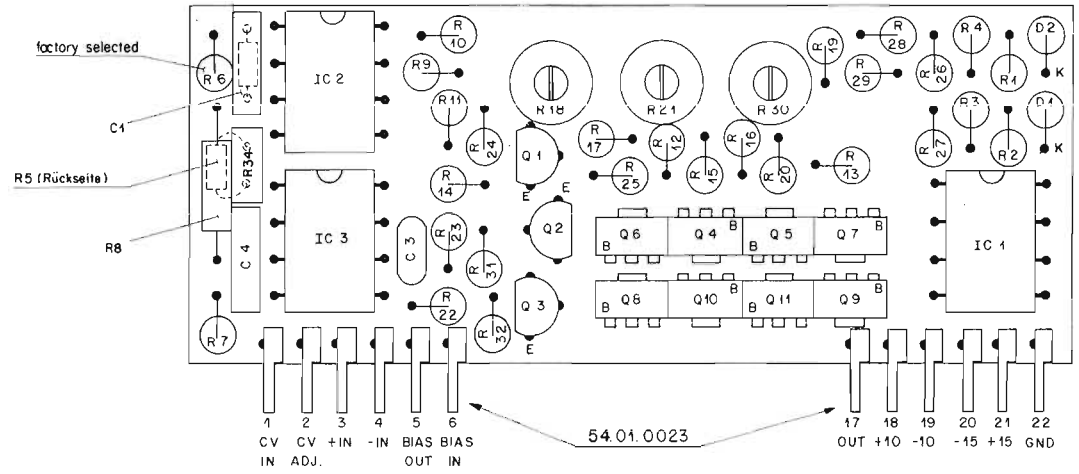
VCA-BOARD TYPE 2F 1.911.292.00



Ad	..POS..	...REF.No...	DESCRIPTION.....	.....MANUFACTURER
	C.....1	59.34.4271	270 pF 5% CER	
	C.....3	59.99.0236	470 pF 20% CER	
	C.....4	59.06.0103	10 nF 20% PE	
	D.....1	50.04.1114	10 V zener diode 400mW	any
	D.....2	50.04.1112	5.1 V zener diode 400mW	any
	IC....1	50.09.0107	RC4559 dual op. amp.	Ra,TI
	IC....2	50.09.0101	TL072 dual op. amp. J-FET	Mot,TI
	IC....3	50.09.0101	TL072 dual op. amp. J-FET	Mot,TI
	Q.....1	1.010.037.50	BC 337 NPN selected	St
	Q.....2	1.010.036.50	BC 327 NPN selected	St
	Q.....3	1.010.037.50	BC 337 NPN selected	St
	Q.....4	50.60.0100	BCX 68 NPN selected	St
	Q.....5	50.60.0100	BCX 68 NPN selected	St
	Q.....6	50.60.1100	BCX 69 PNP selected	St
	Q.....7	50.60.1100	BCX 69 PNP selected	St
	Q.....8	50.60.0100	BCX 68 NPN selected	St
	Q.....9	50.60.0100	BCX 68 NPN selected	St
	Q....10	50.60.1100	BCX 69 PNP selected	St
	Q....11	50.60.1100	BCX 69 PNP selected	St
	R.....1	57.11.3103	10 kOhm 1%	
	R.....2	57.11.3103	10 kOhm 1%	
	R.....3	57.11.3203	20 kOhm 1%	
	R.....4	57.11.3103	10 kOhm	
	R.....5	57.11.3304	300 kOhm 1%	
	R.....6	57.11.9999	factory selected	
	R.....7	57.11.3103	10 kOhm	
	R.....8	57.11.3105	1 MOhm	
	R.....9	57.11.3203	20 kOhm 1%	
	R....10	57.11.3203	20 kOhm 1%	
	R....11	57.11.3222	2.2 kOhm 1%	
	R....12	57.11.3330	33 Ohm 1%	
	R....13	57.11.3100	10 Ohm 1%	
	R....14	57.11.3222	2.2 kOhm 1%	
	R....15	57.11.3330	33 Ohm 1%	
	R....16	57.11.3100	10 Ohm 1%	
	R....17	57.11.9999	105 Ohm 1%	
	R....18	58.11.6102	1 kOhm variable resistor	
	R....19	57.11.3203	20 kOhm 1%	
	R....20	57.11.3203	20 kOhm 1%	
	R....21	58.11.6503	50 kOhm variable resistor	
	R....22	57.11.3105	1 MOhm	
	R....23	57.11.5106	10 MOhm	
	R....24	57.11.3472	4.7 kOhm 1%	
	R....25	57.11.3622	6.2 kOhm 1%	
	R....26	57.11.3152	1.5 kOhm 1%	
	R....27	57.11.3152	1.5 kOhm 1%	
	R....28	57.11.3102	1 kOhm	
	R....29	57.11.3102	1 kOhm	
	R....30	58.11.6501	500 Ohm variable resistor	
	R....31	57.11.3332	3.3 kOhm 1%	
	R....32	57.11.3332	3.3 kOhm 1%	
	R....33	57.11.3824	820 kOhm 1%	
	R....34	57.99.0220	NTC	St
	MP....1	1.911.290.11	1 pcs PCB	St
	MP....2	54.01.0023	1 pcs STIFTENLEISTE	

CER=ceramic, PE=polyester,

MANUFACTURER: Mot=Motorola, TI=Texas Instruments, St=Studer

1.911.292.00 VCA BOARD TYPE 2F WY 90.02.1000

Änderung					
					3
					2
					1
Ausgabe	9.2.90				0
	Datum	Gez	Gepr	Ges	Index

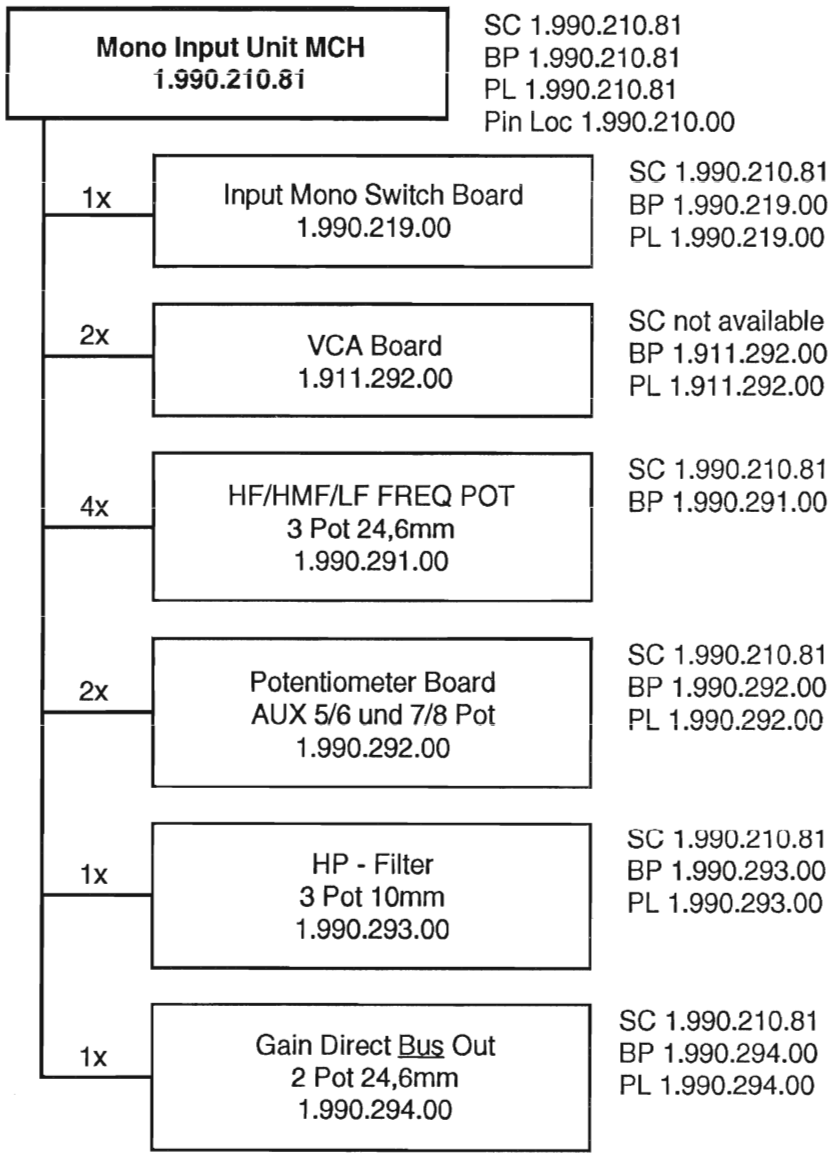
Kopie für

STUDER REGENSDORF ZÜRICH

Benennung: VCA-Board Type 2F ESE

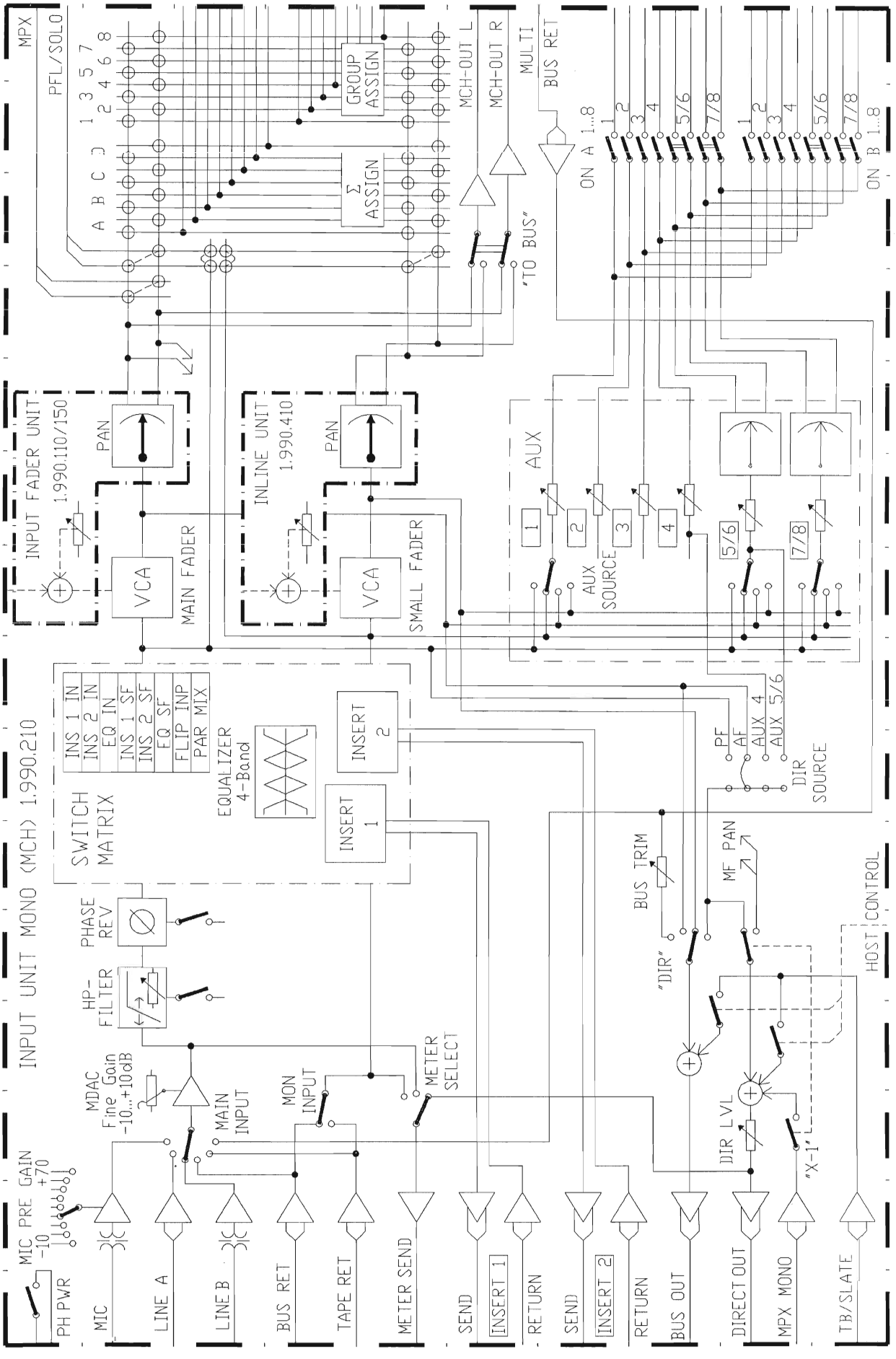
Nummer: 1.911.292-00

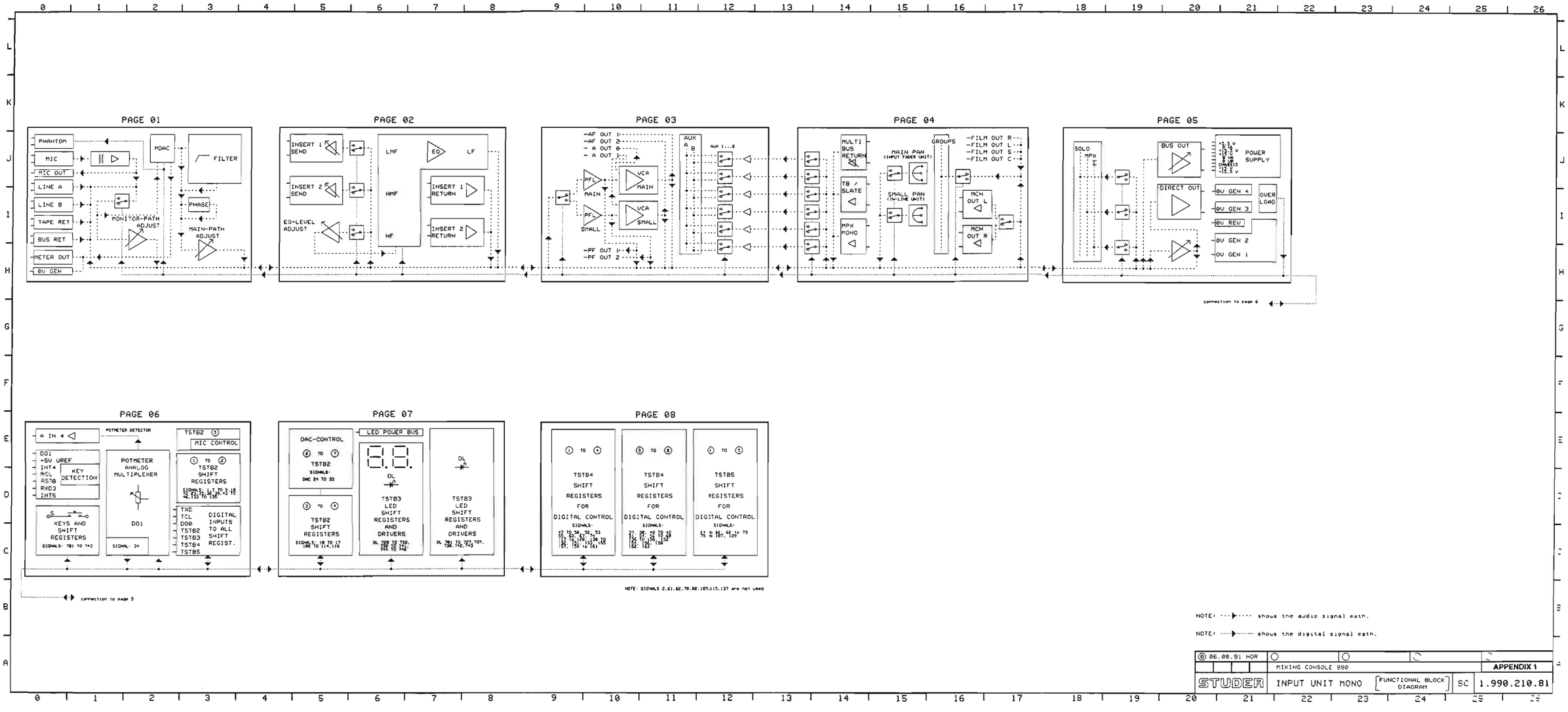
Mono Input Unit MCH 1.990.210.81



SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

MONO INPUT UNIT MCH 1.990.210.81





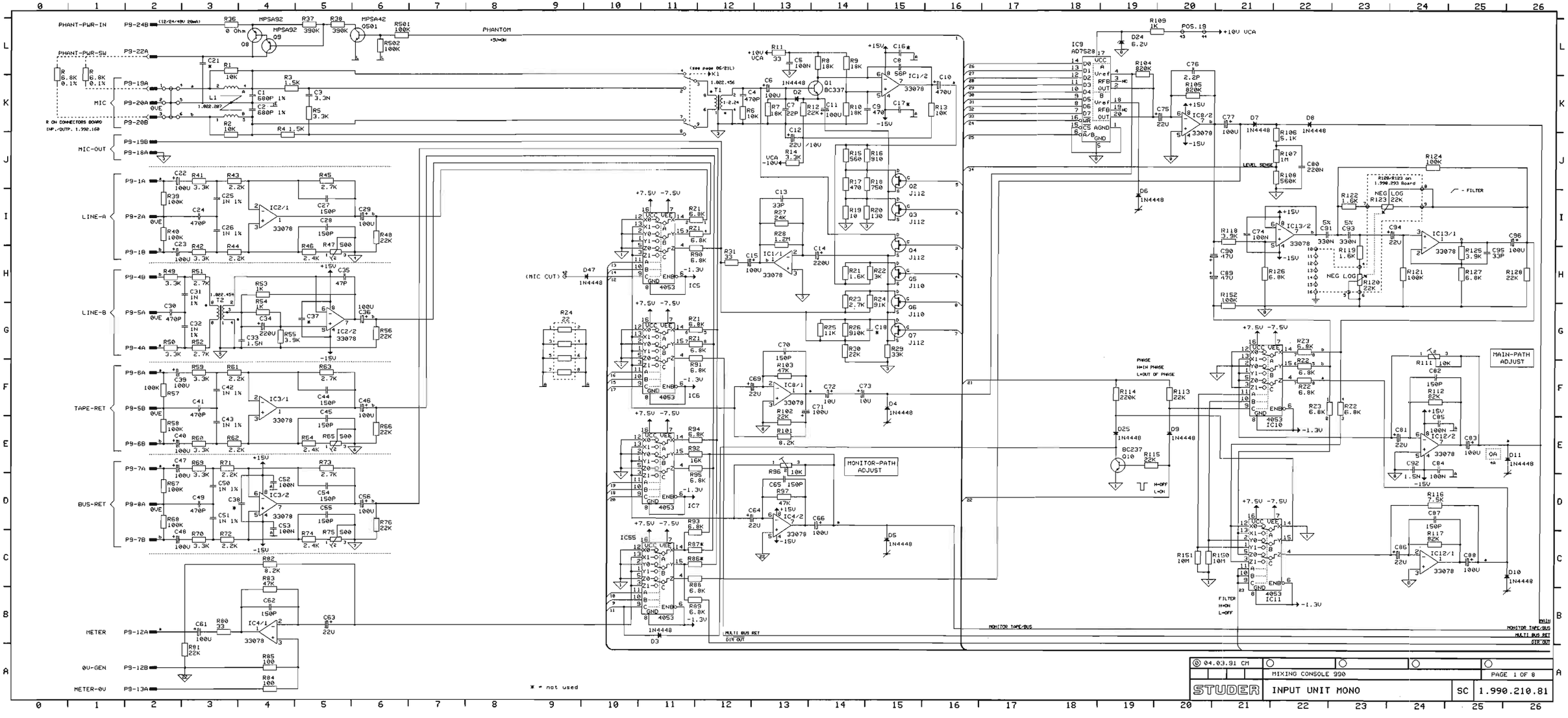
NOTE: ---▶---- shows the audio signal path.

NOTE: ▶····· shows the digital signal path.

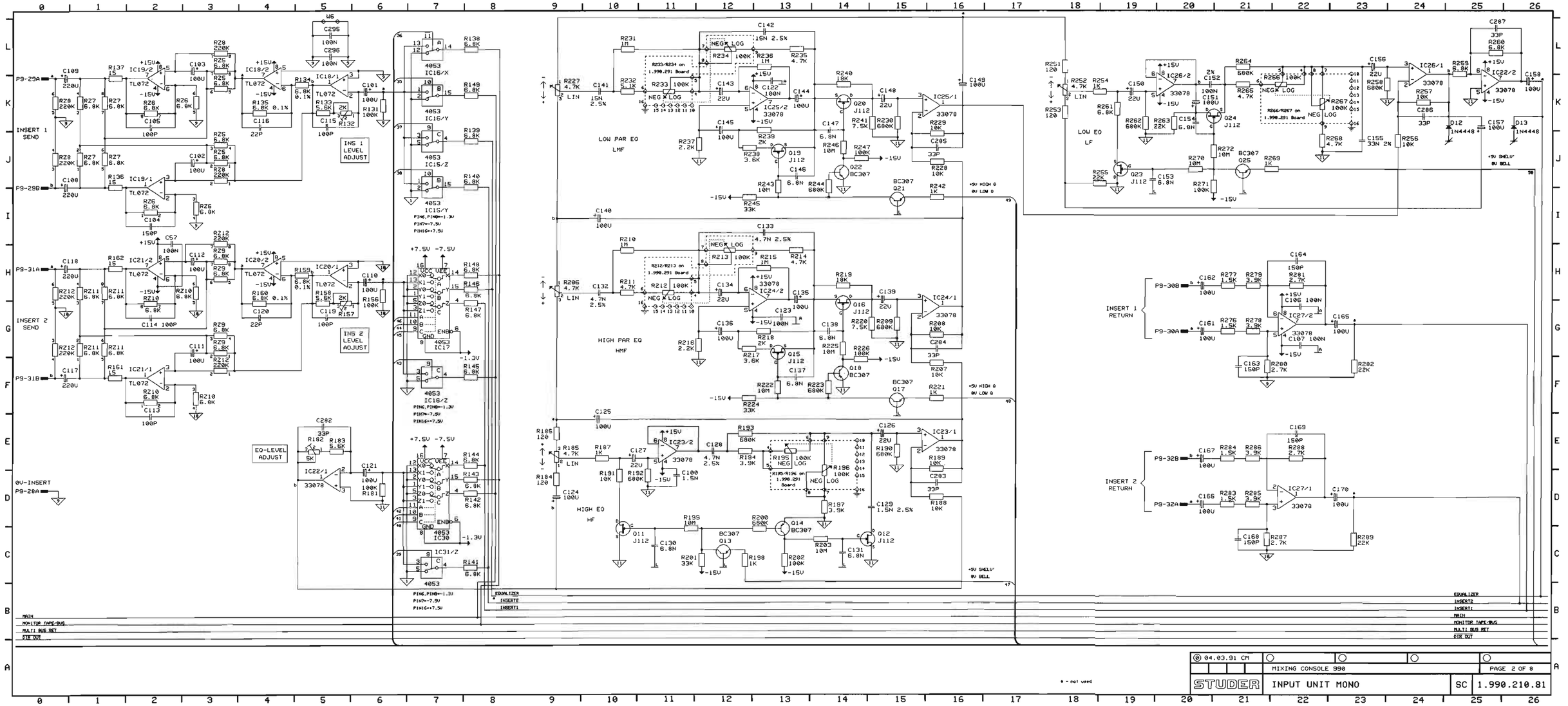
06.08.91 HOR	MIXING CONSOLE 990	APPENDIX 1
STUDER	INPUT UNIT MONO [FUNCTIONAL BLOCK DIAGRAM]	SC 1.990.210.81

INPUT UNIT MONO

1.990.210.81



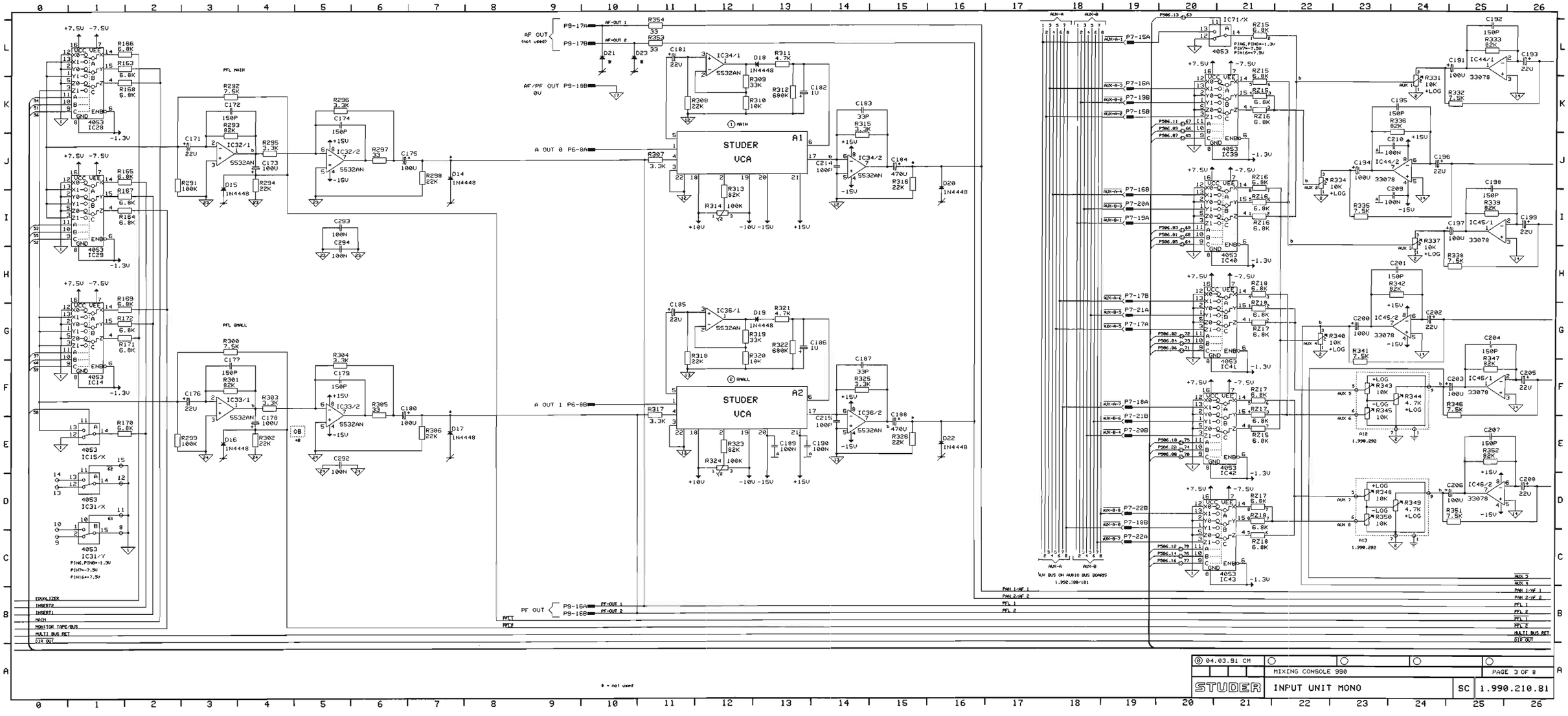
INPUT UNIT MONO 1.990.210.81



04.03.91 CM					
	MIXING CONSOLE 990				PAGE 2 OF 8
STUDER	INPUT UNIT MONO	SC	1.990.210.81		

INPUT UNIT MONO

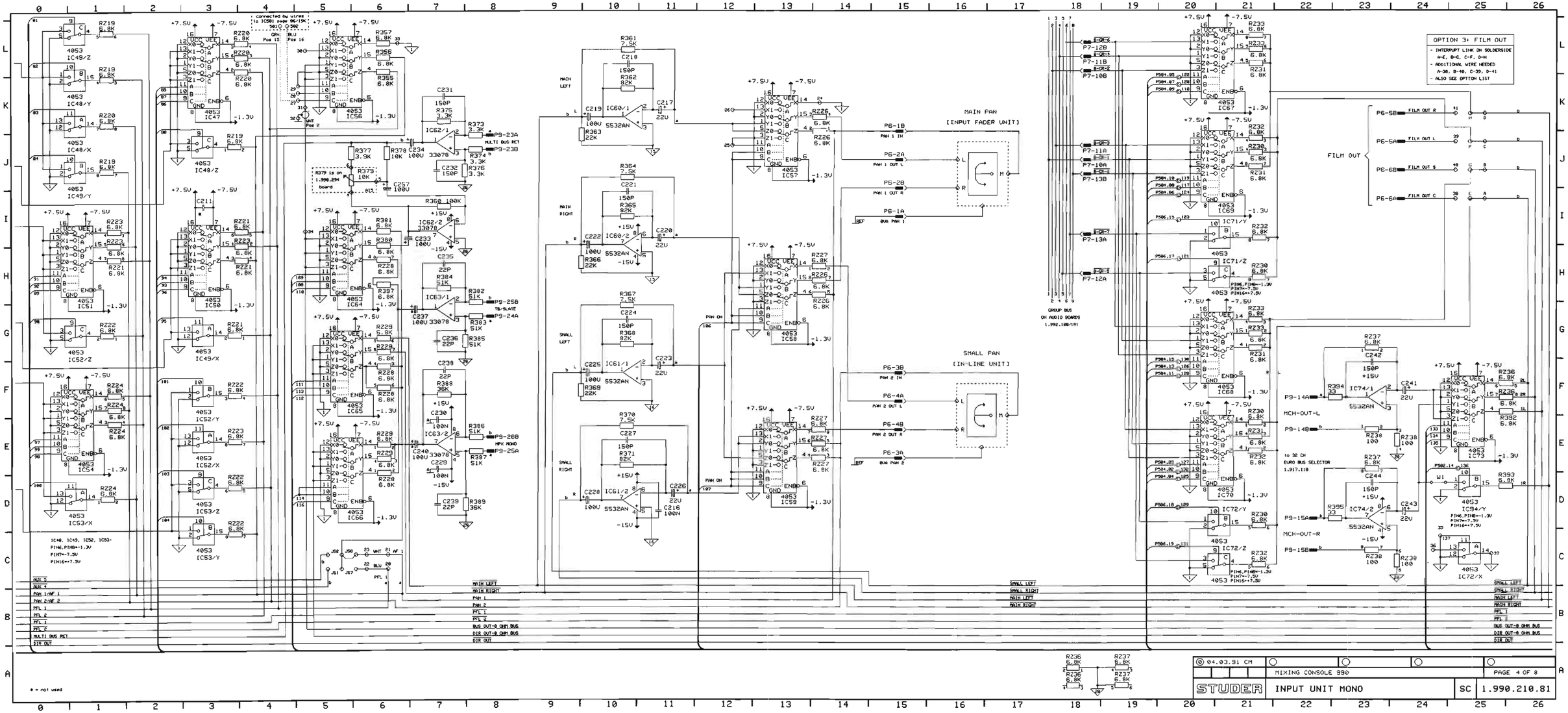
1.990.210.81



04.03.91 CM				
	MIXING CONSOLE 990			PAGE 3 OF 8
STUDER	INPUT UNIT MONO	SC	1.990.210.81	

INPUT UNIT MONO

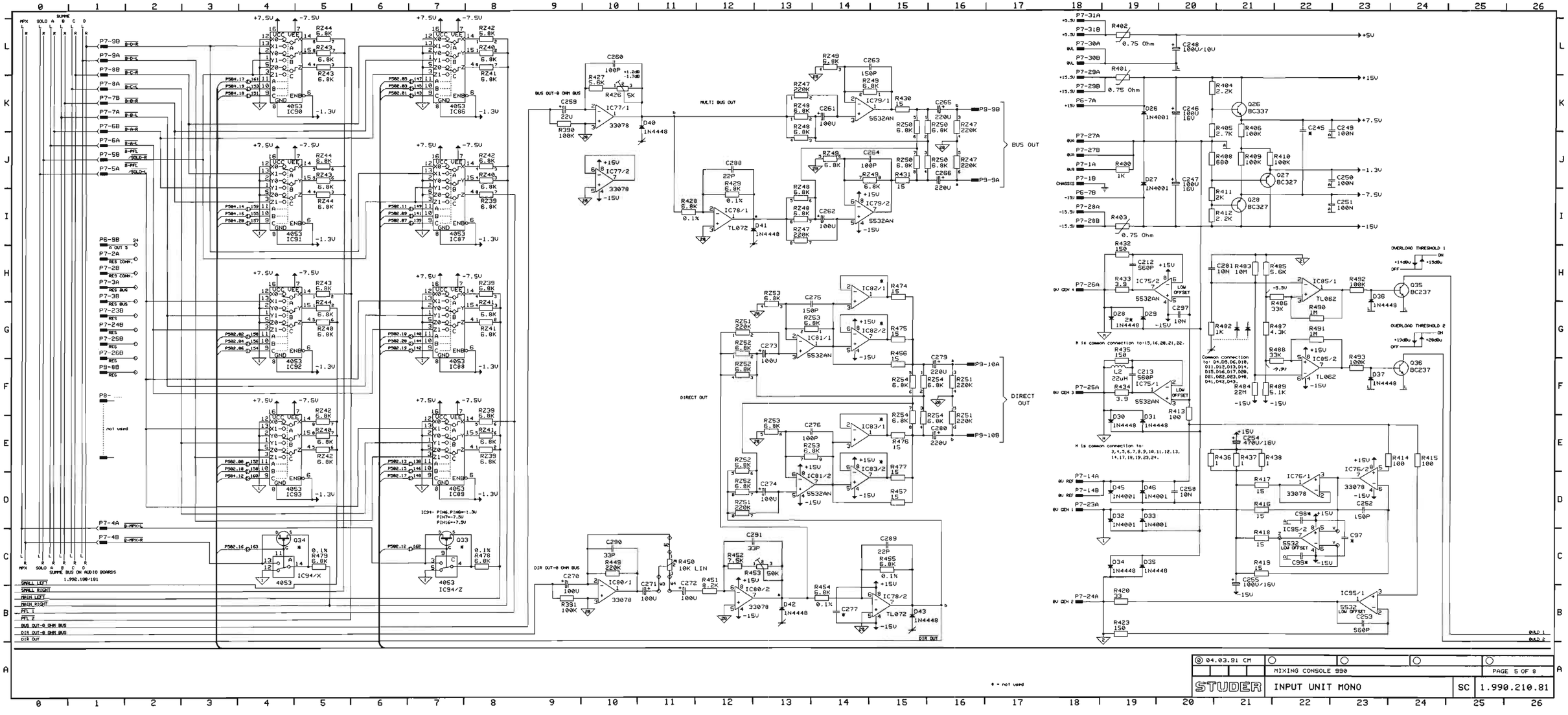
1.990.210.81



ⓒ 04.03.91 CM					
	MIXING CONSOLE 990				PAGE 4 OF 8
STUDER	INPUT UNIT MONO	SC	1.990.210.81		

INPUT UNIT MONO

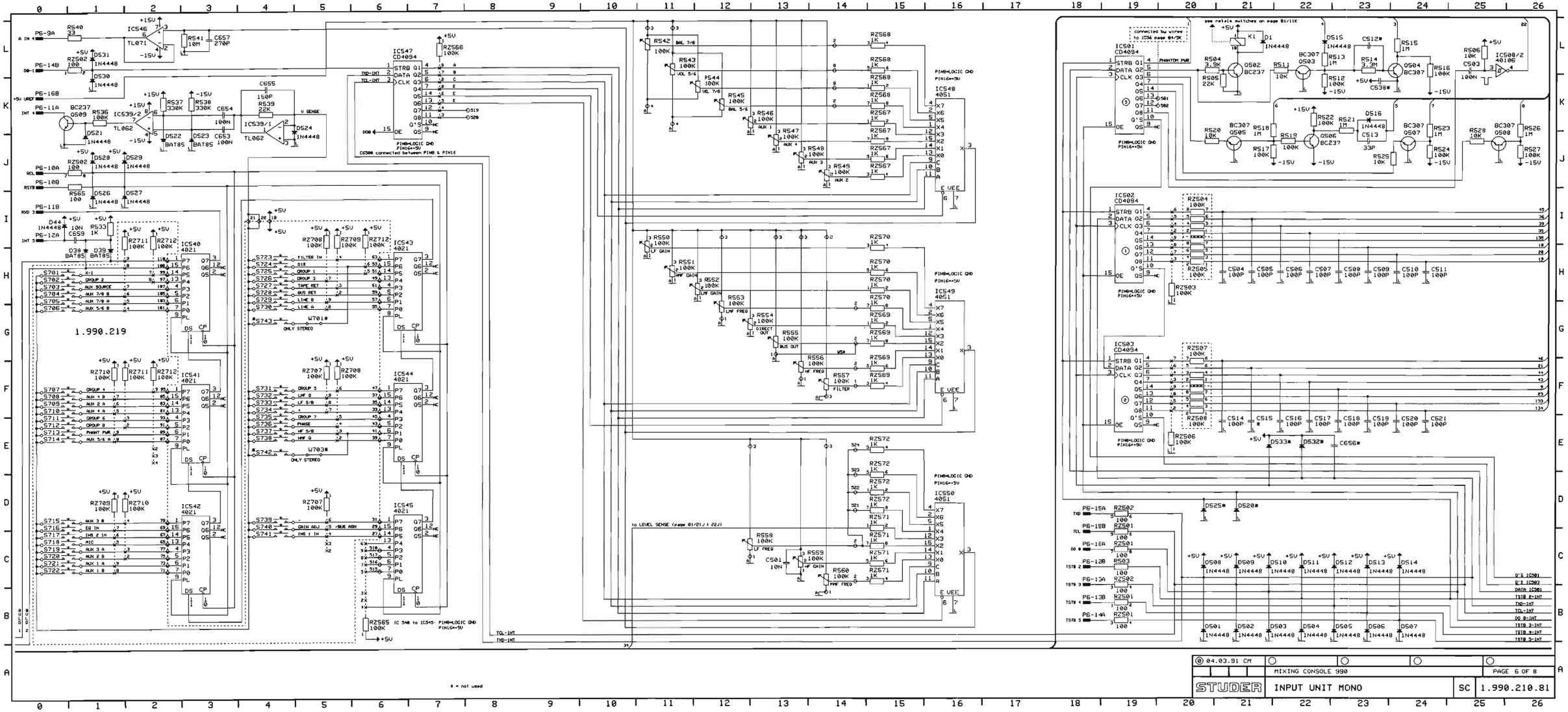
1.990.210.81



⓪ 04.03.91 CM				
	MIXING CONSOLE 990			PAGE 5 OF 8
STUDER	INPUT UNIT MONO	SC	1.990.210.81	

INPUT UNIT MONO

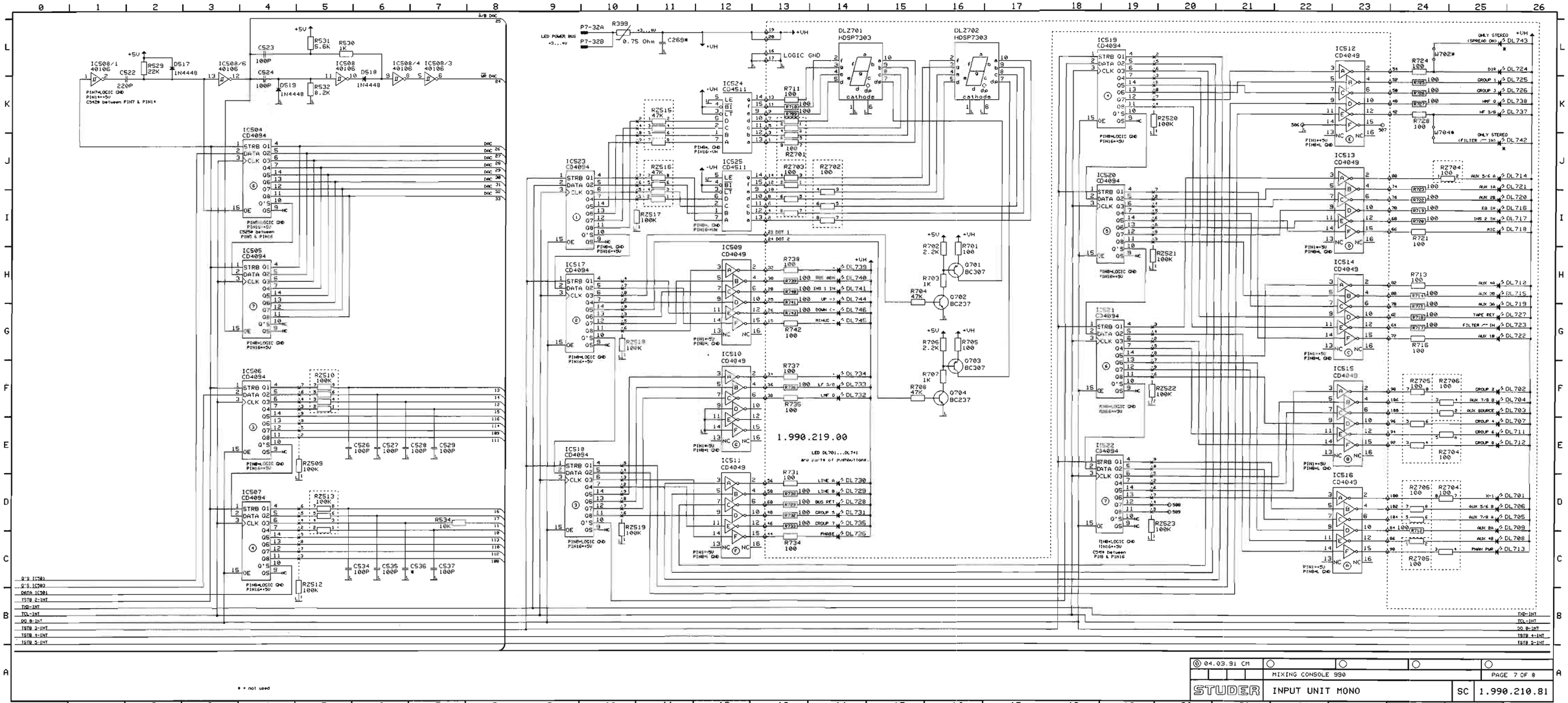
1.990.210.81



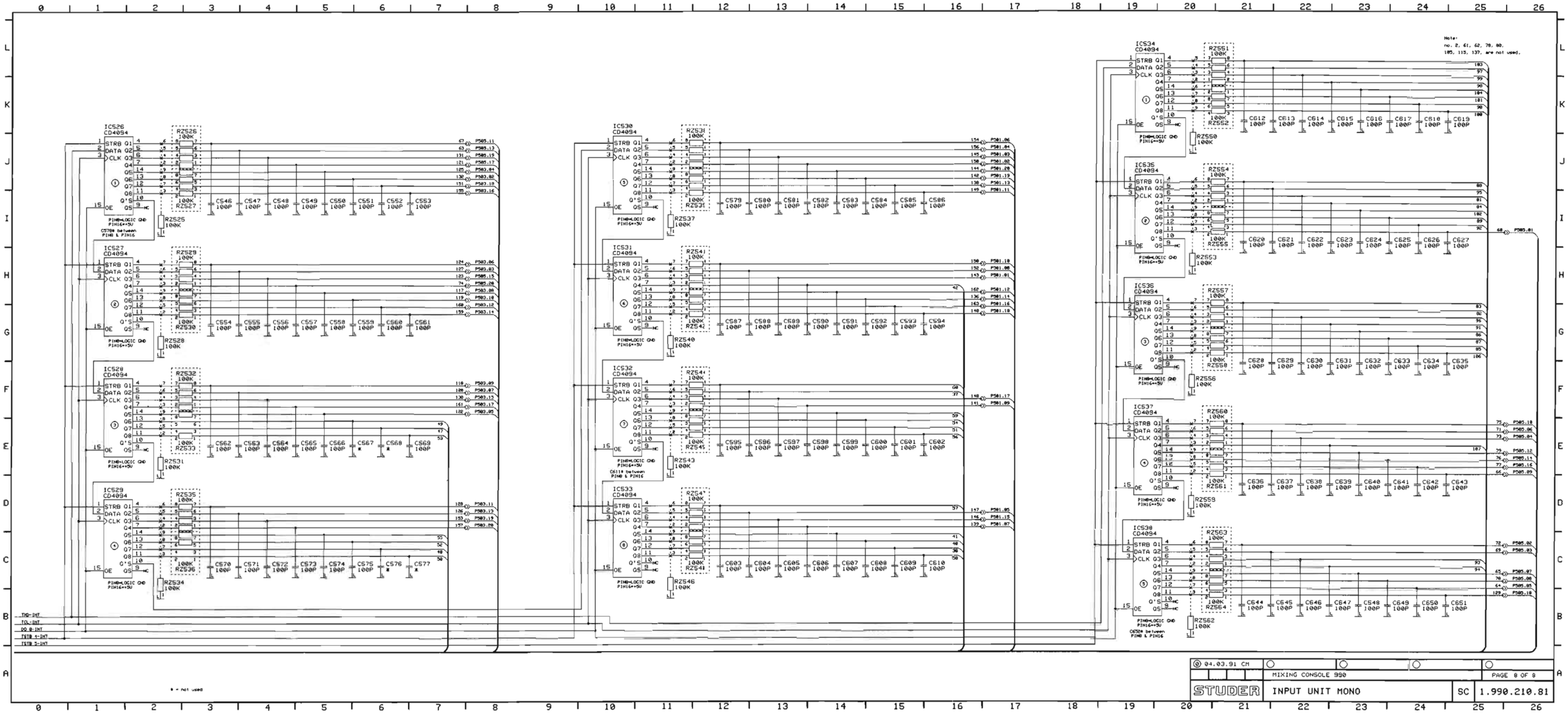
04.03.91 CM					
	MIXING CONSOLE 990				PAGE 6 OF 8
STUDER	INPUT UNIT MONO	SC	1.990.210.81		

INPUT UNIT MONO

1.990.210.81

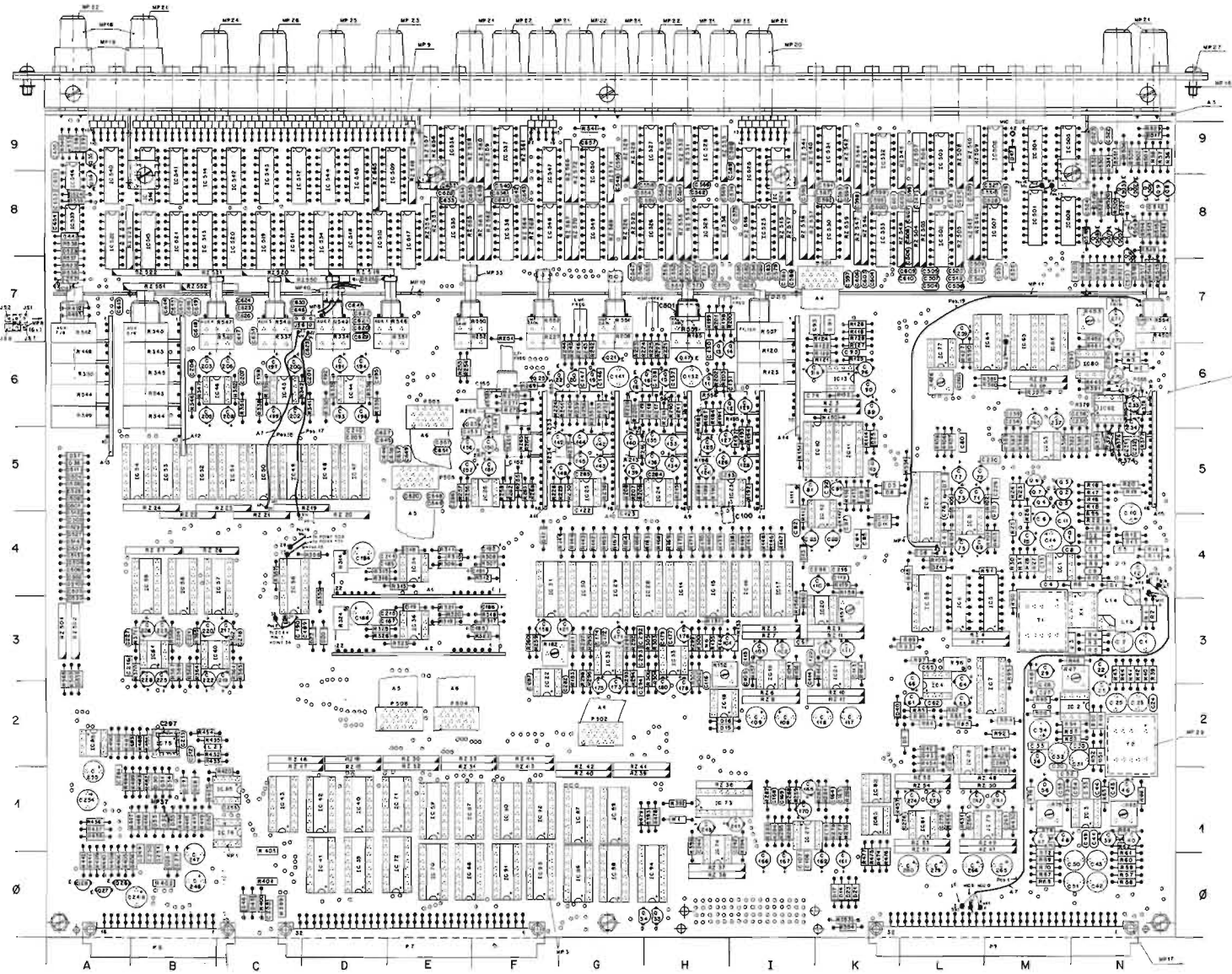


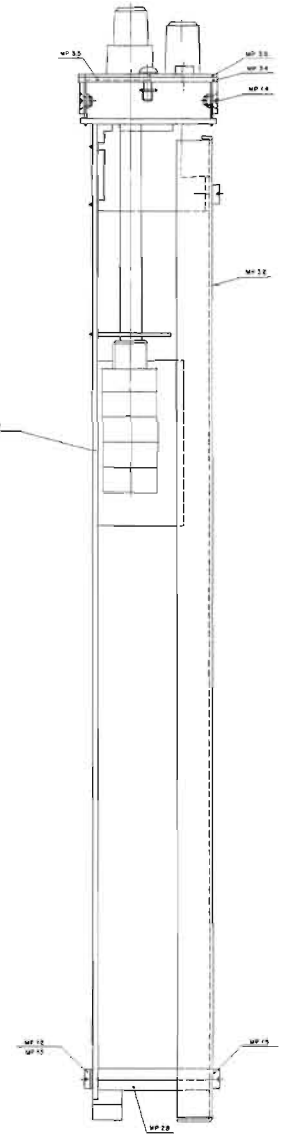
04.03.91 CM				
	MIXING CONSOLE 990			PAGE 7 OF 8
STUDER	INPUT UNIT MONO		SC	1.990.210.81



