3.96	4 WAY P3.96 VERT CONN
30 2	6K8	R26 R65	R 1/4W	
31 19	10K	R3 R4 R12	R 1/4W	RESISTOR
32		R14 R19		
33		R22 R25		
34		R28 R32		
35		R42 R48		
36		R57 R58		
37		R59 R67		
38		R68 R75		
39		R77 R78		
40 3	10n POL	C34 C45	COND P5	POL CAP
41		C47		
42 12	10u/25	C3 C5 C6	ELECT P2.5 D5	CAPACITOR
43		C7 C8 C14		
44		C19 C22		
45		C25 C30		
46		C49 C52		
47 5	12K	R15 R21	R 1/4W	
48		R47 R60		
49		R70		
50 1	15K	R40	R 1/4W	RESISTOR
51 3	22K	R13 R27	R 1/4W	RESISTOR
52		R76		
53 2	22n POL	C26 C50	COND P5	POL CAP
54 2	33K	R20 R23	R 1/4W	RESISTOR
55 2	47K	R29 R33	R 1/4W	RESISTOR
56 3	47u/25	C33 C44	ELECT P2.5 D5	CAPACITOR
57		C46		
58 18	100K	R7 R24 R31	R 1/4W	RESISTOR
59		R35 R36		
60		R37 R38		
61		R39 R43		
62		R44 R45		
63		R53 R61		
64		R63 R64		
65		R69 R72		
66		R79		
67 4	100KA (LOG)	VR1 VR2	POT H 16	POTENTIOMETER
68		VR3 VR5		
69 1	100KB (LIN)	VR4	POT H 16	POTENTIOMETER
70 5	100n	C10 C24	COND P5	CER CAP
71		C36 C54		
72		C55		
73 9	100n POL	C16 C17	COND P5	POL CAP
74		C20 C21		
75		C23 C38		
76		C48 C51		
77		C53		
78 6	100p NPO	C9 C11 C12	COND P5	CER CAP
79		C28 C42		
80		C43		
81 2	220	R9 R10	R 1/4W	RESISTOR

Devel
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82 1	470K	R34	R 1/4W	RESISTOR
83 1	560	R16	R 1/4W	RESISTOR
84 3	1000u/25	C18 C35	ELECT P5 D13	CAPACITOR
85		C57		
86 2	4700u/25	C31 C32	ELECT P7.5 D18	CAPACITOR
87 4	BA4560N	U1 U2 U3	SIP-8	DUAL OP AMP
88		U4		
89 1	BC327	Q1	TO92	PNP TRANSISTOR
90 1	BC337	Q2	TO92	NPN TRANSISTOR
91 1	BF245B	FET1	TO92	N FET
92 1	COMBO	CONN1	COMBO-H	CONNETTORE COMBO
93 2	DC CONN	CONN2	DC CONN H	DC CONNECTOR
94		CONN10		
95 2	DEVIATORE 2X2 S	SW2 SW3	DEV 2X2 H	DOPPIO DEVIATORE
96 4	FASTON	CONN5	FASTON 6,3 V	FASTON
97		CONN6		
98		CONN7		
99		CONN8		
100 1	FUSEHOLDER	FH1	FUSEHOLDER 5X20	
101 1	JACK STEREO SW	CONN12	JACK S 6,3 H ST	STEREO JACK
102 1	LED BICOLOR 2	LED3	LED 3V	
103 2	LM317	U11 U12	TO220V	POS REGULATOR
104 5	LM358	U5 U6 U7	SIP-8	DUAL OP AMP
105		U8 U13		
106 1	MAIN90	SW1	MAINS 90 H	MAINS SWITCH 90° PCB
107 1	MODU2-4	CONN4	MODU2-4-V	
108 2	PIN	J1 J2	PAD	SMD PAD
109 1	RCA STEREO	CONN11	2RCA F V	
110 2	RED LED	LED1 LED2	LED 3V	LED
111 1	STRIP 5	CONN9	STRIP 5	STRIP CONNECTOR
112 1	TDA1562Q	U9	DBS17P	AUDIO AMPLIFIER
113 1	TDA8945S	U10	SIL9P	AUDIO AMP
114 1	WL02	BR1	BRIDGE WL	1A BRIDGE



25 LUG. 2003