94.03.91 CM				
	MIXING CONSOLE 990			PAGE 8 OF 8
STUDER	INPUT UNIT MONO		SC	1.990.210.81

INPUT UNIT MONO 1.990.210.81





VALID FOR	NR UNIT	POS - LIST	NR FRONT PANEL
INPUT UNIT MONO MCH	1.990.210-81	1.990.210-81	1.990.210-01
INPUT UNIT MONO B	1.990.220-81	1.990.220-81	1.990.220-01

				3
				2
				1
4.3.91				0
Datum	Ges.	Gepr.	Gen.	Index

Kopie für:

STUDER REGENSDORF ZUMIKON

INPUT UNIT MONO ESE

1.990.210-81

INPUT UNIT MONO

1.990.210.81

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	A.....1	1.911.292.00	VCA-BOARD TYPE 2F	St E4
	A.....2	1.911.292.00	VCA-BOARD TYPE 2F	St E3
	A.....3	1.990.219.00	SWITCH BOARD INPUT UNIT	St
	A.....4	1.023.402.03	1/40" FLATCABLE CONNECT. 260MM 20POL	St
	A.....5	1.023.402.01	1/40" FLATCABLE CONNECT. 120MM 20POL	St
	A.....6	1.023.402.01	1/40" FLATCABLE CONNECT. 120MM 20POL	St
	A.....7	1.990.210.94	Index 2 CABLE LIST INPUT UNIT MONO	St
	A.....8	1.990.291.00	3 POT. 24.6MM BOARD	St
	A.....9	1.990.291.00	3 POT. 24.6MM BOARD	St
	A....10	1.990.291.00	3 POT. 24.6MM BOARD	St
	A....11	1.990.291.00	3 POT. 24.6MM BOARD	St
	A....12	1.990.292.00	5 POT. 10MM BOARD	St B6
	A....13	1.990.292.00	5 POT. 10MM BOARD	St A6
	A....14	1.990.293.00	3 POT. 10MM BOARD	St I6
	A....15	1.990.294.00	2 POT. 24.6MM BOARD	St N6
	C.....1	59.05.1681	680 pF 1% 500V PP	N3
	C.....2	59.05.1681	680 pF 1% 500V PP	N3
	C.....3	59.06.0332	3.3 nF 10% PE	N3
	C.....4	59.32.2471	470 pF CE	M4
	C.....5	59.06.0104	100 nF PE	N4
	C.....6	59.22.3101	100 uF -20% 10V EL	M4
	C.....7	59.34.2220	22 pF CE	N4
	C.....8	59.34.4560	56 pF CE	N4
	C.....9	59.34.5471	470 pF CE	N4
	C....10	59.22.3471	470 uF -20% 6V EL	N5
	C....11	59.22.3101	100 uF -20% 10V EL	M4
	C....12	59.22.6220	22 uF -20% 16V EL	N4
	C....13	59.34.2330	33 pF CE	M4
	C....14	59.22.2221	220 uF -20% 6V EL	M4
	C....15	59.22.3101	100 uF -20% 10V EL	M4
	C....16	. . 0	not used	N4
	C....17	. . 0	not used	N4
	C....18	. . 0	not used	M4
	C....19	. . 0	not exist	
	C....20	. . 0	not exist	
	C....21	. . 0	not used	N4
	C....22	59.22.3101	100 uF -20% 10V EL	C3
	C....23	59.22.3101	100 uF -20% 10V EL	C2
	C....24	59.34.5471	470 pF CE	C2
	C....25	59.05.1102	1 nF 1% 500V PP	C2
	C....26	59.05.1102	1 nF 1% 500V PP	C2
	C....27	59.34.7151	150 pF 2% CE	M2
	C....28	59.34.7151	150 pF 2% CE	M2
	C....29	59.22.3101	100 uF -20% 10V EL	M3
	C....30	59.34.5471	470 pF CE	M2
	C....31	59.05.1102	1 nF 1% 500V PP	N2
	C....32	59.05.1102	1 nF 1% 500V PP	M2
	C....33	59.06.5152	1.5 nF 10% PE	M2
	C....34	59.22.2221	220 uF -20% 6V EL	M2
	C....35	59.34.2470	47 pF CE	N2
	C....36	59.22.3101	100 uF -20% 10V EL	M2
	C....37	. . 0	not used	M2
	C....38	. . 0	not used	N1
	C....39	59.22.3101	100 uF -20% 10V EL	N1
	C....40	59.22.3101	100 uF -20% 10V EL	N1
	C....41	59.34.5471	470 pF CE	N1
	C....42	59.05.1102	1 nF 1% 500V PP	N0
	C....43	59.05.1102	1 nF 1% 500V PP	N0
	C....44	59.34.7151	150 pF 2% CE	N1
	C....45	59.34.7151	150 pF 2% CE	N1
	C....46	59.22.3101	100 uF -20% 10V EL	N1
	C....47	59.22.3101	100 uF -20% 10V EL	M1
	C....48	59.22.3101	100 uF -20% 10V EL	M1
	C....49	59.34.5471	470 pF CE	N1
	C....50	59.05.1102	1 nF 1% 500V PP	N0
	C....51	59.05.1102	1 nF 1% 500V PP	N0
	C....52	59.06.0104	100 nF PE	M1
	C....53	59.06.0104	100 nF PE	N1
	C....54	59.34.7151	150 pF 2% CE	N1
	C....55	59.34.7151	150 pF 2% CE	M1
	C....56	59.22.3101	100 uF -20% 10V EL	M1
	C....57	59.06.0104	100 nF PE	I3
	C....58	. . 0	not exist	
	C....59	. . 0	not exist	
	C....60	. . 0	not exist	
	C....61	59.22.3101	100 uF -20% 10V EL	L2
	C....62	59.34.7151	150 pF 2% CE	L2
	C....63	59.22.6220	22 uF -20% 16V EL	L2
	C....64	59.22.6220	22 uF -20% 16V EL	L2
	C....65	59.34.7151	150 pF 2% CE	L3
	C....66	59.22.3101	100 uF -20% 10V EL	L2
	C....67	. . 0	not exist	
	C....68	. . 0	not exist	
	C....69	59.22.6220	22 uF -20% 16V EL	L4
	C....70	59.34.7151	150 pF 2% CE	M5
	C....71	59.22.3101	100 uF -20% 10V EL	L5
	C....72	59.22.6100	10 uF -20% 10V EL	L5
	C....73	59.22.6100	10 uF -20% 10V EL	L5
	C....74	59.06.0104	100 nF PE	I6
	C....75	59.22.6220	22 uF -20% 16V EL	L4
	C....76	59.34.0229	2.2 pF CE	L5
	C....77	59.22.3101	100 uF -20% 10V EL	L5
	C....78	. . 0	not exist	
	C....79	. . 0	not exist	
	C....80	59.06.0224	220 nF PE	L5
	C....81	59.22.6220	22 uF -20% 16V EL	I5
	C....82	59.34.7151	150 pF 2% CE	I4
	C....83	59.22.3101	100 uF -20% 10V EL	I4
	C....84	59.06.0104	100 nF PE	K4
	C....85	59.06.0104	100 nF PE	K4
	C....86	59.22.6220	22 uF -20% 35V EL	K5
	C....87	59.34.7151	150 pF 2% CE	K4
	C....88	59.22.3101	100 uF -20% 10V EL	K4
	C....89	59.22.3470	47 uF -20% 10V EL	K6
	C....90	59.22.3470	47 uF -20% 10V EL	K6
	C....91	59.06.5334	330 nF 1% PE	K7
	C....92	59.32.4152	1.5 nF CE	K5
	C....93	59.06.5334	330 nF 1% PE	I7
	C....94	59.22.6220	22 uF -20% 16V EL	I6
	C....95	59.34.2330	33 pF CE	K6
	C....96	59.22.3101	100 uF -20% 10V EL	K6
	C....97	. . 0	not used	A7
	C....98	. . 0	not used	A7
	C....99	. . 0	not used	A7
	C...100	59.32.4152	1.5 nF CE (LS)	H5
	C...101	59.22.3101	100 uF -20% 10V EL	H3
	C...102	59.22.3101	100 uF -20% 10V EL	I3
	C...103	59.22.3101	100 uF -20% 10V EL	I3
	C...104	59.34.7151	150 pF 2% CE	I3
	C...105	59.34.4101	100 pF CE	I3
	C...106	59.06.0104	100 nF PE	I0
	C...107	59.06.0104	100 nF PE	I0
	C...108	59.22.2221	220 uF -20% 6V EL	I2
	C...109	59.22.2221	220 uF -20% 6V EL	I2
	C...110	59.22.3101	100 uF -20% 10V EL	K4
	C...111	59.22.3101	100 uF -20% 10V EL	K3
	C...112	59.22.3101	100 uF -20% 10V EL	K3
	C...113	59.34.7151	150 pF 2% CE	K3
	C...114	59.34.4101	100 pF CE	I3
	C...115	59.34.4101	100 pF CE	I3
	C...116	59.34.2220	22 pF CE	H3
	C...117	59.22.2221	220 uF -20% 6V EL	K2
	C...118	59.22.2221	220 uF -20% 6V EL	K2
	C...119	59.34.4101	100 pF CE	K4
	C...120	59.34.2220	22 pF CE	I3
	C...121	59.22.3101	100 uF -20% 10V EL	G3
	C...122	59.06.0104	100 nF PE	G5
	C...123	59.06.0104	100 nF PE	G5
	C...124	59.22.3101	100 uF -20% 10V EL	H5
	C...125	59.22.3101	100 uF -20% 10V EL	H5
	C...126	59.22.6220	22 uF -20% 16V EL	H5
	C...127	59.22.6220	22 uF -20% 16V EL	H5
	C...128	59.05.2472	4700 pF 2.5% PP	I5
	C...129	59.05.2152	1500 pF 2.5% PP	I6
	C...130	59.06.0682	6.8 nF PE	H6
	C...131	59.06.0682	6.8 nF PE	I6
	C...132	59.05.2472	4700 pF 2.5% PP	H6
	C...133	59.05.2472	4700 pF 2.5% PP	H5
	C...134	59.22.6220	22 uF -20% 16V EL	H5
	C...135	59.22.3101	100 uF -20% 10V EL	H5
	C...136	59.22.3101	100 uF -20% 10V EL	H5
	C...137	59.06.0682	6.8 nF PE	H6
	C...138	59.06.0682	6.8 nF PE	H5
	C...139	59.22.6220	22 uF -20% 16V EL	G5
	C...140	59.22.3101	100 uF -20% 10V EL	G5
	C...141	59.05.2153	15 nF 2.5% PP	G6
	C...142	59.99.1400	15 nF 2.5% PP	G5
	C...143	59.22.6220	22 uF -20% 16V EL	G5
	C...144	59.22.3101	100 uF -20% 10V EL	G5
	C...145	59.22.3101	100 uF -20% 10V EL	G5
	C...146	59.06.0682	6.8 nF PE	G6
	C...147	59.06.0682	6.8 nF PE	G6
	C...148	59.22.6220	22 uF -20% 16V EL	G5
	C...149	59.22.3101	100 uF -20% 10V EL	G5
	C...150	59.22.6220	22 uF -20% 16V EL	F5
	C...151	59.22.3101	100 uF -20% 10V EL	F5
	C...152	59.12.7104	100 nF 1% PS	F5
	C...153	59.06.0682	6.8 nF PE	E5
	C...154	59.06.0682	6.8 nF PE	F6
	C...155	59.12.7333	33 nF 1% PS	F6
	C...156	59.22.6220	22 uF -20% 16V EL	E5
	C...157	59.22.3101	100 uF -20% 10V EL	E5
	C...158	59.22.3101	100 uF -20% 10V EL	F3
	C...159	. . 0	not exist	
	C...160	. . 0	not exist	
	C...161	59.22.3101	100 uF -20% 10V EL	K0
	C...162	59.22.3101	100 uF -20% 10V EL	K0
	C...163	59.34.7151	150 pF 2% CE	K1
	C...164	59.34.7151	150 pF 2% CE	K1
	C...165	59.22.3101	100 uF -20% 10V EL	I1
	C...166	59.22.3101	100 uF -20% 10V EL	I0
	C...167	59.22.3101	100 uF -20% 10V EL	I0
	C...168	59.34.7151	150 pF 2% CE	I1
	C...169	59.34.7151	150 pF 2% CE	I1
	C...170	59.22.3101	100 uF -20% 10V EL	I1
	C...171	59.22.6220	22 uF -20% 16V EL	G3
	C...172	59.34.7151	150 pF 2% CE	G3
	C...173	59.22.3101	100 uF -20% 10V EL	G2
	C...174	59.34.7151	150 pF 2% CE	G3
	C...175	59.22.3101	100 uF -20% 10V EL	G2
	C...176	59.22.6220	22 uF -20% 16V EL	H3
	C...177	59.34.7151	150 pF 2% CE	H3
	C...178	59.22.3101	100 uF -20% 10V EL	H2
	C...179	59.34.7151	150 pF 2% CE	H3
	C...180	59.22.3101	100 uF -20% 10V EL	H2
	C...181	59.26.1220	22 uF -20% 10V SAL	F4
	C...182	59.26.5109	1 uF -20% 10V SAL	F4
	C...183	59.34.2330	33 pF 2% CE	D4
	C...184	59.22.3471	470 uF -20% 10V EL	D4
	C...185	59.26.1220	22 uF -20% 10V SAL	F3
	C...186	59.26.5109	1 uF -20% 10V SAL	F3
	C...187	59.34.2330	33 pF 2% CE	D3
	C...188	59.22.3471	470 uF -20% 10V EL	D3
	C...189	59.06.0104	100 nF PE	D3
	C...190	59.06.0104	100 nF PE	D3
	C...191	59.22.3101	100 uF -20% 10V EL	D6
	C...192	59.34.7151	150 pF 2% CE	D6
	C...193	59.22.6220	22 uF -20% 16V EL	D6
	C...194	59.22.3101	100 uF -20% 10V EL	D6
	C...195	59.34.7151	150 pF 2% CE	D6
	C...196	59.22.6220	22 uF -20% 16V EL	D6
	C...197	59.22.3101	100 uF -20% 10V EL	C6
	C...198	59.34.7151	150 pF 2% CE	C6
	C...199	59.22.6220	22 uF -20% 16V EL	C6
	C...200	59.22.3101	100 uF -20% 10V EL	C6
	C...201	59.34.7151	150 pF 2% CE	D6
	C...202	59.22.6220	22 uF -20% 16V EL	C6
	C...203	59.22.3101	100 uF -20% 10V EL	B6
	C...204	59.34.7151	150 pF 2% CE	B6
	C...205	59.22.6220	22 uF -20% 16V EL	B6
	C...206	59.22.3101	100 uF -20% 10V EL	C6
	C...207	59.34.7151	150 pF 2% CE	C6
	C...208	59.22.6220	22 uF -20% 16V EL	C6
	C...209	59.06.0104	100 nF PE	D5
	C...210	59.06.0104	100 nF PE	D5
	C...211	. . 0	not used	D5
	C...212	59.34.5561	560 pF CE	B2
	C...213	59.34.5561	560 pF CE	B2
	C...214	59.34.4101	100 pF CE	E4
	C...215	59.34.4101	100 pF CE	E3
	C...216	59.06.0104	100 nF PE	B3
	C...217	59.22.6220	22 uF -20% 16V EL	C3
	C...218	59.34.7151	150 pF 2% CE	C3
	C...219	59.22.3101	100 uF -20% 10V EL	C3
	C...220	59.22.6220	22 uF -20% 16V EL	B3
	C...221	59.34.7151	150 pF 2% CE	B3
	C...222	59.22.3101	100 uF -20% 10V EL	B3
	C...223	59.22.6220	22 uF -20% 16V EL	B3
	C...224	59.34.7151	150 pF 2% CE	B3
	C...225	59.22.3101	100 uF -20% 10V EL	B3
	C...226	59.22.6220	22 uF -20% 16V EL	B3
	C...227	59.34.7151	150 pF 2% CE	A3
	C...228	59.22.3101	100 uF -20% 10V EL	B3
	C...229	59.06.0104	100 nF PE	M5
	C...230	59.06.0104	100 nF PE	M5
	C...231	59.34.7151	150 pF 2% CE	N5
	C...232	59.34.7151	150 pF 2% CE	N5
	C...233	59.22.3101	100 uF -20% 10V EL	N6
	C...234	59.22.3101	100 uF -20% 10V EL	N6
	C...235	59.34.2220	22 pF 2% CE	N6
	C...236	59.34.2220	22 pF 2% CE	N6
	C...237	59.22.3101	100 uF -20% 10V EL	M6
	C...238	59.34.2220	22 pF 2% CE	M6
	C...239	59.34.2220	22 pF 2% CE	M6
	C...240	59.22.3101	100 uF -20% 10V EL	M6
	C...241	59.22.6220	22 uF -20% 16V EL	I1
	C...242	59.34.7151	150 pF 2% CE	I1
	C...243	59.22.6220	22 uF -20% 16V EL	H1
	C...244	59.34.7151	150 pF 2% CE	H1
	C...245	. . 0	not used	C0
	C...246	59.22.4101	100 uF -20% 16V EL	B0
	C...247	59.22.4101	100 uF -20% 16V EL	B0
	C...248	59.22.4101	100 uF -20% 16V EL	B0
	C...249	59.06.0104	100 nF PE	B0
	C...250	59.06.0104	100 nF PE	B0
	C...251	59.06.0104	100 nF PE	B0
	C...252	59.34.7151	150 pF CE	B1
	C...253	59.34.5561	560 pF CE	C1
	C...254	59.22.4471	470 uF -20% 16V EL	A1
	C...255	59.22.4101	100 uF -20% 16V EL	A1
	C...256	. . 0	not exist	
	C...257	59.22.3101	100 uF -20% 10V EL	N6
	C...258	59.06.5103	10 nF PE	C0
	C...259	59.22.3101	100 uF -20% 10V EL	L7
	C...260	59.34.4101	100 pF CE	L6
	C...261	59.22.3101	100 uF -20% 10V EL	M1
	C...262	59.22.3101	100 uF -20% 10V EL	L1
	C...263	59.34.7151	150 pF 2% CE	M1
	C...264	59.34.4101	100 pF CE	L1
	C...265	59.22.2221	220 uF -20% 6V EL	M0
	C...266	59.22.2221	220 uF -20% 6V EL	L0
	C...267	. . 0	not exist	
	C...268	. . 0	not exist	
	C...269	. . 0	not used	G9
	C...270	59.22.3101	100 uF -20% 10V EL	N6
	C...271	59.22.3101	100 uF -20% 10V EL	N7
	C...272	59.22.3101	100 uF -20% 10V EL	N7
	C...273	59.22.3101	100 uF -20% 10V EL	L1
	C...274	59.22.3101	100 uF -20% 10V EL	L1
	C...275	59.34.7151	150 pF 2% CE	L1
	C...276	59.34.4101	100 pF CE	L1
	C...277	. . 0	not used	L1
	C...278	. . 0	not exist	
	C...279	59.22.2221	220 uF -20% 6V EL	L0
	C...280	59.22.2221	220 uF -20% 6V EL	L0
	C...281	59.06.5103	10 nF PE	A1
	C...282	59.34.2330	33 pF CE	G2
	C...283	59.34.2330	33 pF CE	H5
	C...284	59.34.2330	33 pF CE	H5
	C...285	59.34.2330	33 pF CE	G5
	C...286	59.34.2330	33 pF CE	E5
	C...287	59.34.2330	33 pF CE	F2
	C...288	59.34.2220	22 pF CE	M2
	C...289	59.34.2220	22 pF CE	L2
	C...290	59.34.2330	33 pF CE	N6
	C...291	59.34.2330	33 pF CE	N6
	C...292	59.06.0104	100 nF PE	G3
	C...293	59.06.0104	100 nF PE	G3
	C...294	59.06.0104	100 nF PE	G3
	C...295	59.06.0104	100 nF PE	K4
	C...296	59.06.0104	100 nF PE	K4
	C...297	59.06.5103	10 nF PE (LS)	B2
	C...501	59.06.5103	10 nF PE (LS)	H7
	C...502	. . 0	not exist	
	C...503	59.06.0104	100 nF PE	N7
	C...504	59.34.4101	100 pF CE	L7
	C...505	59.34.4101	100 pF CE	L7
	C...506	59.34.4101	100 pF CE	L8
	C...507	59.34.4101	100 pF CE	L7
	C...508	59.34.4101	100 pF CE	L7
	C...509	59.34.4101	100 pF CE	L7
	C...510	59.34.4101	100 pF CE	L7
	C...511	59.34.4101	100 pF CE	L7
	C...512	. .	not used	N8
	C...513	59.34.2330	33 pF CE	N7
	C...514	59.34.4101	100 pF CE	L8
	C...515	. . 0	not used	L8
	C...516	59.34.4101	100 pF CE	L8
	C...517	59.34.4101	100 pF CE	L8
	C...518	59.34.4101	100 pF CE	L8
	C...519	59.34.4101	100 pF CE	L7
	C...520	59.34.4101	100 pF CE	L7
	C...521	59.34.4101	100 pF CE	L8
	C...522	59.34.4221	220 pF CE	N9
	C...523	59.34.4101	100 pF CE	N9
	C...524	59.34.4101	100 pF CE	N8
	C...525	. . 0	not used	N9
	C...526	59.34.4101	100 pF CE	M8
	C...527	59.34.4101	100 pF CE	M8
	C...528	59.34.4101	100 pF CE	M8
	C...529	59.34.4101	100 pF CE	L8
	C...530	. . 0	not exist	
	C...531	. . 0	not exist	
	C...532	. . 0	not exist	
	C...533	. . 0	not exist	
	C...534	59.34.4101	100 pF CE	M8
	C...535	59.34.4101	100 pF CE	M7
	C...536	. . 0	not used	M7
	C...537	59.34.4101	100 pF CE	M7
	C...538	. . 0	not used	N8
	C...539	. . 0	not exist	
	C...540	. . 0	not exist	
	C...541	. . 0	not exist	
	C...542	. . 0	not exist	M8
	C...543	. . 0	not exist	
	C...544	. . 0	not exist	
	C...545	. . 0	not used	A7
	C...546	59.34.4101	100 pF CE	G7
	C...547	59.34.4101	100 pF CE	G7
	C...548	59.99.1101	100 pF CE	G8
	C...549	59.34.4101	100 pF CE	E5
	C...550	59.99.1101	100 pF CE	H7
	C...551	59.99.1101	100 pF CE	H7
	C...552	59.34.4101	100 pF CE	H7
	C...553	59.34.4101	100 pF CE	H7
	C...554	59.34.4101	100 pF CE	H8
	C...555	59.34.4101	100 pF CE	H7
	C...556	59.99.1101	100 pF CE	G9
	C...557	59.34.4101	100 pF CE	E5
	C...558	59.34.4101	100 pF CE	H8
	C...559	59.34.4101	100 pF CE	H8
	C...560	59.34.4101	100 pF CE	H8
	C...561	59.34.4101	100 pF CE	H8
	C...562	59.99.1101	100 pF CE	H8
	C...563	59.34.4101	100 pF CE	H7
	C...564	59.99.1101	100 pF CE	H8
	C...565	59.99.1101	100 pF CE	H7
	C...566	59.99.1101	100 pF CE	H8
	C...567	. . 0	not used	H8
	C...568	. . 0	not used	H8
	C...569	59.34.4101	100 pF CE	H8
	C...570	59.34.4101	100 pF CE	H7
	C...571	59.34.4101	100 pF CE	H7
	C...572	59.99.1101	100 pF CE	H7
	C...573	59.99.1101	100 pF CE	H7
	C...574	59.34.4101	100 pF CE	I8
	C...575	59.34.4101	100 pF CE	I8
	C...576	. . 0	not used	I7
	C...577	. . 0	not used CE	H7
	C...578	. . 0	not exist	G8
	C...579	59.34.4101	100 pF CE	I7
	C...580	59.99.1101	100 pF CE	I7
	C...581	59.34.4101	100 pF CE	I7
	C...582	59.34.4101	100 pF CE	I7
	C...583	59.99.1101	100 pF CE	I7
	C...584	59.99.1101	100 pF CE	I7
	C...585	59.34.4101	100 pF CE	I7
	C...586	59.34.4101	100 pF CE	I7
	C...587	59.34.4101	100 pF CE	K8
	C...588	59.34.4101	100 pF CE	I9
	C...589	59.34.4101	100 pF CE	I9
	C...590	59.34.4101	100 pF CE	I8
	C...591	59.34.4101	100 pF CE	K8
	C...592	59.34.4101	100 pF CE	K8
	C...593	59.34.4101	100 pF CE	K8
	C...594	59.34.4101	100 pF CE	K8
	C...595	59.34.4101	100 pF CE	K8
	C...596	59.34.4101	100 pF CE	L8
	C...597	59.34.4101	100 pF CE	K7
	C...598	59.34.4101	100 pF CE	K8
	C...599	59.34.4101	100 pF CE	K8
	C...600	59.34.4101	100 pF CE	K8
	C...601	59.34.4101	100 pF CE	K8
	C...602	59.34.4101	100 pF CE	L8
	C...603	59.34.4101	100 pF CE	K7
	C...604	59.34.4101	100 pF CE	K7
	C...605	59.99.1101	100 pF CE	I7
	C...606	59.34.4101	100 pF CE	K7
	C...607	59.34.4101	100 pF CE	L8
	C...608	59.34.4101	100 pF CE	L8
	C...609	59.34.4101	100 pF CE	L7
	C...610	59.34.4101	100 pF CE	L7
	C...611	. . 0	not used	K8
	C...612	59.34.4101	100 pF CE	B7
	C...613	59.34.4101	100 pF CE	B7
	C...614	59.34.4101	100 pF CE	B7
	C...615	59.34.4101	100 pF CE	A7
	C...616	59.34.4101	100 pF CE	B7
	C...617	59.34.4101	100 pF CE	C7
	C...618	59.34.4101	100 pF CE	B7
	C...619	59.34.4101	100 pF CE	B7
	C...620	59.34.4101	100 pF CE	D7
	C...621	59.34.4101	100 pF CE	D7
	C...622	59.34.4101	100 pF CE	D7
	C...623	59.34.4101	100 pF CE	D6
	C...624	59.34.4101	100 pF CE	C7
	C...625	59.34.4101	100 pF CE	C7
	C...626	59.34.4101	100 pF CE	C7
	C...627	59.34.4101	100 pF CE	D5
	C...628	59.34.4101	100 pF CE	E8
	C...629	59.34.4101	100 pF CE	D7
	C...630	59.34.4101	100 pF CE	C7
	C...631	59.34.4101	100 pF CE	C7
	C...632	59.34.4101	100 pF CE	E8
	C...633	59.34.4101	100 pF CE	E8
	C...634	59.99.1101	100 pF CE	E8
	C...635	59.99.1101	100 pF CE	E8
	C...636	59.34.4101	100 pF CE	F8
	C...637	59.34.4101	100 pF CE	E5
	C...638	59.34.4101	100 pF CE	E5
	C...639	59.99.1101	100 pF CE	F8
	C...640	59.34.4101	100 pF CE	F8
	C...641	59.34.4101	100 pF CE	F8
	C...642	59.34.4101	100 pF CE	F8
	C...643	59.34.4101	100 pF CE	F8
	C...644	59.34.4101	100 pF CE	D5
	C...645	59.34.4101	100 pF CE	D5
	C...646	59.34.4101	100 pF CE	C7
	C...647	59.34.4101	100 pF CE	D7
	C...648	59.34.4101	100 pF CE	E5
	C...649	59.34.4101	100 pF CE	E5
	C...650	59.34.4101	100 pF CE	E5
	C...651	59.34.4101	100 pF CE	E5
	C...652	. . 0	not used	F8
	C...653	59.06.0104	100 nF PE	A8
	C...654	59.06.0104	100 nF PE	A8
	C...655	59.34.7151	150 pF 2% CE	A9
	C...656	. . 0	not used	
	C...657	59.34.4221	220 pF CE	G9
	C...658	. . 0	not used	F9
	C...659	59.06.5103	10 nF PE	A8
	D.....1	50.04.0125	1N4448	any N4
	D.....2	50.04.0125	1N4448	any N4
	D.....3	50.04.0125	1N4448	any K5
	D.....4	50.04.0125	1N4448	any L4
	D.....5	50.04.0125	1N4448	any L2
	D.....6	50.04.0125	1N4448	any L4
	D.....7	50.04.0125	1N4448	any L5
	D.....8	50.04.0125	1N4448	any K5
	D.....9	50.04.0125	1N4448	any K5
	D....10	50.04.0125	1N4448	any K4
	D....11	50.04.0125	1N4448	any K4
	D....12	50.04.0125	1N4448	any F4
	D....13	50.04.0125	1N4448	any I4
	D....14	50.04.0125	1N4448	any K0
	D....15	50.04.0125	1N4448	any H2
	D....16	50.04.0125	1N4448	any H2
	D....17	50.04.0125	1N4448	any K0
	D....18	50.04.0125	1N4448	any E4
	D....19	50.04.0125	1N4448	any E3
	D....20	50.04.0125	1N4448	any D4
	D....21	. . 0	not used	K0
	D....22	50.04.0125	1N4448	any D4
	D....23	. . 0	not used	K0
	D....24	50.04.1118	6V2 Z-DIODE	any L4
	D....25	50.04.0125	1N4448	any K5
	D....26	50.04.0122	1N4001 1A / 50V	any B0
	D....27	50.04.0122	1N4001 1A / 50V	any B0
	D....28	50.04.0125	1N4448	any B1
	D....29	50.04.0125	1N4448	any B1
	D....30	50.04.0125	1N4448	any B1
	D....31	50.04.0125	1N4448	any B1
	D....32	50.04.0122	1N4001 1A / 50V	any B1
	D....33	50.04.0122	1N4001 1A / 50V	any B1
	D....34	50.04.0125	1N4448	any B1
	D....35	50.04.0125	1N4448	any B1
	D....36	50.04.0125	1N4448	any A5
	D....37	50.04.0125	1N4448	any A5
	D....38	50.04.0127	BAT 85 SCHOTTKY	any A9
	D....39	50.04.0127	BAT 85 SCHOTTKY	any A9
	D....40	50.04.0125	1N4448	any K2
	D....41	50.04.0125	1N4448	any M2
	D....42	50.04.0125	1N4448	any L2
	D....43	50.04.0125	1N4448	any L2
	D....44	50.04.0125	1N4448	any A8
	D....45	50.04.0122	1N4001 1A / 50V	any C0
	D....46	50.04.0122	1N4001 1A / 50V	any C0
	D....47	50.04.0125	1N4448	any M9
	D...501	50.04.0125	1N4448	any A5
	D...502	50.04.0125	1N4448	any A4
	D...503	50.04.0125	1N4448	any A4
	D...504	50.04.0125	1N4448	any A5
	D...505	50.04.0125	1N4448	any A4
	D...506	50.04.0125	1N4448	any A4
	D...507	50.04.0125	1N4448	any A4
	D...508	50.04.0125	1N4448	any A5
	D...509	50.04.0125	1N4448	any A4
	D...510	50.04.0125	1N4448	any A4
	D...511	50.04.0125	1N4448	any A5
	D...512	50.04.0125	1N4448	any A4
	D...513	50.04.0125	1N4448	any A4
	D...514	50.04.0125	1N4448	any A4
	D...515	50.04.0125	1N4448	any N8
	D...516	50.04.0125	1N4448	any N7
	D...517	50.04.0125	1N4448	any N9
	D...518	50.04.0125	1N4448	any N8
	D...519	50.04.0125	1N4448	any N8
	D...520	. . 0	not used	G9
	D...521	50.04.0125	1N4448	any A7
	D...522	50.04.0127	BAT 85 SCHOTTKY	any A7
	D...523	50.04.0127	BAT 85 SCHOTTKY	any A8
	D...524	50.04.0125	1N4448	any A8
	D...525	. . 0	not used	D7
	D...526	50.04.0125	1N4448	any A5
	D...527	50.04.0125	1N4448	any A4
	D...528	50.04.0125	1N4448	any A5
	D...529	50.04.0125	1N4448	any A4
	D...530	50.04.0125	1N4448	any A4
	D...531	50.04.0125	1N4448	any A3
	D...532	. . 0	not used	
	D...533	. . 0	not used	
	IC....1	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT M4
	IC....2	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT N2
	IC....3	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT N1
	IC....4	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT L2
	IC....5	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA M3
	IC....6	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA L3
	IC....7	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA M2
	IC....8	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT L4
	IC....9	50.07.0037	AD7528JN D/A CONVERTER 8 BIT DUAL MULTIPLEXER	ADI L5
	IC...10	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA K5
	IC...11	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA K5
	IC...12	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT K5
	IC...13	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT K5
	IC...14	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA H4
	IC...15	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA H4
	IC...16	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA I4
	IC...17	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA I4
	IC...18	50.09.0117	MC33078 DUAL OP. AMP. LOW NOISE	MOT H2
	IC...19	50.09.0101	TL072 DUAL OP. AMP. FET	TI I5
	IC...20	50.09.0117	MC33078 DUAL OP. AMP. LOW NOISE	MOT K3
	IC...21	50.09.0101	TL072 DUAL OP. AMP. FET	TI K3
	IC...22	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT F2
	IC...23	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT I5
	IC...24	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT H5
	IC...25	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT G5
	IC...26	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT F5
	IC...27	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT I1
	IC...28	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA H4
	IC...29	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA G4
	IC...30	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA G4
	IC...31	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA F4

INPUT UNIT MONO

1.990.210.81

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	IC...32	50.09.0106	NE5532AN DUAL OP. AMP. LOW NOISE	EX,RA,SIG E4
	IC...33	50.09.0106	NE5532AN DUAL OP. AMP. LOW NOISE	EX,RA,SIG E4
	IC...34	50.09.0106	NE5532AN DUAL OP. AMP. LOW NOISE	EX,RA,SIG E4
	IC...35	. . 0	not exist	
	IC...36	50.09.0106	NE5532AN DUAL OP. AMP. LOW NOISE	EX,RA,SIG E3
	IC...37	. . 0	not exist	
	IC...38	. . 0	not exist	
	IC...39	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA D0
	IC...40	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA D1
	IC...41	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA D0
	IC...42	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA D1
	IC...43	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA C1
	IC...44	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT D6
	IC...45	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT C6
	IC...46	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT C6
	IC...47	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA D4
	IC...48	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA D4
	IC...49	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA C5
	IC...50	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA C5
	IC...51	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA C5
	IC...52	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA B5
	IC...53	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA B5
	IC...54	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA B5
	IC...55	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA L3
	IC...56	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA C4
	IC...57	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA B4
	IC...58	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA B4
	IC...59	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA B4
	IC...60	50.09.0106	NE5532AN DUAL OP. AMP. LOW NOISE	EX,RA,SIG B3
	IC...61	50.09.0106	NE5532AN DUAL OP. AMP. LOW NOISE	EX,RA,SIG B3
	IC...62	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT N6
	IC...63	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT M5
	IC...64	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA M7
	IC...65	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA M7
	IC...66	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA M7
	IC...67	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA E1
	IC...68	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA E0
	IC...69	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA E1
	IC...70	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA E0
	IC...71	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA E1
	IC...72	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA E0
	IC...73	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA H1
	IC...74	50.09.0106	NE5532AN DUAL OP. AMP. LOW NOISE	RA,SIG H0
	IC...75	1.010.051.50	NE5532AN DUAL OP. AMP. LOW OFFSET <1mV	St B2
	IC...76	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT C1
	IC...77	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT L6
	IC...78	50.09.0101	TL072 DUAL OP. AMP. FET	TI L2
	IC...79	50.09.0106	NE5532AN DUAL OP. AMP. LOW NOISE	EX,RA,SIG M1
	IC...80	50.09.0117	MC33078P DUAL OP. AMP. LOW NOISE	MOT N6
	IC...81	50.09.0106	NE5532AN DUAL OP. AMP. LOW NOISE	EX,RA,SIG L1
	IC...82	. . 0	not used	K1
	IC...83	. . 0	not used	K1
	IC...84	. . 0	not exist	
	IC...85	50.09.0119	TL 062 DUAL FET OP. AMP.	THO A2
	IC...86	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA G0
	IC...87	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA G1
	IC...88	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA G0
	IC...89	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA G1
	IC...90	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA F1
	IC...91	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA F0
	IC...92	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA F1
	IC...93	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA F0
	IC...94	50.07.0015	CD4053 3*2 CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA H0
	IC...95	1.010.051.50	NE5532AN DUAL OP. AMP. LOW OFFSET <1mV	St C1
	IC..501	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA M8
	IC..502	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA L8
	IC..503	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA L9
	IC..504	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA M9
	IC..505	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA M9
	IC..506	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA M9
	IC..507	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA M8
	IC..508	50.07.0014	40106 HEX.SCHMITT-TRIG. S MC14584; 40014	PH,MOT M8
	IC..509	50.07.0049	4049 HEX INVERTING BUFFER CMOS	PH,TO E9
	IC..510	50.07.0049	4049 HEX INVERTING BUFFER CMOS	PH,TO D8
	IC..511	50.07.0049	4049 HEX INVERTING BUFFER CMOS	PH,TO C8
	IC..512	50.07.0049	4049 HEX INVERTING BUFFER CMOS	PH,TO C9
	IC..513	50.07.0049	4049 HEX INVERTING BUFFER CMOS	PH,TO B8
	IC..514	50.07.0049	4049 HEX INVERTING BUFFER CMOS	PH,TO B9
	IC..515	50.07.0049	4049 HEX INVERTING BUFFER CMOS	PH,TO B8
	IC..516	50.07.0049	4049 HEX INVERTING BUFFER CMOS	PH,TO B9
	IC..517	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA E8
	IC..518	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA D8
	IC..519	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA C8
	IC..520	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA C8
	IC..521	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA B8
	IC..522	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA A8
	IC..523	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA I8
	IC..524	50.07.0511	4511 BCD TO 7-SEGMENT LATCH/DECODR/DRIVR	MOT,TO I9
	IC..525	50.07.0511	4511 BCD TO 7-SEGMENT LATCH/DECODR/DRIVR	MOT,TO I9
	IC..526	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA H8
	IC..527	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA H9
	IC..528	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA H9
	IC..529	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA H8
	IC..530	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA K8
	IC..531	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA K9
	IC..532	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA K9
	IC..533	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA K8
	IC..534	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA D8
	IC..535	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA E8
	IC..536	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA E9
	IC..537	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA F9
	IC..538	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA F8
	IC..539	50.09.0119	TL 062 DUAL FET OP. AMP.	THO A8
	IC..540	50.07.1021	CD4021 8-BIT STATIC SHIFT REGISTER	PH,MOT,RCA A9
	IC..541	50.07.1021	CD4021 8-BIT STATIC SHIFT REGISTER	PH,MOT,RCA B9
	IC..542	50.07.1021	CD4021 8-BIT STATIC SHIFT REGISTER	PH,MOT,RCA C9
	IC..543	50.07.1021	CD4021 8-BIT STATIC SHIFT REGISTER	PH,MOT,RCA C9
	IC..544	50.07.1021	CD4021 8-BIT STATIC SHIFT REGISTER	PH,MOT,RCA D9
	IC..545	50.07.1021	CD4021 8-BIT STATIC SHIFT REGISTER	PH,MOT,RCA D9
	IC..546	50.09.0103	TL 071 FET OP. AMP.	TI A9
	IC..547	50.07.0018	CD4094 SHIFT AND STORE BUS REGISTER	PH,MOT,RCA F9
	IC..548	50.07.0051	CD4051 8-CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA F8
	IC..549	50.07.0051	CD4051 8-CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA G8
	IC..550	50.07.0051	CD4051 8-CHANNEL ANALOG MUX/DEMUX	PH,MOT,RCA G9
	JSJ...1	. . 0	not used AUX 4	
	JSJ...2	. . 0	not used AUX 5/6	
	JSJ...3	. . 0	not used OPTION FILM OUT C (LEITERBAHN)	
	JSJ...4	. . 0	not used OPTION FILM OUT L (LEITERBAHN)	
	JSJ...5	. . 0	not used OPTION FILM OUT S (LEITERBAHN)	
	JSJ...6	. . 0	not used OPTION FILM OUT R (LEITERBAHN)	
	JSJ...7	. . 0	not used PF-L	
	JSJ...8	54.01.0021	JUMPER AF-L	D7
	K.....1	56.04.0195	TQ2-6V	SDS N3
	L.....1	1.022.207.00	HF-SYM.CHOKE	St N3
	L.....2	62.02.3220	22 uH HF-CHOKE-COIL	B2
	MP....1	53.03.0166	38 pcs IC-SOCKET 8 PIN	
	MP....2	. . 0	not exist	
	MP....3	53.03.0168	48 pcs IC-SOCKET 16 PIN	
	MP....4	53.03.0165	1 pcs IC-SOCKET 20 PIN	
	MP....5	. . 0	not exist	
	MP....6	43.01.0108	1 pcs ESE-WARNSCHILD	St
	MP....7	1.990.210.12	1 pcs INPUT MONO PCB	St
	MP....8	54.01.0020	6 pcs JUMPER PLUG	
	MP....9	54.11.0131	55 pcs DUAL PIN (TOTALY 110 PINS)	
	MP...10	1.990.210.06	1 pcs ABSCHIRMUNG A/D INPUT LINKS	St
	MP...11	1.990.210.07	1 pcs ABSCHIRMUNG A/D INPUT RECHTS	St
	MP...12	21.01.0354	3 pcs Z-SCHR. M3*6	
	MP...13	24.16.1030	3 pcs RIPPENSCH. D 3.2/5.5	
	MP...14	21.01.2352	6 pcs S-SCHR. M3*4	
	MP...15	21.99.0117	7 pcs Z-SCHR. NYLON M3*6	
	MP...16	24.16.3023	2 pcs WELLENSICHERUNG 2.3	
	MP...17	28.99.0119	6 pcs ROHRNIETEN D 2.5*0.15*9	
	MP...18	42.01.0203	2 pcs DREHKNOPF GR. D 10/4	St
	MP...19	1.912.000.03	2 pcs DREHRING D 6.2/13	St
	MP...20	42.01.0228	15 pcs KNEBELKNOPF GR. D 10/4	St
	MP...21	42.01.0250	8 pcs DECKEL M'GR, D 10	St
	MP...22	42.01.0251	5 pcs DECKEL D'GR, D 10	St
	MP...23	42.01.0253	1 pcs DECKEL RT, D 10	St
	MP...24	42.01.0254	1 pcs DECKEL BL, D 10	St
	MP...25	42.01.0255	1 pcs DECKEL GB, D 10	St
	MP...26	42.01.0256	1 pcs DECKEL GN, D 10	St
	MP...27	1.010.022.21	2 pcs LINSENSCHR. SPEZ M3*8	St
	MP...28	1.010.048.27	3 pcs MUTTERBOLZEN M3*32.5	St
	MP...29	1.022.400.03	2 pcs TRAFO-ISOLATION	St
	MP...30	1.990.100.02	2 pcs QUERPRINTSTUETZE LINKS	St
	MP...31	1.990.100.03	2 pcs QUERPRINTSTUETZE RECHTS	St
	MP...32	1.990.200.03	1 pcs SCHIRMBLECH INPUT	St
	MP...33	1.990.200.05	9 pcs POTI-ACHSVERLAENGERUNG	St
	MP...34	1.990.210.02	1 pcs TRAEGER INPUT	St
	MP...35	1.990.210.05	1 pcs FENSTER INPUT	St
	MP...36	1.990.210.01	1 pcs FRONTSCHILD INPUT	St
	MP...37	1.010.366.64	1 pcs BLANKDRAHT D 0.6 L= 15mm	
	MP...38	. .	not exist	
	MP...39	. .	not exist	
	MP...40	31.01.0101	1 pcs KABELTUELLE D 3/6*0.6	
	MP...41	. .	not exist	
	MP...42	1.990.210.04	0 pcs STUDER-NR._ETIKETTE 10 * 20	
	P.....1	. . 0	not exist	
	P.....2	. . 0	not exist	
	P.....3	. . 0	not exist	
	P.....4	. . 0	not exist	
	P.....5	. . 0	not exist	
	P.....6	54.11.2013	2*16pin EUROCONNECTOR	HT,EC B0
	P.....7	54.11.2004	2*32pin EUROCONNECTOR	HT,EC E0
	P.....8	. . 0	not used	I0
	P.....9	54.11.2004	2*32PIN EUROCONNECTOR	HT,EC M0
	P...501	54.16.0520	20pol 1/40 INCH FLATCABLE CONNECTOR	YA K7
	P...502	54.16.0520	20pol 1/40 INCH FLATCABLE CONNECTOR	YA G2
	P...503	54.16.0520	20pol 1/40 INCH FLATCABLE CONNECTOR	YA E6
	P...504	54.16.0520	20pol 1/40 INCH FLATCABLE CONNECTOR	YA E2
	P...505	54.16.0520	20pol 1/40 INCH FLATCABLE CONNECTOR	YA E5
	P...506	54.16.0520	20pol 1/40 INCH FLATCABLE CONNECTOR	YA E2
	Q.....1	50.03.0516	BC 337 NPN LOW NOISE	SIE N4
	Q.....2	50.03.0350	J 112 N-JFET	NS,MOT,SIX N5
	Q.....3	50.03.0350	J 112 N-JFET	NS,MOT,SIX N5
	Q.....4	50.03.0350	J 112 N-JFET	NS,MOT,SIX N5
	Q.....5	50.03.1130	J 110 N-JFET	NS,MOT,SIX N5
	Q.....6	50.03.1130	J 110 N-JFET	NS,MOT,SIX N5
	Q.....7	50.03.0350	J 112 N-JFET	NS,MOT,SIX N5
	Q.....8	50.03.0485	MPSA92 PNP UCE >100V	MOT N8
	Q.....9	50.03.0485	MPSA92 PNP UCE >100V	MOT N8
	Q....10	50.03.0436	BC 237 NPN IC>100mA, B>100	any K5
	Q....11	50.03.0350	J 112 N-JFET	NS,MOT,SIX H6
	Q....12	50.03.0350	J 112 N-JFET	NS,MOT,SIX I6
	Q....13	50.03.0515	BC 307 PNP IC>100mA, B>100	any H6
	Q....14	50.03.0515	BC 307 PNP IC>100mA, B>100	any I6
	Q....15	50.03.0350	J 112 N-JFET	NS,MOT,SIX H6
	Q....16	50.03.0350	J 112 N-JFET	NS,MOT,SIX H6
	Q....17	50.03.0515	BC 307 PNP IC>100mA, B>100	any H6
	Q....18	50.03.0515	BC 307 PNP IC>100mA, B>100	any G6
	Q....19	50.03.0350	J 112 N-JFET	NS,MOT,SIX G6
	Q....20	50.03.0350	J 112 N-JFET	NS,MOT,SIX G6
	Q....21	50.03.0515	BC 307 PNP IC>100mA, B>100	any G6
	Q....22	50.03.0515	BC 307 PNP IC>100mA, B>100	any G6
	Q....23	50.03.0350	J 112 N-JFET	NS,MOT,SIX E6
	Q....24	50.03.0350	J 112 N-JFET	NS,MOT,SIX F6
	Q....25	50.03.0515	BC 307 PNP IC>100mA, B>100	any F6
	Q....26	50.03.0340	BC 337 NPN IC>800mA	NS,MOT,SIX A0
	Q....27	50.03.0351	BC 327 PNP IC>800mA	NS,MOT,SIX A0
	Q....28	50.03.0351	BC 327 PNP IC>800mA	NS,MOT,SIX A0
	Q....29	. . 0	not exist	
	Q....30	. . 0	not exist	
	Q....31	. . 0	not exist	
	Q....32	. . 0	not exist	
	Q....33	. . 0	not used	H0
	Q....34	. . 0	not used	H0
	Q....35	50.03.0436	BC 237 NPN IC>100mA, B>100	any A9
	Q....36	50.03.0436	BC 237 NPN IC>100mA, B>100	any A8
	Q...501	50.03.0484	MPSA42 NPN UCE >300V	MOT N8
	Q...502	50.03.0436	BC 237 NPN IC>100mA, B>100	any N8
	Q...503	50.03.0515	BC 307 PNP IC>100mA, B>100	any N8
	Q...504	50.03.0515	BC 307 PNP IC>100mA, B>100	any N8
	Q...505	50.03.0515	BC 307 PNP IC>100mA, B>100	any N8
	Q...506	50.03.0436	BC 237 NPN IC>100mA, B>100	any N8
	Q...507	50.03.0515	BC 307 PNP IC>100mA, B>100	any N8
	Q...508	50.03.0515	BC 307 PNP IC>100mA, B>100	any N8
	Q...509	50.03.0436	BC 237 NPN IC>100m B>100	any A7
	R.....1	57.11.3103	10 kOhm 1% 0.25W	N3
	R.....2	57.11.3103	10 kOhm 1% 0.25W	N3
	R.....3	57.11.3152	1.5 kOhm 1% 0.25W	N3
	R.....4	57.11.3152	1.5 kOhm 1% 0.25W	N3
	R.....5	57.11.3332	3.3 kOhm 5% 0.25W	N3
	R.....6	57.11.3103	10 kOhm 1% 0.25W	N4
	R.....7	57.11.3183	18 kOhm 5% 0.25W	N4
	R.....8	57.11.3183	18 kOhm 5% 0.25W	N4
	R.....9	57.11.3183	18 kOhm 5% 0.25W	N4
	R....10	57.11.3183	18 kOhm 5% 0.25W	N4
	R....11	57.11.3330	33 Ohm 5% 0.25W	N4
	R....12	57.11.3223	22 kOhm 5% 0.25W	N4
	R....13	57.11.3103	10 kOhm 5% 0.25W	N4
	R....14	57.11.3332	3.3 kOhm 5% 0.25W	N4
	R....15	57.11.3561	560 Ohm 1% 0.25W	N5
	R....16	57.11.3911	910 Ohm 1% 0.25W	N5
	R....17	57.11.3471	470 Ohm 1% 0.25W	N5
	R....18	57.11.3751	750 Ohm 1% 0.25W	N5
	R....19	57.11.3100	10 Ohm 1% 0.25W	N5
	R....20	57.11.3131	130 Ohm 1% 0.25W	N5
	R....21	57.11.3162	1.6 kOhm 1% 0.25W	N4
	R....22	57.11.3302	3 kOhm 1% 0.25W	N4
	R....23	57.11.3272	2.7 kOhm 1% 0.25W	M5
	R....24	57.11.3913	91 kOhm 1% 0.25W	M5
	R....25	57.11.3113	11 kOhm 1% 0.25W	M4
	R....26	57.11.3914	910 kOhm 1% 0.25W	M5
	R....27	57.11.3243	24 kOhm 1% 0.25W	M4
	R....28	57.11.5125	1.2 MOhm 5% 0.25W	M4
	R....29	57.11.3223	22 kOhm 5% 0.25W	N5
	R....30	57.11.3223	22 kOhm 5% 0.25W	M4
	R....31	57.11.3330	33 Ohm 5% 0.25W	M4
	R....32	. . 0	not exist	
	R....33	. . 0	not exist	
	R....34	. . 0	not exist	
	R....35	. . 0	not exist	
	R....36	57.11.3000	0 Ohm 0.25W	N9
	R....37	57.11.3394	390 kOhm 5% 0.25W	N9
	R....38	57.11.3394	390 kOhm 5% 0.25W	N9
	R....39	57.11.3104	100 kOhm 1% 0.25W	N3
	R....40	57.11.3104	100 kOhm 1% 0.25W	N3
	R....41	57.11.3332	3.3 kOhm 1% 0.25W	N3
	R....42	57.11.3332	3.3 kOhm 1% 0.25W	N3
	R....43	57.11.3222	2.2 kOhm 1% 0.25W	N3
	R....44	57.11.3222	2.2 kOhm 1% 0.25W	N3
	R....45	57.11.3272	2.7 kOhm 5% 0.25W	M2
	R....46	57.11.3242	2.4 kOhm 5% 0.25W	N3
	R....47	58.01.8501	500 Ohm 10% 0.25W TRIMMER	N3
	R....48	57.11.3223	22 kOhm 5% 0.25W	N3
	R....49	57.11.3332	3.3 kOhm 1% 0.25W	N2
	R....50	57.11.3332	3.3 kOhm 1% 0.25W	N2
	R....51	57.11.3272	2.7 kOhm 1% 0.25W	N2
	R....52	57.11.3272	2.7 kOhm 1% 0.25W	N2
	R....53	57.11.3102	1 kOhm 5% 0.25W	N2
	R....54	57.11.3102	1 kOhm 5% 0.25W	N2
	R....55	57.11.3392	3.9 kOhm 5% 0.25W	N2
	R....56	57.11.3223	22 kOhm 5% 0.25W	N2
	R....57	57.11.3104	100 kOhm 1% 0.25W	N0
	R....58	57.11.3104	100 kOhm 1% 0.25W	N0
	R....59	57.11.3332	3.3 kOhm 1% 0.25W	N0
	R....60	57.11.3332	3.3 kOhm 1% 0.25W	N0
	R....61	57.11.3222	2.2 kOhm 1% 0.25W	N0
	R....62	57.11.3222	2.2 kOhm 1% 0.25W	N1
	R....63	57.11.3272	2.7 kOhm 5% 0.25W	N1
	R....64	57.11.3242	2.4 kOhm 5% 0.25W	N1
	R....65	58.01.8501	500 Ohm 10% 0.25W TRIMMER	N1
	R....66	57.11.3223	22 kOhm 5% 0.25W	N1
	R....67	57.11.3104	100 kOhm 1% 0.25W	M0
	R....68	57.11.3104	100 kOhm 1% 0.25W	M0
	R....69	57.11.3332	3.3 kOhm 1% 0.25W	M0
	R....70	57.11.3332	3.3 kOhm 1% 0.25W	M0
	R....71	57.11.3222	2.2 kOhm 1% 0.25W	M1
	R....72	57.11.3222	2.2 kOhm 1% 0.25W	M1
	R....73	57.11.3272	2.7 kOhm 5% 0.25W	M1
	R....74	57.11.3242	2.4 kOhm 5% 0.25W	M1
	R....75	58.01.8501	500 Ohm 10% 0.25W TRIMMER	M1
	R....76	57.11.3223	22 kOhm 5% 0.25W	M1
	R....77	. . 0	not exist	
	R....78	. . 0	not exist	
	R....79	. . 0	not exist	
	R....80	57.11.3330	33 Ohm 5% 0.25W	L2
	R....81	57.11.3223	22 kOhm 5% 0.25W	L2
	R....82	57.11.3822	8.2 kOhm 1% 0.25W	L2
	R....83	57.11.3473	47 kOhm 1% 0.25W	L2
	R....84	57.11.3101	100 Ohm 1% 0.25W	L2
	R....85	57.11.3101	100 Ohm 1% 0.25W	L2
	R....86	. . 0	not used USED AS JUMPER; SEE OPTION 2	L3
	R....87	. . 0	not used USED AS JUMPER; SEE OPTION 2	L3
	R....88	57.11.3682	6.8 kOhm 1% 0.25W	L4
	R....89	57.11.3682	6.8 kOhm 1% 0.25W	L3
	R....90	57.11.3682	6.8 kOhm 1% 0.25W	M3
	R....91	57.11.3682	6.8 kOhm 1% 0.25W SEE OPTION 1	M4
	R....92	57.11.3163	16 kOhm 1% 0.25W SEE SOFTWARE OPTION A	M2
	R....93	57.11.3682	6.8 kOhm 1% 0.25W	L3
	R....94	57.11.3682	6.8 kOhm 1% 0.25W	M2
	R....95	57.11.3682	6.8 kOhm 1% 0.25W	M3
	R....96	58.05.1103	10 kOhm 10% 0.5 W Mehrgangtrimmer	L3
	R....97	57.11.3473	47 kOhm 1% 0.25W	L3
	R....98	. . 0	not exist	
	R....99	. . 0	not exist	
	R...100	. . 0	not exist	
	R...101	57.11.3822	8.2 kOhm 1% 0.25W	M4
	R...102	57.11.3223	22 kOhm 5% 0.25W	M5
	R...103	57.11.3473	47 kOhm 1% 0.25W	M4
	R...104	57.11.3824	820 kOhm 1% 0.25W	L4
	R...105	57.11.3824	820 kOhm 1% 0.25W	L5
	R...106	57.11.3512	5.1 kOhm 1% 0.25W	L5
	R...107	57.11.3105	1 MOhm 1% 0.25W	L5
	R...108	57.11.3564	560 kOhm 1% 0.25W	L5
	R...109	57.11.3102	1 kOhm 5% 0.25W	L4
	R...110	. . 0	not exist	
	R...111	58.05.1103	10 kOhm 10% 0.5 W Mehrgangtrimmer	I5
	R...112	57.11.3823	82 kOhm 1% 0.25W	I4
	R...113	57.11.3223	22 kOhm 5% 0.25W	K5
	R...114	57.11.3224	220 kOhm 5% 0.25W	K5
	R...115	57.11.3223	22 kOhm 5% 0.25W	K5
	R...116	57.11.3752	7.5 kOhm 1% 0.25W	K6
	R...117	57.11.3823	82 kOhm 1% 0.25W	K4
	R...118	57.11.3392	3.9 kOhm 5% 0.25W	K7
	R...119	57.11.3162	1.6 kOhm 1% 0.25W	K6
	R...120	. .	22 kOhm 10% -log.-> R123 1.010.028.58 ON A14	St I6
	R...121	57.11.3104	100 kOhm 5% 0.25W	K6
	R...122	57.11.3162	1.6 kOhm 1% 0.25W	K6
	R...123	. .	22 kOhm 10% -log. COMB. WITH R120/R557	I6
	R...124	57.11.3104	100 kOhm 5% 0.25W	K7
	R...125	57.11.3392	3.9 kOhm 1% 0.25W	K6
	R...126	57.11.3682	6.8 kOhm 1% 0.25W	K7
	R...127	57.11.3682	6.8 kOhm 1% 0.25W	K6
	R...128	57.11.3223	22 kOhm 5% 0.25W	K7
	R...129	. . 0	not exist	
	R...130	. . 0	not exist	
	R...131	57.11.3104	100 kOhm 5% 0.25W	H3
	R...132	58.01.8202	2 kOhm 20% TRIMMER	H3
	R...133	57.11.3562	5.6 kOhm 0.25W	I3
	R...134	57.99.0250	6.8 kOhm 0.1% 0.25W	H3
	R...135	57.99.0250	6.8 kOhm 0.1% 0.25W	H3
	R...136	57.11.3150	15 Ohm 1% 0.25W	I3
	R...137	57.11.3150	15 Ohm 1% 0.25W	I3
	R...138	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	I4
	R...139	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	H4
	R...140	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	H4
	R...141	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	G4
	R...142	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	G4
	R...143	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	G4
	R...144	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	G4
	R...145	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	I4
	R...146	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	I4
	R...147	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	I4
	R...148	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	I4
	R...149	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	I4
	R...150	57.11.5106	10 MOhm 5% 0.25W	K6
	R...151	57.11.5106	10 MOhm 5% 0.25W	I4
	R...152	57.11.3104	100 kOhm 5% 0.25W	K6
	R...153	. . 0	not exist	
	R...154	. . 0	not exist	
	R...155	. . 0	not exist	
	R...156	57.11.3104	100 kOhm 5% 0.25W	I3
	R...157	58.01.8202	2 kOhm 20% TRIMMER	K3
	R...158	57.11.3562	5.6 kOhm 0.25W	K4
	R...159	57.99.0250	6.8 kOhm 0.1% 0.25W	K4
	R...160	57.99.0250	6.8 kOhm 0.1% 0.25W	I3
	R...161	57.11.3150	15 Ohm 1% 0.25W	K3
	R...162	57.11.3150	15 Ohm 1% 0.25W	K3
	R...163	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	H4
	R...164	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	G4
	R...165	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	G4
	R...166	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	G4
	R...167	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	G4
	R...168	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	H4
	R...169	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	H4
	R...170	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	H4
	R...171	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	H4
	R...172	57.11.3682	6.8 kOhm 1% 0.25W (gesickt)	H4
	R...173	. . 0	not exist	
	R...174	. . 0	not exist	
	R...175	. . 0	not exist	
	R...176	. . 0	not exist	
	R...177	. . 0	not exist	
	R...178	. . 0	not exist	
	R...179	. . 0	not exist	
	R...180	. . 0	not exist	
	R...181	57.11.3104	100 kOhm 5% 0.25W	G3
	R...182	58.01.8502	5 kOhm 20% TRIMMER	F3
	R...183	57.11.3562	5.6 kOhm 0.25W	G3
	R...184	57.11.3121	120 Ohm 1% 0.25W	H6
	R...185	1.010.108.58	4.7 kOhm 10% lin COMB. WITH R559	St H7
	R...186	57.11.3121	120 Ohm 1% 0.25W	H6
	R...187	57.11.3102	1 kOhm 1% 0.25W	H6
	R...188	57.11.3103	10 kOhm 1% 0.25W	H5
	R...189	57.11.3103	10 kOhm 1% 0.25W	H5
	R...190	57.11.3684	680 kOhm 5% 0.25W	H5
	R...191	57.11.3103	10 kOhm 1% 0.25W	H6
	R...192	57.11.3684	680 kOhm 5% 0.25W	I5
	R...193	57.11.3684	680 kOhm 5% 0.25W	I5
	R...194	57.11.3392	3.9 kOhm 1% 0.25W	I5
	R...195	. .	100 kOhm 10% -log. -> R196 1.010.031.58 ON A8	St H6
	R...196	. .	100 kOhm 10% -log. COMB. WITH R195/R556	H5
	R...197	57.11.3392	3.9 kOhm 1% 0.25W	I5
	R...198	57.11.3102	1 kOhm 5% 0.25W	H7
	R...199	57.11.5106	10 MOhm 10% 0.25W	H7
	R...200	57.11.3684	680 kOhm 5% 0.25W	I7
	R...201	57.11.3333	33 kOhm 5% 0.25W	H7
	R...202	57.11.3104	100 kOhm 5% 0.25W	H6
	R...203	57.11.5106	10 MOhm 10% 0.25W	H6
	R...204	. . 0	not exist	
	R...205	. . 0	not exist	
	R...206	1.010.108.58	4.7 kOhm 10% lin COMB. WITH R551	St G7
	R...207	57.11.3103	10 kOhm 1% 0.25W	G5
	R...208	57.11.3103	10 kOhm 1% 0.25W	G5
	R...209	57.11.3684	680 kOhm 5% 0.25W	G5
	R...210	57.11.3105	1 MOhm 5% 0.25W	H6
	R...211	57.11.3472	4.7 kOhm 1% 0.25W	H6
	R...212	. .	100 kOhm 10% -log. -> R213 1.010.031.58 ON A9	St H6
	R...213	. .	100 kOhm 10% -log. COMB. WITH R212/R560	H5
	R...214	57.11.3472	4.7 kOhm 1% 0.25W	H6
	R...215	57.11.3105	1 MOhm 5% 0.25W	H5
	R...216	57.11.3222	2.2 kOhm 5% 0.25W	G5
	R...217	57.11.3362	3.6 kOhm 1% 0.25W	H6
	R...218	57.11.3202	2 kOhm 1% 0.25W	H6
	R...219	57.11.3183	18 kOhm 1% 0.25W	G6
	R...220	57.11.3752	7.5 kOhm 1% 0.25W	G6
	R...221	57.11.3102	1 kOhm 5% 0.25W	H6
	R...222	57.11.5106	10 MOhm 10% 0.25W	H6
	R...223	57.11.3684	680 kOhm 5% 0.25W	G6
	R...224	57.11.3333	33 kOhm 5% 0.25W	H6
	R...225	57.11.5106	10 MOhm 10% 0.25W	H6
	R...226	57.11.3104	100 kOhm 5% 0.25W	G6
	R...227	1.010.108.58	4.7 kOhm 10% lin COMB. WITH R552	St F7
	R...228	57.11.3103	10 kOhm 1% 0.25W	F5
	R...229	57.11.3103	10 kOhm 1% 0.25W	G5
	R...230	57.11.3684	680 kOhm 5% 0.25W	G5
	R...231	57.11.3105	1 MOhm 5% 0.25W	G6
	R...232	57.11.3512	5.1 kOhm 1% 0.25W	G6
	R...233	. .	100 kOhm 10% -log.-> R234 1.010.031.58 ON A10	St G6
	R...234	. .	100 kOhm 10% -log. COMB. WITH R233/R553	G5
	R...235	57.11.3472	4.7 kOhm 1% 0.25W	G6
	R...236	57.11.3105	1 MOhm 5% 0.25W	G5
	R...237	57.11.3222	2.2 kOhm 5% 0.25W	G5
	R...238	57.11.3362	3.6 kOhm 1% 0.25W	G6
	R...239	57.11.3202	2 kOhm 1% 0.25W	G6
	R...240	57.11.3183	18 kOhm 1% 0.25W	G6
	R...241	57.11.3752	7.5 kOhm 1% 0.25W	G6
	R...242	57.11.3102	1 kOhm 5% 0.25W	G6
	R...243	57.11.5106	10 MOhm 10% 0.25W	G6
	R...244	57.11.3684	680 kOhm 5% 0.25W	G6
	R...245	57.11.3333	33 kOhm 5% 0.25W	G6
	R...246	57.11.5106	10 MOhm 10% 0.25W	G6
	R...247	57.11.3104	100 kOhm 5% 0.25W	F6
	R...248	. . 0	not exist	
	R...249	. . 0	not exist	
	R...250	. . 0	not exist	
	R...251	57.11.3121	120 Ohm 1% 0.25W	F7
	R...252	1.010.108.58	4.7 kOhm 10% lin COMB. WITH R550	St E7
	R...253	57.11.3121	120 Ohm 1% 0.25W	E6
	R...254	57.11.3102	1 kOhm 1% 0.25W	E6
	R...255	57.11.3223	22 kOhm 5% 0.25W	F5
	R...256	57.11.3103	10 kOhm 1% 0.25W	E5
	R...257	57.11.3103	10 kOhm 1% 0.25W	E5
	R...258	57.11.3684	680 kOhm 5% 0.25W	F5
	R...259	57.11.3682	6.8 kOhm 1% 0.25W	F3
	R...260	57.11.3682	6.8 kOhm 1% 0.25W	F3
	R...261	57.11.3682	6.8 kOhm 1% 0.25W	F5
	R...262	57.11.3684	680 kOhm 5% 0.25W	F5
	R...263	57.11.3223	22 kOhm 5% 0.25W	F5
	R...264	57.11.3684	680 kOhm 5% 0.25W	F5
	R...265	57.11.3472	4.7 kOhm 1% 0.25W	F5
	R...266	. .	100 kOhm 10% -log.-> R267 1.010.031.58 ON A11	St F6
	R...267	. .	100 kOhm 10% -log. COMB. WITH R266/R553	F5
	R...268	57.11.3472	4.7 kOhm 1% 0.25W	F5
	R...269	57.11.3102	1 kOhm 5% 0.25W	F6
	R...270	57.11.5106	10 MOhm 10% 0.25W	F6
	R...271	57.11.3104	100 kOhm 5% 0.25W	F6
	R...272	57.11.5106	10 MOhm 10% 0.25W	F6
	R...273	. . 0	not exist	
	R...274	. . 0	not exist	
	R...275	. . 0	not exist	
	R...276	57.11.3152	1.5 kOhm 1% 0.25W	K1
	R...277	57.11.3152	1.5 kOhm 1% 0.25W	K1
	R...278	57.11.3392	3.9 kOhm 1% 0.25W	K1
	R...279	57.11.3392	3.9 kOhm 1% 0.25W	K1
	R...280	57.11.3272	2.7 kOhm 1% 0.25W	K1
	R...281	57.11.3272	2.7 kOhm 1% 0.25W	K1
	R...282	57.11.3223	22 kOhm 5% 0.25W	K1
	R...283	57.11.3152	1.5 kOhm 1% 0.25W	I1
	R...284	57.11.3152	1.5 kOhm 1% 0.25W	I1
	R...285	57.11.3392	3.9 kOhm 1% 0.25W	I1
	R...286	57.11.3392	3.9 kOhm 1% 0.25W	I1
	R...287	57.11.3272	2.7 kOhm 1% 0.25W	I1
	R...288	57.11.3272	2.7 kOhm 1% 0.25W	I1
	R...289	57.11.3223	22 kOhm 5% 0.25W	I1
	R...290	. . 0	not exist	
	R...291	57.11.3104	100 kOhm 5% 0.25W	G3
	R...292	57.11.3752	7.5 kOhm 1% 0.25W	G3
	R...293	57.11.3823	82 kOhm 1% 0.25W	G3
	R...294	57.11.3223	22 kOhm 5% 0.25W	G3
	R...295	57.11.3332	3.3 kOhm 1% 0.25W	G3
	R...296	57.11.3332	3.3 kOhm 1% 0.25W	G3
	R...297	57.11.3330	33 Ohm 5% 0.25W	G3
	R...298	57.11.3223	22 kOhm 1% 0.25W	G3
	R...299	57.11.3104	100 kOhm 5% 0.25W	H3
	R...300	57.11.3752	7.5 kOhm 1% 0.25W	H3
	R...301	57.11.3823	82 kOhm 1% 0.25W	H3
	R...302	57.11.3223	22 kOhm 5% 0.25W	H3
	R...303	57.11.3332	3.3 kOhm 1% 0.25W	H3
	R...304	57.11.3332	3.3 kOhm 1% 0.25W	H3
	R...305	57.11.3330	33 Ohm 5% 0.25W	H3
	R...306	57.11.3223	22 kOhm 1% 0.25W	H3
	R...307	57.11.3332	3.3 kOhm 1% 0.25W	F4
	R...308	57.11.3223	22 kOhm 5% 0.25W	F4
	R...309	57.11.3333	33 kOhm 1% 0.25W	E4
	R...310	57.11.3103	10 kOhm 1% 0.25W	E4
	R...311	57.11.3472	4.7 kOhm 1% 0.25W	E4
	R...312	57.11.3684	680 kOhm 5% 0.25W	F4
	R...313	57.11.3823	82 kOhm 1% 0.25W	E4
	R...314	58.05.1104	100 kOhm 10% 0.5 W Mehrgangtrimmer	D4
	R...315	57.11.3332	3.3 kOhm 1% 0.25W	D4
	R...316	57.11.3223	22 kOhm 1% 0.25W	D4
	R...317	57.11.3332	3.3 kOhm 1% 0.25W	F3
	R...318	57.11.3223	22 kOhm 5% 0.25W	F3
	R...319	57.11.3333	33 kOhm 1% 0.25W	E3
	R...320	57.11.3103	10 kOhm 1% 0.25W	E3
	R...321	57.11.3472	4.7 kOhm 1% 0.25W	E3
	R...322	57.11.3684	680 kOhm 5% 0.25W	F3
	R...323	57.11.3823	82 kOhm 1% 0.25W	E3
	R...324	58.05.1104	100 kOhm 10% 0.5 W Mehrgangtrimmer	D3
	R...325	57.11.3332	3.3 kOhm 1% 0.25W	D3
	R...326	57.11.3223	22 kOhm 1% 0.25W	D3
	R...327	. . 0	not exist	
	R...328	. . 0	not exist	
	R...329	. . 0	not exist	
	R...330	. . 0	not exist	
	R...331	1.010.106.58	10 kOhm 10% POS.LOG. COMB. WITH R546	St E7
	R...332	57.11.3752	7.5 kOhm 1% 0.25W	D6
	R...333	57.11.3823	82 kOhm 1% 0.25W	D6
	R...334	1.010.106.58	10 kOhm 10% POS.LOG. COMB. WITH R549	St D7
	R...335	57.11.3752	7.5 kOhm 1% 0.25W	D6
	R...336	57.11.3823	82 kOhm 1% 0.25W	D6
	R...337	1.010.106.58	10 kOhm 10% POS.LOG. COMB. WITH R547	St C7
	R...338	57.11.3752	7.5 kOhm 1% 0.25W	C6
	R...339	57.11.3823	82 kOhm 1% 0.25W	C6
	R...340	1.010.106.58	10 kOhm 10% POS.LOG. COMB. WITH R548	St C7
	R...341	57.11.3752	7.5 kOhm 1% 0.25W	D6
	R...342	57.11.3823	82 kOhm 1% 0.25W	C6
	R...343	. .	10 kOhm 10% +log.-> R345 1.010.034.58 ON A12	St B6
	R...344	. .	4.7 kOhm 10% +log. SEE R345	B6
	R...345	. .	10 kOhm 10% -log. COMB. WITH R343/344/543/545	B6
	R...346	57.11.3752	7.5 kOhm 1% 0.25W	B6
	R...347	57.11.3823	82 kOhm 1% 0.25W	B6
	R...348	. .	10 kOhm 10% +log.-> R350 1.010.034.58 ON A13	St A6
	R...349	. .	4.7 kOhm 10% +log. SEE R350	A6
	R...350	. .	10 kOhm 10% -log. COMB. WITH R348/349/542/544	A6
	R...351	57.11.3752	7.5 kOhm 1% 0.25W	C6
	R...352	57.11.3823	82 kOhm 1% 0.25W	C6
	R...353	57.11.3330	33 Ohm 5% 0.25W	X0

INPUT UNIT MONO

1.990.210.81

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
R...354	57.11.3330	33 Ohm	5% 0.25W	K0
R...355	57.11.3682	6.8 kOhm	1% 0.25W	D4
R...356	57.11.3682	6.8 kOhm	1% 0.25W	D4
R...357	57.11.3682	6.8 kOhm	1% 0.25W	C4
R...358	. . 0	not used		
R...359	. . 0	not exist		
R...360	57.11.3104	100 kOhm	1% 0.25W	N6
R...361	57.11.3752	7.5 kOhm	1% 0.25W	C3
R...362	57.11.3823	82 kOhm	1% 0.25W	C3
R...363	57.11.3223	22 kOhm	5% 0.25W	C3
R...364	57.11.3752	7.5 kOhm	1% 0.25W	B3
R...365	57.11.3823	82 kOhm	1% 0.25W	B3
R...366	57.11.3223	22 kOhm	5% 0.25W	B3
R...367	57.11.3752	7.5 kOhm	1% 0.25W	B3
R...368	57.11.3823	82 kOhm	1% 0.25W	B3
R...369	57.11.3223	22 kOhm	5% 0.25W	B3
R...370	57.11.3752	7.5 kOhm	1% 0.25W	B3
R...371	57.11.3823	82 kOhm	1% 0.25W	B3
R...372	. . 0	not exist		
R...373	57.11.3332	3.3 kOhm	1% 0.25W	N5
R...374	57.11.3332	3.3 kOhm	1% 0.25W	N5
R...375	57.11.3332	3.3 kOhm	1% 0.25W	N5
R...376	57.11.3332	3.3 kOhm	1% 0.25W	N5
R...377	57.11.3392	3.9 kOhm	1% 0.25W	N5
R...378	57.11.3103	10 kOhm	1% 0.25W	N6
R...379		10 kOhm	10% lin. -> R555 1.010.026.58 ON A15 St	N6
R...380	57.11.3682	6.8 kOhm	1% 0.25W	N6
R...381	57.11.3682	6.8 kOhm	1% 0.25W	N6
R...382	57.11.3513	51 kOhm	1% 0.25W	N5
R...383	57.11.3513	51 kOhm	1% 0.25W	N5
R...384	57.11.3513	51 kOhm	1% 0.25W	N5
R...385	57.11.3513	51 kOhm	1% 0.25W	N5
R...386	57.11.3513	51 kOhm	1% 0.25W	N5
R...387	57.11.3513	51 kOhm	1% 0.25W	N5
R...388	57.11.3363	36 kOhm	1% 0.25W	N5
R...389	57.11.3363	36 kOhm	1% 0.25W	N5
R...390	57.11.3104	100 kOhm	1% 0.25W	L6
R...391	57.11.3104	100 kOhm	1% 0.25W	N6
R...392	57.11.3682	6.8 kOhm	1% 0.25W	N1
R...393	57.11.3682	6.8 kOhm	1% 0.25W	N1
R...394	57.11.3330	33 Ohm	5% 0.25W	I1
R...395	57.11.3330	33 Ohm	5% 0.25W	H1
R...396	. . 0	not exist		
R...397	57.11.3682	6.8 kOhm	1% 0.25W	N6
R...398	. . 0	not exist		
R...399	57.92.7013	0.75 Ohm	I HOLD = 0.5A R-PTC	C0
R...400	57.11.3102	1 kOhm	5% 0.25W	C0
R...401	57.92.7013	0.75 Ohm	I HOLD = 0.5A R-PTC	C0
R...402	57.92.7013	0.75 Ohm	I HOLD = 0.5A R-PTC	B0
R...403	57.92.7013	0.75 Ohm	I HOLD = 0.5A R-PTC	C1
R...404	57.11.3222	2.2 kOhm	5% 0.25W	A0
R...405	57.11.3272	2.7 kOhm	5% 0.25W	A0
R...406	57.11.3104	100 kOhm	5% 0.25W	A0
R...407	0	not exist		
R...408	57.11.3681	680 Ohm	5% 0.25W	A0
R...409	57.11.3104	100 kOhm	5% 0.25W	A0
R...410	57.11.3104	100 kOhm	5% 0.25W	A0
R...411	57.11.3202	2 kOhm	5% 0.25W	A0
R...412	57.11.3222	2.2 kOhm	5% 0.25W	A0
R...413	57.11.3101	100 Ohm	5% 0.25W	B1
R...414	57.11.3101	100 Ohm	5% 0.25W	B1
R...415	57.11.3101	100 Ohm	5% 0.25W	B1
R...416	57.11.3150	15 Ohm	1% 0.25W	B1
R...417	57.11.3150	15 Ohm	1% 0.25W	A1
R...418	57.11.3150	15 Ohm	1% 0.25W	B1
R...419	57.11.3150	15 Ohm	1% 0.25W	B1
R...420	57.11.3330	33 Ohm	5% 0.25W	C1
R...421	. . 0	not exist		
R...422	0	not exist		
R...423	57.11.3151	150 Ohm	5% 0.25W	B1
R...424	. . 0	not exist		
R...425	. . 0	not exist		
R...426	58.01.8502	5 kOhm	10% 0.25W TRIMMER	L6
R...427	57.11.3562	5.6 kOhm	1% 0.25W	L6
R...428	57.99.0250	6.8 kOhm	0.1% 0.25W	M1
R...429	57.99.0250	6.8 kOhm	0.1% 0.25W	M2
R...430	57.11.3150	15 Ohm	1% 0.25W	M1
R...431	57.11.3150	15 Ohm	1% 0.25W	L1
R...432	57.11.3151	150 Ohm	5% 0.25W	B2
R...433	57.11.3399	3.9 Ohm	5% 0.25W	B2
R...434	57.11.3399	3.9 Ohm	5% 0.25W	B2
R...435	57.11.3151	150 Ohm	5% 0.25W	B2
R...436	57.11.3109	1 Ohm	5% 0.25W	A1
R...437	57.11.3109	1 Ohm	5% 0.25W	A1
R...438	57.11.3109	1 Ohm	5% 0.25W	A1
R...439	. . 0	not exist		
R...440	. . 0	not exist		
R...441	. . 0	not exist		
R...442	. . 0	not exist		
R...443	. . 0	not exist		
R...444	. . 0	not exist		
R...445	. . 0	not exist		
R...446	. . 0	not exist		
R...447	. . 0	not exist		
R...448	. . 0	not exist		
R...449	57.11.3224	220 kOhm	5% 0.25W	N6
R...450	1.010.101.58	10 kOhm	10% lin. COMB. WITH R554	St N7
R...451	57.11.3822	8.2 kOhm	1% 0.25W	N7
R...452	57.11.3752	7.5 kOhm	1% 0.25W	N7
R...453	58.01.8503	50 kOhm	10% 0.25W TRIMMER	N7
R...454	57.99.0250	6.8 kOhm	0.1% 0.25W	L2
R...455	57.99.0250	6.8 kOhm	0.1% 0.25W	L1
R...456	57.11.3150	15 Ohm	1% 0.25W	L1
R...457	57.11.3150	15 Ohm	1% 0.25W	K1
R...458	. . 0	not exist		
R...459	. . 0	not exist		
R...460	. . 0	not exist		
R...461	. . 0	not exist		
R...462	. . 0	not exist		
R...463	. . 0	not exist		
R...464	. . 0	not exist		
R...465	. . 0	not exist		
R...466	. . 0	not exist		
R...467	. . 0	not exist		
R...468	. . 0	not exist		
R...469	. . 0	not exist		
R...470	. . 0	not exist		
R...471	. . 0	not exist		
R...472	. . 0	not exist		
R...473	. . 0	not exist		
R...474	57.11.3150	15 Ohm	1% 0.25W	K0
R...475	57.11.3150	15 Ohm	1% 0.25W	K0
R...476	57.11.3150	15 Ohm	1% 0.25W	K0
R...477	57.11.3150	15 Ohm	1% 0.25W	K0
R...478	57.99.0250	6.8 kOhm	0.1% 0.25W	N1
R...479	57.99.0250	6.8 kOhm	0.1% 0.25W	G1
R...480	. . 0	not exist		
R...481	. . 0	not exist		
R...482	57.11.3102	1 kOhm	5% 0.25W	B1
R...483	57.11.5106	10 MOhm	10% 0.25W	B1
R...484	57.11.6226	22 MOhm	10% 0.25W	A1
R...485	57.11.3562	5.6 kOhm	1% 0.25W	A2
R...486	57.11.3333	33 kOhm	5% 0.25W	A2
R...487	57.11.3432	4.3 kOhm	1% 0.25W	A2
R...488	57.11.3333	33 kOhm	5% 0.25W	B2
R...489	57.11.3512	5.1 kOhm	1% 0.25W	A1
R...490	57.11.3105	1 MOhm	5% 0.25W	A2
R...491	57.11.3105	1 MOhm	5% 0.25W	B2
R...492	57.11.3104	100 kOhm	5% 0.25W	A7
R...493	57.11.3104	100 kOhm	5% 0.25W	A7
R...501	57.11.3104	100 kOhm	5% 0.25W	N9
R...502	57.11.3104	100 kOhm	5% 0.25W	N9
R...503	57.11.3101	100 Ohm	5% 0.25W	A3
R...504	57.11.3392	3.9 kOhm	5% 0.25W	N9
R...505	57.11.3223	22 kOhm	5% 0.25W	N9
R...506	57.11.3103	10 kOhm	5% 0.25W	N7
R...507	. . 0	not exist		
R...508	. . 0	not exist		
R...509	. . 0	not exist		
R...510	. . 0	not exist		
R...511	57.11.3103	10 kOhm	5% 0.25W	N9
R...512	57.11.3104	100 kOhm	5% 0.25W	N8
R...513	57.11.3105	1 MOhm	5% 0.25W	N8
R...514	57.11.5335	3.3 MOhm	5% 0.25W	N8
R...515	57.11.3105	1 MOhm	5% 0.25W	N7
R...516	57.11.3104	100 kOhm	5% 0.25W	N7
R...517	57.11.3104	100 kOhm	5% 0.25W	N7
R...518	57.11.3105	1 MOhm	5% 0.25W	N7
R...519	57.11.3104	100 kOhm	5% 0.25W	N8
R...520	57.11.3103	10 kOhm	5% 0.25W	N8
R...521	57.11.3105	1 MOhm	5% 0.25W	N7
R...522	57.11.3104	100 kOhm	5% 0.25W	N8
R...523	57.11.5335	3.3 MOhm	5% 0.25W	N7
R...524	57.11.3104	100 kOhm	5% 0.25W	N7
R...525	57.11.3103	10 kOhm	5% 0.25W	N8
R...526	57.11.5335	3.3 MOhm	5% 0.25W	N7
R...527	57.11.3104	100 kOhm	5% 0.25W	N7
R...528	57.11.3103	10 kOhm	5% 0.25W	N8
R...529	57.11.3223	22 kOhm	5% 0.25W	N9
R...530	57.11.3102	1 kOhm	5% 0.25W	N9
R...531	57.11.3562	5.6 kOhm	5% 0.25W	N9
R...532	57.11.3822	8.2 kOhm	5% 0.25W	N9
R...533	57.11.3102	1 kOhm	5% 0.25W	A9
R...534	57.11.3103	10 kOhm	5% 0.25W	L5
R...535	. . 0	not exist		
R...536	57.11.3104	100 kOhm	5% 0.25W	A7
R...537	57.11.3334	330 kOhm	5% 0.25W	A8
R...538	57.11.3334	330 kOhm	5% 0.25W	A8
R...539	57.11.3223	22 kOhm	5% 0.25W	A8
R...540	57.11.3330	33 Ohm	5% 0.25W	A9
R...541	57.11.5106	10 MOhm	10% 0.25W	G9
R...542	. .	100 kOhm	20% lin. SEE R348	A7
R...543	. .	100 kOhm	20% lin. SEE R343	B6
R...544	. .	100 kOhm	20% lin. SEE R348	A6
R...545	. .	100 kOhm	20% lin. SEE R343	B7
R...546	. .	100 kOhm	20% lin. COMB. WITH R331	St E7
R...547	. .	100 kOhm	20% lin. COMB. WITH R340	St C7
R...548	. .	100 kOhm	20% lin. COMB. WITH R337	St C7
R...549	. .	100 kOhm	20% lin. COMB. WITH R334	St D7
R...550	. .	100 kOhm	20% lin. COMB. WITH R252	St E7
R...551	. .	100 kOhm	20% lin. COMB. WITH R206	St G7
R...552	. .	100 kOhm	20% lin. COMB. WITH R227	St F7
R...553	. .	100 kOhm	20% lin. COMB. WITH R233/R234	St G6
R...554	. .	100 kOhm	20% lin. COMB. WITH R460	St M7
R...555	. .	100 kOhm	20% lin. COMB. WITH R379	St N6
R...556	. .	100 kOhm	20% lin. COMB. WITH R195/R196	St N6
R...557	. .	100 kOhm	20% lin. COMB. WITH R120/R123	St I7
R...558	. .	100 kOhm	20% lin. COMB. WITH R266/R267	St F6
R...559	. .	100 kOhm	20% lin. COMB. WITH R185	St H7
R...560	. .	100 kOhm	20% lin. COMB. WITH R212/R213	St H6
R...561	. . 0	not exist		
R...562	. . 0	not exist		
R...563	. . 0	not exist		
R...564	. . 0	not exist		
R...565	57.11.3101	100 Ohm	5% 0.25W	A3
RZ....1	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	L3
RZ....2	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	K6
RZ....3	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	K6
RZ....4	57.88.2220	22 Ohm	2% SIP 8 (4*)	L3
RZ....5	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	I3
RZ....6	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	I2
RZ....7	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	I3
RZ....8	57.88.2224	220 kOhm	2% SIP 8 (4*)	I2
RZ....9	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	K3
RZ...10	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	K2
RZ...11	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	K3
RZ...12	57.88.2224	220 kOhm	2% SIP 8 (4*)	K2
RZ...13	. . 0	not exist		
RZ...14	. . 0	not exist		
RZ...15	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	D2
RZ...16	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	D2
RZ...17	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	C2
RZ...18	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	C2
RZ...19	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	C5
RZ...20	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	D4
RZ...21	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	C4
RZ...22	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	B4
RZ...23	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	C5
RZ...24	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	B5
RZ...25	. . 0	not exist		
RZ...26	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	B4
RZ...27	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	B4
RZ...28	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	M1
RZ...29	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	M1
RZ...30	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	E1
RZ...31	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	E1
RZ...32	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	E1
RZ...33	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	E1
RZ...34	. . 0	not exist		
RZ...35	. . 0	not exist		
RZ...36	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	H1
RZ...37	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	H0
RZ...38	57.88.2101	100 Ohm	2% SIP 8 (4*)	H0
RZ...39	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	G1
RZ...40	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	G1
RZ...41	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	G2
RZ...42	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	G2
RZ...43	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	F3
RZ...44	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	F3
RZ...45	. . 0	not exist		
RZ...46	. . 0	not exist		
RZ...47	57.88.2224	220 kOhm	2% SIP 8 (4*)	M1
RZ...48	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	M1
RZ...49	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	M1
RZ...50	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	M1
RZ...51	57.88.2224	220 kOhm	2% SIP 8 (4*)	L1
RZ...52	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	L1
RZ...53	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	L1
RZ...54	57.88.2682	6.8 kOhm	2% SIP 8 (4*)	L1
RZ..501	57.88.2101	100 Ohm	SIP 8 (4*)	A3
RZ..502	57.88.2101	100 Ohm	SIP 8 (4*)	A3
RZ..503	57.88.4104	100 kOhm	SIP 9 (8*)	L8
RZ..504	57.88.4104	100 kOhm	SIP 8 (4*)	L8
RZ..505	57.88.2104	100 kOhm	SIP 8 (4*)	L8
RZ..506	57.88.4104	100 kOhm	SIP 9 (8*)	L9
RZ..507	57.88.2104	100 kOhm	SIP 8 (4*)	L9
RZ..508	57.88.2104	100 kOhm	SIP 8 (4*)	L9
RZ..509	57.88.4104	100 kOhm	SIP 9 (8*)	L9
RZ..510	57.88.2104	100 kOhm	SIP 8 (4*)	L9
RZ..511	. . 0	not exist		
RZ..512	57.88.4104	100 kOhm	SIP 9 (8*)	L8
RZ..513	57.88.2104	100 kOhm	SIP 8 (4*)	L8
RZ..514	. . 0	not exist		
RZ..515	57.88.2473	47 kOhm	SIP 8 (4*)	I8
RZ..516	57.88.2473	47 kOhm	SIP 8 (4*)	I8
RZ..517	57.88.4104	100 kOhm	SIP 9 (8*)	I8
RZ..518	57.88.4104	100 kOhm	SIP 9 (8*)	E8
RZ..519	57.88.4104	100 kOhm	SIP 9 (8*)	D7
RZ..520	57.88.4104	100 kOhm	SIP 9 (8*)	C7
RZ..521	57.88.4104	100 kOhm	SIP 9 (8*)	B7
RZ..522	57.88.4104	100 kOhm	SIP 9 (8*)	B7
RZ..523	57.88.4104	100 kOhm	SIP 9 (8*)	A8
RZ..524	. . 0	not exist		
RZ..525	57.88.4104	100 kOhm	SIP 9 (8*)	G8
RZ..526	57.88.2104	100 kOhm	SIP 8 (4*)	G8
RZ..527	57.88.2104	100 kOhm	SIP 8 (4*)	H8
RZ..528	57.88.4104	100 kOhm	SIP 9 (8*)	G9
RZ..529	57.88.2104	100 kOhm	SIP 8 (4*)	G9
RZ..530	57.88.2104	100 kOhm	SIP 8 (4*)	M9
RZ..531	57.88.4104	100 kOhm	SIP 9 (8*)	M9
RZ..532	57.88.2104	100 kOhm	SIP 8 (4*)	M9
RZ..533	57.88.2104	100 kOhm	SIP 8 (4*)	M9
RZ..534	57.88.4104	100 kOhm	SIP 9 (8*)	N8
RZ..535	57.88.2104	100 kOhm	SIP 8 (4*)	N8
RZ..536	57.88.2104	100 kOhm	SIP 8 (4*)	I8
RZ..537	57.88.2104	100 kOhm	SIP 8 (4*)	I8
RZ..538	57.88.2104	100 kOhm	SIP 8 (4*)	K8
RZ..539	57.88.2104	100 kOhm	SIP 8 (4*)	K8
RZ..540	57.88.4104	100 kOhm	SIP 9 (8*)	I9
RZ..541	57.88.2104	100 kOhm	SIP 8 (4*)	I9
RZ..542	57.88.2104	100 kOhm	SIP 8 (4*)	K9
RZ..543	57.88.4104	100 kOhm	SIP 9 (8*)	K9
RZ..544	57.88.2104	100 kOhm	SIP 8 (4*)	K9
RZ..545	57.88.2104	100 kOhm	SIP 8 (4*)	L9
RZ..546	57.88.4104	100 kOhm	SIP 9 (8*)	K8
RZ..547	57.88.2104	100 kOhm	SIP 8 (4*)	K8
RZ..548	57.88.2104	100 kOhm	SIP 8 (4*)	L8
RZ..549	. . 0	not exist		
RZ..550	57.88.4104	100 kOhm	SIP 9 (8*)	D7
RZ..551	57.88.2104	100 kOhm	SIP 8 (4*)	B7
RZ..552	57.88.2104	100 kOhm	SIP 8 (4*)	B7
RZ..553	57.88.4104	100 kOhm	SIP 9 (8*)	E8
RZ..554	57.88.2104	100 kOhm	SIP 8 (4*)	E8
RZ..555	57.88.2104	100 kOhm	SIP 8 (4*)	E8
RZ..556	57.88.4104	100 kOhm	SIP 9 (8*)	E9
RZ..557	57.88.2104	100 kOhm	SIP 8 (4*)	E9
RZ..558	57.88.2104	100 kOhm	SIP 8 (4*)	E9
RZ..559	57.88.4104	100 kOhm	SIP 9 (8*)	F9
RZ..560	57.88.2104	100 kOhm	SIP 8 (4*)	F9
RZ..561	57.88.2104	100 kOhm	SIP 8 (4*)	F9
RZ..562	57.88.4104	100 kOhm	SIP 9 (8*)	F8
RZ..563	57.88.2104	100 kOhm	SIP 8 (4*)	F8
RZ..564	57.88.2104	100 kOhm	SIP 8 (4*)	F8
RZ..565	57.88.4104	100 kOhm	SIP 9 (8*)	D8
RZ..566	57.88.4104	100 kOhm	SIP 9 (8*)	G9
RZ..567	57.88.2102	1 kOhm	SIP 8 (4*)	G8
RZ..568	57.88.2102	1 kOhm	SIP 8 (4*)	F8
RZ..569	57.88.2102	1 kOhm	SIP 8 (4*)	G8
RZ..570	57.88.2102	1 kOhm	SIP 8 (4*)	G8
RZ..571	57.88.2102	1 kOhm	SIP 8 (4*)	G9
RZ..572	57.88.2102	1 kOhm	SIP 8 (4*)	G9
T.....1	1.022.456.00		INPUT TRAFO 1:2.24	St K3
T.....2	1.022.454.00		INPUT TRAFO 1:3.16	St K2
W.....1	57.11.3000	0 Ohm		N1
W.....2	57.11.3000	0 Ohm		N6
W.....3	57.11.3000	0 Ohm		N6
W.....4	57.11.3000	0 Ohm		N6
W.....5	. . 0	not used		N6
W.....6	57.11.3000	0 Ohm		N3

OPTIONS: see optionlist 1.990.210.00
****
option 1.....: ASSIGN RETURN -> source selector

option 2.....: BUS RET to meter -> signal "direct out" to meter
TAPE RET to meter -> signal "bus / tape" to meter

option 3.....: FILM OUT -> group 1...8

software option A : BUS RET / TAPE RET -> switchable 3db attenuation

CE=Ceramic, CF=Carbon film, EL=Electrolytic, MF=Metal film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER:
****
ADI=Aanalog Devices Inc., Bu=Burndy, El=Elco, Ex=Exar,
Fc=Fairchild, Fe=Ferranti, GI=General Instrument, Ha=Harting,
HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
(Matsushita), NS=National Semiconductors, Ph=Philips,
PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Corp. of
America, SDS=SDS-Relais, Sie=Siemens, Sig= Signetics
Six=Siliconix, St=Studer,
Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaichi

HISTORY:
****
1.10.90 Stand Rai-Pult
13.11.90 Eliminierung digitaler Stoerungen (DAC)
Aux-Klirr (OY generiert 1)
PF-Headroom
22.11.90 Poslist Bereinigung
19.12.90 WIC-Knacksen (Software Update noetig)
Verbesserung Rauschabstand bei eingeschaltenem Insert
4.03.91 Aenderung der BG auf -81 wegen besserer Produzierbarkeit (von LS auf BS) und diverser elektrischer Modifikationen
24.04.91 3 neue C auf LS wegen HF-Stoerungen vom Prozessor her und 1 Stk. Blankdraht wegen fehlender Leiterbahn

Pin location list **1.990.210**

ALSO USED FOR -INPUT UNIT MONO B 1.990.220

P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC
P6	01A	0VA BAL/PAN1	GROUND SIGN PAN 1 (BAL)	O
P6	01B	B-L/PAN1-IN	PAN 1 IN (MAIN) (BAL LEFT IN)	O
P6	02A	B/PAN1-OUT-L	PAN 1 OUT LEFT (BAL OUT LEFT)	O
P6	02B	B/PAN1-OUT-R	PAN 1 OUT RIGHT (BAL OUT RIGHT)	O
P6	03A	0VA PAN2	GROUND SIGN PAN 2	O
P6	03B	B-R/PAN2-IN	PAN 2 IN (SMALL) (BAL RIGHT IN)	O
P6	04A	PAN2-OUT-L	PAN 2 OUT LEFT (BAL RIGHT IN-B)	O
P6	04B	PAN2-OUT-R	PAN 2 OUT RIGHT (C OUT)	O
P6	05A	FILM-OUT-L	OPTIONAL OUTPUT LEFT	O
P6	05B	FILM-OUT-R	OPTIONAL OUTPUT RIGHT	O
P6	06A	FILM-OUT-C	OPTIONAL OUTPUT	O
P6	06B	FILM-OUT-S	OPTIONAL OUTPUT	O
P6	07A	+ 15V	+ SUPPLY TO FADER UNIT	O
P6	07B	- 15V	- SUPPLY TO FADER UNIT	O
P6	08A	A OUT 0	INPUT ; FROM MCU ANALOG OUT 0	O
P6	08B	A OUT 1	INPUT ; FROM MCU ANALOG OUT 1	O
P6	09A	A IN 4	OUTPUT ; TO MCU ANALOG IN 4	O
P6	09B	A OUT 5	INPUT ; FROM MCU ANALOG OUT 5	O
P6	10A	RCL	RECEIVE CLOCK	O
P6	10B	RSTB	RECEIVE STROBE	O
P6	11A	INT 4	INTERUPT 4	O
P6	11B	RXD 3	RECEIVE DATA 3	O
P6	12A	INT 5	INTERUPT 5	O
P6	12B	TSTB 2	TRANSMIT STROBE 2	O
P6	13A	TSTB 3	TRANSMIT STROBE 3	O
P6	13B	TSTB 4	TRANSMIT STROBE 4	O
P6	14A	TSTB 5	TRANSMIT STROBE 5	O
P6	14B	DO 1	DATA OUT 1 (TRANSMIT STROBE 8)	O
P6	15A	TXD	TRANSMIT DATA	O
P6	15B	TCL	TRANSMIT CLOCK	O
P6	16A	DO 0	DATA OUT 0 (ENABLE)	O
P6	16B	UREF	+ 5V REFERENCE	O
P7	01A	0V-B	GROUND AUDIO (PIN)	O
P7	01B	CHASSIS	METAL FRAME	B
P7	02A	-	RES	O
P7	02B	-	RES	O
P7	03A	-	RES LEFT	B
P7	03B	-	RES RIGHT	B
P7	04A	B-MPX-L	MPX LEFT ; 0-OHM BUS	B,I
P7	04B	B-MPX-R	MPX RIGHT ; 0-OHM BUS	B,I
P7	05A	B-PFL/SOLO-L	PFL/SOLO LEFT ; 0-OHM BUS	B,I
P7	05B	B-PFL/SOLO-R	PFL/SOLO RIGHT ; 0-OHM BUS	B,I
P7	06A	B-A-L	MASTER A LEFT ; 0-OHM BUS	B,I
P7	06B	B-A-R	MASTER A RIGHT ; 0-OHM BUS	B,I
P7	07A	B-B-L	MASTER B LEFT ; 0-OHM BUS	B,I
P7	07B	B-B-R	MASTER B RIGHT ; 0-OHM BUS	B,I
P7	08A	B-C-L	MASTER C LEFT ; 0-OHM BUS	B,I
P7	08B	B-C-R	MASTER C RIGHT ; 0-OHM BUS	B,I
P7	09A	B-D-L	MASTER D LEFT ; 0-OHM BUS	B,I
P7	09B	B-D-R	MASTER D RIGHT ; 0-OHM BUS	B,I
P7	10A	B-GR-1	GROUP 1 ; 0-OHM BUS	B,I

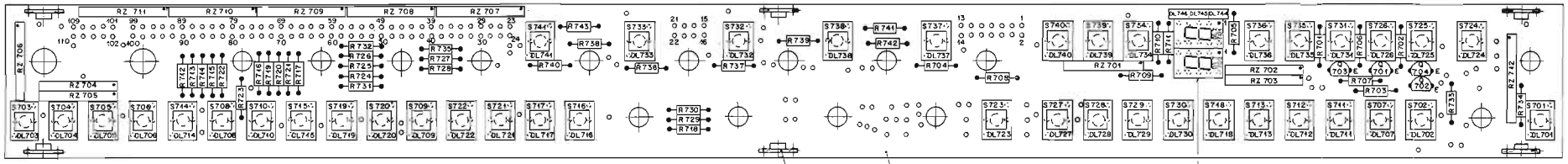
Pin location list **1.990.210**

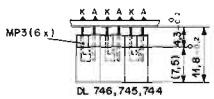
P7	10B	B-GR-2	GROUP 2	; 0-OHM BUS	B,I		
P7	11A	B-GR-3	GROUP 3	; 0-OHM BUS	B,I		
P7	11B	B-GR-4	GROUP 4	; 0-OHM BUS	B,I		
P7	12A	B-GR-5	GROUP 5	; 0-OHM BUS	B,I		
P7	12B	B-GR-6	GROUP 6	; 0-OHM BUS	B,I		
P7	13A	B-GR-7	GROUP 7	; 0-OHM BUS	B,I		
P7	13B	B-GR-8	GROUP 8	; 0-OHM BUS	B,I		
P7	14	0V-REF	0V REFERENCE		B	X	X
P7	15A	B-AUX-A-1	AUX A-1	; 0-OHM BUS	B,I		
P7	15B	B-AUX-A-2	AUX A-2	; 0-OHM BUS	B,I		
P7	16A	B-AUX-A-3	AUX A-3	; 0-OHM BUS	B,I		
P7	16B	B-AUX-A-4	AUX A-4	; 0-OHM BUS	B,I		
P7	17A	B-AUX-A-5	AUX A-5	; 0-OHM BUS	B,I		
P7	17B	B-AUX-A-6	AUX A-6	; 0-OHM BUS	B,I		
P7	18A	B-AUX-A-7	AUX A-7	; 0-OHM BUS	B,I		
P7	18B	B-AUX-A-8	AUX A-8	; 0-OHM BUS	B,I		
P7	19A	B-AUX-B-1	AUX B-1	; 0-OHM BUS	B,I		
P7	19B	B-AUX-B-2	AUX B-2	; 0-OHM BUS	B,I		
P7	20A	B-AUX-B-3	AUX B-3	; 0-OHM BUS	B,I		
P7	20B	B-AUX-B-4	AUX B-4	; 0-OHM BUS	B,I		
P7	21A	B-AUX-B-5	AUX B-5	; 0-OHM BUS	B,I		
P7	21B	B-AUX-B-6	AUX B-6	; 0-OHM BUS	B,I		
P7	22A	B-AUX-B-7	AUX B-7	; 0-OHM BUS	B,I		
P7	22B	B-AUX-B-8	AUX B-8	; 0-OHM BUS	B,I		
P7	23A	0V GEN 1	GROUND AUDIO GENERIERT 1		O		
P7	23B	-	N.C.	(STEREO)	O		
P7	24A	0V GEN 2	GROUND AUDIO GENERIERT 2		O		
P7	24B	-	N.C.	(STEREO)	O		
P7	25A	0V GEN 3	GROUND AUDIO GENERIERT 3		O		
P7	25B	-	N.C.	(STEREO)	O		
P7	26A	0V GEN 4	GROUND AUDIO GENERIERT 4		O		
P7	26B	-	N.C.	(STEREO)	O		
P7	27	0V-A	GROUND AUDIO		B		
P7	28	- 15.5V	- SUPPLY		B	X	X
P7	29	+ 15.5V	+ SUPPLY		B	X	X
P7	30	0V-L	GROUND SIGN (LOGIC)		B	X	X
P7	31	+ 5.5V	+ SUPPLY		B	X	X
P7	32	+3..4V LED	LED SUPPLY VARIABLE +3...4V		B	X	X
P9	01A	LINE-A-a	LINE INPUT A (LEFT) a		S,O		
P9	01B	LINE-A-b	LINE INPUT A (LEFT) b		S,O		
P9	02A	LINE-A-0VE	LINE INPUT A GROUND EXTERN		O		
P9	02B	-	N.C.	(STEREO)	O		
P9	03A	-	N.C.	(STEREO)	O		
P9	03B	-	N.C	(STEREO)	O		
P9	04A	LINE-B-a	LINE INPUT B (LEFT) a		S,O		
P9	04B	LINE-B-b	LINE INPUT B (LEFT) b		S,O		
P9	05A	LINE-B-0VE	LINE INPUT B GROUND EXTERN		O		
P9	05B	TAPE-RET-0VE	TAPE RETURN INPUT GROUND EXTERN		O		
P9	06A	TAPE-RET-a	TAPE RETURN INPUT a		S,O		
P9	06B	TAPE-RET-b	TAPE RETURN INPUT b		S,O		
P9	07A	BUS-RET-a	BUS RETURN INPUT a		S,O		
P9	07B	BUS-RET-b	BUS RETURN INPUT b		S,O		
P9	08A	BUS-RET-0VE	BUS RETURN INPUT GROUND EXTERN		O		
P9	08B	.-	RES		O		
P9	09A	BUS-OUT-a	BUS OUTPUT a		S,O		
P9	09B	BUS-OUT-b	BUS OUTPUT b		S,O		
P9	10A	DIR-OUT-a	DIRECT OUT (LEFT) a		S,O		
P9	10B	DIR-OUT-b	DIRECT OUT (LEFT) b		S,O		
P9	11A	-	N.C.	(STEREO)	O		
P9	11B	-	N.C.	(STEREO)	O		

Pin location list **1.990.210**

P9	12A	METER	METER (LEFT)	AS,O
P9	12B	OV-GEN	GROUND AUDIO GENERIERT (22)	O
P9	13A	METER-OV	METER GROUND	O
P9	13B	-	N.C. (STEREO)	O
P9	14A	MCH-OUT-L-a	TO EURO 32CH BUS SELECTOR LEFT a	S,O
P9	14B	MCH-OUT-L-b	TO EURO 32CH BUS S. LEFT b (GND)	S,O
P9	15A	MCH-OUT-R-a	TO EURO 32CH BUS SELECTOR RIGHT a	S,O
P9	15B	MCH-OUT-R-b	TO EURO 32CH BUS S. RIGHT b (GND)	S,O
P9	16A	PF-OUT-1	PRE FADER OUT MAIN	AS,O
P9	16B	PF-OUT-2	PRE FADER OUT SMALL	AS,O
P9	17A	AF-OUT-1	AFTER FADER OUT MAIN	AS,O
P9	17B	AF-OUT-2	AFTER FADER OUT SMALL	AS,O
P9	18A	MIC-OUT-OV	MIC OUTPUT (LEFT) GROUND GENERIERT	O
P9	18B	AF/PF-OUT-OV	AF/PF OUT GROUND GENERIERT	O
P9	19A	MIC-a	MIC INPUT (LEFT) a	S,O
P9	19B	MIC-OUT	MIC OUTPUT (LEFT)	AS
P9	20A	MIC-OVE	MIC (LEFT) GROUND EXTERN	O
P9	20B	MIC-b	MIC INPUT (LEFT) b	S,O
P9	21A	-	N.C. (STEREO)	O
P9	21B	-	N.C. (STEREO)	O
P9	22A	PHANT-PWR-SW	PHANTOM SUPPLY SWITCHED	O
P9	22B	-	N.C. (STEREO)	O
P9	23A	MLT-BUS-RET-a	MULTI BUS RETURN a	S,O
P9	23B	MLT-BUS-RET-b	MULTI BUS RETURN b	S,O
P9	24A	TB/SLATE-a	TALK BACK / SLATE INPUT a	S,B
P9	24B	PHANT-PWR-IN	PHANTOM SUPPLY BUS IN	B
P9	25A	MPX-MONO-a	MPX INPUT MONO a	S,B
P9	25B	TB/SLATE-b	TALK BACK / SLATE INPUT b	S,B
P9	26A	-	N.C. (STEREO)	B
P9	26B	MPX-MONO-b	MPX INPUT MONO b	S,B
P9	27A	-	N.C. (STEREO)	B
P9	27B	-	N.C. (STEREO)	B
P9	28A	INS-OV	INSERT GROUND	O
P9	28B	-	N.C. (STEREO)	B
P9	29A	INS-SEND-1-a	SYM INSERT MAIN OUTPUT a	S,O
P9	29B	INS-SEND-1-b	SYM INSERT MAIN OUTPUT b	S,O
P9	30A	INS-RET -1-a	SYM INSERT MAIN INPUT a	S,O
P9	30B	INS-RET -1-b	SYM INSERT MAIN INPUT b	S,O
P9	31A	INS-SEND-2-a	SYM INSERT SMALL OUTPUT a	S,O
P9	31B	INS-SEND-2-b	SYM INSERT SMALL OUTPUT b	S,O
P9	32A	INS-RET -2-a	SYM INSERT SMALL INPUT a	S,O
P9	32B	INS-RET -2-b	SYM INSERT SMALL INPUT b	S,O

INPUT MONO SWITCH BOARD 1.990.219.00 / 1.990.229.00





VALID FOR	NR. UNIT	NR. POS. LIST
INPUT MONO MCH SWITCH BOARD	1.990.219-00	1.990.219-00
INPUT MONO B SWITCH BOARD	1.990.229-00	1.990.229-00

STUDER REGENSDORF ZURICH | INPUT MONO SWITCH BOARD | 1.990.219-00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	DL..701	. .	red see S701	
	DL..702	. .	yel see S702	
	DL..703	. .	yel see S703	
	DL..704	. .	grn see S704	
	DL..705	. .	yel see S705	
	DL..706	. .	grn see S706	
	DL..707	. .	yel see S707	
	DL..708	. .	grn see S708	
	DL..709	. .	yel see S709	
	DL..710	. .	yel see S710	
	DL..711	. .	yel see S711	
	DL..712	. .	yel see S712	
	DL..713	. .	grn see S713	
	DL..714	. .	yel see S714	
	DL..715	. .	grn see S715	
	DL..716	. .	red see S716	
	DL..717	. .	red see S717	
	DL..718	. .	red see S718	
	DL..719	. .	yel see S719	
	DL..720	. .	grn see S720	
	DL..721	. .	yel see S721	
	DL..722	. .	grn see S722	
	DL..723	. .	red see S723	
	DL..724	. .	red see S724	
	DL..725	. .	yel see S725	
	DL..726	. .	yel see S726	
	DL..727	. .	red see S727	
	DL..728	. .	red see S728	
	DL..729	. .	red see S729	
	DL..730	. .	red see S730	
	DL..731	. .	yel see S731	
	DL..732	. .	grn see S732	
	DL..733	. .	grn see S733	
	DL..734	. .	grn see S734	
	DL..735	. .	yel see S735	
	DL..736	. .	grn see S736	
	DL..737	. .	grn see S737	
	DL..738	. .	grn see S738	
	DL..739	. .	grn see S739	
	DL..740	. .	yel see S740	
	DL..741	. .	red see S741	
	DL..742	. .	not used	
	DL..743	. .	not used	
	DL..744	50.04.2701	MV 57123 red	
	DL..745	50.04.2701	MV 57123 red	
	DL..746	50.04.2701	MV 57123 red	
	DLZ.701	73.01.0128	HDSP7303 7-segment display common cathode	HP
	DLZ.702	73.01.0128	HDSP7303 7-segment display common cathode	HP
	MP..701	1.990.219.11	1 pcs Input Mono PCB	
	MP..702	1.990.100.05	6 pcs Quarpringhalter	
	MP..703	53.03.0218	26 pcs single line socket	
	MP..704	1.990.219.04	1 pcs Nr.Etikette 5*20	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	Q...701	50.03.0515	BC 307 PNP [C>100mA, B>100]	any
	Q...702	50.03.0436	BC 237 NPN [C>100mA, B>100]	any
	Q...703	50.03.0515	BC 307 PNP [C>100mA, B>100]	any
	Q...704	50.03.0436	BC 237 NPN [C>100mA, B>100]	any
	R...701	57.11.3101	100 Ohm 5% 0.25W	
	R...702	57.11.3222	2.2 kOhm 5% 0.25W	
	R...703	57.11.3102	1 kOhm 5% 0.25W	
	R...704	57.11.3473	47 kOhm 5% 0.25W	
	R...705	57.11.3101	100 Ohm 5% 0.25W	
	R...706	57.11.3222	2.2 kOhm 5% 0.25W	
	R...707	57.11.3102	1 kOhm 5% 0.25W	
	R...708	57.11.3473	47 kOhm 5% 0.25W	
	R...709	57.11.3101	100 Ohm 5% 0.25W	
	R...710	57.11.3101	100 Ohm 5% 0.25W	
	R...711	57.11.3101	100 Ohm 5% 0.25W	
	R...712	57.11.3101	100 Ohm 5% 0.25W	
	R...713	57.11.3101	100 Ohm 5% 0.25W	
	R...714	57.11.3101	100 Ohm 5% 0.25W	
	R...715	57.11.3101	100 Ohm 5% 0.25W	
	R...716	57.11.3101	100 Ohm 5% 0.25W	
	R...717	57.11.3101	100 Ohm 5% 0.25W	
	R...718	57.11.3101	100 Ohm 5% 0.25W	
	R...719	57.11.3101	100 Ohm 5% 0.25W	
	R...720	57.11.3101	100 Ohm 5% 0.25W	
	R...721	57.11.3101	100 Ohm 5% 0.25W	
	R...722	57.11.3101	100 Ohm 5% 0.25W	
	R...723	57.11.3101	100 Ohm 5% 0.25W	
	R...724	57.11.3101	100 Ohm 5% 0.25W	
	R...725	57.11.3101	100 Ohm 5% 0.25W	
	R...726	57.11.3101	100 Ohm 5% 0.25W	
	R...727	57.11.3101	100 Ohm 5% 0.25W	
	R...728	57.11.3101	100 Ohm 5% 0.25W	
	R...729	57.11.3101	100 Ohm 5% 0.25W	
	R...730	57.11.3101	100 Ohm 5% 0.25W	
	R...731	57.11.3101	100 Ohm 5% 0.25W	
	R...732	57.11.3101	100 Ohm 5% 0.25W	
	R...733	57.11.3101	100 Ohm 5% 0.25W	
	R...734	57.11.3101	100 Ohm 5% 0.25W	
	R...735	57.11.3101	100 Ohm 5% 0.25W	
	R...736	57.11.3101	100 Ohm 5% 0.25W	
	R...737	57.11.3101	100 Ohm 5% 0.25W	
	R...738	57.11.3101	100 Ohm 5% 0.25W	
	R...739	57.11.3101	100 Ohm 5% 0.25W	
	R...740	57.11.3101	100 Ohm 5% 0.25W	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...741	57.11.3101	100 Ohm 5% 0.25W	
	R...742	57.11.3101	100 Ohm 5% 0.25W	
	R...743	57.11.3101	100 Ohm 5% 0.25W	
	RZ..701	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..702	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..703	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..704	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..705	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..706	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..707	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..708	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..709	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..710	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..711	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..712	57.88.4104	100 kOhm SIP 9 (8*)	
	S...701	55.15.0602	1 * A red/trans. (X-1)	
	S...702	55.15.0604	1 * A yel/trans. (GROUP 1)	
	S...703	55.15.0644	1 * A yel/yel (SHIFT AUX)	
	S...704	55.15.0605	1 * A grn/trans. (AUX7/8 ON B)	
	S...705	55.15.0604	1 * A yel/trans. (AUX7/8 ON A)	
	S...706	55.15.0605	1 * A grn/trans. (AUX5/6 ON B)	
	S...707	55.15.0604	1 * A yel/trans. (GROUP 4)	
	S...708	55.15.0605	1 * A grn/trans. (AUX4 ON B)	
	S...709	55.15.0604	1 * A yel/trans. (AUX2 ON A)	
	S...710	55.15.0604	1 * A yel/trans. (AUX4 ON A)	
	S...711	55.15.0604	1 * A yel/trans. (GROUP 6)	
	S...712	55.15.0604	1 * A yel/trans. (GROUP 8)	
	S...713	55.15.0605	1 * A grn/trans. (PHANT PWR)	
	S...714	55.15.0604	1 * A yel/trans. (AUX5/6 ON A)	
	S...715	55.15.0605	1 * A grn/trans. (AUX3 ON B)	
	S...716	55.15.0622	1 * A red/red (EQ IN)	
	S...717	55.15.0622	1 * A red/red (INS 2 IN)	
	S...718	55.15.0602	1 * A red/trans. (MIC)	
	S...719	55.15.0604	1 * A yel/trans. (AUX3 ON A)	
	S...720	55.15.0605	1 * A grn/trans. (AUX2 ON B)	
	S...721	55.15.0604	1 * A yel/trans. (AUX1 ON A)	
	S...722	55.15.0605	1 * A grn/trans. (AUX1 ON B)	
	S...723	55.15.0622	1 * A red/red (FILTER IN)	
	S...724	55.15.0602	1 * A red/trans. (BUS DIR)	
	S...725	55.15.0604	1 * A yel/trans. (GROUP 1)	
	S...726	55.15.0604	1 * A yel/trans. (GROUP 3)	
	S...727	55.15.0602	1 * A red/trans. (TAPE RET)	
	S...728	55.15.0602	1 * A red/trans. (BUS RET)	
	S...729	55.15.0602	1 * A red/trans. (LINE B)	
	S...730	55.15.0602	1 * A red/trans. (LINE A)	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	S...731	55.15.0604	1 * A yel/trans. (GROUP 6)	
	S...732	55.15.0605	1 * A grn/trans. (LHF ; Q)	
	S...733	55.15.0605	1 * A grn/trans. (LF ; S/B)	
	S...734	55.15.0655	1 * A grn/grn (+)	
	S...735	55.15.0604	1 * A yel/trans. (GROUP 5)	
	S...736	55.15.0605	1 * A grn/trans. (PHASE)	
	S...737	55.15.0605	1 * A grn/trans. (HF ; S/B)	
	S...738	55.15.0605	1 * A grn/trans. (HMF ; Q)	
	S...739	55.15.0655	1 * A grn/grn (-)	
	S...740	55.15.0644	1 * A yel/yel (SHIFT)	
	S...741	55.15.0622	1 * A red/red (INS 1 IN)	
	S...742	. .	not used	
	S...743	. .	not used	
	W...701	. .	not used	
	W...702	. .	not used	
	W...703	. .	not used	
	W...704	. .	not used	

CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER: Bu=Burndy, Ex=Exar, Fc=Fairchild, GI=General Instrument
HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Mat=National
(Matsushita), NS=National Semiconductors, Ph=Philips,
Ra=Raytheon, Sig=Signetics, Six=Siliconix, St=Studer,
TI=Texas Instrument

1.990.219.00 INPUT MONO SWITCH BOARD TA 90/03/2600

INPUT MONO B SWITCH BOARD 1.990.229.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	DL..701	. .	red see S701	
	DL..702	. .	yel see S702	
	DL..703	. .	yel see S703	
	DL..704	. .	grn see S704	
	DL..705	. .	yel see S705	
	DL..706	. .	grn see S706	
	DL..707	. .	yel see S707	
	DL..708	. .	grn see S708	
	DL..709	. .	yel see S709	
	DL..710	. .	yel see S710	
	DL..711	. .	yel see S711	
	DL..712	. .	yel see S712	
	DL..713	. .	grn see S713	
	DL..714	. .	yel see S714	
	DL..715	. .	grn see S715	
	DL..716	. .	red see S716	
	DL..717	. .	red see S717	
	DL..718	. .	red see S718	
	DL..719	. .	yel see S719	
	DL..720	. .	grn see S720	
	DL..721	. .	yel see S721	
	DL..722	. .	grn see S722	
	DL..723	. .	red see S723	
	DL..724	. .	not used	
	DL..725	. .	yel see S725	
	DL..726	. .	yel see S726	
	DL..727	. .	not used	
	DL..728	. .	not used	
	DL..729	. .	red see S729	
	DL..730	. .	red see S730	
	DL..731	. .	yel see S731	
	DL..732	. .	grn see S732	
	DL..733	. .	grn see S733	
	DL..734	. .	grn see S734	
	DL..735	. .	yel see S735	
	DL..736	. .	grn see S736	
	DL..737	. .	grn see S737	
	DL..738	. .	grn see S738	
	DL..739	. .	grn see S739	
	DL..740	. .	yel see S740	
	DL..741	. .	grn see S741	
	DL..742	. .	not used	
	DL..743	. .	not used	
	DL..744	50.04.2701	MV 57123 red	
	DL..745	50.04.2701	MV 57123 red	
	DL..746	50.04.2701	MV 57123 red	
	DLZ.701	73.01.0128	HDSP7303 7-segment display common cathode	HP
	DLZ.702	73.01.0128	HDSP7303 7-segment display common cathode	HP
	MP..701	1.990.219.11	1 pcs Input Mono PCB	
	MP..702	1.990.100.05	6 pcs Querprinthalter	
	MP..703	53.03.0218	26 pcs single line socket	
	MP..704	1.990.229.04	1 pcs Nr.Etikette 5*20	
	Q...701	50.03.0515	BC 307 PNP IC>100mA, B>100	any
	Q...702	50.03.0436	BC 237 NPN IC>100mA, B>100	any
	Q...703	50.03.0515	BC 307 PNP IC>100mA, B>100	any
	Q...704	50.03.0436	BC 237 NPN IC>100mA, B>100	any
	R...701	57.11.3101	100 Ohm 5% 0.25W	
	R...702	57.11.3222	2.2 kOhm 5% 0.25W	
	R...703	57.11.3102	1 kOhm 5% 0.25W	
	R...704	57.11.3473	47 kOhm 5% 0.25W	
	R...705	57.11.3101	100 Ohm 5% 0.25W	
	R...706	57.11.3222	2.2 kOhm 5% 0.25W	
	R...707	57.11.3102	1 kOhm 5% 0.25W	
	R...708	57.11.3473	47 kOhm 5% 0.25W	
	R...709	57.11.3101	100 Ohm 5% 0.25W	
	R...710	57.11.3101	100 Ohm 5% 0.25W	
	R...711	57.11.3101	100 Ohm 5% 0.25W	
	R...712	57.11.3101	100 Ohm 5% 0.25W	
	R...713	57.11.3101	100 Ohm 5% 0.25W	
	R...714	57.11.3101	100 Ohm 5% 0.25W	
	R...715	57.11.3101	100 Ohm 5% 0.25W	
	R...716	57.11.3101	100 Ohm 5% 0.25W	
	R...717	57.11.3101	100 Ohm 5% 0.25W	
	R...718	. .	not used	
	R...719	57.11.3101	100 Ohm 5% 0.25W	
	R...720	57.11.3101	100 Ohm 5% 0.25W	
	R...721	57.11.3101	100 Ohm 5% 0.25W	
	R...722	57.11.3101	100 Ohm 5% 0.25W	
	R...723	57.11.3101	100 Ohm 5% 0.25W	
	R...724	. .	not used	
	R...725	57.11.3101	100 Ohm 5% 0.25W	
	R...726	57.11.3101	100 Ohm 5% 0.25W	
	R...727	57.11.3101	100 Ohm 5% 0.25W	
	R...728	57.11.3101	100 Ohm 5% 0.25W	
	R...729	. .	not used	
	R...730	57.11.3101	100 Ohm 5% 0.25W	
	R...731	57.11.3101	100 Ohm 5% 0.25W	
	R...732	57.11.3101	100 Ohm 5% 0.25W	
	R...733	57.11.3101	100 Ohm 5% 0.25W	
	R...734	57.11.3101	100 Ohm 5% 0.25W	
	R...735	57.11.3101	100 Ohm 5% 0.25W	
	R...736	57.11.3101	100 Ohm 5% 0.25W	
	R...737	57.11.3101	100 Ohm 5% 0.25W	
	R...738	57.11.3101	100 Ohm 5% 0.25W	
	R...739	57.11.3101	100 Ohm 5% 0.25W	
	R...740	57.11.3101	100 Ohm 5% 0.25W	
	R...741	57.11.3101	100 Ohm 5% 0.25W	
	R...742	57.11.3101	100 Ohm 5% 0.25W	
	R...743	57.11.3101	100 Ohm 5% 0.25W	
	RZ..701	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..702	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..703	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..704	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..705	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..706	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..707	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..708	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..709	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..710	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..711	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..712	57.88.4104	100 kOhm SIP 9 (8*)	
	S...701	55.15.0602	1 * A red/trans. (X-1)	
	S...702	55.15.0604	1 * A yel/trans. (GROUP 1)	
	S...703	55.15.0644	1 * A yel/yel (RES)	
	S...704	55.15.0605	1 * A grn/trans. (AUX7/8 PRE)	
	S...705	55.15.0604	1 * A yel/trans. (AUX7/8 ON)	
	S...706	55.15.0605	1 * A grn/trans. (AUX5/6 PRE)	
	S...707	55.15.0604	1 * A yel/trans. (GROUP 4)	
	S...708	55.15.0605	1 * A grn/trans. (AUX4 PRE)	
	S...709	55.15.0604	1 * A yel/trans. (AUX2 ON)	
	S...710	55.15.0604	1 * A yel/trans. (AUX4 ON)	
	S...711	55.15.0604	1 * A yel/trans. (GROUP 6)	
	S...712	55.15.0604	1 * A yel/trans. (GROUP 8)	
	S...713	55.15.0605	1 * A grn/trans. (PHANT PWR)	
	S...714	55.15.0604	1 * A yel/trans. (AUX5/6 ON)	
	S...715	55.15.0605	1 * A grn/trans. (AUX3 PRE)	
	S...716	55.15.0622	1 * A red/red (EQ IN)	
	S...717	55.15.0622	1 * A red/red (INS IN)	
	S...718	55.15.0602	1 * A red/trans. (MIC)	
	S...719	55.15.0604	1 * A yel/trans. (AUX3 ON)	
	S...720	55.15.0605	1 * A grn/trans. (AUX2 PRE)	
	S...721	55.15.0604	1 * A yel/trans. (AUX1 ON)	
	S...722	55.15.0605	1 * A grn/trans. (AUX1 PRE)	
	S...723	55.15.0622	1 * A red/red (FILTER IN)	
	S...724	. .	not used	
	S...725	55.15.0604	1 * A yel/trans. (GROUP 1)	
	S...726	55.15.0604	1 * A yel/trans. (GROUP 3)	
	S...727	. .	not used	
	S...728	. .	not used	
	S...729	55.15.0602	1 * A red/trans. (LINE B)	
	S...730	55.15.0602	1 * A red/trans. (LINE A)	
	S...731	55.15.0604	1 * A yel/trans. (GROUP 5)	
	S...732	55.15.0605	1 * A grn/trans. (LMF ; Q)	
	S...733	55.15.0605	1 * A grn/trans. (LF ; S/B)	
	S...734	55.15.0655	1 * A grn/grn (+)	
	S...735	55.15.0604	1 * A yel/trans. (GROUP 5)	
	S...736	55.15.0605	1 * A grn/trans. (PHASE)	
	S...737	55.15.0605	1 * A grn/trans. (HF ; S/B)	
	S...738	55.15.0605	1 * A grn/trans. (HMF ; Q)	
	S...739	55.15.0655	1 * A grn/grn (-)	
	S...740	55.15.0644	1 * A yel/yel (SHIFT)	
	S...741	55.15.0605	1 * A grn/trans. (PRE EQ)	
	S...742	. .	not used	
	S...743	. .	not used	
	W...701	. .	not used	
	W...702	. .	not used	
	W...703	. .	not used	
	W...704	. .	not used	

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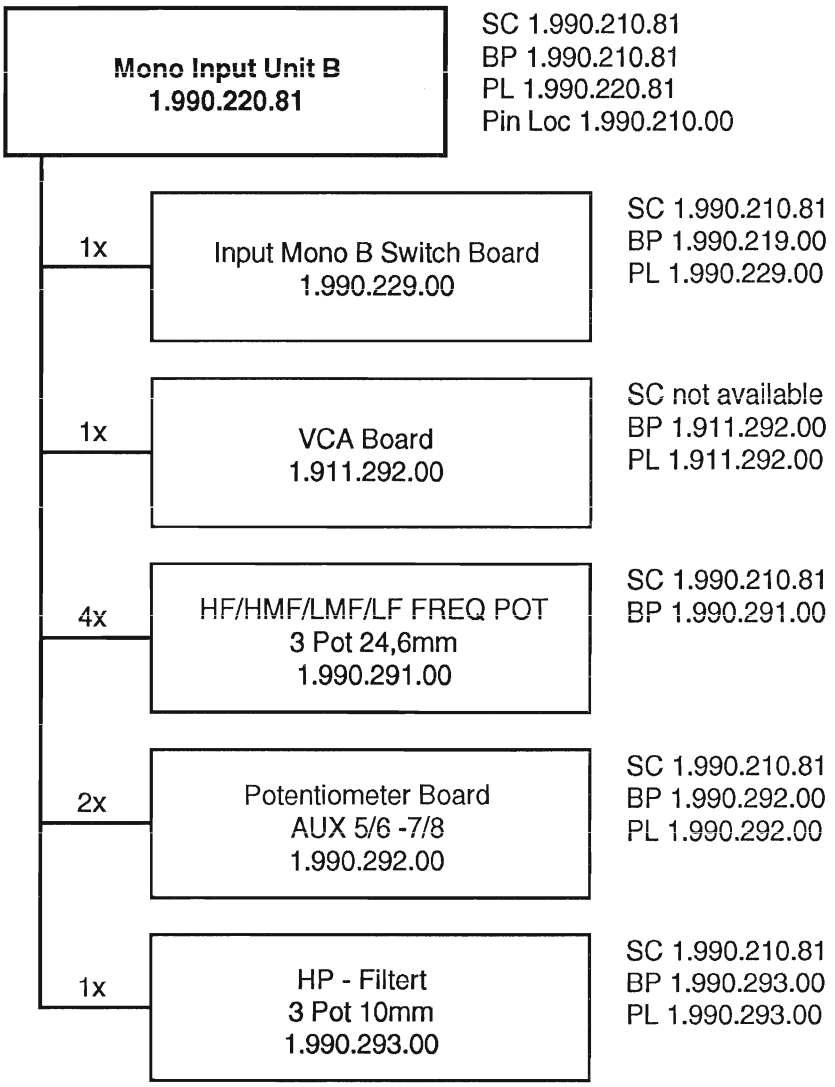
PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER: Bu=Burndy, Ex=Exar, Fc=Fairchild, GI=General Instrument
HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
(Matsushita), NS=National Semiconductors, Ph=Philips,
Ra=Raytheon, Sig=Signetics, Six=Siliconix, St=Studer,
TI=Texas Instrument

1.990.229.00 INPUT MONO B SWITCH BOARD TA 90/03/3000

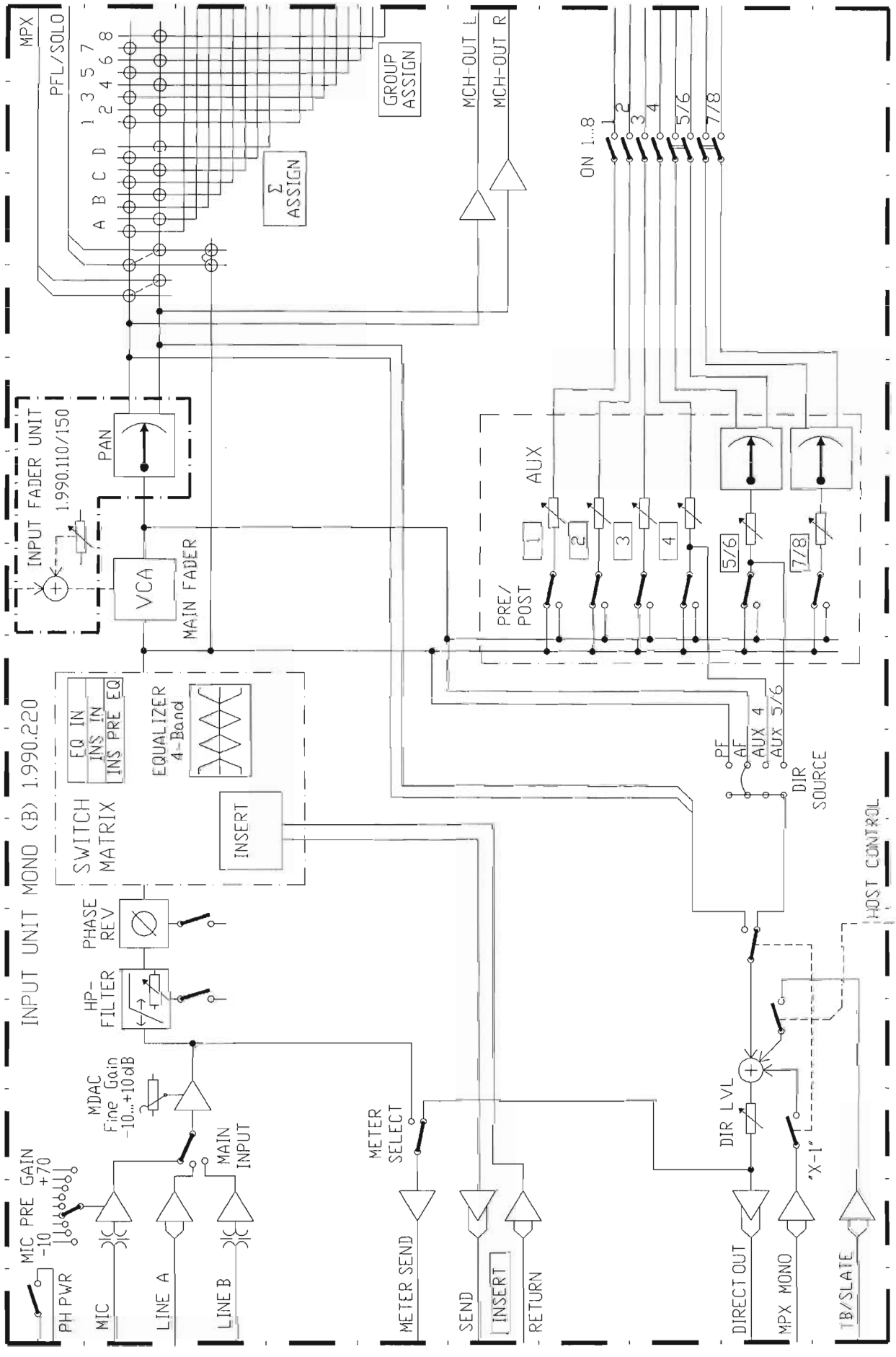
END

Mono Input Unit B 1.990.220.81



SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

MONO INPUT UNIT B 1.990.220.81



INPUT UNIT MONO B

1.990.220.81

Ad	..POS..	...REF.No...	DESCRIPTION					MANUFACTURER
	A.....1	1.911.292.00	VCA				St	E4
	A.....2	. . 0	not used A					E3
	A.....3	1.990.229.00	input mono B switch board				St	
	A.....4	1.023.402.03	1/40" flatcable connect. 260mm 20pol				St	
	A.....5	1.023.402.01	1/40" flatcable connect. 120mm 20pol				St	
	A.....6	1.023.402.01	1/40" flatcable connect. 120mm 20pol				St	
	A.....7	1.990.220.94	Index 2 cable list input unit mono B				St	
	A.....8	1.990.291.00	3 pot. 24.6mm board				St	
	A.....9	1.990.291.00	3 pot. 24.6mm board				St	
	A....10	1.990.291.00	3 pot. 24.6mm board				St	
	A....11	1.990.291.00	3 pot. 24.6mm board				St	
	A....12	1.990.292.00	5 pot. 10mm board				St	B6
	A....13	1.990.292.00	5 pot. 10mm board				St	A6
	A....14	1.990.293.00	3 pot. 10mm board				St	I6
	A....15	. . 0	not used A					N6
	C.....1	59.05.1681	680 pF	1%	500V	PP		N3
	C.....2	59.05.1681	680 pF	1%	500V	PP		N3
	C.....3	59.06.0332	3.3 nF	10%		PE		N3
	C.....4	59.32.2471	470 pF			CE		N4
	C.....5	59.06.0104	100 nF			PE		N4
	C.....6	59.22.3101	100 UF	-20%	10V	EL		N4
	C.....7	59.34.2220	22 pF			CE		N4
	C.....8	59.34.4560	56 pF			CE		N4
	C.....9	59.34.5471	470 pF			CE		N4
	C....10	59.22.3471	470 uF	-20%	6V	EL		N5
	C....11	59.22.3101	100 uF	-20%	10V	EL		N4
	C....12	59.22.6220	22 uF	-20%	16V	EL		N4
	C....13	59.34.2330	33 pF			CE		N4
	C....14	59.22.2221	220 uF	-20%	6V	EL		N4
	C....15	59.22.3101	100 uF	-20%	10V	EL		N4
	C....16	. . 0	not used					N4
	C....17	. . 0	not used					N4
	C....18	. . 0	not used					N4
	C....19	. . 0	not exist					
	C....20	. . 0	not exist					
	C....21	. . 0	not used					N4
	C....22	59.22.3101	100 uF	-20%	10V	EL		C3
	C....23	59.22.3101	100 uF	-20%	10V	EL		C2
	C....24	59.34.5471	470 pF			CE		C2
	C....25	59.05.1102	1 nF	1%	500V	PP		C2
	C....26	59.05.1102	1 nF	1%	500V	PP		C2
	C....27	59.34.7151	150 pF	2%		CE		M2
	C....28	59.34.7151	150 pF	2%		CE		M2
	C....29	59.22.3101	100 uF	-20%	10V	EL		M3
	C....30	59.34.5471	470 pF			CE		M2
	C....31	59.05.1102	1 nF	1%	500V	PP		M2
	C....32	59.05.1102	1 nF	1%	500V	PP		M2
	C....33	59.06.5152	1.5 nF	10%		PE		M2
	C....34	59.22.2221	220 uF	-20%	6V	EL		M2
	C....35	59.34.2470	47 pF			CE		M2
	C....36	59.22.3101	100 uF	-20%	10V	EL		M2
	C....37	. . 0	not used					M2
	C....38	. . 0	not used	A				M1
	C....39	. . 0	not used	A				M1
	C....40	. . 0	not used	A				M1
	C....41	. . 0	not used	A				M1
	C....42	. . 0	not used	A				M0
	C....43	. . 0	not used	A				M0
	C....44	. . 0	not used	A				M1
	C....45	. . 0	not used	A				M1
	C....46	. . 0	not used	A				M1
	C....47	. . 0	not used	A				M1
	C....48	. . 0	not used	A				M1
	C....49	. . 0	not used	A				M1
	C....50	. . 0	not used	A				M0
	C....51	. . 0	not used	A				M0
	C....52	59.06.0104	100 nF			PE		M1
	C....53	59.06.0104	100 nF			PE		M1
	C....54	. . 0	not used	A				M1
	C....55	. . 0	not used	A				M1
	C....56	. . 0	not used	A				M1
	C....57	59.06.0104	100 nF			PE		I3
	C....58	. . 0	not exist					
	C....59	. . 0	not exist					
	C....60	. . 0	not exist					
	C....61	59.22.3101	100 uF	-20%	10V	EL		L2
	C....62	59.34.7151	150 pF	2%		CE		L2
	C....63	59.22.6220	22 uF	-20%	16V	EL		L2
	C....64	. . 0	not used	A				L2
	C....65	. . 0	not used	A				L3
01	C....65	59.34.7151	150 pF	2%		CE		L3
	C....66	. . 0	not used	A				L2
	C....67	. . 0	not exist					
	C....68	. . 0	not exist					
	C....69	59.22.6220	22 uF	-20%	16V	EL		L4
	C....70	59.34.7151	150 pF	2%		CE		M5
	C....71	59.22.3101	100 uF	-20%	10V	EL		L5
	C....72	59.22.6100	10 uF	-20%	10V	EL		L5
	C....73	59.22.6100	10 uF	-20%	10V	EL		L6
	C....74	59.06.0104	100 nF			PE		I6
	C....75	59.22.6220	22 uF	-20%	16V	EL		L4
	C....76	59.34.0229	2.2 pF			CE		L5
	C....77	59.22.3101	100 uF	-20%	10V	EL		L5
	C....78	. . 0	not exist					
	C....79	. . 0	not exist					
	C....80	59.06.0224	220 nF			PE		L5
	C....81	59.22.6220	22 uF	-20%	16V	EL		I5

Ad	..POS..	...REF.No...	DESCRIPTION					MANUFACTURER
	C....82	59.34.7151	150 pF	2%		CE		I4
	C....83	59.22.3101	100 uF	-20%	10V	EL		I4
	C....84	59.06.0104	100 nF			PE		K4
	C....85	59.06.0104	100 nF			PE		K4
	C....86	59.22.6220	22 uF	-20%	16V	EL		K5
	C....87	59.34.7151	150 pF	2%		CE		K4
	C....88	59.22.3101	100 uF	-20%	10V	EL		K4
	C....89	59.22.3470	47 uF	-20%	10V	EL		K6
	C....90	59.22.3470	47 uF	-20%	10V	EL		K6
	C....91	59.06.5334	330 nF	1%		PE		K7
	C....92	59.32.4152	1.5 nF			CE		K5
	C....93	59.06.5334	330 nF	1%		PE		I7
	C....94	59.22.6220	22 uF	-20%	16V	EL		I6
	C....95	59.34.2330	33 pF			CE		K6
	C....96	59.22.3101	100 uF	-20%	10V	EL		K6
	C....97	. . 0	not used					A7
	C....98	. . 0	not used					A7
	C....99	. . 0	not used					A7
	C...100	59.32.4152	1.5 nF			CE	(LS)	H5
	C...101	59.22.3101	100 uF	-20%	10V	EL		H3
	C...102	59.22.3101	100 uF	-20%	10V	EL		I3
	C...103	59.22.3101	100 uF	-20%	10V	EL		I3
	C...104	59.34.7151	150 pF	2%		CE		I3
	C...105	59.34.4101	100 pF			CE		I3
	C...106	59.06.0104	100 nF			PE		I0
	C...107	59.06.0104	100 nF			PE		I0
	C...108	59.22.2221	220 uF	-20%	6V	EL		I2
	C...109	59.22.2221	220 uF	-20%	6V	EL		I2
	C...110	. . 0	not used	A				K4
	C...111	. . 0	not used	A				K3
	C...112	. . 0	not used	A				K3
	C...113	. . 0	not used	A				K3
	C...114	. . 0	not used	A				I3
	C...115	59.34.4101	100 pF			CE		I3
	C...116	59.34.2220	22 pF			CE		H3
	C...117	. . 0	not used	A				K2
	C...118	. . 0	not used	A				K2
	C...119	. . 0	not used	A				K4
	C...120	. . 0	not used	A				I3
	C...121	59.22.3101	100 uF	-20%	10V	EL		G3
	C...122	59.06.0104	100 nF			PE		G5
	C...123	59.06.0104	100 nF			PE		G5
	C...124	59.22.3101	100 uF	-20%	10V	EL		H5
	C...125	59.22.3101	100 uF	-20%	10V	EL		H5
	C...126	59.22.6220	22 uF	-20%	16V	EL		H5
	C...127	59.22.6220	22 uF	-20%	16V	EL		H5
	C...128	59.05.2472	4700 pF	2.5%		PP		I5
	C...129	59.05.2152	1500 pF	2.5%		PP		I6
	C...130	59.06.0682	6.8 nF			PE		H6
	C...131	59.06.0682	6.8 nF			PE		I6
	C...132	59.05.2472	4700 pF	2.5%		PP		H6
	C...133	59.05.2472	4700 pF	2.5%		PP		H5
	C...134	59.22.6220	22 uF	-20%	16V	EL		H5
	C...135	59.22.3101	100 uF	-20%	10V	EL		H5
	C...136	59.22.3101	100 uF	-20%	10V	EL		H5
	C...137	59.06.0682	6.8 nF			PE		H6
	C...138	59.06.0682	6.8 nF			PE		H5
	C...139	59.22.6220	22 uF	-20%	16V	EL		G5
	C...140	59.22.3101	100 uF	-20%	10V	EL		G5
	C...141	59.99.1400	15 nF	2.5%		PP		G6
	C...142	59.99.1400	15 nF	2.5%		PP		G5
	C...143	59.22.6220	22 uF	-20%	16V	EL		G5
	C...144	59.22.3101	100 uF	-20%	10V	EL		G5
	C...145	59.22.3101	100 uF	-20%	10V	EL		G5
	C...146	59.06.0682	6.8 nF			PE		G6
	C...147	59.06.0682	6.8 nF			PE		G6
	C...148	59.22.6220	22 uF	-20%	16V	EL		G5
	C...149	59.22.3101	100 uF	-20%	10V	EL		G5
	C...150	59.22.6220	22 uF	-20%	16V	EL		F5
	C...151	59.22.3101	100 uF	-20%	10V	EL		F5
	C...152	59.12.7104	100 nF	1%		PS		F5
	C...153	59.06.0682	6.8 nF			PE		E5
	C...154	59.06.0682	6.8 nF			PE		F6
	C...155	59.12.7333	33 nF	1%		PS		F6
	C...156	59.22.6220	22 uF	-20%	16V	EL		E5
	C...157	59.22.3101	100 uF	-20%	10V	EL		E5
	C...158	59.22.3101	100 uF	-20%	10V	EL		F3
	C...159	. . 0	not exist					
	C...160	. . 0	not exist					
	C...161	59.22.3101	100 uF	-20%	10V	EL		K0
	C...162	59.22.3101	100 uF	-20%	10V	EL		K0
	C...163	59.34.7151	150 pF	2%		CE		K1
	C...164	59.34.7151	150 pF	2%		CE		K1
	C...165	59.22.3101	100 uF	-20%	10V	EL		I1
	C...166	. . 0	not used	A				I0
	C...167	. . 0	not used	A				I0
	C...168	. . 0	not used	A				I1
	C...169	. . 0	not used	A				I1
	C...170	. . 0	not used	A				I1
	C...171	59.22.6220	22 uF	-20%	16V	EL		G3
	C...172	59.34.7151	150 pF	2%		CE		G3
	C...173	59.22.3101	100 uF	-20%	10V	EL		G2
	C...174	59.34.7151	150 pF	2%		CE		G3
	C...175	59.22.3101	100 uF	-20%	10V	EL		G2
	C...176	. . 0	not used	A				H3
	C...177	. . 0	not used	A				H3
	C...178	. . 0	not used	A				H2
	C...179	. . 0	not used	A				H3

INPUT UNIT MONO B

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Ad	..POS..	...REF.No...	DESCRIPTION					MANUFACTURER
	C...180	. . 0	not used	A				H2
	C...181	59.26.1220	22 uF	-20%	10V	SAL		F4
	C...182	59.26.5109	1 uF	-20%	10V	SAL		F4
	C...183	59.34.2330	33 pF	2%		CE		D4
	C...184	59.22.3471	470 uF	-20%	10V	EL		D4
	C...185	. . 0	not used	A				F3
	C...186	. . 0	not used	A				F3
	C...187	. . 0	not used	A				D3
	C...188	. . 0	not used	A				D3
	C...189	59.06.0104	100 nF			PE		D3
	C...190	59.06.0104	100 nF			PE		D3
	C...191	59.22.3101	100 uF	-20%	10V	EL		D6
	C...192	59.34.7151	150 pF	2%		CE		D6
	C...193	59.22.6220	22 uF	-20%	16V	EL		D6
	C...194	59.22.3101	100 uF	-20%	10V	EL		D6
	C...195	59.34.7151	150 pF	2%		CE		D6
	C...196	59.22.6220	22 uF	-20%	16V	EL		D6
	C...197	59.22.3101	100 uF	-20%	10V	EL		C6
	C...198	59.34.7151	150 pF	2%		CE		C6
	C...199	59.22.6220	22 uF	-20%	16V	EL		C6
	C...200	59.22.3101	100 uF	-20%	10V	EL		C6
	C...201	59.34.7151	150 pF	2%		CE		D6
	C...202	59.22.6220	22 uF	-20%	16V	EL		C6
	C...203	59.22.3101	100 uF	-20%	10V	EL		B6
	C...204	59.34.7151	150 pF	2%		CE		B6
	C...205	59.22.6220	22 uF	-20%	16V	EL		B6
	C...206	59.22.3101	100 uF	-20%	10V	EL		C6
	C...207	59.34.7151	150 pF	2%		CE		C6
	C...208	59.22.6220	22 uF	-20%	16V	EL		C6
	C...209	59.06.0104	100 nF			PE		D5
	C...210	59.06.0104	100 nF			PE		D5
	C...211	. . 0	not used					D5
	C...212	59.34.5561	560 pF			CE		B2
	C...213	59.34.5561	560 pF			CE		B2
	C...214	59.34.4101	100 pF			CE		E4
	C...215	. . 0	not used	A				E3
	C...216	59.06.0104	100 nF			PE		B3
	C...217	59.22.6220	22 uF	-20%	16V	EL		C3
	C...218	59.34.7151	150 pF	2%		CE		C3
	C...219	59.22.3101	100 uF	-20%	10V	EL		C3
	C...220	59.22.6220	22 uF	-20%	16V	EL		B3
	C...221	59.34.7151	150 pF	2%		CE		B3
	C...222	59.22.3101	100 uF	-20%	10V	EL		B3
	C...223	. . 0	not used	A				B3
	C...224	. . 0	not used	A				B3
	C...225	. . 0	not used	A				B3
	C...226	. . 0	not used	A				B3
	C...227	. . 0	not used	A				A3
	C...228	. . 0	not used	A				B3
	C...229	59.06.0104	100 nF			PE		M5
	C...230	59.06.0104	100 nF			PE		M5
	C...231	. . 0	not used	A				N5
	C...232	. . 0	not used	A				N5
	C...233	. . 0	not used	A				N6
	C...234	. . 0	not used	A				N6
	C...235	59.34.2220	22 pF	2%		CE		N6
	C...236	59.34.2220	22 pF	2%		CE		N6
	C...237	59.22.3101	100 uF	-20%	10V	EL		M6
	C...238	59.34.2220	22 pF	2%		CE		M6
	C...239	59.34.2220	22 pF	2%		CE		M6
	C...240	59.22.3101	100 uF	-20%	10V	EL		M6
	C...241	59.22.6220	22 uF	-20%	16V	EL		I1
	C...242	59.34.7151	150 pF	2%		CE		I1
	C...243	59.22.6220	22 uF	-20%	16V	EL		H1
	C...244	59.34.7151	150 pF	2%		CE		H1
	C...245	. . 0	not used					C0
	C...246	59.22.4101	100 uF	-20%	16V	EL		B0
	C...247	59.22.4101	100 uF	-20%	16V	EL		B0
	C...248	59.22.4101	100 uF	-20%	16V	EL		B0
	C...249	59.06.0104	100 nF			PE		B0
	C...250	59.06.0104	100 nF			PE		B0
	C...251	59.06.0104	100 nF			PE		B0
	C...252	59.34.7151	150 pF			CE		B1
	C...253	59.34.5561	560 pF			CE		C1
	C...254	59.22.4471	470 uF	-20%	16V	EL		A1
	C...255	59.22.4101	100 uF	-20%	16V	EL		A1
	C...256	. . 0	not exist					
	C...257	59.22.3101	100 uF	-20%	10V	EL		N6
	C...258	59.06.5103	10 nF			PE		C0
	C...259	. . 0	not used	A				L7
	C...260	. . 0	not used	A				L6
	C...261	. . 0	not used	A				M1
	C...262	. . 0	not used	A				L1
	C...263	. . 0	not used	A				M1
	C...264	. . 0	not used	A				L1
	C...265	. . 0	not used	A				M0
	C...266	. . 0	not used	A				L0
	C...267	. . 0	not exist					
	C...268	. . 0	not exist					
	C...269	. . 0	not used					G9
	C...270	59.22.3101	100 uF	-20%	10V	EL		M6
	C...271	59.22.3101	100 uF	-20%	10V	EL		N7
	C...272	59.22.3101	100 uF	-20%	10V	EL		N7
	C...273	59.22.3101	100 uF	-20%	10V	EL		L1
	C...274	59.22.3101	100 uF	-20%	10V	EL		L1
	C...275	59.34.7151	150 pF	2%		CE		L1
	C...276	59.34.4101	100 pF			CE		L1

Ad	..POS..	...REF.No...	DESCRIPTION					MANUFACTURER
	C...277	. . 0	not used					L1
	C...278	. . 0	not exist					
	C...279	59.22.2221	220 uF	-20%	6V	EL		L0
	C...280	59.22.2221	220 uF	-20%	6V	EL		L0
	C...281	59.06.5103	10 nF			PE		A1
	C...282	59.34.2330	33 pF			CE		G2
	C...283	59.34.2330	33 pF			CE		H5
	C...284	59.34.2330	33 pF			CE		H5
	C...285	59.34.2330	33 pF			CE		G5
	C...286	59.34.2330	33 pF			CE		E5
	C...287	59.34.2330	33 pF			CE		F2
	C...288	. . 0	not used	A				M2
	C...289	59.34.2220	22 pF			CE		L2
	C...290	59.34.2330	33 pF			CE		M6
	C...291	59.34.2330	33 pF			CE		M6
	C...292	. . 0	not used	A				G3
	C...293	. . 0	not used	A				G3
	C...294	. . 0	not used	A				G3
	C...295	59.06.0104	100 nF			PE		K4
	C...296	59.06.0104	100 nF			PE		K4
	C...297	59.06.5103	10 nF			PE	(LS)	B2
	C...501	59.06.5103	10 nF			PE	(LS)	H7
	C...502	. . 0	not exist					
	C...503	59.06.0104	100 nF			PE		N7
	C...504	. . 0	not used	A				L7
	C...505	. . 0	not used	A				L7
	C...506	. . 0	not used	A				L8
	C...507	59.34.4101	100 pF			CE		L7
	C...508	. . 0	not used	A				L7
01	C...508	59.34.4101	100 pF			CE		L7
	C...509	. . 0	not used	A				L7
	C...510	. . 0	not used	A				L7
	C...511	. . 0	not used	A				L7
	C...512	. .	not used					N8
	C...513	59.34.2330	33 pF			CE		N7
	C...514	. . 0	not used	A				L8
	C...515	. . 0	not used					L8
	C...516	. . 0	not used	A				L8
	C...517	. . 0	not used	A				L8
	C...518	59.34.4101	100 pF			CE		L8
	C...519	59.34.4101	100 pF			CE		L7
	C...520	. . 0	not used	A				L7
	C...521	. . 0	not used	A				L8
	C...522	59.34.4221	220 pF			CE		N9
	C...523	59.34.4101	100 pF			CE		N9
	C...524	59.34.4101	100 pF			CE		N8
	C...525	. . 0	not used					N9
	C...526	59.34.4101	100 pF			CE		M8
	C...527	59.34.4101	100 pF			CE		M8
	C...528	59.34.4101	100 pF			CE		M8
	C...529	. . 0	not used	A				L8
	C...530	. . 0	not exist					
	C...531	. . 0	not exist					
	C...532	. . 0	not exist					
	C...533	. . 0	not exist					
	C...534	. . 0	not used	A				M8
	C...535	. . 0	not used	A				M7
	C...536	. . 0	not used					M7
	C...537	. . 0	not used	A				M7
01	C...537	59.34.4101	100 pF			CE		M7
	C...538	. . 0	not used					N8
	C...539	. . 0	not exist					
	C...540	. . 0	not exist					
	C...541	. . 0	not exist					
	C...542	. . 0	not exist					M8
	C...543	. . 0	not exist					
	C...544	. . 0	not exist					
	C...545	. . 0	not used					A7
	C...546	59.34.4101	100 pF			CE		G7
	C...547	59.34.4101	100 pF			CE		G7
	C...548	. . 0	not used	A				G8
	C...549	59.34.4101	100 pF			CE		E5
	C...550	. . 0	not used	A				H7
	C...551	. . 0	not used	A				H7
	C...552	. . 0	not used	A				H7
	C...553	. . 0	not used	A				H7
	C...554	59.34.4101	100 pF			CE		H8
	C...555	. . 0	not used	A				H4
	C...556	59.99.1101	100 pF			CE		G9
	C...557	. . 0	not used	A				E5
	C...558	59.34.4101	100 pF			CE		H8
	C...559	59.34.4101	100 pF			CE		H8
	C...560	. . 0	not used	A				H8
	C...561	. . 0	not used	A				H8
	C...562	59.99.1101	100 pF			CE		H8
	C...563	59.34.4101	100 pF			CE		H7
	C...564	. . 0	not used	A				H8
	C...565	. . 0	not used	A				H7
	C...566	59.99.1101	100 pF			CE		H8
	C...567	. . 0	not used	A				H8
	C...568	. . 0	not used	A				H8
	C...569	. . 0	not used	A				H8
	C...570	. . 0	not used	A				H7
	C...571	. . 0	not used	A				H7
	C...572	. . 0	not used	A				H7
	C...573	. . 0	not used	A				H7
	C...574	59.34.4101	100 pF			CE		I8

INPUT UNIT MONO B

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Ad	..POS..	...REF.No...	DESCRIPTION.....			MANUFACTURER
C...575	. . 0	not used	A			I8
C...576	. . 0	not used	A			I7
C...577	. . 0	not used	A			H7
C...578	. . 0	not exist				G8
C...579	. . 0	not used	A			I7
C...580	. . 0	not used	A			I7
C...581	59.34.4101	100 pF		CE		I7
C...582	. . 0	not used	A			I7
C...583	59.99.1101	100 pF		CE		I7
C...584	59.99.1101	100 pF		CE		I7
C...585	59.34.4101	100 pF		CE		I7
C...586	59.34.4101	100 pF		CE		I7
C...587	. . 0	not used	A			K8
C...588	. . 0	not used	A			I9
C...589	59.34.4101	100 pF		CE		I9
C...590	59.34.4101	100 pF		CE		I8
C...591	59.34.4101	100 pF		CE		K8
C...592	. . 0	not used	A			K8
C...593	59.34.4101	100 pF		CE		K8
C...594	59.34.4101	100 pF		CE		K8
C...595	. . 0	not used	A			K8
C...596	59.34.4101	100 pF		CE		L8
C...597	59.34.4101	100 pF		CE		K7
C...598	59.34.4101	100 pF		CE		K8
C...599	. . 0	not used	A			K8
C...600	59.34.4101	100 pF		CE		K8
C...601	59.34.4101	100 pF		CE		K8
C...602	. . 0	not used	A			L8
C...603	. . 0	not used	A			K7
C...604	59.34.4101	100 pF		CE		K7
C...605	59.99.1101	100 pF		CE		I7
C...606	59.34.4101	100 pF		CE		K7
C...607	. . 0	not used	A			L8
C...608	59.34.4101	100 pF		CE		L8
C...609	. . 0	not used	A			L7
C...610	. . 0	not used	A			L7
C...611	. . 0	not used				K8
C...612	. . 0	not used	A			B7
C...613	59.34.4101	100 pF		CE		B7
C...614	. . 0	not used	A			B7
C...615	. . 0	not used	A			A7
C...616	59.34.4101	100 pF		CE		B7
C...617	59.34.4101	100 pF		CE		C7
C...618	. . 0	not used	A			B7
C...619	59.34.4101	100 pF		CE		B7
C...620	59.34.4101	100 pF		CE		D7
C...621	. . 0	not used	A			D7
C...622	59.34.4101	100 pF		CE		D7
C...623	. . 0	not used	A			D6
C...624	. . 0	not used	A			C7
C...625	59.34.4101	100 pF		CE		C7
C...626	59.34.4101	100 pF		CE		C7
C...627	. . 0	not used	A			D5
C...628	59.34.4101	100 pF		CE		E8
C...629	. . 0	not used	A			D7
C...630	59.34.4101	100 pF		CE		C7
C...631	. . 0	not used	A			C7
C...632	. . 0	not used	A			E8
C...633	. . 0	not used	A			E8
C...634	59.99.1101	100 pF		CE		E8
C...635	59.99.1101	100 pF		CE		E8
C...636	59.34.4101	100 pF		CE		F8
C...637	59.34.4101	100 pF		CE		E5
C...638	. . 0	not used	A			E5
C...639	. . 0	not used	A			F8
C...640	. . 0	not used	A			F8
C...641	59.34.4101	100 pF		CE		F8
C...642	. . 0	not used	A			F8
C...643	. . 0	not used	A			F8
C...644	59.34.4101	100 pF		CE		D5
C...645	59.34.4101	100 pF		CE		D5
C...646	59.34.4101	100 pF		CE		C7
C...647	. . 0	not used	A			D7
C...648	59.34.4101	100 pF		CE		E5
C...649	. . 0	not used	A			E5
C...650	. . 0	not used	A			E5
C...651	. . 0	not used	A			E5
C...652	. . 0	not used				F8
C...653	59.06.0104	100 nF		PE		A8
C...654	59.06.0104	100 nF		PE		A8
C...655	59.34.7151	150 pF	2%	CE		A9
C...656	. . 0	not used				
C...657	59.34.4221	220 pF		CE		G9
C...658	. . 0	not used				F9
C...659	59.06.5103	10 nF		PE		A8
D.....1	50.04.0125	1N4448				any N4
D.....2	50.04.0125	1N4448				any N4
D.....3	50.04.0125	1N4448				any K5
D.....4	50.04.0125	1N4448				any L4
D.....5	. . 0	not used	A			L2
D.....6	50.04.0125	1N4448				any L4
D.....7	50.04.0125	1N4448				any L5
D.....8	50.04.0125	1N4448				any K5
D.....9	50.04.0125	1N4448				any K5
D....10	50.04.0125	1N4448				any K4
D....11	50.04.0125	1N4448				any K4
D....12	50.04.0125	1N4448				any F4

Ad	..POS..	...REF.No...	DESCRIPTION.....			MANUFACTURER
D....13	50.04.0125	1N4448				any I4
D....14	50.04.0125	1N4448				any K0
D....15	50.04.0125	1N4448				any H2
D....16	. . 0	not used	A			H2
D....17	. . 0	not used	A			K0
D....18	50.04.0125	1N4448				any E4
D....19	. . 0	not used	A			E3
D....20	50.04.0125	1N4448				any D4
D....21	. . 0	not used				K0
D....22	. . 0	not used	A			D4
D....23	. . 0	not used				K0
D....24	50.04.1118	6V2		z-diode		any L4
D....25	50.04.0125	1N4448				any K5
D....26	50.04.0122	1N4001		1A / 50V		any B0
D....27	50.04.0122	1N4001		1A / 50V		any B0
D....28	50.04.0125	1N4448				any B1
D....29	50.04.0125	1N4448				any B1
D....30	50.04.0125	1N4448				any B1
D....31	50.04.0125	1N4448				any B1
D....32	50.04.0122	1N4001		1A / 50V		any B1
D....33	50.04.0122	1N4001		1A / 50V		any B1
D....34	50.04.0125	1N4448				any B1
D....35	50.04.0125	1N4448				any B1
D....36	50.04.0125	1N4448				any A5
D....37	50.04.0125	1N4448				any A5
D....38	50.04.0127	BAT 85		schottky		any A9
D....39	50.04.0127	BAT 85		schottky		any A9
D....40	. . 0	not used	A			K2
D....41	. . 0	not used	A			M2
D....42	50.04.0125	1N4448				any L2
D....43	50.04.0125	1N4448				any L2
D....44	50.04.0125	1N4448				any A8
D....45	50.04.0122	1N4001		1A / 50V		any C0
D....46	50.04.0122	1N4001		1A / 50V		any C0
D....47	50.04.0125	1N4448				any M9
D...501	50.04.0125	1N4448				any A5
D...502	50.04.0125	1N4448				any A4
D...503	50.04.0125	1N4448				any A4
D...504	50.04.0125	1N4448				any A5
D...505	50.04.0125	1N4448				any A4
D...506	50.04.0125	1N4448				any A4
D...507	50.04.0125	1N4448				any A4
D...508	50.04.0125	1N4448				any A5
D...509	50.04.0125	1N4448				any A4
D...510	50.04.0125	1N4448				any A4
D...511	50.04.0125	1N4448				any A5
D...512	50.04.0125	1N4448				any A4
D...513	50.04.0125	1N4448				any A4
D...514	50.04.0125	1N4448				any A4
D...515	50.04.0125	1N4448				any M8
D...516	50.04.0125	1N4448				any M7
D...517	50.04.0125	1N4448				any M9
D...518	50.04.0125	1N4448				any M8
D...519	50.04.0125	1N4448				any M8
D...520	. . 0	not used				G9
D...521	50.04.0125	1N4448				any A7
D...522	50.04.0127	BAT 85		schottky		any A7
D...523	50.04.0127	BAT 85		schottky		any A8
D...524	50.04.0125	1N4448				any A8
D...525	. . 0	not used				D7
D...526	50.04.0125	1N4448				any A5
D...527	50.04.0125	1N4448				any A4
D...528	50.04.0125	1N4448				any A5
D...529	50.04.0125	1N4448				any A4
D...530	50.04.0125	1N4448				any A4
D...531	50.04.0125	1N4448				any A3
D...532	. . 0	not used				
D...533	. . 0	not used				
IC....1	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot M4
IC....2	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot N2
IC....3	. . 0	not used	A			N1
IC....4	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot L2
IC....5	50.07.0015	CD4053	3*2 channel analog mux/demux			Ph,Mot,RCA M3
IC....6	. . 0	not used	A			L3
IC....7	. . 0	not used	A			M2
IC....8	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot L4
IC....9	50.07.0037	AD7528JN	D/A converter 8 bit dual multiplexer			ADI L5
IC...10	50.07.0015	CD4053	3*2 channel analog mux/demux			Ph,Mot,RCA K5
IC...11	50.07.0015	CD4053	3*2 channel analog mux/demux			Ph,Mot,RCA K5
IC...12	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot K5
IC...13	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot K5
IC...14	. . 0	not used	A			H4
IC...15	50.07.0015	CD4053	3*2 channel analog mux/demux			Ph,Mot,RCA H4
IC...16	50.07.0015	CD4053	3*2 channel analog mux/demux			Ph,Mot,RCA I4
IC...17	. . 0	not used	A			I4
IC...18	50.09.0117	MC33078	dual	op. amp.	lowe noise	Mot H2
IC...19	50.09.0101	TL072	dual	op. amp.	FET	TI I5
IC...20	. . 0	not used	A			K3
IC...21	. . 0	not used	A			K3
IC...22	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot F2
IC...23	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot I5
IC...24	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot H5
IC...25	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot G5
IC...26	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot F5
IC...27	50.09.0117	MC33078P	dual	op. amp.	low noise	Mot I1
IC...28	50.07.0015	CD4053	3*2 channel analog mux/demux			Ph,Mot,RCA H4
IC...29	50.07.0015	CD4053	3*2 channel analog mux/demux			Ph,Mot,RCA G4

INPUT UNIT MONO B

1.990.220.81

Ad	..POS..	...REF.No...	DESCRIPTION		MANUFACTURER	
IC...	30	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	G4
IC...	31	. . 0	not used	A		F4
IC...	32	50.09.0106	NE5532AN	dual op. amp. low noise	Ex,Ra,Sig	G3
IC...	33	. . 0	not used	A		H3
IC...	34	50.09.0106	NE5532AN	dual op. amp. low noise	Ex,Ra,Sig	E4
IC...	35	. . 0	not exist			
IC...	36	. . 0	not used	A		E3
IC...	37	. . 0	not exist			
IC...	38	. . 0	not exist			
IC...	39	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	D0
IC...	40	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	D1
IC...	41	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	D0
IC...	42	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	D1
IC...	43	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	C1
IC...	44	50.09.0117	MC33078P	dual op. amp. low noise	Mot	D6
IC...	45	50.09.0117	MC33078P	dual op. amp. low noise	Mot	C6
IC...	46	50.09.0117	MC33078P	dual op. amp. low noise	Mot	C6
IC...	47	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	D4
IC...	48	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	D4
IC...	49	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	C5
IC...	50	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	C5
IC...	51	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	C5
IC...	52	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	B5
IC...	53	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	B5
IC...	54	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	B5
IC...	55	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	L3
IC...	56	. . 0	not used	A		C4
IC...	57	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	B4
IC...	58	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	B4
IC...	59	. . 0	not used	A		B4
IC...	60	50.09.0106	NE5532AN	dual op. amp. low noise	Ex,Ra,Sig	B3
IC...	61	. . 0	not used	A		B3
IC...	62	. . 0	not used	A		N6
IC...	63	50.09.0117	MC33078P	dual op. amp. low noise	Mot	M5
IC...	64	. . 0	not used	A		M7
IC...	65	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	M7
IC...	66	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	M7
IC...	67	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	E1
IC...	68	. . 0	not used	A		E0
IC...	69	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	E1
IC...	70	. . 0	not used	A		E0
IC...	71	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	E1
IC...	72	. . 0	not used	A		E0
IC...	73	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	H1
IC...	74	50.09.0106	NE5532AN	dual op. amp. low noise	Ex,Ra,Sig	H0
IC...	75	1.010.051.50	NE5532AN	dual op. amp. low offset <1mV	St	B2
IC...	76	50.09.0117	MC33078P	dual op. amp. low noise	Mot	C1
IC...	77	. . 0	not used	A		L6
IC...	78	50.09.0101	TL072	dual op. amp. FET	TI	L2
IC...	79	. . 0	not used	A		M1
IC...	80	50.09.0117	MC33078P	dual op. amp. low noise	Mot	N6
IC...	81	50.09.0106	NE5532AN	dual op. amp. low noise	Ex,Ra,Sig	L1
IC...	82	. . 0	not used			K1
IC...	83	. . 0	not used			K1
IC...	84	. . 0	not exist			
IC...	85	50.09.0119	TL 062	dual fet op. amp.	Tho	A2
IC...	86	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	G0
IC...	87	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	G1
IC...	88	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	G0
IC...	89	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	G1
IC...	90	. . 0	not used	A		F1
IC...	91	. . 0	not used	A		F0
IC...	92	. . 0	not used	A		F1
IC...	93	. . 0	not used	A		F0
IC...	94	50.07.0015	CD4053	3*2 channel analog mux/demux	Ph,Mot,RCA	H0
IC...	95	1.010.051.50	NE5532AN	dual op. amp. low offset <1mV	St	C1
IC..	501	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	M8
IC..	502	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	L8
IC..	503	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	L9
IC..	504	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	M9
IC..	505	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	M9
IC..	506	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	M9
IC..	507	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	M8
IC..	508	50.07.0014	40106	hex.schmitt-trig. S MC14584; 40014	Ph,Mot	M8
IC..	509	50.07.0049	4049	hex inverting buffer CMOS	Ph,To	E9
IC..	510	50.07.0049	4049	hex inverting buffer CMOS	Ph,To	D8
IC..	511	50.07.0049	4049	hex inverting buffer CMOS	Ph,To	C8
IC..	512	50.07.0049	4049	hex inverting buffer CMOS	Ph,To	C9
IC..	513	50.07.0049	4049	hex inverting buffer CMOS	Ph,To	B8
IC..	514	50.07.0049	4049	hex inverting buffer CMOS	Ph,To	B9
IC..	515	50.07.0049	4049	hex inverting buffer CMOS	Ph,To	B8
IC..	516	50.07.0049	4049	hex inverting buffer CMOS	Ph,To	B9
IC..	517	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	E8
IC..	518	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	D8
IC..	519	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	C8
IC..	520	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	C8
IC..	521	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	B8
IC..	522	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	A8
IC..	523	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	I8
IC..	524	50.07.0511	4511	BCD to 7-segment latch/decod/drivr	Mot,To	I9
IC..	525	50.07.0511	4511	BCD to 7-segment latch/decod/drivr	Mot,To	I9
IC..	526	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	H8
IC..	527	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	H9
IC..	528	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	H9
IC..	529	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	H8
IC..	530	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	K8
IC..	531	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	K9
IC..	532	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	K9
IC..	533	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	K8
IC..	534	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	D8
IC..	535	50.07.0018	CD4094	shift and store bus register	Ph.Mot.RCA	E8
IC..	536	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	E9
IC..	537	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	F9
IC..	538	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	F8
IC..	539	50.09.0119	TL 062	dual fet op. amp.	Tho	A8
IC..	540	50.07.1021	CD4021	8-bit static shift register	Ph,Mot,RCA	A9
IC..	541	50.07.1021	CD4021	8-bit static shift register	Ph,Mot,RCA	B9
IC..	542	50.07.1021	CD4021	8-bit static shift register	Ph,Mot,RCA	C9
IC..	543	50.07.1021	CD4021	8-bit static shift register	Ph,Mot,RCA	C9
IC..	544	50.07.1021	CD4021	8-bit static shift register	Ph,Mot,RCA	D9
IC..	545	50.07.1021	CD4021	8-bit static shift register	Ph,Mot,RCA	D9
IC..	546	50.09.0103	TL 071	fet op. amp.	TI	A9
IC..	547	50.07.0018	CD4094	shift and store bus register	Ph,Mot,RCA	F9
IC..	548	50.07.0051	CD4051	8-channel analog mux/demux	Ph,Mot,RCA	F8
IC..	549	50.07.0051	CD4051	8-channel analog mux/demux	Ph,Mot,RCA	G8
IC..	550	50.07.0051	CD4051	8-channel analog mux/demux	Ph,Mot,RCA	G9
JSJ...	1	. . 0	not used	AUX 4		
JSJ...	2	. . 0	not used	AUX 5/6		
JSJ...	3	. . 0	not used	option film out C (Leiterbahn)		
JSJ...	4	. . 0	not used	option film out L (Leiterbahn)		
JSJ...	5	. . 0	not used	option film out S (Leiterbahn)		
JSJ...	6	. . 0	not used	option film out R (Leiterbahn)		
JSJ...	7	. . 0	not used	PF-L		
JSJ...	8	54.01.0021	Jumper	AF-L		D7
K.....	1	56.04.0195	TQ2-6V		SDS	N3
L.....	1	1.022.207.00		hf-sym.choke	St	N3
L.....	2	62.02.3220	22 uH	hf-choke-coil		B2
MP....	1	53.03.0166	29 pcs	IC-socket 8 pin		
MP....	2	. . 0	not exist			
MP....	3	53.03.0168	34 pcs	IC-socket 16 pin		
MP....	4	53.03.0165	1 pcs	IC-socket 20 pin		
MP....	5	. . 0	not exist			
MP....	6	43.01.0108	1 pcs	ESE-Warnschild	ST	
MP....	7	1.990.210.12	1 pcs	Input Mono PCB	St	
MP....	8	54.01.0020	6 pcs	Jumper plug		
MP....	9	54.11.0131	55 pcs	dual Pin (totaly 110 pins)		
MP...	10	1.990.210.06	1 pcs	Abschirmung A/D Input links		
MP...	11	1.990.210.07	1 pcs	Abschirmung A/D Input rechts		
MP...	12	21.01.0354	3 pcs	Z-Schr. M3*6		
MP...	13	24.16.1030	3 pcs	Rippensch. D 3.2/5.5		
MP...	14	21.01.2352	6 pcs	S-Schr. M3*4		
MP...	15	21.99.0117	7 pcs	Z-Schr. Nylon M3*6		
MP...	16	24.16.3023	2 pcs	Wellensicherung 2.3		
MP...	17	28.99.0119	6 pcs	Rohrnieten D 2.5*0.15*9		
MP...	18	42.01.0203	2 pcs	Drehknopf gr, D 10/4		
MP...	19	1.912.000.03	2 pcs	Drehring D 6.2/13		
MP...	20	42.01.0228	14 pcs	Knebelknopf gr, D 10/4		
MP...	21	42.01.0250	7 pcs	Deckel h'gr, D 10		
MP...	22	42.01.0251	5 pcs	Deckel d'gr, D 10		
MP...	23	42.01.0253	1 pcs	Deckel rt, D 10		
MP...	24	42.01.0254	1 pcs	Deckel bl, D 10		
MP...	25	42.01.0255	1 pcs	Deckel gb, D 10		
MP...	26	42.01.0256	1 pcs	Deckel gn, D 10		
MP...	27	1.010.022.21	2 pcs	Linsenschr. spez M3*8		
MP...	28	1.010.048.27	3 pcs	Mutterbolzen M3*32.5		
MP...	29	1.022.400.03	2 pcs	Trafo-Isolation		
MP...	30	1.990.100.02	2 pcs	Querprintstuetze links		
MP...	31	1.990.100.03	2 pcs	Querprintstuetze rechts		
MP...	32	1.990.200.03	1 pcs	Schirmblech Input		
MP...	33	1.990.200.05	9 pcs	Poti-Achsverlaengerung		
MP...	34	1.990.210.02	1 pcs	Traeger Input		
MP...	35	1.990.210.05	1 pcs	Fenster Input		
MP...	36	1.990.220.01	1 pcs	Frontschild Input		
MP...	37	1.010.366.64	1 pcs	Blankdraht D 0.6 L= 15mm		
MP...	38	. .	not exist			
MP...	39	. .	not exist			
MP...	40	. .	not used	A		
MP...	41	. .	not exist			
MP...	42	1.990.220.04	0 pcs	studer-nr._etikette 10 * 20		
P.....	1	. . 0	not exist			
P.....	2	. . 0	not exist			
P.....	3	. . 0	not exist			
P.....	4	. . 0	not exist			
P.....	5	. . 0	not exist			
P.....	6	54.11.2013	2*16pin	euroconnector	Ht,Ec	B0
P.....	7	54.11.2004	2*32pin	euroconnector	Ht,Ec	E0
P.....	8	. . 0	not used			I0
P.....	9	54.11.2004	2*32pin	euroconnector	Ht,Ec	M0
P...	501	54.16.0520	20pol	1/40 inch flatcable connector	Ya	K7
P...	502	54.16.0520	20pol	1/40 inch flatcable connector	Ya	G2
P...	503	54.16.0520	20pol	1/40 inch flatcable connector	Ya	E6
P...	504	54.16.0520	20pol	1/40 inch flatcable connector	Ya	E2
P...	505	54.16.0520	20pol	1/40 inch flatcable connector	Ya	E5
P...	506	54.16.0520	20pol	1/40 inch flatcable connector	Ya	E2
Q.....	1	50.03.0516	BC 337	NPN low noise	Sie	N4
Q.....	2	50.03.0350	J 112	N-JFET	NS,Mot,Six	M5
Q.....	3	50.03.0350	J 112	N-JFET	NS,Mot,Six	M5
Q.....	4	50.03.0350	J 112	N-JFET	NS,Mot,Six	M5
Q.....	5	50.03.1130	J 110	N-JFET	NS,Mot,Six	M5
Q.....	6	50.03.1130	J 110	N-JFET	NS,Mot,Six	M5
Q.....	7	50.03.0350	J 112	N-JFET	NS,Mot,Six	M5

INPUT UNIT MONO B

1.990.220.81

Ad	..POS..	...REF.No...	DESCRIPTION			MANUFACTURER
	Q.....8	50.03.0485	MPSA92	PNP	UCE >100V	Mot N8
	Q.....9	50.03.0485	MPSA92	PNP	UCE >100V	Mot N8
	Q....10	50.03.0436	BC 237	NPN	IC>100mA, B>100	any K5
	Q....11	50.03.0350	J 112	N-JFET		NS,Mot,Six H6
	Q....12	50.03.0350	J 112	N-JFET		NS,Mot,Six I6
	Q....13	50.03.0515	BC 307	PNP	IC>100mA, B>100	any H6
	Q....14	50.03.0515	BC 307	PNP	IC>100mA, B>100	any I6
	Q....15	50.03.0350	J 112	N-JFET		NS,Mot,Six H6
	Q....16	50.03.0350	J 112	N-JFET		NS,Mot,Six H6
	Q....17	50.03.0515	BC 307	PNP	IC>100mA, B>100	any H6
	Q....18	50.03.0515	BC 307	PNP	IC>100mA, B>100	any G6
	Q....19	50.03.0350	J 112	N-JFET		NS,Mot,Six G6
	Q....20	50.03.0350	J 112	N-JFET		NS,Mot,Six G6
	Q....21	50.03.0515	BC 307	PNP	IC>100mA, B>100	any G6
	Q....22	50.03.0515	BC 307	PNP	IC>100mA, B>100	any G6
	Q....23	50.03.0350	J 112	N-JFET		NS,Mot,Six E6
	Q....24	50.03.0350	J 112	N-JFET		NS,Mot,Six F6
	Q....25	50.03.0515	BC 307	PNP	IC>100mA, B>100	any F6
	Q....26	50.03.0340	BC 337	NPN	IC>800mA	NS,Mot,Six A0
	Q....27	50.03.0351	BC 327	PNP	IC>800mA	NS,Mot,Six A0
	Q....28	50.03.0351	BC 327	PNP	IC>800mA	NS,Mot,Six A0
	Q....29	. . 0	not exist			
	Q....30	. . 0	not exist			
	Q....31	. . 0	not exist			
	Q....32	. . 0	not exist			
	Q....33	. . 0	not used			H0
	Q....34	. . 0	not used			H0
	Q....35	50.03.0436	BC 237	NPN	IC>100mA, B>100	any A9
	Q....36	50.03.0436	BC 237	NPN	IC>100mA, B>100	any A8
	Q...501	50.03.0484	MPSA42	NPN	UCE >300V	Mot N8
	Q...502	50.03.0436	BC 237	NPN	IC>100mA, B>100	any N8
	Q...503	50.03.0515	BC 307	PNP	IC>100mA, B>100	any N8
	Q...504	50.03.0515	BC 307	PNP	IC>100mA, B>100	any N8
	Q...505	50.03.0515	BC 307	PNP	IC>100mA, B>100	any N8
	Q...506	50.03.0436	BC 237	NPN	IC>100mA, B>100	any N8
	Q...507	50.03.0515	BC 307	PNP	IC>100mA, B>100	any N8
	Q...508	50.03.0515	BC 307	PNP	IC>100mA, B>100	any N8
	Q...509	50.03.0436	BC 237	NPN	IC>100mA, B>100	any A7
	R.....1	57.11.3103	10 kOhm	1% 0.25W		N3
	R.....2	57.11.3103	10 kOhm	1% 0.25W		N3
	R.....3	57.11.3152	1.5 kOhm	1% 0.25W		N3
	R.....4	57.11.3152	1.5 kOhm	1% 0.25W		N3
	R.....5	57.11.3332	3.3 kOhm	5% 0.25W		N3
	R.....6	57.11.3103	10 kOhm	1% 0.25W		N4
	R.....7	57.11.3183	18 kOhm	5% 0.25W		N4
	R.....8	57.11.3183	18 kOhm	5% 0.25W		N4
	R.....9	57.11.3183	18 kOhm	5% 0.25W		N4
	R....10	57.11.3183	18 kOhm	5% 0.25W		N4
	R....11	57.11.3330	33 Ohm	5% 0.25W		N4
	R....12	57.11.3223	22 kOhm	5% 0.25W		N4
	R....13	57.11.3103	10 kOhm	5% 0.25W		N4
	R....14	57.11.3332	3.3 kOhm	5% 0.25W		N4
	R....15	57.11.3561	560 Ohm	1% 0.25W		N5
	R....16	57.11.3911	910 Ohm	1% 0.25W		N5
	R....17	57.11.3471	470 Ohm	1% 0.25W		N5
	R....18	57.11.3751	750 Ohm	1% 0.25W		N5
	R....19	57.11.3100	10 Ohm	1% 0.25W		N5
	R....20	57.11.3131	130 Ohm	1% 0.25W		N5
	R....21	57.11.3162	1.6 kOhm	1% 0.25W		N4
	R....22	57.11.3302	3 kOhm	1% 0.25W		N4
	R....23	57.11.3272	2.7 kOhm	1% 0.25W		N5
	R....24	57.11.3913	91 kOhm	1% 0.25W		N5
	R....25	57.11.3113	11 kOhm	1% 0.25W		N4
	R....26	57.11.3914	910 kOhm	1% 0.25W		N5
	R....27	57.11.3243	24 kOhm	1% 0.25W		N4
	R....28	57.11.5125	1.2 MOhm	5% 0.25W		N4
	R....29	57.11.3223	22 kOhm	5% 0.25W		N5
	R....30	57.11.3223	22 kOhm	5% 0.25W		N4
	R....31	57.11.3330	33 Ohm	5% 0.25W		N4
	R....32	. . 0	not exist			
	R....33	. . 0	not exist			
	R....34	. . 0	not exist			
	R....35	. . 0	not exist			
	R....36	57.11.3000	0 Ohm	0.25W		N9
	R....37	57.11.3394	390 kOhm	5% 0.25W		N9
	R....38	57.11.3394	390 kOhm	5% 0.25W		N9
	R....39	57.11.3104	100 kOhm	1% 0.25W		N3
	R....40	57.11.3104	100 kOhm	1% 0.25W		N3
	R....41	57.11.3332	3.3 kOhm	1% 0.25W		N3
	R....42	57.11.3332	3.3 kOhm	1% 0.25W		N3
	R....43	57.11.3222	2.2 kOhm	1% 0.25W		N3
	R....44	57.11.3222	2.2 kOhm	1% 0.25W		N3
	R....45	57.11.3272	2.7 kOhm	5% 0.25W		N2
	R....46	57.11.3242	2.4 kOhm	5% 0.25W		N3
	R....47	58.01.8501	500 Ohm	10% 0.25W	trimmer	N3
	R....48	57.11.3223	22 kOhm	5% 0.25W		N3
	R....49	57.11.3332	3.3 kOhm	1% 0.25W		N2
	R....50	57.11.3332	3.3 kOhm	1% 0.25W		N2
	R....51	57.11.3272	2.7 kOhm	1% 0.25W		N2
	R....52	57.11.3272	2.7 kOhm	1% 0.25W		N2
	R....53	57.11.3102	1 kOhm	5% 0.25W		N2
	R....54	57.11.3102	1 kOhm	5% 0.25W		N2
	R....55	57.11.3392	3.9 kOhm	5% 0.25W		N2
	R....56	57.11.3223	22 kOhm	5% 0.25W		N2
	R....57	. . 0	not used	A		N0
	R....58	. . 0	not used	A		N0
	R....59	. . 0	not used	A		N0
	R....60	. . 0	not used	A		N0
	R....61	. . 0	not used	A		N0
	R....62	. . 0	not used	A		N1
	R....63	. . 0	not used	A		N1
	R....64	. . 0	not used	A		N1
	R....65	. . 0	not used	A		N1
	R....66	. . 0	not used	A		N1
	R....67	. . 0	not used	A		N0
	R....68	. . 0	not used	A		N0
	R....69	. . 0	not used	A		N0
	R....70	. . 0	not used	A		N0
	R....71	. . 0	not used	A		N1
	R....72	. . 0	not used	A		N1
	R....73	. . 0	not used	A		N1
	R....74	. . 0	not used	A		N1
	R....75	. . 0	not used	A		N1
	R....76	. . 0	not used	A		N1
	R....77	. . 0	not exist			
	R....78	. . 0	not exist			
	R....79	. . 0	not exist			
	R....80	57.11.3330	33 Ohm	5% 0.25W		L2
	R....81	57.11.3223	22 kOhm	5% 0.25W		L2
	R....82	57.11.3822	8.2 kOhm	1% 0.25W		L2
	R....83	57.11.3473	47 kOhm	1% 0.25W		L2
	R....84	57.11.3101	100 Ohm	1% 0.25W		L2
	R....85	57.11.3101	100 Ohm	1% 0.25W		L2
	R....86	. . 0	not used	A		L3
	R....87	. . 0	not used	A		L3
	R....88	57.11.3682	6.8 kOhm	1% 0.25W		L4
	R....89	57.11.3682	6.8 kOhm	1% 0.25W		L3
	R....90	57.11.3682	6.8 kOhm	1% 0.25W		M3
	R....91	. . 0	not used	A		M4
	R....92	. . 0	not used	A		M2
	R....93	. . 0	not exist			
	R....94	. . 0	not used	A		M2
	R....95	. . 0	not used	A		M3
	R....96	. . 0	not used	A		L3
	R....97	57.11.3473	47 kOhm	1% 0.25W		L3
	R....98	. . 0	not exist			
	R....99	. . 0	not exist			
	R...100	. . 0	not exist			
	R...101	57.11.3822	8.2 kOhm	1% 0.25W		M4
	R...102	57.11.3223	22 kOhm	5% 0.25W		M5
	R...103	57.11.3473	47 kOhm	1% 0.25W		M4
	R...104	57.11.3824	820 kOhm	1% 0.25W		L4
	R...105	57.11.3824	820 kOhm	1% 0.25W		L5
	R...106	57.11.3512	5.1 kOhm	1% 0.25W		L5
	R...107	57.11.3105	1 MOhm	1% 0.25W		L5
	R...108	57.11.3564	560 kOhm	1% 0.25W		L5
	R...109	57.11.3102	1 kOhm	1% 0.25W		L4
	R...110	. . 0	not exist			
	R...111	58.05.1103	10 kOhm	10% 0.5 W	mehrgangtrimmer	I5
	R...112	57.11.3823	82 kOhm	1% 0.25W		I4
	R...113	57.11.3223	22 kOhm	5% 0.25W		K5
	R...114	57.11.3224	220 kOhm	5% 0.25W		K5
	R...115	57.11.3223	22 kOhm	5% 0.25W		K5
	R...116	57.11.3752	7.5 kOhm	1% 0.25W		K5
	R...117	57.11.3823	82 kOhm	1% 0.25W		K4
	R...118	57.11.3392	3.9 kOhm	5% 0.25W		K7
	R...119	57.11.3162	1.6 kOhm	1% 0.25W		K6
	R...120	. .	22 kOhm	10%	-log.-> R123 1.010.028.58 on A14 St	I6
	R...121	57.11.3104	100 kOhm	5% 0.25W		K6
	R...122	57.11.3162	1.6 kOhm	1% 0.25W		K6
	R...123	. .	22 kOhm	10%	-log. comb. with R120/R557	I6
	R...124	57.11.3104	100 kOhm	5% 0.25W		K7
	R...125	57.11.3392	3.9 kOhm	1% 0.25W		K6
	R...126	57.11.3682	6.8 kOhm	1% 0.25W		K7
	R...127	57.11.3682	6.8 kOhm	1% 0.25W		K6
	R...128	57.11.3223	22 kOhm	5% 0.25W		K7
	R...129	. . 0	not exist			
	R...130	. . 0	not exist			
	R...131	57.11.3104	100 kOhm	5% 0.25W		H3
	R...132	58.01.8202	2 kOhm	20%	trimmer	H3
	R...133	57.11.3562	5.6 kOhm	0.25W		I3
	R...134	57.99.0250	6.8 kOhm	0.1% 0.25W		H3
	R...135	57.99.0250	6.8 kOhm	0.1% 0.25W		H3
	R...136	57.11.3150	15 Ohm	1% 0.25W		I3
	R...137	57.11.3150	15 Ohm	1% 0.25W		I3
	R...138	. . 0	not used	A		I4
	R...139	57.11.3682	6.8 kOhm	1% 0.25W	(gesickt)	H4
	R...140	. . 0	not used	A		H4
	R...141	. . 0	not used	A		G4
	R...142	57.11.3682	6.8 kOhm	1% 0.25W	(gesickt)	G4
	R...143	. . 0	not used	A		G4
	R...144	57.11.3682	6.8 kOhm	1% 0.25W	(gesickt)	G4
	R...145	. . 0	not used	A		I4
	R...146	. . 0	not used	A		I4
	R...147	. . 0	not used	A		I4
	R...148	. . 0	not used	A		I4
	R...149	57.11.3682	6.8 kOhm	1% 0.25W	(gesickt)	I4
	R...150	57.11.5106	10 MOhm	5% 0.25W		K6
	R...151	57.11.5106	10 MOhm	5% 0.25W		I4
	R...152	57.11.3104	100 kOhm	5% 0.25W		K6
	R...153	. . 0	not exist			
	R...154	. . 0	not exist			
	R...155	. . 0	not exist			
	R...156	. . 0	not used	A		I3

INPUT UNIT MONO B

1.990.220.81

Ad	..POS..	...REF.No...	DESCRIPTION.....				MANUFACTURER	
R...157	. . 0	not used	A					K3
R...158	. . 0	not used	A					K4
R...159	. . 0	not used	A					K4
R...160	. . 0	not used	A					I3
R...161	. . 0	not used	A					K3
R...162	. . 0	not used	A					K3
R...163	57.11.3682	6.8 kOhm	1%	0.25W	(gesickt)			H4
R...164	. . 0	not used	A					G4
R...165	. . 0	not used	A					G4
R...166	57.11.3682	6.8 kOhm	1%	0.25W	(gesickt)			G4
R...167	57.11.3682	6.8 kOhm	1%	0.25W	(gesickt)			G4
R...168	. . 0	not used	A					H4
R...169	. . 0	not used	A					H4
R...170	. . 0	not used	A					H4
R...171	. . 0	not used	A					H4
R...172	. . 0	not used	A					H4
R...173	. . 0	not exist						
R...174	. . 0	not exist						
R...175	. . 0	not exist						
R...176	. . 0	not exist						
R...177	. . 0	not exist						
R...178	. . 0	not exist						
R...179	. . 0	not exist						
R...180	. . 0	not exist						
R...181	57.11.3104	100 kOhm	5%	0.25W				G3
R...182	58.01.8502	5 kOhm	20%		trimmer			F3
R...183	57.11.3562	5.6 kOhm		0.25W				G3
R...184	57.11.3121	120 Ohm	1%	0.25W				H6
R...185	1.010.108.58	4.7 kOhm	10%	lin	comb. with R559		St	H7
R...186	57.11.3121	120 Ohm	1%	0.25W				H6
R...187	57.11.3102	1 kOhm	1%	0.25W				H6
R...188	57.11.3103	10 kOhm	1%	0.25W				H5
R...189	57.11.3103	10 kOhm	1%	0.25W				H5
R...190	57.11.3684	680 kOhm	5%	0.25W				H5
R...191	57.11.3103	10 kOhm	1%	0.25W				H6
R...192	57.11.3684	680 kOhm	5%	0.25W				I5
R...193	57.11.3684	680 kOhm	5%	0.25W				I5
R...194	57.11.3392	3.9 kOhm	1%	0.25W				I5
R...195	. .	100 kOhm	10%	-log. -> R196 1.010.031.58 on A8			St	H6
R...196	. .	100 kOhm	10%	-log. comb. with R195/R556				H5
R...197	57.11.3392	3.9 kOhm	1%	0.25W				I5
R...198	57.11.3102	1 kOhm	5%	0.25W				H7
R...199	57.11.5106	10 MOhm	10%	0.25W				H7
R...200	57.11.3684	680 kOhm	5%	0.25W				I7
R...201	57.11.3333	33 kOhm	5%	0.25W				H7
R...202	57.11.3104	100 kOhm	5%	0.25W				H6
R...203	57.11.5106	10 MOhm	10%	0.25W				H6
R...204	. . 0	not exist						
R...205	. . 0	not exist						
R...206	1.010.108.58	4.7 kOhm	10%	lin	comb. with R551		St	G7
R...207	57.11.3103	10 kOhm	1%	0.25W				G5
R...208	57.11.3103	10 kOhm	1%	0.25W				G5
R...209	57.11.3684	680 kOhm	5%	0.25W				G5
R...210	57.11.3105	1 MOhm	5%	0.25W				H6
R...211	57.11.3472	4.7 kOhm	1%	0.25W				H6
R...212	. .	100 kOhm	10%	-log. -> R213 1.010.031.58 on A9			St	H6
R...213	. .	100 kOhm	10%	-log. comb. with R212/R560				H5
R...214	57.11.3472	4.7 kOhm	1%	0.25W				H6
R...215	57.11.3105	1 MOhm	5%	0.25W				H5
R...216	57.11.3222	2.2 kOhm	5%	0.25W				G5
R...217	57.11.3362	3.6 kOhm	1%	0.25W				H6
R...218	57.11.3202	2 kOhm	1%	0.25W				H6
R...219	57.11.3183	18 kOhm	1%	0.25W				G6
R...220	57.11.3752	7.5 kOhm	1%	0.25W				G6
R...221	57.11.3102	1 kOhm	5%	0.25W				H6
R...222	57.11.5106	10 MOhm	10%	0.25W				H6
R...223	57.11.3684	680 kOhm	5%	0.25W				G6
R...224	57.11.3333	33 kOhm	5%	0.25W				H6
R...225	57.11.5106	10 MOhm	10%	0.25W				H6
R...226	57.11.3104	100 kOhm	5%	0.25W				G6
R...227	1.010.108.58	4.7 kOhm	10%	lin	comb. with R552		St	F7
R...228	57.11.3103	10 kOhm	1%	0.25W				F5
R...229	57.11.3103	10 kOhm	1%	0.25W				G5
R...230	57.11.3684	680 kOhm	5%	0.25W				G5
R...231	57.11.3105	1 MOhm	5%	0.25W				G6
R...232	57.11.3512	5.1 kOhm	1%	0.25W				G6
R...233	. .	100 kOhm	10%	-log.-> R234 1.010.031.58 on A10			St	G6
R...234	. .	100 kOhm	10%	neg.log. comb. with R233/R553			St	G5
R...235	57.11.3472	4.7 kOhm	1%	0.25W				G6
R...236	57.11.3105	1 MOhm	5%	0.25W				G5
R...237	57.11.3222	2.2 kOhm	5%	0.25W				G5
R...238	57.11.3362	3.6 kOhm	1%	0.25W				G6
R...239	57.11.3202	2 kOhm	1%	0.25W				G6
R...240	57.11.3183	18 kOhm	1%	0.25W				G6
R...241	57.11.3752	7.5 kOhm	1%	0.25W				G6
R...242	57.11.3102	1 kOhm	5%	0.25W				G6
R...243	57.11.5106	10 MOhm	10%	0.25W				G6
R...244	57.11.3684	680 kOhm	5%	0.25W				G6
R...245	57.11.3333	33 kOhm	5%	0.25W				G6
R...246	57.11.5106	10 MOhm	10%	0.25W				G6
R...247	57.11.3104	100 kOhm	5%	0.25W				F6
R...248	. . 0	not exist						
R...249	. . 0	not exist						
R...250	. . 0	not exist						
R...251	57.11.3121	120 Ohm	1%	0.25W				F7
R...252	1.010.108.58	4.7 kOhm	10%	lin	comb. with R550		St	E7
R...253	57.11.3121	120 Ohm	1%	0.25W				E6

Ad	..POS..	...REF.No...	DESCRIPTION.....				MANUFACTURER	
R...254	57.11.3102	1 kOhm	1%	0.25W				E6
R...255	57.11.3223	22 kOhm	5%	0.25W				F5
R...256	57.11.3103	10 kOhm	1%	0.25W				E5
R...257	57.11.3103	10 kOhm	1%	0.25W				E5
R...258	57.11.3684	680 kOhm	5%	0.25W				F5
R...259	57.11.3682	6.8 kOhm	1%	0.25W				F3
R...260	57.11.3682	6.8 kOhm	1%	0.25W				F3
R...261	57.11.3682	6.8 kOhm	1%	0.25W				F5
R...262	57.11.3684	680 kOhm	5%	0.25W				F5
R...263	57.11.3223	22 kOhm	5%	0.25W				F5
R...264	57.11.3684	680 kOhm	5%	0.25W				F5
R...265	57.11.3472	4.7 kOhm	1%	0.25W				F5
R...266	. .	100 kOhm	10%	-log.-> R267 1.010.031.58 on A11			St	F6
R...267	. .	100 kOhm	10%	-log. comb. with R266/R553				F5
R...268	57.11.3472	4.7 kOhm	1%	0.25W				F5
R...269	57.11.3102	1 kOhm	5%	0.25W				F6
R...270	57.11.5106	10 MOhm	10%	0.25W				F6
R...271	57.11.3104	100 kOhm	5%	0.25W				F6
R...272	57.11.5106	10 MOhm	10%	0.25W				F6
R...273	. . 0	not exist						
R...274	. . 0	not exist						
R...275	. . 0	not exist						
R...276	57.11.3152	1.5 kOhm	1%	0.25W				K1
R...277	57.11.3152	1.5 kOhm	1%	0.25W				K1
R...278	57.11.3392	3.9 kOhm	1%	0.25W				K1
R...279	57.11.3392	3.9 kOhm	1%	0.25W				K1
R...280	57.11.3272	2.7 kOhm	1%	0.25W				K1
R...281	57.11.3272	2.7 kOhm	1%	0.25W				K1
R...282	57.11.3223	22 kOhm	5%	0.25W				K1
R...283	. . 0	not used	A					I1
R...284	. . 0	not used	A					I1
R...285	. . 0	not used	A					I1
R...286	. . 0	not used	A					I1
R...287	57.11.3272	2.7 kOhm	1%	0.25W				I1
R...288	57.11.3272	2.7 kOhm	1%	0.25W				I1
R...289	. . 0	not used	A					I1
R...290	. . 0	not exist						
R...291	57.11.3104	100 kOhm	5%	0.25W				G3
R...292	57.11.3752	7.5 kOhm	1%	0.25W				G3
R...293	57.11.3823	82 kOhm	1%	0.25W				G3
R...294	57.11.3223	22 kOhm	5%	0.25W				G3
R...295	57.11.3332	3.3 kOhm	1%	0.25W				G3
R...296	57.11.3332	3.3 kOhm	1%	0.25W				G3
R...297	57.11.3330	33 Ohm	5%	0.25W				G3
R...298	57.11.3223	22 kOhm	1%	0.25W				G3
R...299	. . 0	not used	A					H3
R...300	. . 0	not used	A					H3
R...301	. . 0	not used	A					H3
R...302	. . 0	not used	A					H3
R...303	. . 0	not used	A					H3
R...304	. . 0	not used	A					H3
R...305	. . 0	not used	A					H3
R...306	. . 0	not used	A					H3
R...307	57.11.3332	3.3 kOhm	1%	0.25W				F4
R...308	57.11.3223	22 kOhm	5%	0.25W				F4
R...309	57.11.3333	33 kOhm	1%	0.25W				E4
R...310	57.11.3103	10 kOhm	1%	0.25W				E4
R...311	57.11.3472	4.7 kOhm	1%	0.25W				E4
R...312	57.11.3684	680 kOhm	5%	0.25W				F4
R...313	57.11.3823	82 kOhm	1%	0.25W				E4
R...314	58.05.1104	100 kOhm	10%	0.5 W	mehrgangtrimmer			D4
R...315	57.11.3332	3.3 kOhm	1%	0.25W				D4
R...316	57.11.3223	22 kOhm	1%	0.25W				D4
R...317	. . 0	not used	A					F3
R...318	. . 0	not used	A					F3
R...319	. . 0	not used	A					E3
R...320	. . 0	not used	A					E3
R...321	. . 0	not used	A					E3
R...322	. . 0	not used	A					F3
R...323	. . 0	not used	A					E3
R...324	. . 0	not used	A					D3
R...325	. . 0	not used	A					D3
R...326	. . 0	not used	A					D3
R...327	. . 0	not exist						
R...328	. . 0	not exist						
R...329	. . 0	not exist						
R...330	. . 0	not exist						
R...331	1.010.106.58	10 kOhm	10%	pos.log. comb. with R546			St	E7
R...332	57.11.3752	7.5 kOhm	1%	0.25W				D6
R...333	57.11.3823	82 kOhm	1%	0.25W				D6
R...334	1.010.106.58	10 kOhm	10%	pos.log. comb. with R549			St	D7
R...335	57.11.3752	7.5 kOhm	1%	0.25W				D6
R...336	57.11.3823	82 kOhm	1%	0.25W				D6
R...337	1.010.106.58	10 kOhm	10%	pos.log. comb. with R547			St	C7
R...338	57.11.3752	7.5 kOhm	1%	0.25W				C6
R...339	57.11.3823	82 kOhm	1%	0.25W				C6
R...340	1.010.106.58	10 kOhm	10%	pos.log. comb. with R548			St	C7
R...341	57.11.3752	7.5 kOhm	1%	0.25W				D6
R...342	57.11.3823	82 kOhm	1%	0.25W				C6
R...343	. .	10 kOhm	10%	+log.-> R345 1.010.034.58 on A12			St	B6
R...344	. .	4.7 kOhm	10%	+log. see R345				B6
R...345	. .	10 kOhm	10%	-log. comb. with R343/344/543/545				B6
R...346	57.11.3752	7.5 kOhm	1%	0.25W				B6
R...347	57.11.3823	82 kOhm	1%	0.25W				B6
R...348	. .	10 kOhm	10%	+log.-> R350 1.010.034.58 on A13			St	A6
R...349	. .	4.7 kOhm	10%	+log. see R350				A6
R...350	. .	10 kOhm	10%	-log. comb. with R348/349/542/544				A6

INPUT UNIT MONO B

1.990.220.81

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...351	57.11.3752	7.5 kOhm 1% 0.25W	C6
	R...352	57.11.3823	82 kOhm 1% 0.25W	C6
	R...353	. . 0	not used A	K0
	R...354	57.11.3330	33 Ohm 5% 0.25W	K0
	R...355	. . 0	not used A	D4
	R...356	. . 0	not used A	D4
	R...357	. . 0	not used A	C4
	R...358	. . 0	not used	
	R...359	. . 0	not exist	
	R...360	. . 0	not used A	N6
	R...361	57.11.3752	7.5 kOhm 1% 0.25W	C3
	R...362	57.11.3823	82 kOhm 1% 0.25W	C3
	R...363	57.11.3223	22 kOhm 5% 0.25W	C3
	R...364	57.11.3752	7.5 kOhm 1% 0.25W	B3
	R...365	57.11.3823	82 kOhm 1% 0.25W	B3
	R...366	57.11.3223	22 kOhm 5% 0.25W	B3
	R...367	. . 0	not used A	B3
	R...368	. . 0	not used A	B3
	R...369	. . 0	not used A	B3
	R...370	. . 0	not used A	B3
	R...371	. . 0	not used A	B3
	R...372	. . 0	not exist	
	R...373	. . 0	not used A	N5
	R...374	. . 0	not used A	N5
	R...375	. . 0	not used A	N5
	R...376	. . 0	not used A	N5
	R...377	. . 0	not used A	N5
	R...378	. . 0	not used A	N6
	R...379	. . 0	not used A	N6
	R...380	. . 0	not used A	N6
	R...381	. . 0	not used A	N6
	R...382	57.11.3513	51 kOhm 1% 0.25W	N5
	R...383	57.11.3513	51 kOhm 1% 0.25W	N5
	R...384	57.11.3513	51 kOhm 1% 0.25W	N5
	R...385	57.11.3513	51 kOhm 1% 0.25W	N5
	R...386	57.11.3513	51 kOhm 1% 0.25W	N5
	R...387	57.11.3513	51 kOhm 1% 0.25W	N5
	R...388	57.11.3363	36 kOhm 1% 0.25W	N5
	R...389	57.11.3363	36 kOhm 1% 0.25W	N5
	R...390	. . 0	not used A	L6
	R...391	57.11.3104	100 kOhm 5% 0.25W	N6
	R...392	57.11.3682	6.8 kOhm 1% 0.25W	H1
	R...393	57.11.3682	6.8 kOhm 1% 0.25W	H1
	R...394	57.11.3330	33 Ohm 1% 0.25W	I1
	R...395	57.11.3330	33 Ohm 1% 0.25W	H1
	R...396	. . 0	not exist	
	R...397	. . 0	not used A	N6
	R...398	. . 0	not exist	
	R...399	57.92.7013	0.75 Ohm I hold = 0.5A R-PTC	C0
	R...400	57.11.3102	1 kOhm 5% 0.25W	C0
	R...401	57.92.7013	0.75 Ohm I hold = 0.5A R-PTC	C0
	R...402	57.92.7013	0.75 Ohm I hold = 0.5A R-PTC	B0
	R...403	57.92.7013	0.75 Ohm I hold = 0.5A R-PTC	C1
	R...404	57.11.3222	2.2 kOhm 5% 0.25W	A0
	R...405	57.11.3272	2.7 kOhm 5% 0.25W	A0
	R...406	57.11.3104	100 kOhm 5% 0.25W	A0
	R...407	. . 0	not exist	
	R...408	57.11.3681	680 Ohm 5% 0.25W	A0
	R...409	57.11.3104	100 kOhm 5% 0.25W	A0
	R...410	57.11.3104	100 kOhm 5% 0.25W	A0
	R...411	57.11.3202	2 kOhm 5% 0.25W	A0
	R...412	57.11.3222	2.2 kOhm 5% 0.25W	A0
	R...413	57.11.3101	100 Ohm 5% 0.25W	B1
	R...414	57.11.3101	100 Ohm 5% 0.25W	B1
	R...415	57.11.3101	100 Ohm 5% 0.25W	B1
	R...416	57.11.3150	15 Ohm 1% 0.25W	B1
	R...417	57.11.3150	15 Ohm 1% 0.25W	A1
	R...418	57.11.3150	15 Ohm 1% 0.25W	B1
	R...419	57.11.3150	15 Ohm 1% 0.25W	B1
	R...420	57.11.3330	33 Ohm 5% 0.25W	C1
	R...421	. . 0	not exist	
	R...422	. . 0	not exist	
	R...423	57.11.3151	150 Ohm 5% 0.25W	B1
	R...424	. . 0	not exist	
	R...425	. . 0	not exist	
	R...426	. . 0	not used A	L6
	R...427	. . 0	not used A	L6
	R...428	. . 0	not used A	M1
	R...429	57.99.0250	6.8 kOhm 0.1% 0.25W	M2
	R...430	. . 0	not used A	M1
	R...431	. . 0	not used A	L1
	R...432	57.11.3151	150 Ohm 5% 0.25W	B2
	R...433	57.11.3399	3.9 Ohm 5% 0.25W	B2
	R...434	57.11.3399	3.9 Ohm 5% 0.25W	B2
	R...435	57.11.3151	150 Ohm 5% 0.25W	B2
	R...436	57.11.3109	1 Ohm 5% 0.25W	A1
	R...437	57.11.3109	1 Ohm 5% 0.25W	A1
	R...438	57.11.3109	1 Ohm 5% 0.25W	A1
	R...439	. . 0	not exist	
	R...440	. . 0	not exist	
	R...441	. . 0	not exist	
	R...442	. . 0	not exist	
	R...443	. . 0	not exist	
	R...444	. . 0	not exist	
	R...445	. . 0	not exist	
	R...446	. . 0	not exist	
	R...447	. . 0	not exist	
	R...448	. . 0	not exist	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...449	57.11.3224	220 kOhm 5% 0.25W	N6
	R...450	1.010.101.58	10 kOhm 10% lin. comb. with R554	St N7
	R...451	57.11.3822	8.2 kOhm 1% 0.25W	N7
	R...452	57.11.3762	7.5 kOhm 1% 0.25W	M7
	R...453	58.01.8503	50 kOhm 10% 0.25W trimmer	N7
	R...454	57.99.0250	6.8 kOhm 0.1% 0.25W	L2
	R...455	57.99.0250	6.8 kOhm 0.1% 0.25W	L1
	R...456	57.11.3150	15 Ohm 1% 0.25W	L1
	R...457	57.11.3150	15 Ohm 1% 0.25W	K1
	R...458	. . 0	not exist	
	R...459	. . 0	not exist	
	R...460	. . 0	not exist	
	R...461	. . 0	not exist	
	R...462	. . 0	not exist	
	R...463	. . 0	not exist	
	R...464	. . 0	not exist	
	R...465	. . 0	not exist	
	R...466	. . 0	not exist	
	R...467	. . 0	not exist	
	R...468	. . 0	not exist	
	R...469	. . 0	not exist	
	R...470	. . 0	not exist	
	R...471	. . 0	not exist	
	R...472	. . 0	not exist	
	R...473	. . 0	not exist	
	R...474	57.11.3150	15 Ohm 1% 0.25W	K0
	R...475	57.11.3150	15 Ohm 1% 0.25W	K0
	R...476	57.11.3150	15 Ohm 1% 0.25W	K0
	R...477	57.11.3150	15 Ohm 1% 0.25W	K0
	R...478	57.99.0250	6.8 kOhm 0.1% 0.25W	H1
	R...479	57.99.0250	6.8 kOhm 0.1% 0.25W	G1
	R...480	. . 0	not exist	
	R...481	. . 0	not exist	
	R...482	57.11.3102	1 kOhm 5% 0.25W	B1
	R...483	57.11.5106	10 MOhm 10% 0.25W	B1
	R...484	57.11.6226	22 MOhm 10% 0.25W	A1
	R...485	57.11.3562	5.6 kOhm 1% 0.25W	A2
	R...486	57.11.3333	33 kOhm 5% 0.25W	A2
	R...487	57.11.3432	4.3 kOhm 1% 0.25W	A2
	R...488	57.11.3333	33 kOhm 5% 0.25W	B2
	R...489	57.11.3512	5.1 kOhm 1% 0.25W	A1
	R...490	57.11.3105	1 MOhm 5% 0.25W	A2
	R...491	57.11.3105	1 MOhm 5% 0.25W	B2
	R...492	57.11.3104	100 kOhm 5% 0.25W	A7
	R...493	57.11.3104	100 kOhm 5% 0.25W	A7
	R...501	57.11.3104	100 kOhm 5% 0.25W	N9
	R...502	57.11.3104	100 kOhm 5% 0.25W	N9
	R...503	57.11.3101	100 Ohm 5% 0.25W	A3
	R...504	57.11.3392	3.9 kOhm 5% 0.25W	N9
	R...505	57.11.3223	22 kOhm 5% 0.25W	N9
	R...506	57.11.3103	10 kOhm 5% 0.25W	N7
	R...507	. . 0	not exist	
	R...508	. . 0	not exist	
	R...509	. . 0	not exist	
	R...510	. . 0	not exist	
	R...511	57.11.3103	10 kOhm 5% 0.25W	N9
	R...512	57.11.3104	100 kOhm 5% 0.25W	N8
	R...513	57.11.3105	1 MOhm 5% 0.25W	N8
	R...514	57.11.5335	3.3 MOhm 5% 0.25W	N8
	R...515	57.11.3105	1 MOhm 5% 0.25W	N7
	R...516	57.11.3104	100 kOhm 5% 0.25W	N7
	R...517	57.11.3104	100 kOhm 5% 0.25W	N7
	R...518	57.11.3105	1 MOhm 5% 0.25W	N7
	R...519	57.11.3104	100 kOhm 5% 0.25W	N8
	R...520	57.11.3103	10 kOhm 5% 0.25W	N8
	R...521	57.11.3105	1 MOhm 5% 0.25W	N7
	R...522	57.11.3104	100 kOhm 5% 0.25W	N8
	R...523	57.11.5335	3.3 MOhm 5% 0.25W	N7
	R...524	57.11.3104	100 kOhm 5% 0.25W	N7
	R...525	57.11.3103	10 kOhm 5% 0.25W	N8
	R...526	57.11.5335	3.3 MOhm 5% 0.25W	N7
	R...527	57.11.3104	100 kOhm 5% 0.25W	N7
	R...528	57.11.3103	10 kOhm 5% 0.25W	N8
	R...529	57.11.3223	22 kOhm 5% 0.25W	N9
	R...530	57.11.3102	1 kOhm 5% 0.25W	N9
	R...531	57.11.3562	5.6 kOhm 5% 0.25W	N9
	R...532	57.11.3822	8.2 kOhm 5% 0.25W	N9
	R...533	57.11.3102	1 kOhm 5% 0.25W	A9
	R...534	57.11.3103	10 kOhm 5% 0.25W	L5
	R...535	. . 0	not exist	
	R...536	57.11.3104	100 kOhm 5% 0.25W	A7
	R...537	57.11.3334	330 kOhm 5% 0.25W	A8
	R...538	57.11.3334	330 kOhm 5% 0.25W	A8
	R...539	57.11.3223	22 kOhm 5% 0.25W	A8
	R...540	57.11.3330	33 Ohm 5% 0.25W	A9
	R...541	57.11.5106	10 MOhm 10% 0.25W	G9
	R...542	. .	100 kOhm 20% lin. see R348	A7
	R...543	. .	100 kOhm 20% lin. see R343	B6
	R...544	. .	100 kOhm 20% lin. see R348	A6
	R...545	. .	100 kOhm 20% lin. see R343	B7
	R...546	. .	100 kOhm 20% lin. comb. with R331	St E7
	R...547	. .	100 kOhm 20% lin. comb. with R340	St C7
	R...548	. .	100 kOhm 20% lin. comb. with R337	St C7
	R...549	. .	100 kOhm 20% lin. comb. with R334	St D7
	R...550	. .	100 kOhm 20% lin. comb. with R252	St E7
	R...551	. .	100 kOhm 20% lin. comb. with R206	St G7

INPUT UNIT MONO B

1.990.220.81

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...552	. .	100 kOhm 20% lin. comb. with R227	St F7
	R...553	. .	100 kOhm 20% lin. comb. with R233/R234	St G6
	R...554	. .	100 kOhm 20% lin. comb. with R449	St N7
	R...555	. . 0	not used A	N6
	R...556	. .	100 kOhm 20% lin. comb. with R196/R196	St H6
	R...557	. .	100 kOhm 20% lin. comb. with R120/R123	St I7
	R...558	. .	100 kOhm 20% lin. comb. with R266/R267	St F6
	R...559	. .	100 kOhm 20% lin. comb. with R185	St H7
	R...560	. .	100 kOhm 20% lin. comb. with R212/R213	St H6
	R...561	. . 0	not exist	
	R...562	. . 0	not exist	
	R...563	. . 0	not exist	
	R...564	. . 0	not exist	
	R...565	57.11.3101	100 Ohm 5% 0.25W	A3
	RZ....1	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	L3
	RZ....2	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	K6
	RZ....3	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	K6
	RZ....4	57.88.2220	22 Ohm 2% SIP 8 (4*)	L3
	RZ....5	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	I3
	RZ....6	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	I2
	RZ....7	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	I3
	RZ....8	57.88.2224	220 kOhm 2% SIP 8 (4*)	I2
	RZ....9	. . 0	not used A	K3
	RZ...10	. . 0	not used A	K2
	RZ...11	. . 0	not used A	K3
	RZ...12	. . 0	not used A	K2
	RZ...13	. . 0	not exist	
	RZ...14	. . 0	not exist	
	RZ...15	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	D2
	RZ...16	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	D2
	RZ...17	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C2
	RZ...18	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C2
	RZ...19	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C5
	RZ...20	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	D4
	RZ...21	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C4
	RZ...22	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	B4
	RZ...23	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C5
	RZ...24	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	B5
	RZ...25	. . 0	not exist	
	RZ...26	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	B4
	RZ...27	. . 0	not used A	B4
	RZ...28	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	M1
	RZ...29	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	M1
	RZ...30	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	E1
	RZ...31	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	E1
	RZ...32	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	E1
	RZ...33	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	E1
	RZ...34	. . 0	not exist	
	RZ...35	. . 0	not exist	
	RZ...36	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	H1
	RZ...37	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	H0
	RZ...38	57.88.2101	100 Ohm 2% SIP 8 (4*)	H0
	RZ...39	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	G1
	RZ...40	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	G1
	RZ...41	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	G2
	RZ...42	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	G2
	RZ...43	. . 0	not used A	F3
	RZ...44	. . 0	not used A	F3
	RZ...45	. . 0	not exist	
	RZ...46	. . 0	not exist	
	RZ...47	. . 0	not used A	M1
	RZ...48	. . 0	not used A	M1
	RZ...49	. . 0	not used A	M1
	RZ...50	. . 0	not used A	M1
	RZ...51	57.88.2224	220 kOhm 2% SIP 8 (4*)	L1
	RZ...52	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	L1
	RZ...53	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	L1
	RZ...54	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	L1
	RZ..501	57.88.2101	100 Ohm SIP 8 (4*)	A3
	RZ..502	57.88.2101	100 Ohm SIP 8 (4*)	A3
	RZ..503	57.88.4104	100 kOhm SIP 9 (8*)	L8
	RZ..504	57.88.2104	100 kOhm SIP 8 (4*)	L8
	RZ..505	. . 0	not used A	L8
01	RZ..505	57.88.2104	100 kOhm SIP 8 (4*)	L8
	RZ..506	57.88.4104	100 kOhm SIP 9 (8*)	L9
	RZ..507	57.88.2104	100 kOhm SIP 8 (4*)	L9
	RZ..508	57.88.2104	100 kOhm SIP 8 (4*)	L9
	RZ..509	57.88.4104	100 kOhm SIP 9 (8*)	L9
	RZ..510	57.88.2104	100 kOhm SIP 8 (4*)	L9
	RZ..511	. . 0	not exist	
	RZ..512	57.88.4104	100 kOhm SIP 9 (8*)	L8
	RZ..513	. . 0	not used A	L8
01	RZ..513	57.88.2104	100 kOhm SIP 8 (4*)	L8
	RZ..514	. . 0	not exist	
	RZ..515	57.88.2473	47 kOhm SIP 8 (4*)	I8
	RZ..516	57.88.2473	47 kOhm SIP 8 (4*)	I8
	RZ..517	57.88.4104	100 kOhm SIP 9 (8*)	I8
	RZ..518	57.88.4104	100 kOhm SIP 9 (8*)	E8
	RZ..519	57.88.4104	100 kOhm SIP 9 (8*)	D7
	RZ..520	57.88.4104	100 kOhm SIP 9 (8*)	C7
	RZ..521	57.88.4104	100 kOhm SIP 9 (8*)	B7
	RZ..522	57.88.4104	100 kOhm SIP 9 (8*)	B7
	RZ..523	57.88.4104	100 kOhm SIP 9 (8*)	A8
	RZ..524	. . 0	not exist	
	RZ..525	57.88.4104	100 kOhm SIP 9 (8*)	G8
	RZ..526	57.88.2104	100 kOhm SIP 8 (4*)	G8
	RZ..527	. . 0	not used A	H8
	RZ..528	57.88.4104	100 kOhm SIP 9 (8*)	G9
	RZ..529	57.88.2104	100 kOhm SIP 8 (4*)	G9
	RZ..530	57.88.2104	100 kOhm SIP 8 (4*)	H9
	RZ..531	57.88.4104	100 kOhm SIP 9 (8*)	H9
	RZ..532	57.88.2104	100 kOhm SIP 8 (4*)	H9
	RZ..533	57.88.2104	100 kOhm SIP 8 (4*)	H9
	RZ..534	57.88.4104	100 kOhm SIP 9 (8*)	H8
	RZ..535	. . 0	not used A	H8
	RZ..536	57.88.2104	100 kOhm SIP 8 (4*)	H8
	RZ..537	57.88.4104	100 kOhm SIP 9 (8*)	I8
	RZ..538	57.88.2104	100 kOhm SIP 8 (4*)	I8
	RZ..539	57.88.2104	100 kOhm SIP 8 (4*)	K8
	RZ..540	57.88.4104	100 kOhm SIP 9 (8*)	I9
	RZ..541	57.88.2104	100 kOhm SIP 8 (4*)	I9
	RZ..542	57.88.2104	100 kOhm SIP 8 (4*)	K9
	RZ..543	57.88.4104	100 kOhm SIP 9 (8*)	K9
	RZ..544	57.88.2104	100 kOhm SIP 8 (4*)	K9
	RZ..545	57.88.2104	100 kOhm SIP 8 (4*)	L9
	RZ..546	57.88.4104	100 kOhm SIP 9 (8*)	K8
	RZ..547	57.88.2104	100 kOhm SIP 8 (4*)	K8
	RZ..548	57.88.2104	100 kOhm SIP 8 (4*)	L8
	RZ..549	. . 0	not exist	
	RZ..550	57.88.4104	100 kOhm SIP 9 (8*)	D7
	RZ..551	57.88.2104	100 kOhm SIP 8 (4*)	B7
	RZ..552	57.88.2104	100 kOhm SIP 8 (4*)	B7
	RZ..553	57.88.4104	100 kOhm SIP 9 (8*)	E8
	RZ..554	57.88.2104	100 kOhm SIP 8 (4*)	E8
	RZ..555	57.88.2104	100 kOhm SIP 8 (4*)	E8
	RZ..556	57.88.4104	100 kOhm SIP 9 (8*)	E9
	RZ..557	57.88.2104	100 kOhm SIP 8 (4*)	E9
	RZ..558	57.88.2104	100 kOhm SIP 8 (4*)	E9
	RZ..559	57.88.4104	100 kOhm SIP 9 (8*)	F9
	RZ..560	57.88.2104	100 kOhm SIP 8 (4*)	F9
	RZ..561	57.88.2104	100 kOhm SIP 8 (4*)	F9
	RZ..562	57.88.4104	100 kOhm SIP 9 (8*)	F8
	RZ..563	57.88.2104	100 kOhm SIP 8 (4*)	F8
	RZ..564	57.88.2104	100 kOhm SIP 8 (4*)	F8
	RZ..565	57.88.4104	100 kOhm SIP 9 (8*)	D8
	RZ..566	57.88.4104	100 kOhm SIP 9 (8*)	G9
	RZ..567	57.88.2102	1 kOhm SIP 8 (4*)	G8
	RZ..568	57.88.2102	1 kOhm SIP 8 (4*)	F8
	RZ..569	57.88.2102	1 kOhm SIP 8 (4*)	G8
	RZ..570	57.88.2102	1 kOhm SIP 8 (4*)	G8
	RZ..571	57.88.2102	1 kOhm SIP 8 (4*)	G9
	RZ..572	57.88.2102	1 kOhm SIP 8 (4*)	G9
	T.....1	1.022.456.00	input trafo 1:2.24	St M3
	T.....2	1.022.454.00	input trafo 1:3.16	St M2
	W.....1	57.11.3000	0 Ohm	H1
	W.....2	57.11.3000	0 Ohm	M6
	W.....3	57.11.3000	0 Ohm	M6
	W.....4	57.11.3000	0 Ohm	M6
	W.....5	1.010.329.64	wire 2.5mm	M6
	W.....6	. . 0	not used A	H3

OPTIONS: see optionlist 1.990.210.00
****
option 1.....: not available

option 2.....: not available

option 3.....: FILM OUT -> group 1...8

software option A : not available

CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER:
****
ADI=Aanalog Devices Inc., Bu=Burndy, El=Elco, Ex=Exar,
Fc=Fairchild, Fe=Ferranti, GI=General Instrument, Ha=Harting,
HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
(Matsushita), NS=National Semiconductors, Ph=Philips,
PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Corp. of
America, SDS=SDS-Relais, Sie=Siemens, Sig= Signetics
Six=Siliconix, St=Studer,
Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaichi

HISTORY:
****
1.10.90 Stand RAI-Pult
13.11.90 Eliminierung digitaler Stoerungen (DAC)
Aux-Klirr (0V generiert 1)
PF-Headroom
21.11.90 Poslst Bereinigung
19.12.90 MIC-Knacksen (Software Update noetig)
Verbesserung Rauschabstand bei eingeschaltenem Insert
8.04.91 Aenderung der BG auf -81 wegen besserer Produzier-
barkeit (von LS auf BS) und diverser elektrischer
Modifikationen.
Zusaetzlich wird MCH-OUT bestueckt.
24.04.91 3 neue C auf LS wegen HF-Stoerungen vom Prozessor her
und 1 Stk. Blankdraht wegen fehlender Leiterbahn

INPUT UNIT MONO B

1.990.220.81

```
Ad  ..POS..  ...REF.No...     DESCRIPTION.............................MANUFACTURER

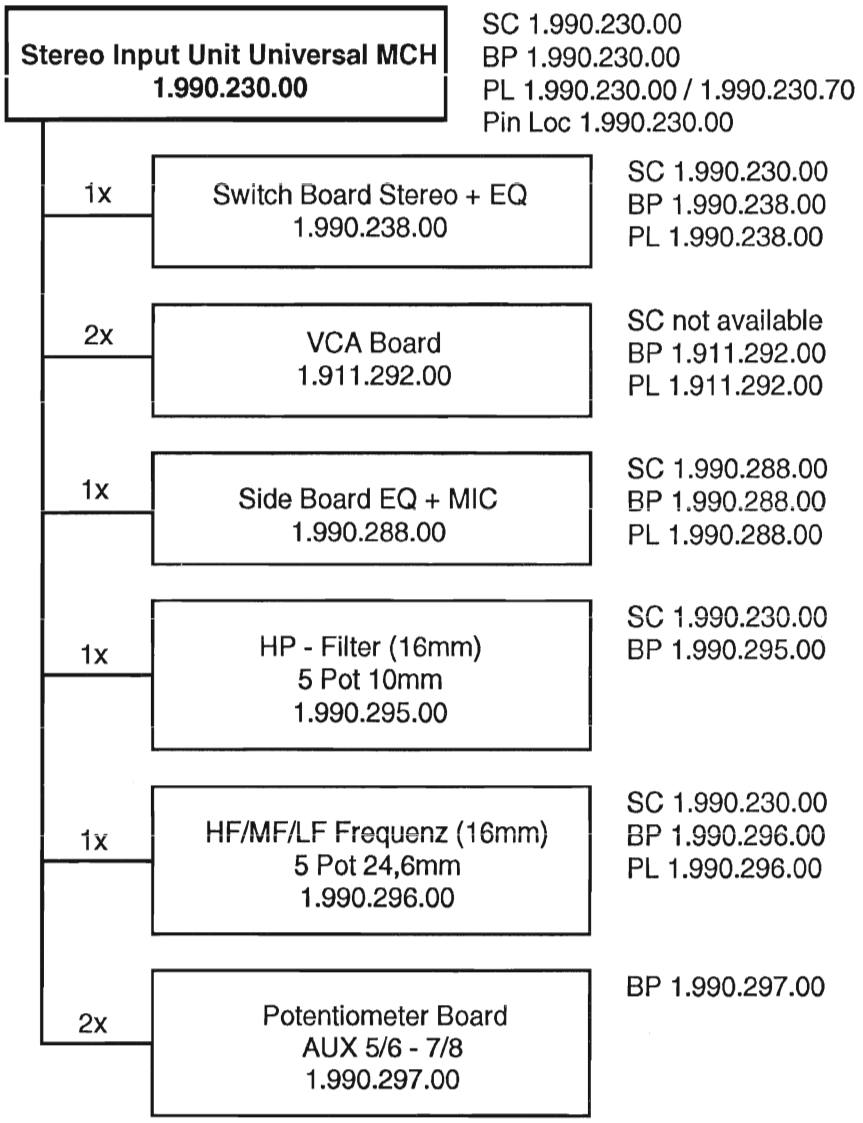

21.05.92  a) Offene Steuerleitung von IC 55 verursacht Schwingen
          und Einstreuung digitaler Stoerungen. -> C 537, RZ 513
          b) Schwingen von IC 4. -> C 65
          c) Fuer Option "MCH Bus Out" fehlen Bauelemente, welche
          dann nachbestueckt werden muessen. -> C 508, RZ 505

             1.990.220.81  INPUT UNIT MONO B             MOR91/04/2400

             1.990.220.81  INPUT UNIT MONO B             MOR92/05/2101

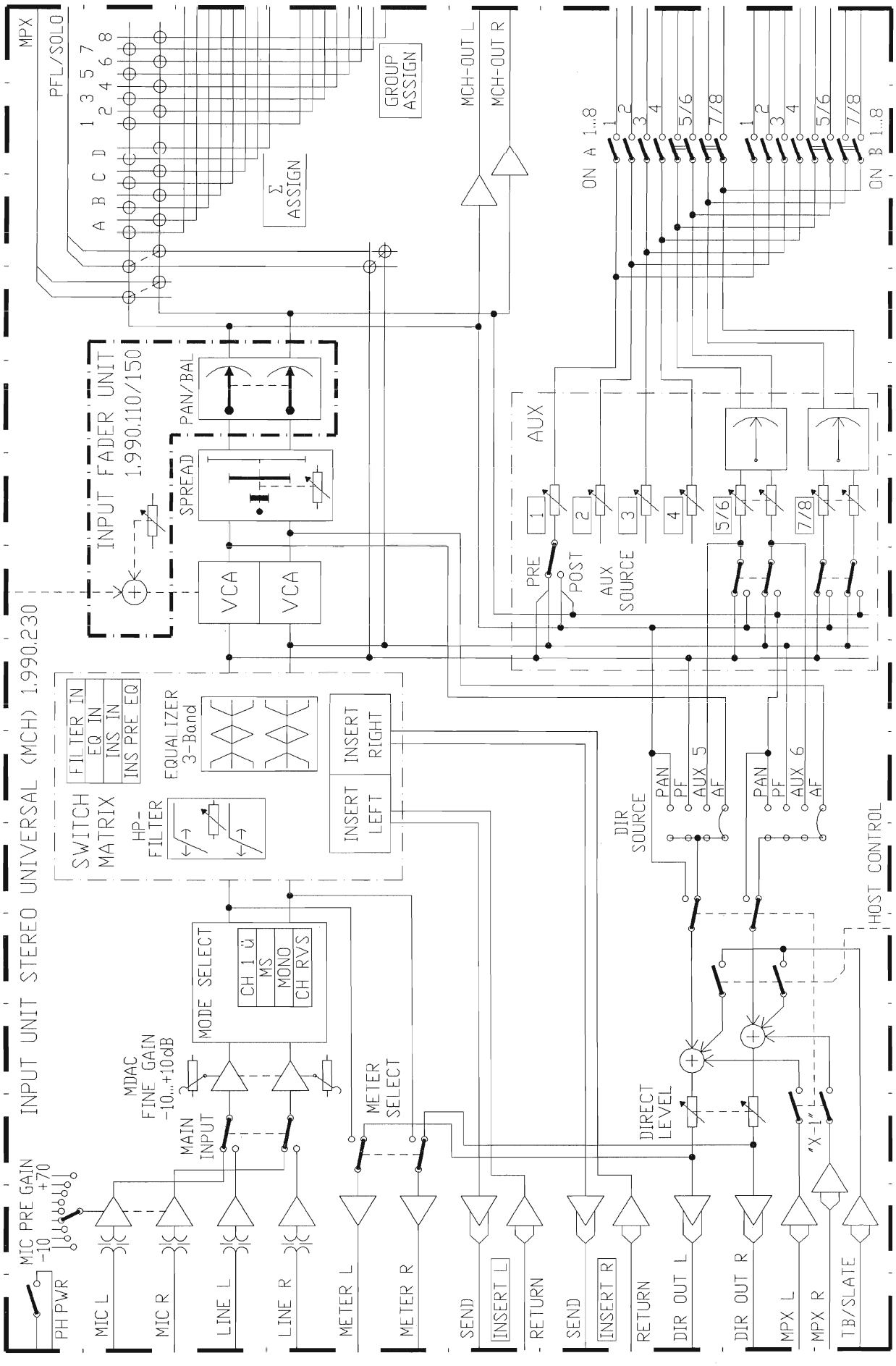
 END
+
```

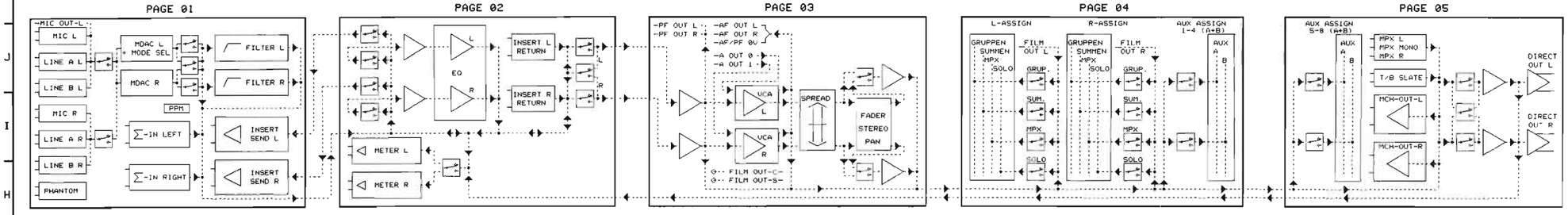
Stereo Input Unit Universal MCH 1.990.230.00

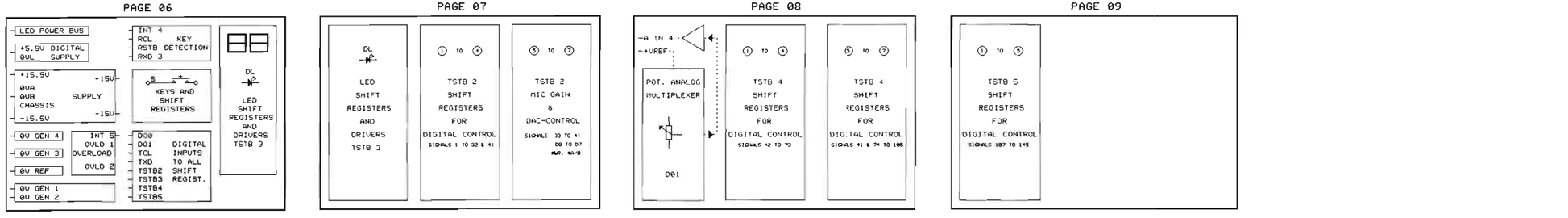


SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

STEREO INPUT UNIT UNIVERSAL MCH 1.990.230.00



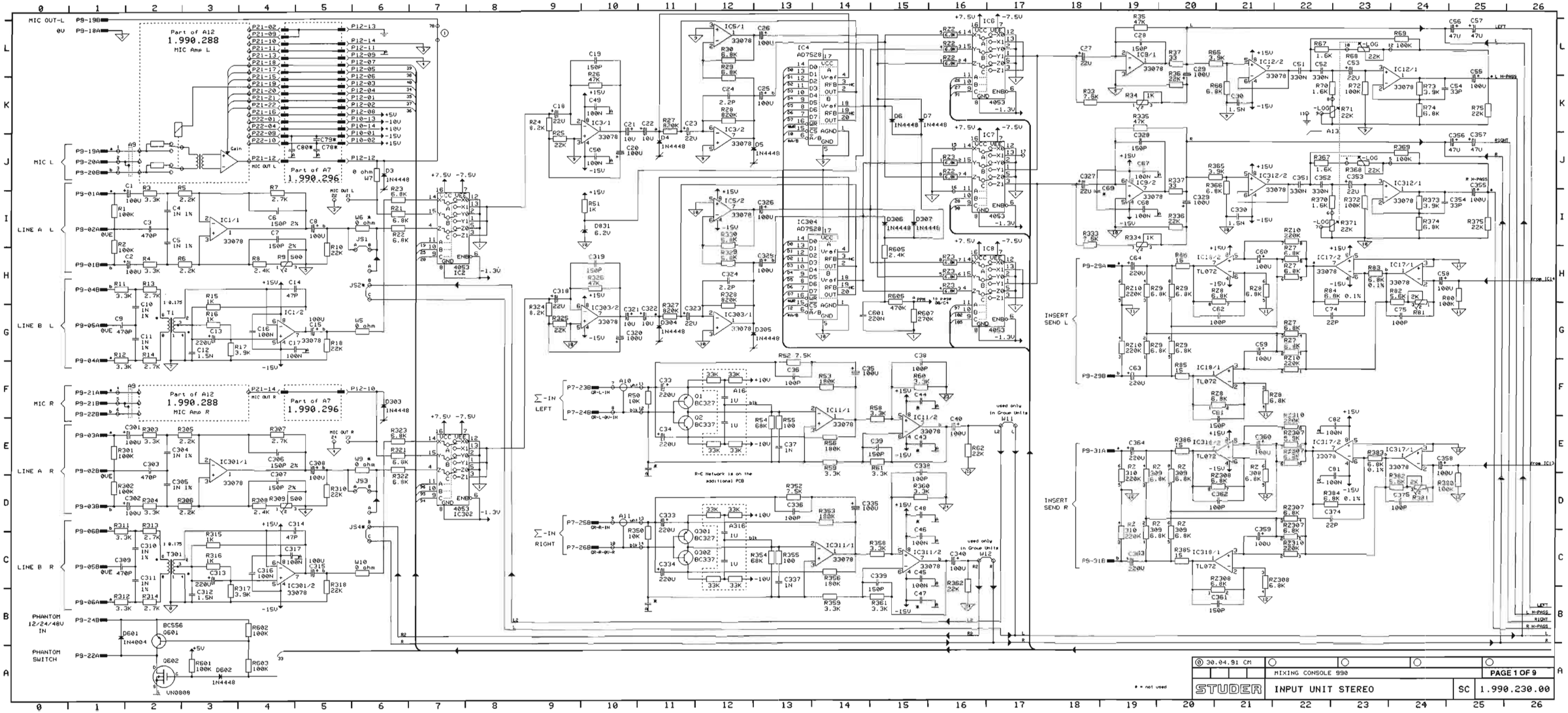




NOTE: ··▶··· shows the audio signal path.
The digital signal path is not shown.

ⓐ 30.04.91 CM				
	MIXING CONSOLE 990			APPENDIX 1
STUDER	INPUT UNIT STEREO [FUNCTIONAL BLOCK DIAGRAM]	SC	1.990.230.00	

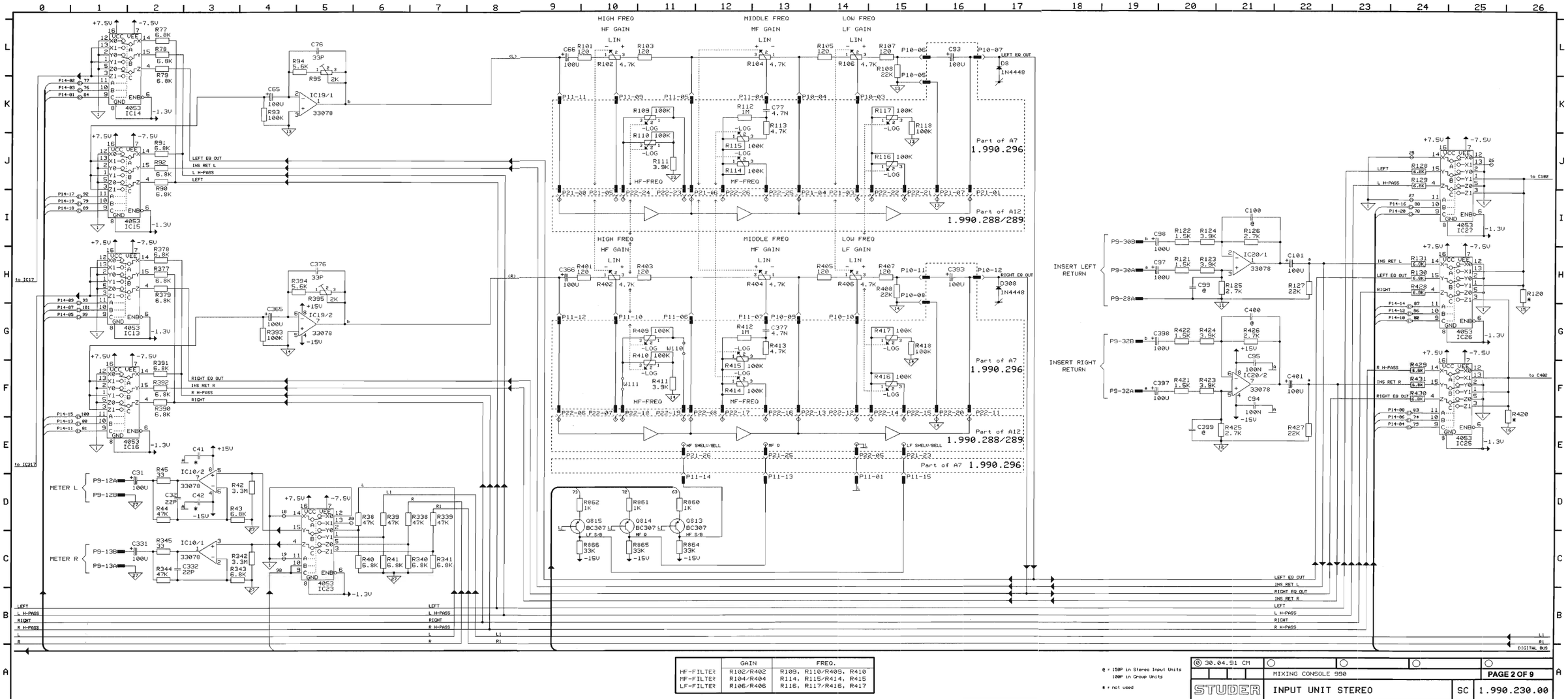
INPUT UNIT STEREO 1.990.230.00



30.04.91 CM			
	MIXING CONSOLE 990		PAGE 1 OF 9
STUDER	INPUT UNIT STEREO	SC	1.990.230.00

INPUT UNIT STEREO

1.990.230.00



	GAIN	FREQ.
HF-FILTER	R102/R402	R109, R110/R409, R410
MF-FILTER	R104/R404	R114, R115/R414, R415
LF-FILTER	R106/R406	R116, R117/R416, R417

* = 150P in Stereo Input Units
100P in Group Units

= not used

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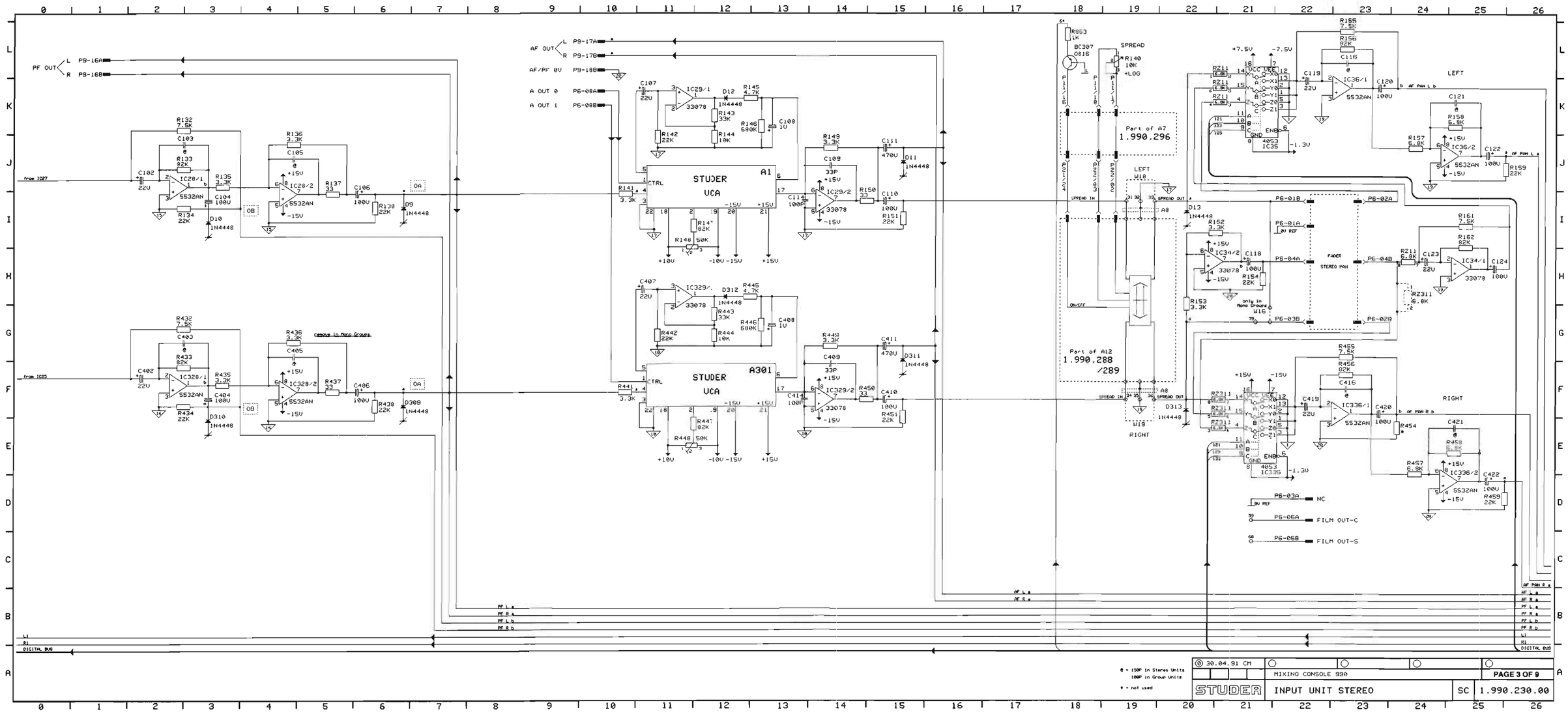
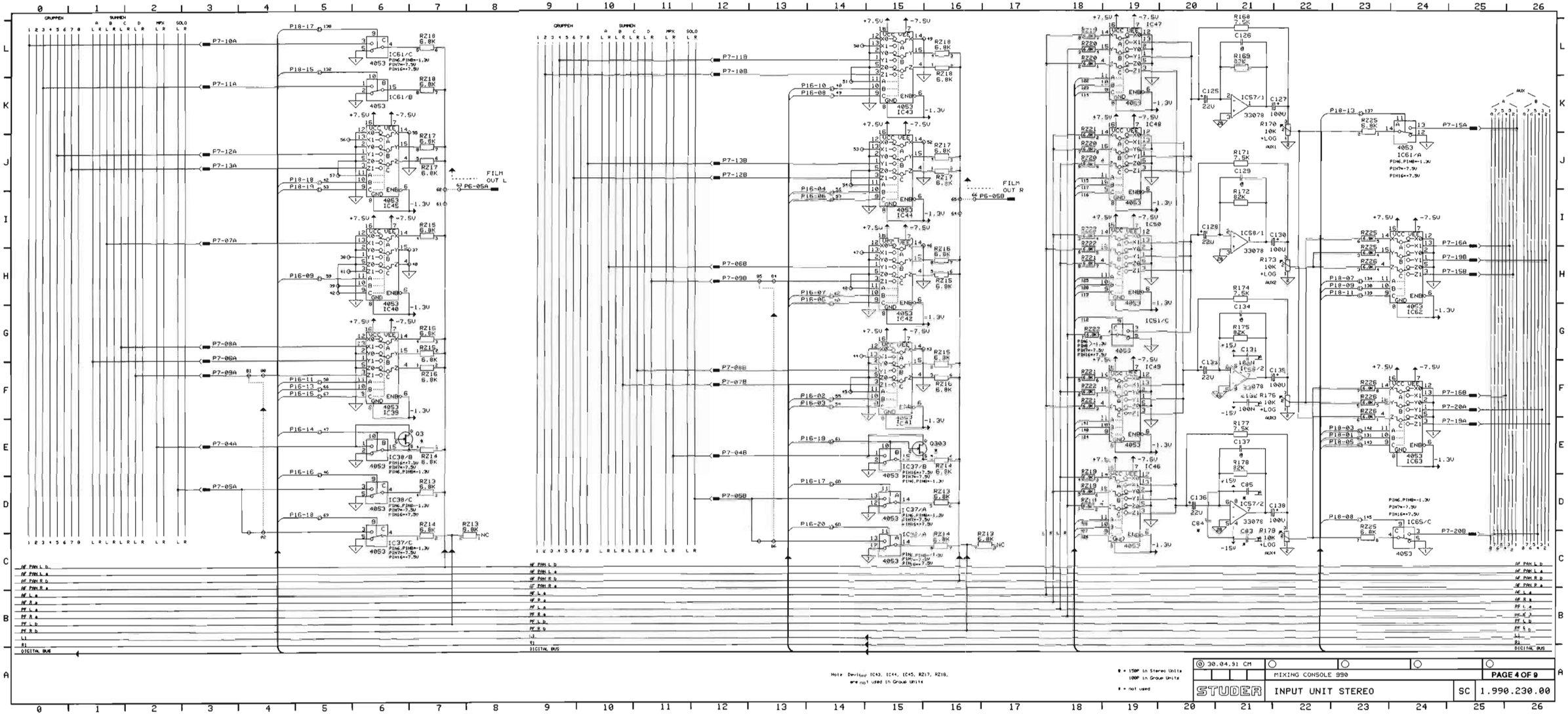
	MIXING CONSOLE 990			PAGE 2 OF 9
STUDER	INPUT UNIT STEREO	SC	1.990.230.00	

INPUT UNIT STEREO 1.990.230.00



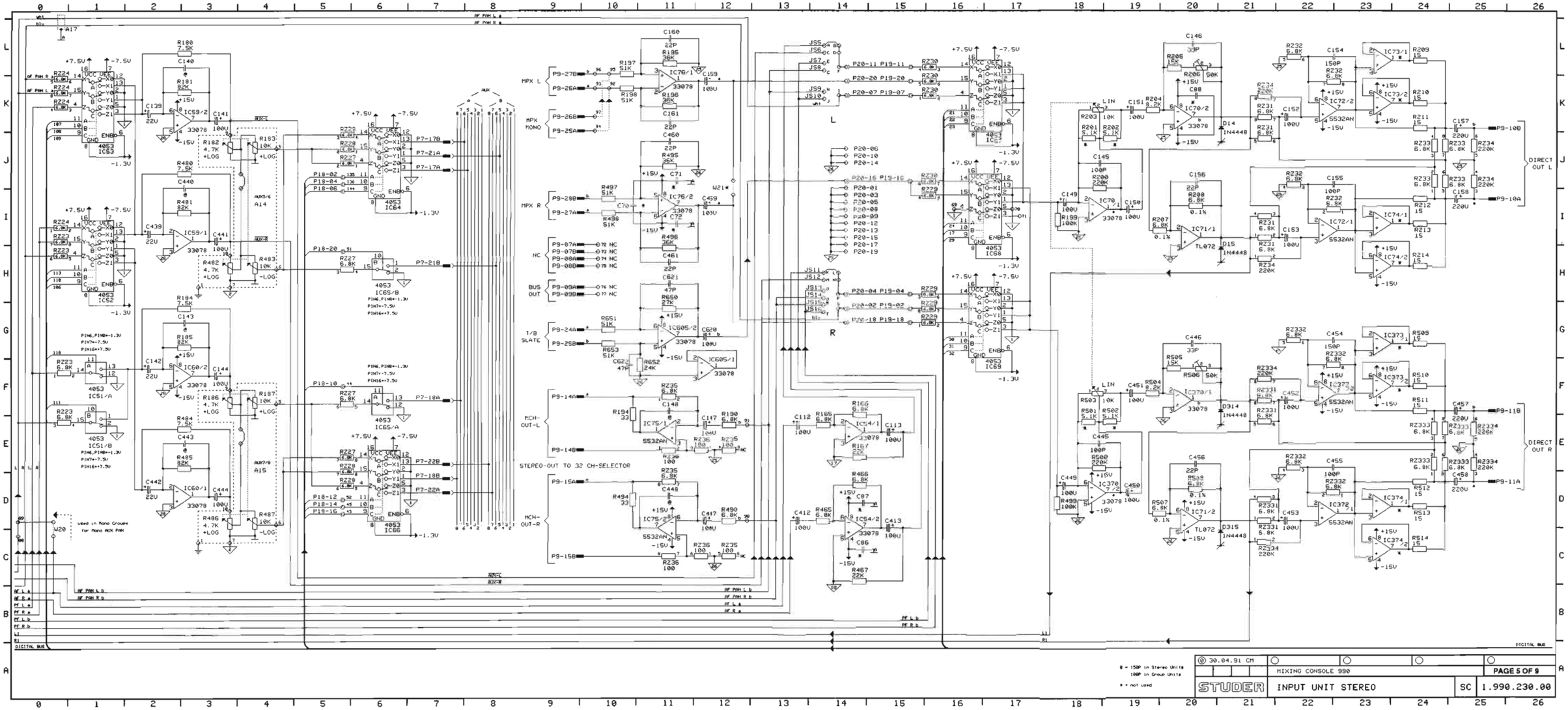
INPUT UNIT STEREO

1.990.230.00



INPUT UNIT STEREO

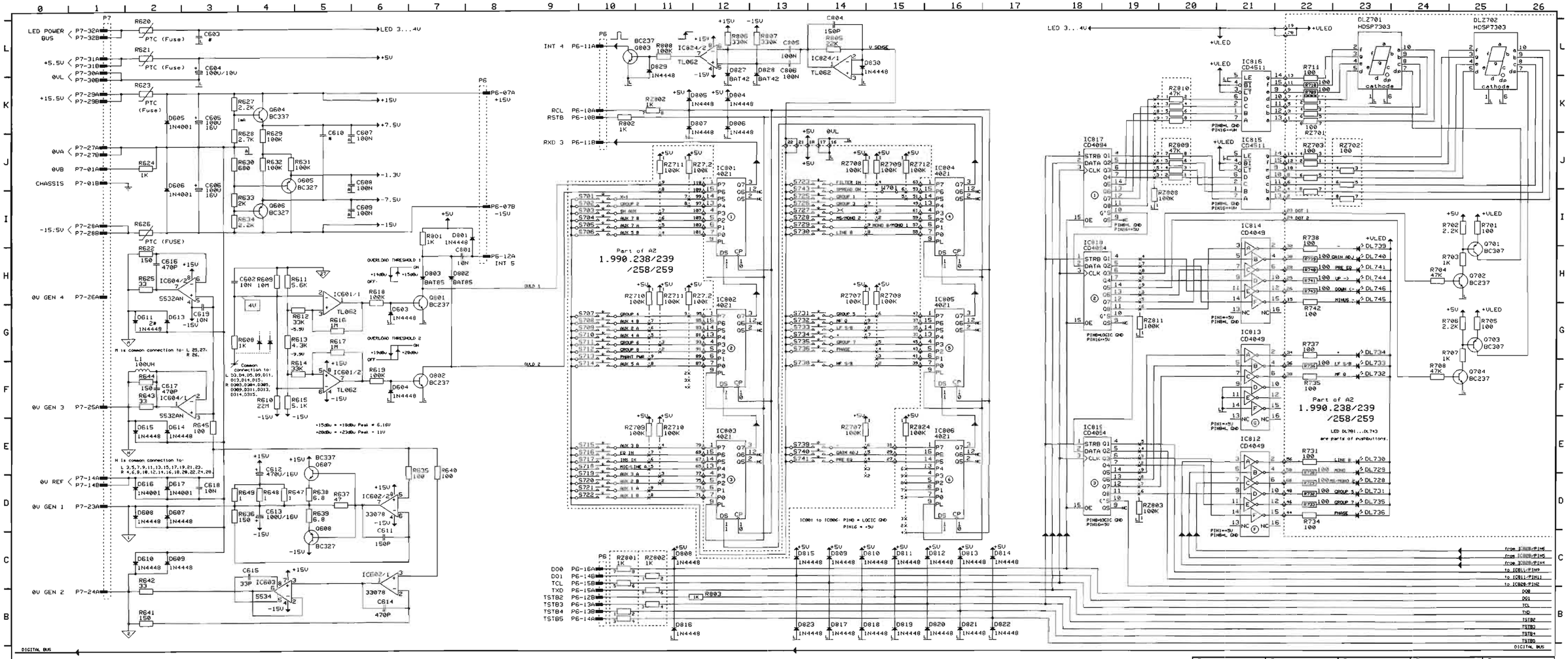
1.990.230.00



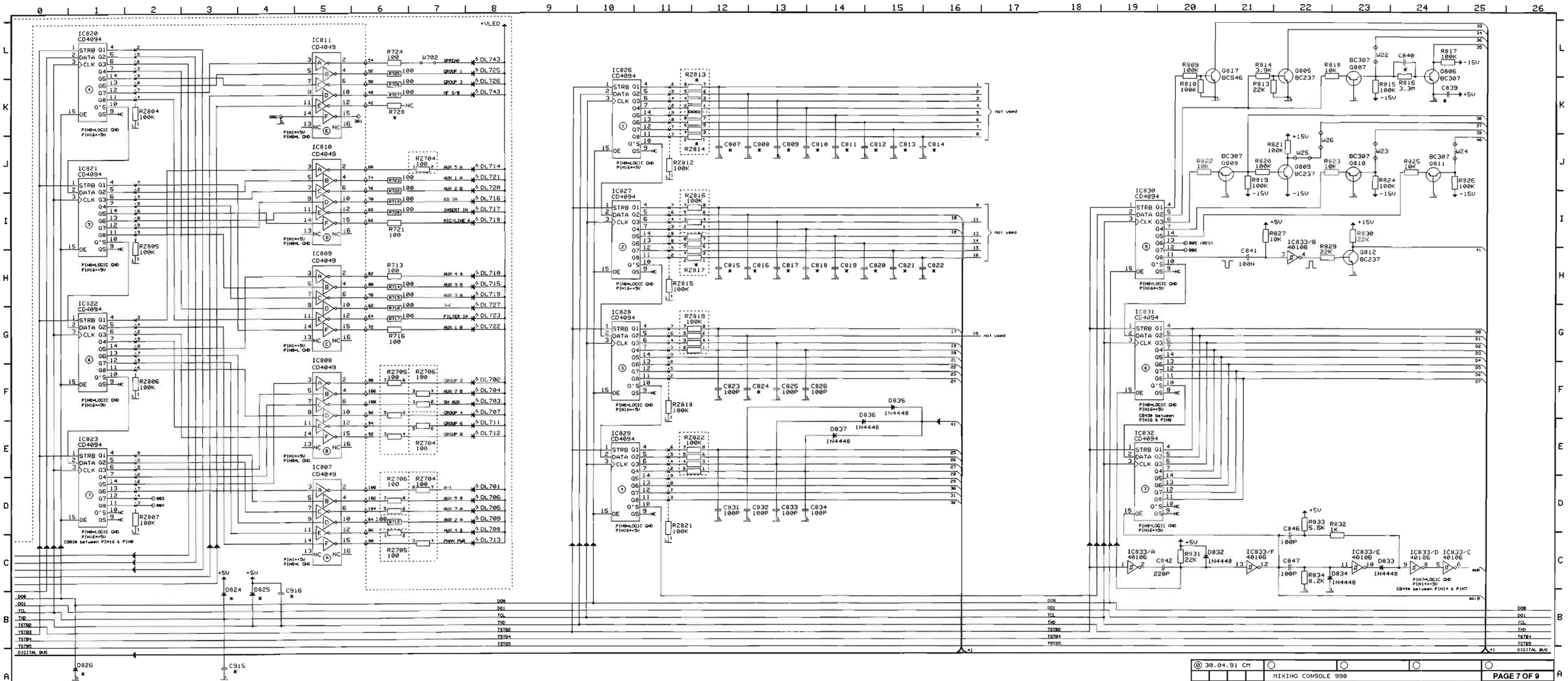
30.04.91 CM			
MIXING CONSOLE 990			PAGE 5 OF 9
STUDER	INPUT UNIT STEREO	SC	1.990.230.00

INPUT UNIT STEREO

1.990.230.00

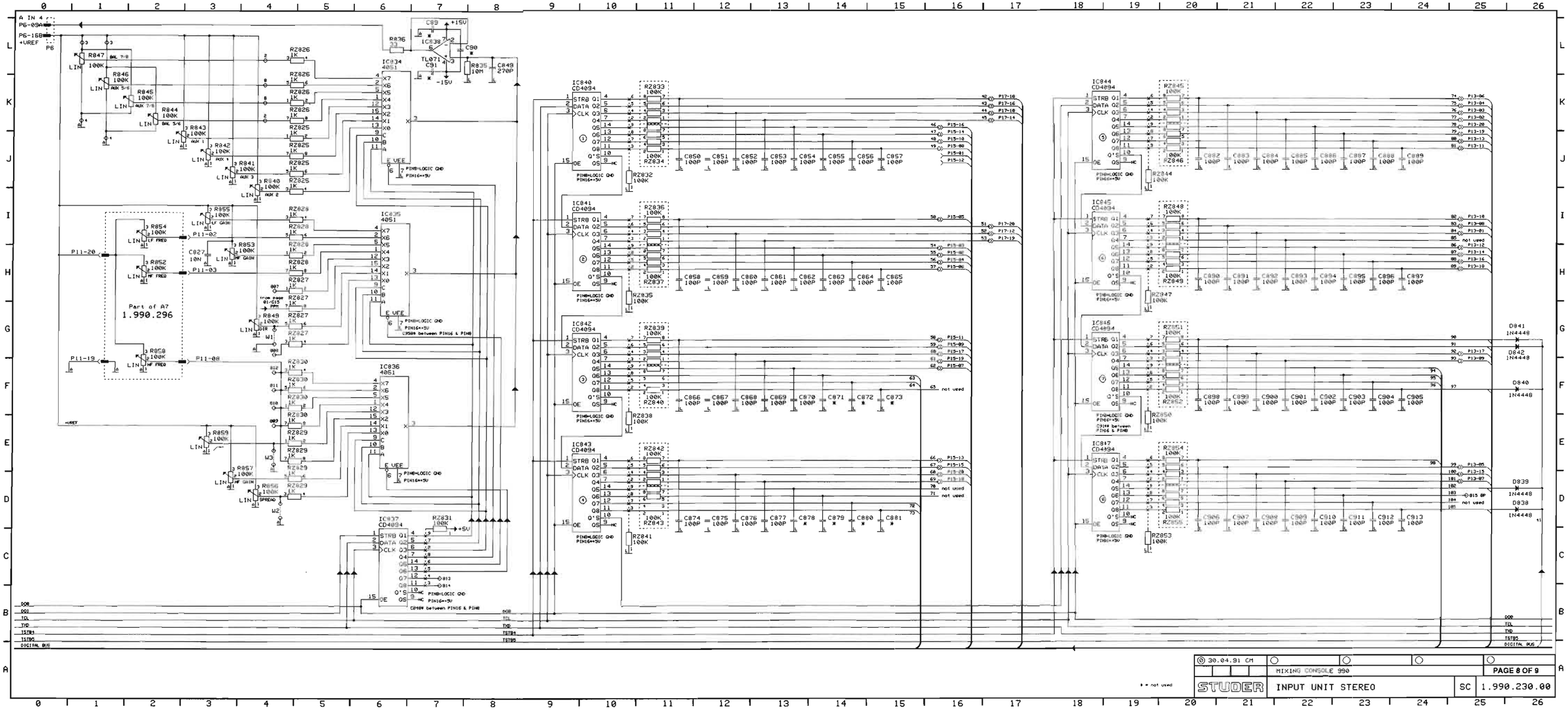


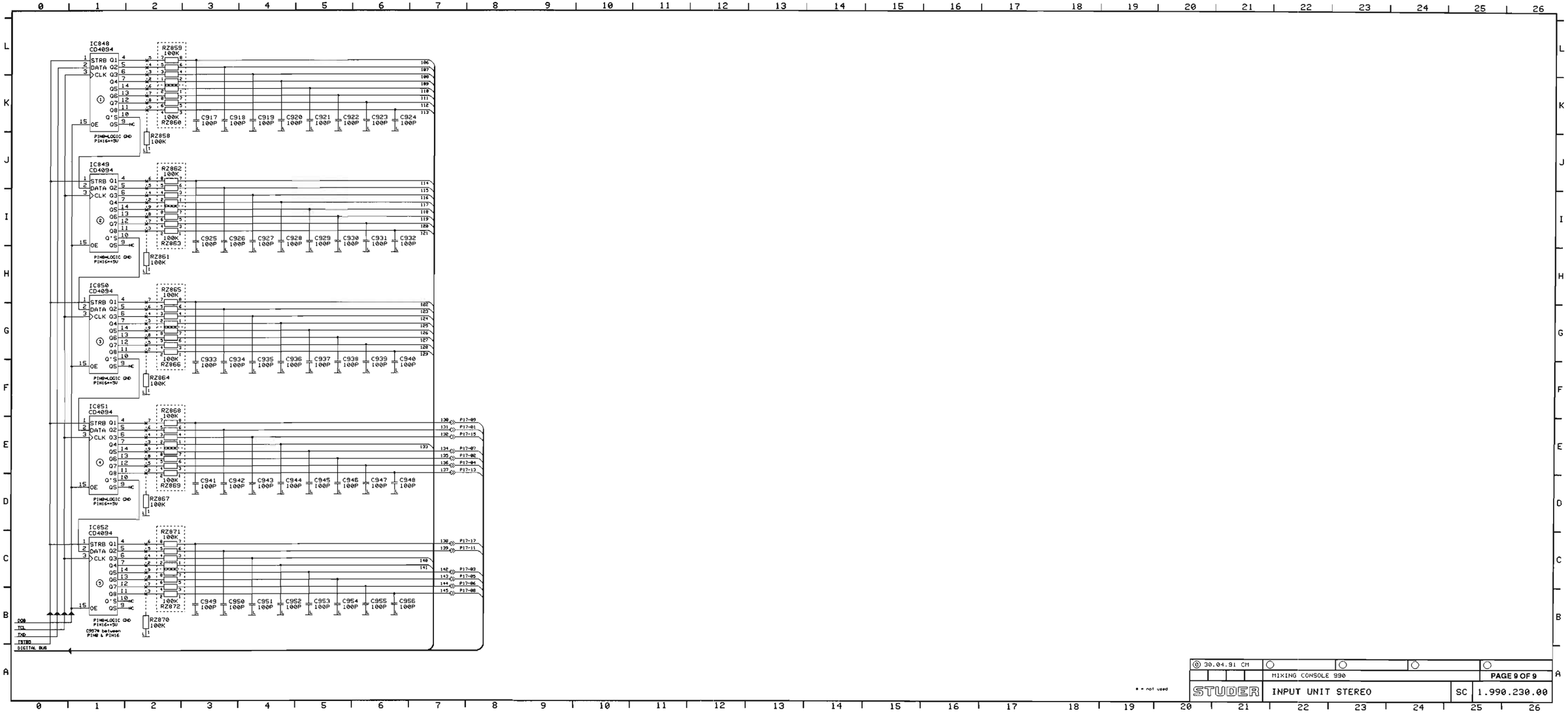
30.04.91 CM	MIXING CONSOLE 990		PAGE 6 OF 9
STUDER	INPUT UNIT STEREO	SC	1.990.230.00



* = not used

© 30.04.91 CM			PAGE 7 OF 9
STUDER	MIXING CONSOLE 990		
	INPUT UNIT STEREO	SC	1.990.230.00


A IN 4
P6-09A
P6-16B
+VREF
P6
R847 BAL 7-8
R846 AUX 5-6
R845 AUX 7-8
R844 BAL 5-6
R843 AUX 1
R842 AUX 4
R841 AUX 3
R840 AUX 2
R855 LF GAIN
R854 LF FREQ
R853 MF GAIN
R852 MF FREQ
R858 HF FREQ
R859 LIN
R857 HF GAIN
R856 SPREAD
C827 10N
Part of A7
1.990.296
P11-20
P11-19
P11-02
P11-03
P11-08
IC834 4051
IC835 4051
IC836 4051
IC837 CD4094
IC838 TL071
C89 +15V
C91 -15V
C90
R836 33
R835 10M
C849 270P
E VEE
PIN8=LOGIC GND
PIN16=+5V
C3589 between PIN16 & PIN8
RZ826
RZ825
RZ828
RZ827
RZ830
RZ829
RZ831 100K
+5V
C3588 between PIN16 & PIN8
IC840 CD4094
IC841 CD4094
IC842 CD4094
IC843 CD4094
RZ833 100K
RZ836 100K
RZ839 100K
RZ842 100K
RZ832 100K
RZ835 100K
RZ838 100K
RZ841 100K
C850 100P
C851 100P
C852 100P
C853 100P
C854 100P
C855 100P
C856 100P
C857 100P
C858 100P
C859 100P
C860 100P
C861 100P
C862 100P
C863 100P
C864 100P
C865 100P
C866 100P
C867 100P
C868 100P
C869 100P
C870 100P
C871 *
C872 *
C873 *
C874 100P
C875 100P
C876 100P
C877 100P
C878 *
C879 *
C880 *
C881 *
P17-16
P17-15
P17-18
P17-14
P17-20
P17-12
P17-19
P15-16
P15-14
P15-10
P15-09
P15-01
P15-12
P15-05
P15-03
P15-02
P15-04
P15-06
P15-11
P15-02
P15-17
P15-19
P15-07
P15-13
P15-15
P15-09
P15-18
not used
not used
IC844 CD4094
IC845 CD4094
IC846 CD4094
IC847 CD4094
RZ845 100K
RZ848 100K
RZ851 100K
RZ854 100K
RZ844 100K
RZ847 100K
RZ850 100K
RZ853 100K
C882 100P
C883 100P
C884 100P
C885 100P
C886 100P
C887 100P
C888 100P
C889 100P
C890 100P
C891 100P
C892 100P
C893 100P
C894 100P
C895 100P
C896 100P
C897 100P
C898 100P
C899 100P
C900 100P
C901 100P
C902 100P
C903 100P
C904 100P
C905 100P
C906 100P
C907 100P
C908 100P
C909 100P
C910 100P
C911 100P
C912 100P
C913 100P
P13-06
P13-04
P13-03
P13-02
P13-20
P13-19
P13-13
P13-11
P13-10
P13-12
not used
P13-14
P13-16
P13-10
P13-17
P13-09
P13-05
P13-15
P13-07
0.015 BF
not used
D841 1N4448
D842 1N4448
D840 1N4448
D839 1N4448
D838 1N4448
DOR
DOI
TDL
TXD
TSTB4
TSTB5
DIGITAL BUS
* = not used



* = not used

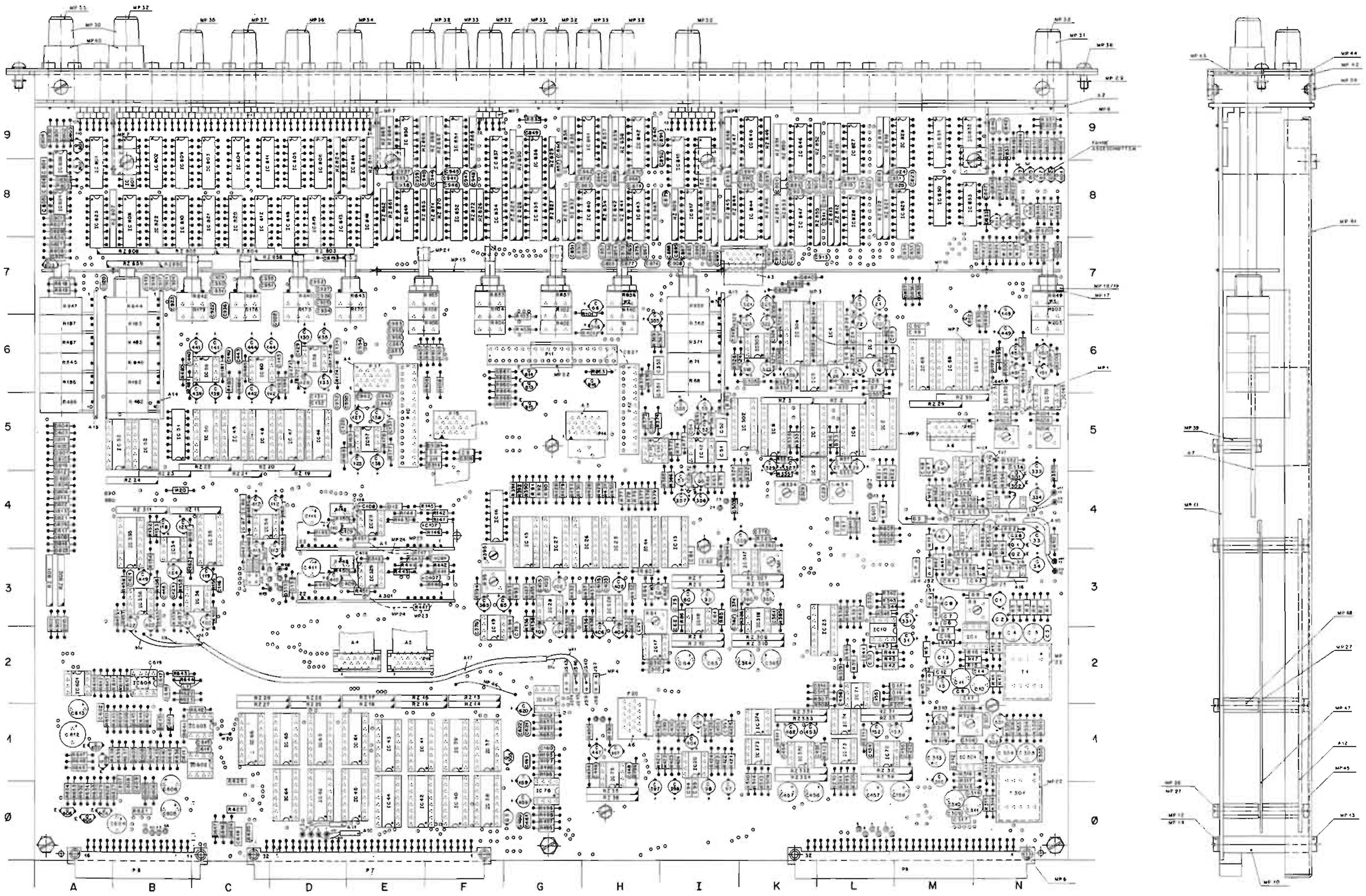
© 30.04.91 CM					
	MIXING CONSOLE 990				PAGE 9 OF 9
STUDER	INPUT UNIT STEREO		SC	1.990.230.00	

VALID FOR	NR. UNIT	POS - LIST	NR FRONT PANEL	NR. SIDE BOARD
INP UNIT STEREO VORMONTIERT	1.990.230-70	1.990.230-70	(MP 44)	(A(2)
INP UNIT STEREO UNIVERSAL MCH	1.990.230-00	1.990.230-00	1.990.230-01	1.990.288-00
INP UNIT STEREO HL + EQ MCH	1.990.232-00	1.990.232-00	1.990.232-01	1.990.289-00
INP UNIT STEREO HL MCH	1.990.235-00	1.990.235-00	1.990.235-01	—
INP UNIT STEREO UNIVERSAL B	1.990.240-00	1.990.230-00	1.990.240-01	1.990.288-00
INP UNIT STEREO HL + EQ B	1.990.242-00	1.990.232-00	1.990.242-01	1.990.289-00
INP UNIT STEREO HL B	1.990.245-00	1.990.235-00	1.990.245-01	—

VALID FOR	NR. UNIT	POS - LIST	NR. FRONT PANEL	NR. SIDE BOARD
GROUP UNIT VORMONTIERT	1.990.250-70	1.990.250-70	(MP 44)	(A(2)
GROUP UNIT MONO + EQ MCH	1.990.250-00	1.990.250-00	1.990.250-01	1.990.289-00
GROUP UNIT MONO MCH	1.990.255-00	1.990.255-00	1.990.255-01	—
GROUP UNIT MONO + EQ B	1.990.260-00	1.990.250-00	1.990.260-01	1.990.289-00
GROUP UNIT MONO B	1.990.265-00	1.990.255-00	1.990.265-01	—
GROUP UNIT STEREO + EQ MCH	1.990.270-00	1.990.270-00	1.990.250-01	1.990.289-00
GROUP UNIT STEREO MCH	1.990.275-00	1.990.275-00	1.990.255-01	—
GROUP UNIT STEREO + EQ B	1.990.280-00	1.990.270-00	1.990.260-01	1.990.289-00
GROUP UNIT STEREO B	1.990.285-00	1.990.275-00	1.990.265-01	—

INPUT UNIT STEREO

1.990.230.00



C114 / C414 NACH MUSTER EINLÖTEN (LS)
C145 / C146 / C445 / C446 NACH MUSTER EINLÖTEN (LS)
R147 / R447 NEU AUF LS → SIEHE MUSTER
C80 / C330 / C89 / C827 DAZU AUF LÖTSEITE → SIEHE MUSTER
C35 / C335 DAZU
MP47 / MP48 / 3 Stk. MP27 DAZU
C840 ENTFÄLLT

STUDER REGENSDORF ZÜRICH

INPUT UNIT STEREO ESE

1.990.230-00

12.2.91				①
27.10.90				⓪
Datum	Gez.	Gepr.	Ges.	Index

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Ad  ..POS..  ...REF.No...  DESCRIPTION.....MANUFACTURER

    A....2  1.990.238.00              SWITCH BOARD STEREO +EQ                St
    A....7  1.990.296.00              3*5 POT. 24.6MM BOARD                  St
    A....8  1.990.230.93              LL INPUT UNIT STEREO                   St
    A....9  1.990.230.94              KL INPUT UNIT STEREO                   St

    A....12 1.990.288.00              SIDE BOARD EQ+MIC.AMP.      ,A         St
    A....13 1.990.295.00              5 POT. 10MM BOARD                      St I6

    A....70 1.990.230.70              Baugruppe Stereo vorbestueckt          St

    C....77     . .       4700 pF                 59.05.2472  on 1.990.296 G6
    C....78     . .  0    not used                            on 1.990.296
    C....79     . .  0    not used                            on 1.990.296
    C....80     . .  0    not used                            on 1.990.296

    C....93     . .        100 nF                 59.22.3101  on 1.990.296 E5

    C....377    . .       4700 pF                 59.05.2472  on 1.990.296 F6

    C....393    . .        100 uF                 59.22.3101  on 1.990.296 E5

    IC...12     50.09.0117  MC33078P  dual  op. amp.  low noise          Not I5

    IC..312     50.09.0117  MC33078P  dual  op. amp.  low noise          Not H5

    MP...17  1.010.100.58     4 pcs  Kassebloch zu Preh-Pot Type 12
    MP...18    22.99.0137     4 pcs  6-Kt. Mutter M7*0.75
    MP...19    23.99.0122     4 pcs  U-Scheibe D 7.1/12*0.5

    MP...21  1.990.200.05     4 pcs  Poti-Achsverlaengerung
    MP...26    21.01.0279     5 pcs  Z-Schr. M2.5*6
    MP...27    24.16.1025     5 pcs  Rippenscheibe D 2.7 / 5
01  MP...27    24.16.1025     8 pcs  Rippenscheibe D 2.7 / 5
    MP...28    21.01.2352     6 pcs  S-Schr. M3*4
    MP...29    24.16.3023     2 pcs  Wellensicherung 2.3
    MP...30    42.01.0203     2 pcs  Drehknopf gr, D 10/4

    MP...31    42.01.0228    33 pcs  Knebelknopf gr, D 10/4
    MP...32    42.01.0250     7 pcs  Deckel b'gr, D 10
    MP...33    42.01.0251     4 pcs  Deckel d'gr, D 10
    MP...34    42.01.0253     1 pcs  Deckel   rt, D 10
    MP...35    42.01.0254     1 pcs  Deckel   bl, D 10
    MP...36    42.01.0255     1 pcs  Deckel   gb, D 10
    MP...37    42.01.0256     1 pcs  Deckel   ge, D 10
    MP...38  1.010.022.21     2 pcs  Linsenschr. spez M3*8
    MP...39  1.010.221.27     1 pcs  Mutterbolzen M2.5*10.5
    MP...40  1.912.000.03     2 pcs  Drehring D 6.2/13

    MP...41  1.990.200.03     1 pcs  Schirmbloch Input
    MP...42  1.990.210.02     1 pcs  Traeger Input
    MP...43  1.990.210.05     1 pcs  Fenster Input
    MP...44  1.990.230.01     1 pcs  Frontschild Input (1.990.240.01 -> BG 2401)
    MP...45  1.990.289.02     1 pcs  Isolation Side Board
01  MP...47  1.990.289.01     1 pcs  Schirmblech SIDE BOARD
01  MP...48  1.010.208.27     3 pcs  Nutterbolzen  M2.5x14mm

    P....21     . .       26 pol  1/20"          54.14.2003  on 1.990.296
    P....22     . .       26 pol  1/20"          54.14.2003  on 1.990.296

    R....68     . .        22 kOhm  10k  -log.comb.with R71/368/371/859 1295 I6

    R....73     . .        22 kOhm  10k  -log.see R  68 1.010.029.58 on A 13 I6

    R...102  1.010.107.58  4.7 kOhm  10k  lin.    comb.with R402/857      St G7
    R...104  1.010.107.58  4.7 kOhm  10k  lin.    comb.with R404/853      St F7
    R...106  1.010.107.58  4.7 kOhm  10k  lin.    comb.with R406/855      St E7
    R...109     . .       100 kOhm  10k  neg.log. 1.010.030.58 on 1.990.296 H5
    R...110     . .       100 kOhm  10k  neg.log. see R 109    on 1.990.296 H6

    R...111     . .       3.9 kOhm                57.11.3392  on 1.990.296 H6
    R...112     . .         1 MOhm                57.11.3105  on 1.990.296 G5
    R...113     . .       4.7 kOhm                57.11.3472  on 1.990.296 G5
    R...114     . .       100 kOhm  10k  neg.log. 1.010.030.58 on 1.990.296 G6
    R...115     . .       100 kOhm  10k  neg.log. see R 114    on 1.990.296 G5
    R...116     . .       100 kOhm  10k  neg.log. 1.010.030.58 on 1.990.296 F6
    R...117     . .       100 kOhm  10k  neg.log. see R 116    on 1.990.296 F5
    R...118     . .       4.7 kOhm                57.11.3472  on 1.990.296 F5

    R...140  1.010.102.58  10 kOhm  10k  pos log.comb. with R440/856     St H7

    R...368     . .        22 kOhm  10k  neg.log. see R  68              I6

    R...371     . .        22 kOhm  10k  neg.log. see R  68              I6

    R...402     . .       4.7 kOhm  10k  lin.     see R 102              G6
    R...404     . .       4.7 kOhm  10k  lin.     see R 104              F6
    R...406     . .       4.7 kOhm  10k  lin.     see R 106              E6
    R...409     . .       100 kOhm  10k  neg.log. see R 109    on 1.990.296 H5
    R...410     . .       100 kOhm  10k  neg.log. see R 109    on 1.990.296 H5

    R...411     . .       3.9 kOhm                57.11.3392  on 1.990.296 G4
    R...412     . .         1 MOhm                57.11.3105  on 1.990.296 F5
    R...413     . .       4.7 kOhm                57.11.3472  on 1.990.296 F5
    R...414     . .       100 kOhm  10k  neg.log. see R 114    on 1.990.296 G5
    R...415     . .       100 kOhm  10k  neg.log. see R 114    on 1.990.296 G5
    R...416     . .       100 kOhm  10k  neg.log. see R 116    on 1.990.296 F5
    R...417     . .       100 kOhm  10k  neg.log. see R 116    on 1.990.296 F5
    R...418     . .       4.7 kOhm                57.11.3472  on 1.990.296 F5

    R...440     . .  0    not used                see R 140              H6

    R...852     . .       100 kOhm  20%  lin.     see R 114    on 1.990.296 G6
    R...853     . .       100 kOhm  20%  lin.     see R 104              F7
    R...854     . .       100 kOhm  20%  lin.     see R 116    on 1.990.296 F6
    R...855     . .       100 kOhm  20%  lin.     see R 106              E7
    R...856     . .       100 kOhm  20%  lin.     see R 140              H7
    R...857     . .       100 kOhm  20%  lin.     see R 102              G7

Ad  ..POS..  ...REF.No...  DESCRIPTION.....MANUFACTURER

    R...858     . .       100 kOhm  20%  lin.     see R 109    on 1.990.296 H6
    R...859     . .       100 kOhm  20%  lin.     see R  68              I7

    W....110    . .         0 Ohm                 57.11.3000  on 1.990.296 G4

    W....111    . .         0 Ohm                 57.11.3000  on 1.990.296 G5

12/02/91 (01) Erleichterung Fertigung und Pruefung (Schirmblech und
              Mutterbolzen zu EQ werden erst am Schluss montiert)

 >> POSLST 1.990.230 gilt auch fuer BG 1.990.240.xx ( B - Version ) <<

          >----------------------------------------<
          | Die files zu dieser POSLST heissen  #990230A,B |
          >----------------------------------------<

Die poslista 1.990.230.70 ist in den files #990230S,T

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

OPTIONS :  SEE OPTIONLIST 1.990.230.00
=========

option 1 :.....multichannel out
option 2 :.....output trim for group units ( stereo : standard )
option 3 :.....0 ohm input to processing  ( only input unit stereo )

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Die Koordinaten bei Manuf. beziehen sich auf Bestueckplan

CE=Ceramic, CF=Carbon film, EL=Electrolytic, MF=Metal film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER: ADI=Aanalog Devices Inc., Bu=Burndy, El=Elco, Ex=Exar,
              Fc=Fairchild, Fe=Ferrazzi, GI=General Instrument, Ha=Harting,
              HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
              (Matsushita), NS=National Semiconductors, Ph=Philips,
              PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Corp. of
              America, SDS=SDS-Relais, Sie=Siemens, Sil=Siliconix, St=Studer,
              Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaichi

              1.990.230.00  INPUT UNIT STEREO UNIV. MCH   AB 91/02/0400

              1.990.230.00  INPUT UNIT STEREO UNIV. MCH   AB 91/02/1201

 END
*

Ad  ..POS..  ...REF.No...  DESCRIPTION.....MANUFACTURER

    A....1  1.911.292.00              VCA                                    St E4
    A....2      . .  0    NOT USED
    A....3  1.023.412.02              1/40 * flatcable connect. 200mm 20pol  St
    A....4  1.023.412.14              1/40 * flatcable connect. 140mm 20pol  St
    A....5  1.023.412.14              1/40 * flatcable connect. 140mm 20pol  St
    A....6  1.023.412.25              1/40 * flatcable connect. 250mm 20pol  St
    A....7      . .  0    NOT USED                                                 I3
    A....8      . .  0    NOT USED                                                 G5
    A....9      . .  0    NOT USED                                                 G5
    A....10     . .  0    not used                OPTION 3                         K6

    A....11     . .  0    not used                OPTION 3                         I7
    A....12     . .  0    NOT USED                                                 C4
    A....13     . .  0    NOT USED                                                 M5
    A....14  1.990.297.00             6 POT. 10mm Board (Poti 1.010.035.58)  St B5
    A....16  1.990.297.00             6 POT. 10mm Board (Poti 1.010.035.58)  St A5
    A....16     . .  0    not used                OPTION 3                         A7
    A....17  1.990.240.54             KL Input Unit Stereo                   F2

    A....70     . .  0    NOT USED                                                 E5

    A...301  1.911.292.00             VCA                                    St E3

    A...316     . .  0    not used                OPTION 3                         M3

    C.....1  59.22.3101       100 uF  -20%  10V  EL                              M3
    C.....2  59.22.3101       100 uF  -20%  10V  EL                              K3
    C.....3  59.34.5471       470 pF                CE                         M2
    C.....4  59.05.1102         1 nF    1%  500V  PP                             M2
    C.....5  59.05.1102         1 nF    1%  500V  PP                             M2
    C.....6  59.34.7151       150 pF    2%        CE                             K3
    C.....7  59.34.7151       150 pF    2%        CE                             K3
    C.....8  59.22.3101       100 uF  -20%  10V  EL                              K3
    C.....9  59.34.5471       470 pF                CE                         M2
    C....10  59.05.1102         1 nF    1%  500V  PP                             M2

    C....11  59.05.1102         1 nF    1%  500V  PP                             M2
    C....12  59.06.5152       1.5 nF   10%        PE                             M2
    C....13  59.22.2221       220 uF  -20%   6V  EL                              M2
    C....14  59.34.2470        47 pF                CE                         M2
    C....15  59.22.3101       100 uF  -20%  10V  EL                              M2
    C....16  59.06.0104       100 nF                PE                         M2
    C....17  59.06.0104       100 nF                PE                         M2
    C....18  59.22.6220        22 uF  -20%  16V  EL                              L6
    C....19  59.34.7151       150 pF    2%        CE                             L6
    C....20  59.22.3101       100 uF  -20%  10V  EL                              L6

    C....21  59.22.6100        10 uF  -20%  10V  EL                              L7
    C....22  59.22.6100        10 uF  -20%  10V  EL                              L6
    C....23  59.22.6220        22 uF  -20%  16V  EL                              L6
    C....24  59.34.0229       2.2 pF                CE                         L6
    C....25  59.22.3101       100 uF  -20%  10V  EL                              L7
    C....26  59.22.3101       100 uF  -20%  10V  EL                              L6
    C....27  59.22.6220        22 uF  -20%  16V  EL                              L5
    C....28  59.34.7151       150 pF    2%        CE                             L4
    C....29  59.22.3101       100 uF  -20%  10V  EL                              L5
01  C....30  59.32.4152       1.5 nF                CE  (LS)                       I4

    C....31  59.22.3101       100 uF  -20%  10V  EL                              M2
    C....32  59.34.7220        22 pF    2%        CE                             L2
    C....33      . .  0    not used                OPTION 3                         M4
    C....34      . .  0    not used                OPTION 3                         M3
    C....35      . .  0    not used                OPTION 3                         M3
    C....36      . .  0    not used                OPTION 3                         M4
    C....37      . .  0    not used                OPTION 3                         M3
    C....38      . .  0    not used                OPTION 3                         M3
    C....39      . .  0    not used                OPTION 3                         M3
    C....40      . .  0    not used                OPTION 3                         M4

    C....41      . .  0    not used                                                 M2
    C....42      . .  0    not used                                                 L2
    C....43      . .  0    not used                OPTION 3                         M3
    C....44      . .  0    not used                OPTION 3                         M3
    C....45  59.06.0104       100 nF                PE                         M4
    C....46  59.06.0104       100 nF                PE                         M4
    C....47      . .  0    not used                OPTION 3                         M5
    C....48      . .  0    not used                OPTION 3                         M5
    C....49  59.06.0104       100 nF                PE                         M6
    C....50  59.06.0104       100 nF                PE                         M6

    C....51  59.06.5334       330 nF    1%        PE                             I5
    C....52  59.06.5334       330 nF    1%        PE                             I5
    C....53  59.22.6220        22 uF  -20%  16V  EL                              I5
    C....54  59.34.2330        33 pF    2%        CE                             I5
    C....55  59.22.3101       100 uF  -20%  10V  EL                              I5
    C....56  59.22.3470        47 uF  -20%  10V  EL                              I4
    C....57  59.22.3470        47 uF  -20%  10V  EL                              I4
    C....58  59.22.3101       100 uF  -20%  10V  EL                              H3
    C....59  59.22.3101       100 uF  -20%  10V  EL                              I3
    C....60  59.22.3101       100 uF  -20%  10V  EL                              I3

    C....61  59.34.7151       150 pF    2%        CE                             I3
    C....62  59.34.4101       100 pF    2%        CE                             I3
    C....63  59.22.2221       220 uF  -20%   6V  EL                              I2
    C....64  59.22.2221       220 uF  -20%   6V  EL                              I2
    C....65  59.22.3101       100 uF  -20%  10V  EL                              F3
    C....66  59.22.3101       100 uF  -20%  10V  EL                              H7
    C....67  59.06.0104       100 nF                PE                         L4
    C....68  59.06.0104       100 nF                PE                         L4
    C....69      . .  0    not used                                                 L4
    C....70      . .  0    not used                                                 G0

    C....71      . .  0    not used                                                 G0
    C....72      . .  0    not used                                                 G0
    C....74  59.34.7220        22 pF    2%        CE                             H2
    C....75  59.34.4101       100 pF    2%        CE                             I3
    C....76  59.34.2330        33 pF                CE                         G2

Ad  ..POS..  ...REF.No...  DESCRIPTION.....MANUFACTURER

    C....77      . .  0    NOT USED                                                 M1
    C....78      . .  0    not used                                                 M0
    C....79      . .  0    not used                                                 K6
    C....80      . .  0    not used                                                 I6

    C....81  59.06.0104       100 nF                PE                         I3
    C....82  59.06.0104       100 nF                PE                         I3
    C....83      . .  0    not used                                                 G5
    C....84      . .  0    not used                                                 G5
    C....85      . .  0    not used                                                 G5
    C....86  59.06.0104       100 nF                PE                         C4
    C....87  59.06.0104       100 nF                PE                         C4
    C....88      . .  0    not used                                                 M5
    C....89      . .  0    not used                                                 A7
    C....90      . .  0    not used                                                 A7

    C....91      . .  0    not used                                                 A7
    C....93      . .  0    NOT USED                                                 E5
    C....94  59.06.0104       100 nF                PE                         I0
    C....95  59.06.0104       100 nF                PE                         I0
    C....97  59.22.3101       100 uF  -20%  10V  EL                              I0
    C....98  59.22.3101       100 uF  -20%  10V  EL                              I1
    C....99  59.34.7151       150 pF    2%        CE                             I1
    C...100  59.34.7151       150 pF    2%        CE                             I1

    C...101  59.22.3101       100 uF  -20%  10V  EL                              I1
    C...102  59.22.6220        22 uF  -20%  16V  EL                              G3
    C...103  59.34.7151       150 pF    2%        CE                             G3
    C...104  59.22.3101       100 uF  -20%  10V  EL                              G2
    C...105  59.34.7151       150 pF    2%        CE                             G2
    C...106  59.22.3101       100 uF  -20%  10V  EL                              G2
    C...107  59.26.1220        22 uF  -20%  10V  SAL                             F4
    C...108  59.26.5109         1 nF  -20%  10V  SAL                             E4
    C...109  59.34.2330        33 pF                CE                         D4
    C...110  59.22.3101       100 uF  -20%  10V  EL                              D4

    C...111  59.22.3471       470 uF  -20%   6V  EL                              D4
    C...112  59.22.3101       100 uF  -20%  10V  EL                              D4
    C...113  59.22.3101       100 uF  -20%  10V  EL                              D4
    C...114  59.34.4101       100 pF                CE  (LS)                   E4
    C...116  59.34.7151       150 pF    2%        CE                             C3
    C...118  59.22.3101       100 uF  -20%  10V  EL                              B4
    C...119  59.22.6220        22 uF  -20%   6V  EL                              C3
    C...120  59.22.3101       100 uF  -20%  10V  EL                              C3

    C...121  59.34.7151       150 pF    2%        CE                             B3
    C...122  59.22.3101       100 uF  -20%  10V  EL                              B3
    C...123  59.22.6220        22 uF  -20%  16V  EL                              B4
    C...124  59.22.3101       100 uF  -20%  10V  EL                              B3
    C...125  59.22.6220        22 uF  -20%  10V  EL                              E5
    C...126  59.34.7151       150 pF    2%        CE                             D5
    C...127  59.22.3101       100 uF  -20%  10V  EL                              E5
    C...128  59.22.6220        22 uF  -20%  10V  EL                              D6
    C...129  59.34.7151       150 pF    2%        CE                             D6
    C...130  59.22.3101       100 uF  -20%  10V  EL                              D6

    C...131  59.06.0104       100 nF                PE                         D6
    C...132  59.06.0104       100 nF                PE                         D5
    C...133  59.22.6220        22 uF  -20%  10V  EL                              D6
    C...134  59.34.7151       150 pF    2%        CE                             D6
    C...135  59.22.3101       100 uF  -20%  10V  EL                              D6
    C...136  59.22.6220        22 uF  -20%  10V  EL                              E5
    C...137  59.34.7151       150 pF    2%        CE                             E5
    C...138  59.22.3101       100 uF  -20%  10V  EL                              E6
    C...139  59.22.6220        22 uF  -20%  10V  EL                              C6
    C...140  59.34.7151       150 pF    2%        CE                             C6

    C...141  59.22.3101       100 uF  -20%  10V  EL                              C6
    C...142  59.22.6220        22 uF  -20%  10V  EL                              D6
    C...143  59.34.7151       150 pF    2%        CE                             D6
    C...144  59.22.3101       100 uF  -20%  10V  EL                              D6
    C...145  59.34.4101       100 pF                CE  (LS)                   M5
    C...146  59.34.2330        33 pF                CE  (LS)                   M5
    C...147  59.22.3101       100 uF  -20%  10V  EL                              M1
    C...148  59.34.7151       150 pF    2%        CE                             M1
    C...149  59.22.3101       100 uF  -20%  10V  EL                              M7
    C...150  59.22.3101       100 uF  -20%  10V  EL                              M6

    C...151  59.22.3101       100 uF  -20%  10V  EL                              M6
    C...152  59.22.3101       100 uF  -20%  10V  EL                              L1
    C...153  59.22.3101       100 uF  -20%  10V  EL                              M1
    C...154  59.34.7151       150 pF    2%        CE                             L1
    C...155  59.34.4101       100 pF                CE                         M1
    C...156  59.34.7220        22 pF    2%        CE                             L2
    C...157  59.22.2221       220 uF  -20%   6V  EL                              L0
    C...158  59.22.2221       220 uF  -20%   6V  EL                              M0
    C...159  59.22.3101       100 uF  -20%  10V  EL                              G1
    C...160  59.34.7220        22 pF    2%        CE                             G1

    C...161  59.34.7220        22 pF    2%        CE                             G1

    C...301  59.22.3101       100 uF  -20%  10V  EL                              M1
    C...302  59.22.3101       100 uF  -20%  10V  EL                              M1
    C...303  59.34.5471       470 pF                CE                         M1
    C...304  59.05.1102         1 nF    1%  500V  PP                             M1
    C...305  59.05.1102         1 nF    1%  500V  PP                             M1
    C...306  59.34.7151       150 pF    2%        CE                             M1
    C...307  59.34.7151       150 pF    2%        CE                             M1
    C...308  59.22.3101       100 uF  -20%  10V  EL                              M1
    C...309  59.34.5471       470 pF                CE                         M0
    C...310  59.05.1102         1 nF    1%  500V  PP                             M0

    C...311  59.05.1102         1 nF    1%  500V  PP                             M0
    C...312  59.06.5152       1.5 nF   10%        PE                             M1
    C...313  59.22.2221       220 uF  -20%   6V  EL                              M1
    C...314  59.34.2470        47 pF                CE                         M0
    C...315  59.22.3101       100 uF  -20%  10V  EL                              M1

Ad  ..POS..  ...REF.No...  DESCRIPTION.....MANUFACTURER

    C...316  59.06.0104       100 nF                PE                         M1
    C...317  59.06.0104       100 nF                PE                         M0
    C...318  59.22.6220        22 uF  -20%  16V  EL                              K6
    C...319  59.34.7151       150 pF    2%        CE                             I6
    C...320  59.22.3101       100 uF  -20%  10V  EL                              K6

    C...321  59.22.6100        10 uF  -20%  10V  EL                              K7
    C...322  59.22.6100        10 uF  -20%  10V  EL                              K6
    C...323  59.22.6220        22 uF  -20%  16V  EL                              K6
    C...324  59.34.0229       2.2 pF                CE                         K6
    C...325  59.22.3101       100 uF  -20%  10V  EL                              K7
    C...326  59.22.3101       100 uF  -20%  10V  EL                              K6
    C...327  59.22.6220        22 uF  -20%  16V  EL                              K6
    C...328  59.34.7151       150 pF    2%        CE                             K4
    C...329  59.22.3101       100 uF  -20%  10V  EL                              K5
01  C...330  59.32.4152       1.5 nF                CE  (LS)                   H5

    C...331  59.22.3101       100 uF  -20%  10V  EL                              M3
    C...332  59.34.7220        22 pF    2%        CE                             L3
    C...333      . . .  0  not used                          OPTION 3             M5
    C...334      . . .  0  not used                          OPTION 3             M4
    C...335      . . .  0  not used                          OPTION 3             M4
    C...336      . . .  0  not used                          OPTION 3             M5
    C...337      . . .  0  not used                          OPTION 3             M4
    C...338      . . .  0  not used                          OPTION 3             M4
    C...339      . . .  0  not used                          OPTION 3             M4
    C...340      . . .  0  not used                          OPTION 3             M5

    C...351  59.06.5334       330 nF    1%        PE                             H6
    C...352  59.06.5334       330 nF    1%        PE                             H6
    C...353  59.22.6220        22 uF  -20%  16V  EL                              I5
    C...354  59.34.2330        33 pF    2%        CE                             H5
    C...355  59.22.3101       100 uF  -20%  10V  EL                              H6
    C...356  59.22.3470        47 uF  -20%  10V  EL                              I4
    C...357  59.22.3470        47 uF  -20%  10V  EL                              I4
    C...358  59.22.3101       100 uF  -20%  10V  EL                              K4
    C...359  59.22.3101       100 uF  -20%  10V  EL                              K3
    C...360  59.22.3101       100 uF  -20%  10V  EL                              K3

    C...361  59.34.7151       150 pF    2%        CE                             K3
    C...362  59.34.4101       100 pF    2%        CE                             I3
    C...363  59.22.2221       220 uF  -20%   6V  EL                              K2
    C...364  59.22.2221       220 uF  -20%   6V  EL                              K2
    C...365  59.22.3101       100 uF  -20%  10V  EL                              F3
    C...366  59.22.3101       100 uF  -20%  10V  EL                              H6

    C...374  59.34.7220        22 pF    2%        CE                             I3
    C...375  59.34.4101       100 pF    2%        CE                             K4
    C...376  59.34.2330        33 pF    2%        CE                             K3
    C...377      . . .  0  NOT USED                                               F6

    C...393      . . .  0  NOT USED                                               E5
01  C...827  59.06.0103        10 nF                PE  (LS)                   F7

    C...831  59.34.4101       100 pF    2%        CE                             M8
    C...832  59.34.4101       100 pF    2%        CE                             M7
    C...833  59.34.4101       100 pF    2%        CE                             M7
    C...834  59.34.4101       100 pF    2%        CE                             M7
    C...839      . . .  0  not used                                               M8
    C...840  59.06.0682       6.8 nF                PE                         M8
01  C...840      . . .  0  not used                                               M8

    C...841  59.06.0104       100 nF                PE                         M7
    C...842  59.34.4221       220 pF                CE                         M9
    C...843      . . .  0  not used                                               M8
    C...844      . . .  0  not used                                               M9
    C...846  59.34.4101       100 pF                CE                         M9
    C...847  59.34.4101       100 pF                CE                         M8
    C...848      . . .  0  not used                                               F9
    C...849  59.34.4271       270 pF                CE                         G9
    C...850  59.34.4101       100 pF    2%        CE                             G7

    C...851  59.34.4101       100 pF    2%        CE                             G7
    C...852  59.99.1101       100 pF              CE                             G8
    C...853  59.34.4101       100 pF    2%        CE                             E6
    C...854  59.99.1101       100 pF              CE                             M7
    C...855  59.99.1101       100 pF              CE                             M7
    C...856  59.34.4101       100 pF    2%        CE                             M7
    C...857  59.34.4101       100 pF    2%        CE                             M7
    C...858  59.34.4101       100 pF    2%        CE                             M8
    C...859  59.34.4101       100 pF    2%        CE                             M7
    C...860  59.99.1101       100 pF              CE                             G9

    C...861  59.34.4101       100 pF    2%        CE                             E6
    C...862  59.34.4101       100 pF    2%        CE                             K6
    C...863  59.34.4101       100 pF    2%        CE                             K8
    C...864  59.34.4101       100 pF    2%        CE                             K8
    C...865  59.34.4101       100 pF    2%        CE                             M8
    C...866  59.99.1101       100 pF    2%        CE                             M8
    C...867  59.34.4101       100 pF    2%        CE                             M7
    C...868  59.99.1101       100 pF              CE                             M8
    C...869  59.99.1101       100 pF              CE                             M7
    C...870  59.99.1101       100 pF              CE                             M8

    C...871      . . .  0  not used                                               M8
    C...872      . . .  0  not used                                               M8
    C...873      . . .  0  not used                                               M8
    C...874  59.34.4101       100 pF    2%        CE                             M7
    C...875  59.34.4101       100 pF    2%        CE                             M7
    C...876  59.99.1101       100 pF    2%        CE                             M7
    C...877  59.99.1101       100 pF    2%        CE                             M7
    C...878      . . .  0  not used                                               I8
    C...879      . . .  0  not used                                               I8
    C...880      . . .  0  not used                                               I7

    C...881      . . .  0  not used                                               M7
    C...882  59.34.4101       100 pF    2%        CE                             I7
    C...883  59.99.1101       100 pF    2%        CE                             I7
```

INPUT UNIT STEREO

1.990.230.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	C...884	59.34.4101	100 pF 2% CE	I7
	C...885	59.34.4101	100 pF 2% CE	I7
	C...886	59.99.1101	100 pF CE	I7
	C...887	59.99.1101	100 pF 2% CE	I7
	C...888	59.34.4101	100 pF 2% CE	I7
	C...889	59.34.4101	100 pF 2% CE	I7
	C...890	59.34.4101	100 pF 2% CE	K8
	C...891	59.34.4101	100 pF 2% CE	I9
	C...892	59.34.4101	100 pF 2% CE	I9
	C...893	. . 0	not used	I8
	C...894	59.34.4101	100 pF 2% CE	K8
	C...895	59.34.4101	100 pF 2% CE	K8
	C...896	59.34.4101	100 pF 2% CE	K8
	C...897	59.34.4101	100 pF 2% CE	K8
	C...898	59.34.4101	100 pF 2% CE	K8
	C...899	59.34.4101	100 pF 2% CE	L8
	C...900	59.34.4101	100 pF 2% CE	K7
	C...901	59.34.4101	100 pF 2% CE	K8
	C...902	59.34.4101	100 pF 2% CE	K8
	C...903	59.34.4101	100 pF 2% CE	K8
	C...904	59.34.4101	100 pF 2% CE	K8
	C...905	59.34.4101	100 pF 2% CE	L8
	C...906	59.34.4101	100 pF 2% CE	K7
	C...907	59.34.4101	100 pF 2% CE	K7
	C...908	59.99.1101	100 pF CE	I7
	C...909	59.34.4101	100 pF 2% CE	K7
	C...910	59.34.4101	100 pF 2% CE	L8
	C...911	59.34.4101	100 pF 2% CE	L8
	C...912	. . 0	not used	L7
	C...913	59.34.4101	100 pF 2% CE	L7
	C...914	. . 0	not used	K9
	C...915	. . 0	not used (TCL)	A7
	C...916	. . 0	not used (TXD)	C8
	C...917	59.34.4101	100 pF 2% CE	B7
	C...918	59.34.4101	100 pF 2% CE	B7
	C...919	59.34.4101	100 pF 2% CE	B7
	C...920	59.34.4101	100 pF 2% CE	A7
	C...921	59.34.4101	100 pF 2% CE	B7
	C...922	59.34.4101	100 pF 2% CE	C7
	C...923	59.34.4101	100 pF 2% CE	B7
	C...924	59.34.4101	100 pF 2% CE	B7
	C...925	59.34.4101	100 pF 2% CE	D7
	C...926	59.34.4101	100 pF 2% CE	D7
	C...927	59.34.4101	100 pF 2% CE	D7
	C...928	59.34.4101	100 pF 2% CE	D7
	C...929	59.34.4101	100 pF 2% CE	C7
	C...930	59.34.4101	100 pF 2% CE	C7
	C...931	59.34.4101	100 pF 2% CE	C7
	C...932	59.34.4101	100 pF 2% CE	D5
	C...933	59.34.4101	100 pF 2% CE	E8
	C...934	59.34.4101	100 pF 2% CE	D7
	C...935	59.34.4101	100 pF 2% CE	C7
	C...936	59.34.4101	100 pF 2% CE	C7
	C...937	59.34.4101	100 pF 2% CE	E8
	C...938	59.34.4101	100 pF 2% CE	E8
	C...939	59.99.1101	100 pF CE	E8
	C...940	59.99.1101	100 pF CE	E8
	C...941	59.34.4101	100 pF 2% CE	F8
	C...942	59.34.4101	100 pF 2% CE	E5
	C...943	59.34.4101	100 pF 2% CE	E5
	C...944	59.99.1101	100 pF CE	F8
	C...945	59.34.4101	100 pF 2% CE	F8
	C...946	59.34.4101	100 pF 2% CE	F8
	C...947	59.34.4101	100 pF 2% CE	F8
	C...948	59.34.4101	100 pF 2% CE	F8
	C...949	59.34.4101	100 pF 2% CE	E5
	C...950	59.34.4101	100 pF 2% CE	D5
	C...951	59.34.4101	100 pF 2% CE	C7
	C...952	59.34.4101	100 pF 2% CE	D7
	C...953	59.34.4101	100 pF 2% CE	E6
	C...954	59.34.4101	100 pF 2% CE	E6
	C...955	59.34.4101	100 pF 2% CE	E6
	C...956	59.34.4101	100 pF 2% CE	E6
	C...957	. . 0	not used	F8
	C...958	. . 0	not used	G8
	D.....3	50.04.0125	1N4448	any M4
	D.....4	50.04.0125	1N4448	any L6
	D.....5	50.04.0125	1N4448	any L6
	D.....6	50.04.0125	1N4448	any L7
	D.....7	50.04.0125	1N4448	any L6
	D.....8	50.04.0125	1N4448	any F5
	D.....9	50.04.0125	1N4448	any F5
	D....10	50.04.0125	1N4448	any M2
	D....11	50.04.0125	1N4448	any F5
	D....12	50.04.0125	1N4448	any E4
	D....13	50.04.0125	1N4448	any D3
	D....14	50.04.0125	1N4448	any M2
	D....15	50.04.0125	1N4448	any M2
	D...303	50.04.0125	1N4448	any I4
	D...304	50.04.0125	1N4448	any K6
	D...305	50.04.0125	1N4448	any K6
	D...306	50.04.0125	1N4448	any K7
	D...307	50.04.0125	1N4448	any L6
	D...308	50.04.0125	1N4448	any F5
	D...309	50.04.0125	1N4448	any F5
	D...310	50.04.0125	1N4448	any M2
	D...311	50.04.0125	1N4448	any F5
	D...312	50.04.0125	1N4448	any E3
	D...313	50.04.0125	1N4448	any D3
	D...314	50.04.0125	1N4448	any L2
	D...315	50.04.0125	1N4448	any L2
	D...601	50.04.0105	1N4004 1A /100 V	any N7
	D...602	50.04.0125	1N4448 70V	any N9
	D...603	50.04.0125	1N4448	any A5
	D...604	50.04.0125	1N4448	any A5
	D...605	50.04.0122	1N4001 1A / 50V	any B0
	D...606	50.04.0122	1N4001 1A / 50V	any B0
	D...607	50.04.0125	1N4448	any B1
	D...608	50.04.0125	1N4448	any B1
	D...609	50.04.0125	1N4448	any B1
	D...610	50.04.0125	1N4448	any B1
	D...611	50.04.0125	1N4448	any B1
	D...613	50.04.0125	1N4448	any B1
	D...614	50.04.0125	1N4448	any B1
	D...615	50.04.0125	1N4448	any B1
	D...616	50.04.0122	1N4001 1A / 50V	any C0
	D...617	50.04.0122	1N4001 1A / 50V	any C0
	D...801	50.04.0125	1N4448	any A8
	D...802	50.04.0127	BAT 85 schottky	any A9
	D...803	50.04.0127	BAT 85 schottky	any A9
	D...804	50.04.0125	1N4448	any A4
	D...805	50.04.0125	1N4448	any A5
	D...806	50.04.0125	1N4448	any A4
	D...807	50.04.0125	1N4448	any A5
	D...808	50.04.0125	1N4448	any A4
	D...809	50.04.0125	1N4448	any A4
	D...810	50.04.0125	1N4448	any A5
	D...811	50.04.0125	1N4448	any A5
	D...812	50.04.0125	1N4448	any A5
	D...813	50.04.0125	1N4448	any A4
	D...814	50.04.0125	1N4448	any A4
	D...815	50.04.0125	1N4448	any A3
	D...816	50.04.0125	1N4448	any A4
	D...817	50.04.0125	1N4448	any A4
	D...818	50.04.0125	1N4448	any A5
	D...819	50.04.0125	1N4448	any D7
	D...820	50.04.0125	1N4448	any A4
	D...821	50.04.0125	1N4448	any A4
	D...822	50.04.0125	1N4448	any A4
	D...823	50.04.0125	1N4448	any A4
	D...824	. . 0	not used (TCL)	A7
	D...825	. . 0	not used (TXD)	C8
	D...826	. . 0	not used (DOO)	G9
	D...827	50.04.0127	BAT 85 schottky	any A7
	D...828	50.04.0127	BAT 85 schottky	any A8
	D...829	50.04.0125	1N4448	any A7
	D...830	50.04.0125	1N4448	any A8
	D...831	50.04.1118	6.2 V 400mW Z-diode	any K7
	D...832	50.04.0125	1N4448	any N9
	D...833	50.04.0125	1N4448	any N8
	D...834	50.04.0125	1N4448	any N8
	D...835	50.04.0125	1N4448	any N7
	D...836	50.04.0125	1N4448	any N7
	D...837	50.04.0125	1N4448	any N7
	D...838	50.04.0125	1N4448	any K7
	D...839	50.04.0125	1N4448	any K7
	D...840	50.04.0125	1N4448	any K7
	D...841	50.04.0125	1N4448	any L4
	D...842	50.04.0125	1N4448	any L4
	IC....1	50.09.0117	MC33078P dual op. amp. low noise	Mot M2
	IC....2	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA L6
	IC....3	50.09.0117	MC33078P dual op. amp. low noise	Mot L6
	IC....4	50.07.0037	AD7528JN D/A converter 8 bit dual multiplexer	ADI L6
	IC....5	50.09.0117	MC33078P dual op. amp. low noise	Mot K6
	IC....6	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA L5
	IC....7	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA K5
	IC....8	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA K5
	IC....9	50.09.0117	MC33078P dual op. amp. low noise	Mot K5
	IC...10	50.09.0117	MC33078P dual op. amp. low noise	Mot L2
	IC...11	. . 0	not used OPTION 3	M4
	IC...12	. . 0	NOT USED	I5
	IC...13	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA I4
	IC...14	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA H4
	IC...15	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA G4
	IC...16	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA F4
	IC...17	50.09.0117	MC33078P dual op. amp. low noise	Mot M2
	IC...18	50.09.0101	TL072 dual op. amp. FET	TI I3
	IC...19	50.09.0117	MC33078P dual op. amp. low noise	Mot F3
	IC...20	50.09.0117	MC33078P dual op. amp. low noise	Mot I1
	IC...23	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA L2
	IC...25	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA N4
	IC...26	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA N4
	IC...27	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA G4
	IC...28	50.09.0106	5532AN dual op. amp. low noise	Sig,Ra G3
	IC...29	50.09.0117	MC33078P dual op. amp. low noise	Mot E4
	IC...34	50.09.0117	MC33078P dual op. amp. low noise	Mot B4
	IC...35	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA C4
	IC...36	50.09.0106	NE5532AN dual op. amp. low noise	Sig,Ra C3
	IC...37	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA F1
	IC...38	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA F0
	IC...39	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA F1
	IC...40	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA F0
	IC...41	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA E1
	IC...42	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA E0
	IC...43	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA E1
	IC...44	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA E0
	IC...45	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA E0
	IC...46	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA D5
	IC...47	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA D5
	IC...48	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA C5
	IC...49	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA C5
	IC...50	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA C5
	IC...51	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA B5
	IC...52	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA B5
	IC...53	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA B5
	IC...54	50.09.0117	MC33078P dual op. amp. low noise	Mot C4
	IC...57	50.09.0117	MC33078P dual op. amp. low noise	Mot E5
	IC...58	50.09.0117	MC33078P dual op. amp. low noise	Mot D6
	IC...59	50.09.0117	MC33078P dual op. amp. low noise	Mot C6
	IC...60	50.09.0117	MC33078P dual op. amp. low noise	Mot C6
	IC...61	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA E1
	IC...62	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA D0
	IC...63	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA D1
	IC...64	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA D0
	IC...65	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA D1
	IC...66	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA C1
	IC...67	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA N6
	IC...68	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA N6
	IC...69	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA N6
	IC...70	50.09.0117	MC33078P dual op. amp. low noise	Mot N5
	IC...71	50.09.0101	TL 072 dual op. amp. FET	TI L2
	IC...72	50.09.0106	NE5532AN dual op. amp. low noise	Sig,Ra L1
	IC...73	. . 0	not used	L1
	IC...74	. . 0	not used	L1
	IC...75	50.09.0106	NE5532AN dual op. amp. low noise	Sig,Ra H1
	IC...76	50.09.0117	MC33078P dual op. amp. low noise	Mot G0
	IC..301	50.09.0117	MC33078P dual op. amp. low noise	Mot M1
	IC..302	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA K5
	IC..303	50.09.0117	MC33078P dual op. amp. low noise	Mot K6
	IC..304	50.07.0037	AD7528JN D/A converter 8 bit dual multiplexer	ADI K6
	IC..311	. . 0	not used OPTION 3	N5
	IC..312	. . 0	NOT USED	N5
	IC..317	50.09.0117	MC33078 dual op. amp. low noise	Mot K3
	IC..318	50.09.0101	TL072 dual op. amp. FET	TI K3
	IC..328	50.09.0106	5532AN dual op. amp. low noise	Sig,Ra N3
	IC..329	50.09.0117	MC33078P dual op. amp. low noise	Mot E3
	IC..335	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA B4
	IC..336	50.09.0106	NE5532AN dual op. amp. low noise	Sig,Ra B3
	IC..370	50.09.0117	MC33078P dual op. amp. low noise	Mot N5
	IC..372	50.09.0106	NE5532AN dual op. amp. low noise	Sig,Ra K1
	IC..373	. . 0	not used	K1
	IC..374	. . 0	not used	K1
	IC..601	50.09.0119	TL 062 dual fet op. amp.	Tho A2
	IC..602	50.09.0117	MC33078P dual op. amp. low noise	Mot C1
	IC..603	50.05.0244	NE5534NB single op. amp. low noise	Sig,Ra C1
	IC..604	1.010.051.50	NE5532AN dual op.amp. select.offset +/- 1mV	Sig,Ra B2
	IC..605	50.09.0117	MC33078P dual op. amp. low noise	Mot G2
	IC..801	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA A9
	IC..802	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA B9
	IC..803	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA C9
	IC..804	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA C9
	IC..805	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA D9
	IC..806	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA D9
	IC..807	50.07.0049	4049 hex inverting buffer CMOS	Ph,To B9
	IC..808	50.07.0049	4049 hex inverting buffer CMOS	Ph,To B8
	IC..809	50.07.0049	4049 hex inverting buffer CMOS	Ph,To B9
	IC..810	50.07.0049	4049 hex inverting buffer CMOS	Ph,To B8
	IC..811	50.07.0049	4049 hex inverting buffer CMOS	Ph,To C9
	IC..812	50.07.0049	4049 hex inverting buffer CMOS	Ph,To C8
	IC..813	50.07.0049	4049 hex inverting buffer CMOS	Ph,To D8
	IC..814	50.07.0049	4049 hex inverting buffer CMOS	Ph,To E9
	IC..815	50.07.0511	4511 BCD to 7-seg. latch/decoder/driver	Mot,To I9
	IC..816	50.07.0511	4511 BCD to 7-seg. latch/decoder/driver	Mot,To I9
	IC..817	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA I8
	IC..818	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA E8
	IC..819	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA D8
	IC..820	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA C8
	IC..821	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA C8
	IC..822	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA B8
	IC..823	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA A8
	IC..824	50.09.0119	TL062 dual fet op. amp.	Tho A8
	IC..826	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA L8
	IC..827	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA L9
	IC..828	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA M9
	IC..829	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA M8
	IC..830	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA M8
	IC..831	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA M9
	IC..832	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA M9
	IC..833	50.07.0014	40106 hex.schmitt-trig. CMOS 14584;40014	Ph,Mot M8
	IC..834	50.07.0051	CD4051 8-channel analog mux/demux	Ph,Mot,RCA F8
	IC..835	50.07.0051	CD4051 8-channel analog mux/demux	Ph,Mot,RCA G8
	IC..836	50.07.0051	CD4051 8-channel analog mux/demux	Ph,Mot,RCA G9
	IC..837	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA F9
	IC..838	50.09.0103	TL 071 fet op. amp.	TI A9
	IC..840	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA H8
	IC..841	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA H9
	IC..842	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA H9
	IC..843	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA H8
	IC..844	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA K8
	IC..845	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA K9
	IC..846	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA K9
	IC..847	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA K8
	IC..848	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA D8
	IC..849	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA E8
	IC..850	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA E9
	IC..851	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA F9
	IC..852	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA F8
	JS....0	. .	see also MP 4	
	JSJ...1	54.01.0021	Jumper alternate to W 6	M3
	JSJ...2	. . 0	not used (OPTION 3)	M3
	JSJ...3	54.01.0021	Jumper alternate to W 9	M2
	JSJ...4	. . 0	not used (OPTION 3)	M3
	JSJ...5	54.01.0021	Jumper AF L Inv.	C3
	JSJ...6	. . 0	not used AUX L Inv.	C3
	JSJ...7	. . 0	not used PF L Inv.	H2
	JSJ...8	. . 0	not used AF Pan L Inv.	H2
	JSJ...9	. . 0	not used AF Pan L Inv.	H2
	JSJ..10	. . 0	not used PF L Inv.	H2
	JSJ..11	54.01.0021	Jumper AF R inv.	C3
	JSJ..12	. . 0	not used AUX R Inv.	C3
	JSJ..13	. . 0	not used PF R Inv.	G2
	JSJ..14	. . 0	not used AF Pan R Inv.	G2
	JSJ..15	. . 0	not used AF Pan R Inv.	G2
	JSJ..16	. . 0	not used PF R Inv.	G2
	L.....1	62.02.3101	100 uH hf-choke-coil	B2
	MP....1	53.03.0166	39 pcs IC-socket 8 pin	
	MP....2	53.03.0168	39 pcs IC-socket 16 pin	
	MP....3	53.03.0165	2 pcs IC-socket 20 pin	
	MP....4	54.01.0020	24 pcs Jumper plug see also JSJ	
	MP....5	54.11.0131	55 pcs dual pin (totaly 110 pins)	
	MP....6	28.99.0119	6 pcs Rohrniete, D2.5*0.15*9	
	MP....7	1.990.100.02	2 pcs Querprintstuetze links	St
	MP....8	1.990.100.03	2 pcs Querprintstuetze rechts	St
	MP....9	1.010.118.64	1 pcs gelber Draht l = 128mm	
	MP...10	1.010.048.27	3 pcs Mutterbolzen M 3 *32.5	St
	MP...11	1.990.230.11	1 pcs Input Stereo PCB	St
	MP...12	21.01.0354	3 pcs Z-Schraube , ZN , M 3 * 6	
	MP...13	21.99.0117	7 pcs Z-Schraube Nylon , M 3 * 6	
	MP...14	24.16.1030	3 pcs Rippenscheibe D 3.2/5.5	
	MP...15	1.990.210.06	1 pcs Abschirmung A/D Input links	
	MP...16	1.990.210.07	1 pcs Abschirmung A/D Input rechts	
	MP...17	1.010.100.58	1 pcs Masseblech zu Preh-Pot Type 12	
	MP...18	22.99.0137	1 pcs 6-Kt. Mutter M7*0.75	
	MP...19	23.99.0122	1 pcs U-Scheibe D 7.1/12*0.5	
	MP...20	43.01.0108	1 pcs ESE-Warnschild	ST
	MP...21	1.990.200.05	5 pcs Poti-Achsverlaengerung	
	MP...22	1.022.400.03	3 pcs Trafo-Isolation	
	MP...23	1.010.111.65	2 pcs Schrumpfschlauch	
	MP...24	1.010.109.64	2 pcs gelber Draht l = 38mm	
	MP...25	1.010.107.64	1 pcs gelber Draht l = 18mm	
01	MP...25	. . 0	not used	
	MP...26	. . 0	NOT USED	
	MP...27	. . 0	NOT USED	
	MP...28	. . 0	NOT USED	
	MP...29	. . 0	NOT USED	
	MP...30	. . 0	NOT USED	
	MP...31	. . 0	NOT USED	
	MP...32	. . 0	NOT USED	
	MP...33	. . 0	NOT USED	
	MP...34	. . 0	NOT USED	
	MP...35	. . 0	NOT USED	
	MP...36	. . 0	NOT USED	
	MP...37	. . 0	NOT USED	
	MP...38	. . 0	NOT USED	
	MP...39	. . 0	NOT USED	
	MP...40	. . 0	NOT USED	
	MP...41	. . 0	NOT USED	
	MP...42	. . 0	NOT USED	
	MP...43	. . 0	NOT USED	
	MP...44	. . 0	NOT USED	
	MP...45	. . 0	NOT USED	
	MP...46	. . 0	not used	
	P.....6	54.11.2013	2*16pin euroconnector	Ht,Ec B0
	P.....7	54.11.2004	2*32pin euroconnector	Ht,Ec E0
	P.....9	54.11.2004	2*32pin euroconnector	Ht,Ec M0
	P....10	54.01.0294	16 pin CIS	E5
	P....11	54.01.0226	20 pin CIS	G6
	P....12	54.01.0293	14 pin CIS	H5
	P....13	54.16.0520	20pol 1/40 inch flatcable connector (to A 3)	Ya K7
	P....14	. . 0	not used see A 3	H6
	P....15	. . 0	not used see A 5	F5
	P....16	54.16.0520	20pol 1/40 inch flatcable connector (to A 5)	Ya E2
	P....17	. . 0	not used see A 4	E6
	P....18	54.16.0520	20pol 1/40 inch flatcable connector (to A 4)	Ya E2
	P....19	54.16.0520	20pol 1/40 inch flatcable connector (to A 6)	Ya M5
	P....20	. . 0	not used see A 6	H1
	P....21	. . 0	NOT USED	
	P....22	. . 0	NOT USED	
	Q.....1	. . 0	not used OPTION 3	M4
	Q.....2	. . 0	not used OPTION 3	M3
	Q.....3	. . 0	not used	G0
	Q...301	. . 0	not used OPTION 3	M4
	Q...302	. . 0	not used OPTION 3	M4
	Q...303	. . 0	not used	G1
	Q...601	50.03.0492	BC 556 PNP UCE>65V, IC>100mA, B>100	any N8
	Q...602	50.03.1505	VN0808M N-J MOS FET	Fe,Six N8
	Q...604	50.03.0340	BC 337 NPN IC>800mA	NS,Mot,Six A0
	Q...605	50.03.0351	BC 327 PNP IC>800mA	NS,Mot,Six A0
	Q...606	50.03.0351	BC 327 PNP IC>800mA	NS,Mot,Six A0
	Q...607	50.03.0340	BC 337 NPN IC>800mA	NS,Mot,Six A1
	Q...608	50.03.0351	BC 327 PNP IC>800mA	NS,Mot,Six A1
	Q...801	50.03.0436	BC 237 NPN IC>100mA, B>100	any A9
	Q...802	50.03.0436	BC 237 NPN IC>100mA, B>100	any A8
	Q...803	50.03.0436	BC 237 NPN IC>100mA, B>100	any A7
	Q...805	50.03.0436	BC 237 NPN IC>100mA, B>100	any N8
	Q...806	50.03.0515	BC 307 PNP IC>100mA, B>100	any N8
	Q...807	50.03.0515	BC 307 PNP IC>100mA, B>100	any N8
	Q...808	50.03.0515	BC 307 PNP IC>100mA, B>100	any N8
	Q...809	50.03.0436	BC 237 NPN IC>100mA, B>100	any N8
	Q...810	50.03.0515	BC 307 PNP IC>100mA, B>100	any N8
	Q...811	50.03.0515	BC 307 PNP IC>100mA, B>100	any N8
	Q...812	50.03.0436	BC 237 NPN IC>100mA, B>100	any M6
	Q...813	50.03.0515	BC 307 PNP IC>100mA, B>100	any G6
	Q...814	50.03.0515	BC 307 PNP IC>100mA, B>100	any G6
	Q...815	50.03.0515	BC 307 PNP IC>100mA, B>100	any G5
	Q...816	50.03.0515	BC 307 PNP IC>100mA, B>100	any H6
	Q...817	50.03.0491	BC 546 NPN UCE>70V	any N8
	R.....1	57.11.3104	100 kOhm 1% 0.25W	M3
	R.....2	57.11.3104	100 kOhm 1% 0.25W	M3
	R.....3	57.11.3332	3.3 kOhm 1% 0.25W	M3
	R.....4	57.11.3332	3.3 kOhm 1% 0.25W	M3
	R.....5	57.11.3222	2.2 kOhm 1% 0.25W	M3
	R.....6	57.11.3222	2.2 kOhm 1% 0.25W	M3
	R.....7	57.11.3272	2.7 kOhm 5% 0.25W	M2
	R.....8	57.11.3242	2.4 kOhm 5% 0.25W	M3
	R.....9	58.01.8501	500 Ohm 10% 0.25W trimmer	M3
	R....10	57.11.3223	22 kOhm 5% 0.25W	M3
	R....11	57.11.3332	3.3 kOhm 1% 0.25W	M2
	R....12	57.11.3332	3.3 kOhm 1% 0.25W	M2
	R....13	57.11.3272	2.7 kOhm 1% 0.25W	M2
	R....14	57.11.3272	2.7 kOhm 1% 0.25W	M2
	R....15	57.11.3102	1 kOhm 5% 0.25W	M2
	R....16	57.11.3102	1 kOhm 5% 0.25W	M2
	R....17	57.11.3392	3.9 kOhm 5% 0.25W	M2
	R....18	57.11.3223	22 kOhm 5% 0.25W	M2
	R....21	57.11.3682	6.8 kOhm 1% 0.25W	L5
	R....22	57.11.3682	6.8 kOhm 1% 0.25W	L5
	R....23	57.11.3682	6.8 kOhm 1% 0.25W	L5
	R....24	57.11.3822	8.2 kOhm 1% 0.25W	L6
	R....25	57.11.3223	22 kOhm 5% 0.25W	L6
	R....26	57.11.3473	47 kOhm 1% 0.25W	L6
	R....27	57.11.3824	820 kOhm 1% 0.25W	L6
	R....28	57.11.3824	820 kOhm 1% 0.25W	L6
	R....29	57.11.3682	6.8 kOhm 1% 0.25W	L6
	R....30	57.11.3682	6.8 kOhm 1% 0.25W	L6
	R....33	57.11.3752	7.5 kOhm 1% 0.25W	L5
	R....34	58.01.8102	1 kOhm 10% 0.25W trimmer	L4
	R....35	57.11.3473	47 kOhm 1% 0.25W	L5
	R....36	57.11.3223	22 kOhm 5% 0.25W	L5
	R....37	57.11.3330	33 Ohm 5% 0.25W	L5
	R....38	57.11.3473	47 kOhm 1% 0.25W	L3
	R....39	57.11.3473	47 kOhm 1% 0.25W	L2
	R....40	57.11.3682	6.8 kOhm 1% 0.25W	L3
	R....41	57.11.3682	6.8 kOhm 1% 0.25W	L2
	R....42	57.11.5335	3.3 MOhm 5% 0.25W	L2
	R....43	57.11.3682	6.8 kOhm 1% 0.25W	L2
	R....44	57.11.3473	47 kOhm 1% 0.25W	L2
	R....45	57.11.3330	33 Ohm 5% 0.25W	L2
	R....50	. . 0	not used OPTION 3	M4
	R....51	57.11.3102	1 kOhm 1% 0.25W	M3
	R....52	. . 0	not used OPTION 3	M4
	R....53	. . 0	not used OPTION 3	M4
	R....54	. . 0	not used OPTION 3	M4
	R....55	. . 0	not used OPTION 3	M4
	R....56	. . 0	not used OPTION 3	M4
	R....57	. . 0	not used OPTION 3	M3
	R....58	. . 0	not used OPTION 3	M3
	R....59	. . 0	not used OPTION 3	M3
	R....60	. . 0	not used OPTION 3	M3
	R....61	. . 0	not used OPTION 3	M3
	R....62	. . 0	not used OPTION 3	M3
	R....65	57.11.3392	3.9 kOhm 1% 0.25W	I4
	R....66	57.11.3682	6.8 kOhm 1% 0.25W	I4
	R....67	57.11.3162	1.6 kOhm 1% 0.25W	I5
	R....68	. . 0	NOT USED	I6
	R....69	57.11.3104	100 kOhm 5% 0.25W	I5
	R....70	57.11.3162	1.6 kOhm 1% 0.25W	I5
	R....71	. . 0	NOT USED	I6
	R....72	57.11.3104	100 kOhm 5% 0.25W	I4
	R....73	57.11.3392	3.9 kOhm 1% 0.25W	I5
	R....74	57.11.3682	6.8 kOhm 1% 0.25W	I5
	R....75	57.11.3223	22 kOhm 5% 0.25W	I4
	R....77	57.11.3682	6.8 kOhm 1% 0.25W	N4
	R....78	57.11.3682	6.8 kOhm 1% 0.25W	N4
	R....79	57.11.3682	6.8 kOhm 1% 0.25W	N4
	R....80	57.11.3104	100 kOhm 5% 0.25W	N3
	R....81	58.01.8202	2 kOhm 10% 0.25W trimmer	N3
	R....82	57.11.3562	5.6 kOhm 1% 0.25W	I3
	R....83	57.99.0250	6.8 kOhm 0.1% 0.25W	N3
	R....84	57.99.0250	6.8 kOhm 0.1% 0.25W	N3
	R....85	57.11.3150	15 Ohm 1% 0.25W	I3
	R....86	57.11.3150	15 Ohm 1% 0.25W	I3
	R....90	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R....91	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R....92	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R....93	57.11.3104	100 kOhm 5% 0.25W	G3
	R....94	57.11.3562	5.6 kOhm 1% 0.25W	G3
	R....95	58.01.8202	2 kOhm 10% 0.25W trimmer	F3
	R...101	57.11.3121	120 Ohm 1% 0.25W	H7
	R...102	. . 0	NOT USED	G7
	R...103	57.11.3121	120 Ohm 1% 0.25W	G7
	R...104	. . 0	NOT USED	F7
	R...105	57.11.3121	120 Ohm 1% 0.25W	F6
	R...106	. . 0	NOT USED	E7
	R...107	57.11.3121	120 Ohm 1% 0.25W	F6
	R...108	57.11.3223	22 kOhm 5% 0.25W	F6
	R...109	. . 0	NOT USED	H5
	R...110	. . 0	NOT USED	H6
	R...111	. . 0	NOT USED	H6
	R...112	. . 0	NOT USED	G5
	R...113	. . 0	NOT USED	G5
	R...114	. . 0	NOT USED	G6
	R...115	. . 0	NOT USED	G5
	R...116	. . 0	NOT USED	F6
	R...117	. . 0	NOT USED	F5
	R...118	. . 0	NOT USED	F5
	R...120	. . 0	not used	G3
	R...121	57.11.3152	1.5 kOhm 1% 0.25W	I1
	R...122	57.11.3152	1.5 kOhm 1% 0.25W	I1
	R...123	57.11.3392	3.9 kOhm 1% 0.25W	I1
	R...124	57.11.3392	3.9 kOhm 1% 0.25W	I1
	R...125	57.11.3272	2.7 kOhm 1% 0.25W	I1
	R...126	57.11.3272	2.7 kOhm 1% 0.25W	I1
	R...127	57.11.3223	22 kOhm 5% 0.25W	I1
	R...128	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...129	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...130	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...131	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...132	57.11.3752	7.5 kOhm 1% 0.25W	G3
	R...133	57.11.3823	82 kOhm 1% 0.25W	G3
	R...134	57.11.3223	22 kOhm 5% 0.25W	G3
	R...135	57.11.3332	3.3 kOhm 1% 0.25W	G3
	R...136	57.11.3332	3.3 kOhm 1% 0.25W	G3
	R...137	57.11.3330	33 Ohm 5% 0.25W	G3
	R...138	57.11.3223	22 kOhm 5% 0.25W	G3
	R...140	. . 0	NOT USED	H7
	R...141	57.11.3332	3.3 kOhm 1% 0.25W	F4
	R...142	57.11.3223	22 kOhm 5% 0.25W	F4
	R...143	57.11.3333	33 kOhm 1% 0.25W	E4
	R...144	57.11.3103	10 kOhm 1% 0.25W	E4
	R...145	57.11.3472	4.7 kOhm 1% 0.25W	F4
	R...146	57.11.3684	680 kOhm 5% 0.25W	F4
	R...147	57.11.3823	82 kOhm 5% 0.25W (LS)	E3
	R...148	58.05.1503	50 kOhm 10% 0.25W trimmer	D4
	R...149	57.11.3332	3.3 kOhm 1% 0.25W	D4
	R...150	57.11.3330	33 Ohm 5% 0.25W	D4
	R...151	57.11.3223	22 kOhm 5% 0.25W	E4
	R...152	57.11.3332	3.3 kOhm 1% 0.25W	B4
	R...153	57.11.3332	3.3 kOhm 1% 0.25W	B4
	R...154	57.11.3223	22 kOhm 5% 0.25W	B3
	R...155	57.11.3752	7.5 kOhm 1% 0.25W	C3
	R...156	57.11.3823	82 kOhm 1% 0.25W	C3
	R...157	57.11.3682	6.8 kOhm 1% 0.25W	B3
	R...158	57.11.3682	6.8 kOhm 1% 0.25W	B3
	R...159	57.11.3223	22 kOhm 5% 0.25W	B3
	R...161	57.11.3752	7.5 kOhm 1% 0.25W	B4
	R...162	57.11.3823	82 kOhm 1% 0.25W	B3
	R...165	57.11.3682	6.8 kOhm 1% 0.25W	D4
	R...166	57.11.3682	6.8 kOhm 1% 0.25W	D4
	R...167	57.11.3223	22 kOhm 5% 0.25W	C3
	R...168	57.11.3752	7.5 kOhm 1% 0.25W	D5
	R...169	57.11.3823	82 kOhm 1% 0.25W	E5
	R...170	1.010.106.58	10 kOhm 10% pos.log.comb.with R843	St E7
	R...171	57.11.3752	7.5 kOhm 1% 0.25W	D6
	R...172	57.11.3823	82 kOhm 1% 0.25W	D6
	R...173	1.010.106.58	10 kOhm 10% pos.log.comb.with R840	St D7
	R...174	57.11.3752	7.5 kOhm 1% 0.25W	D6
	R...175	57.11.3823	82 kOhm 1% 0.25W	D6
	R...176	1.010.106.58	10 kOhm 10% pos.log.comb.with R841	St C7
	R...177	57.11.3752	7.5 kOhm 1% 0.25W	E5
	R...178	57.11.3823	82 kOhm 1% 0.25W	E5
	R...179	1.010.106.58	10 kOhm 10% pos.log.comb.with R842	St C7
	R...180	57.11.3752	7.5 kOhm 1% 0.25W	C6
	R...181	57.11.3823	82 kOhm 1% 0.25W	C6
	R...182	. .	4.7 kOhm 10% +log.comb.withR183/482/483/844/846	B6
	R...183	. .	10 kOhm 10% +log.see R 182 on A 14	B6
	R...184	57.11.3752	7.5 kOhm 1% 0.25W	D6
	R...185	57.11.3823	82 kOhm 1% 0.25W	D6

INPUT UNIT STEREO

1.990.230.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...186	. .	4.7 kOhm 10% +log.comb.withR187/486/487/846/847	A6
	R...187	. .	10 kOhm 10% +log.see R 186 on A 15	A6
	R...190	57.11.3682	6.8 kOhm 1% 0.25W	H1
	R...194	57.11.3330	33 Ohm 5% 0.25W	H1
	R...195	57.11.3363	36 kOhm 1% 0.25W	G1
	R...196	57.11.3363	36 kOhm 1% 0.25W	G1
	R...197	57.11.3513	51 kOhm 1% 0.25W	G1
	R...198	57.11.3513	51 kOhm 1% 0.25W	G1
	R...199	57.11.3104	100 kOhm 5% 0.25W	M6
	R...200	57.11.3224	220 kOhm 5% 0.25W	M6
	R...201	. . 0	not used	M6
	R...202	. . 0	not used	M6
	R...203	1.010.109.58	10 kOhm 10% lin with R503/849 OPTION 2	St M6
	R...204	57.11.3822	8.2 kOhm 1% 0.25W	M5
	R...205	57.11.3153	15 kOhm 5% 0.25W	M5
	R...206	58.01.8503	50 kOhm 10% 0.25W trimmer	M5
	R...207	57.99.0250	6.8 kOhm 0.1% 0.25W	M2
	R...208	57.99.0250	6.8 kOhm 0.1% 0.25W	M2
	R...209	57.11.3150	15 Ohm 1% 0.25W	L1
	R...210	57.11.3150	15 Ohm 1% 0.25W	L1
	R...211	57.11.3150	15 Ohm 1% 0.25W	L1
	R...212	57.11.3150	15 Ohm 1% 0.25W	M1
	R...213	57.11.3150	15 Ohm 1% 0.25W	L1
	R...214	57.11.3150	15 Ohm 1% 0.25W	L1
	R...301	57.11.3104	100 kOhm 1% 0.25W	N1
	R...302	57.11.3104	100 kOhm 1% 0.25W	N1
	R...303	57.11.3332	3.3 kOhm 1% 0.25W	N1
	R...304	57.11.3332	3.3 kOhm 1% 0.25W	N1
	R...305	57.11.3222	2.2 kOhm 1% 0.25W	N1
	R...306	57.11.3222	2.2 kOhm 1% 0.25W	N1
	R...307	57.11.3272	2.7 kOhm 5% 0.25W	N1
	R...308	57.11.3242	2.4 kOhm 5% 0.25W	M1
	R...309	58.01.8501	500 Ohm 10% 0.25W trimmer	M1
	R...310	57.11.3223	22 kOhm 5% 0.25W	M1
	R...311	57.11.3332	3.3 kOhm 1% 0.25W	N1
	R...312	57.11.3332	3.3 kOhm 1% 0.25W	N1
	R...313	57.11.3272	2.7 kOhm 1% 0.25W	N0
	R...314	57.11.3272	2.7 kOhm 1% 0.25W	N0
	R...315	57.11.3102	1 kOhm 5% 0.25W	M0
	R...316	57.11.3102	1 kOhm 5% 0.25W	M1
	R...317	57.11.3392	3.9 kOhm 5% 0.25W	M1
	R...318	57.11.3223	22 kOhm 5% 0.25W	M1
	R...321	57.11.3682	6.8 kOhm 1% 0.25W	I4
	R...322	57.11.3682	6.8 kOhm 1% 0.25W	K4
	R...323	57.11.3682	6.8 kOhm 1% 0.25W	K4
	R...324	57.11.3822	8.2 kOhm 1% 0.25W	K6
	R...325	57.11.3223	22 kOhm 5% 0.25W	K6
	R...326	57.11.3473	47 kOhm 1% 0.25W	I6
	R...327	57.11.3824	820 kOhm 1% 0.25W	K6
	R...328	57.11.3824	820 kOhm 1% 0.25W	K6
	R...329	57.11.3682	6.8 kOhm 1% 0.25W	K6
	R...330	57.11.3682	6.8 kOhm 1% 0.25W	K6
	R...333	57.11.3752	7.5 kOhm 1% 0.25W	K5
	R...334	58.01.8102	1 kOhm 10% 0.25W trimmer	K4
	R...335	57.11.3473	47 kOhm 1% 0.25W	K4
	R...336	57.11.3223	22 kOhm 5% 0.25W	K5
	R...337	57.11.3330	33 Ohm 5% 0.25W	K5
	R...338	57.11.3473	47 kOhm 1% 0.25W	L3
	R...339	57.11.3473	47 kOhm 1% 0.25W	L2
	R...340	57.11.3682	6.8 kOhm 1% 0.25W	L3
	R...341	57.11.3682	6.8 kOhm 1% 0.25W	L2
	R...342	57.11.5335	3.3 MOhm 5% 0.25W	L3
	R...343	57.11.3682	6.8 kOhm 1% 0.25W	L3
	R...344	57.11.3473	47 kOhm 1% 0.25W	L3
	R...345	57.11.3330	33 Ohm 5% 0.25W	L3
	R...350	. . 0	not used OPTION 3	M4
	R...351	. . 0	not used OPTION 3	M4
	R...352	. . 0	not used OPTION 3	M5
	R...353	. . 0	not used OPTION 3	M4
	R...354	. . 0	not used OPTION 3	M4
	R...355	. . 0	not used OPTION 3	M4
	R...356	. . 0	not used OPTION 3	M4
	R...357	. . 0	not used OPTION 3	M4
	R...358	. . 0	not used OPTION 3	M4
	R...359	. . 0	not used OPTION 3	M4
	R...360	. . 0	not used OPTION 3	M4
	R...361	. . 0	not used OPTION 3	M4
	R...362	. . 0	not used OPTION 3	M4
	R...365	57.11.3392	3.9 kOhm 1% 0.25W	I4
	R...366	57.11.3682	6.8 kOhm 1% 0.25W	I4
	R...367	57.11.3162	1.6 kOhm 1% 0.25W	I6
	R...368	. . 0	NOT USED	I6
	R...369	57.11.3104	100 kOhm 5% 0.25W	H6
	R...370	57.11.3162	1.6 kOhm 1% 0.25W	H6
	R...371	. . 0	NOT USED	I6
	R...372	57.11.3104	100 kOhm 5% 0.25W	I5
	R...373	57.11.3392	3.9 kOhm 1% 0.25W	H5
	R...374	57.11.3682	6.8 kOhm 1% 0.25W	H5
	R...375	57.11.3223	22 kOhm 5% 0.25W	H6
	R...377	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...378	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...379	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...380	57.11.3104	100 kOhm 5% 0.25W	I3
	R...381	58.01.8202	2 kOhm 10% 0.25W trimmer	K3
	R...382	57.11.3562	5.6 kOhm 1% 0.25W	K4
	R...383	57.99.0250	6.8 kOhm 0.1% 0.25W	K4
	R...384	57.99.0250	6.8 kOhm 0.1% 0.25W	I3
	R...385	57.11.3150	15 Ohm 1% 0.25W	K3
	R...386	57.11.3150	15 Ohm 1% 0.25W	K3
	R...390	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...391	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...392	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...393	57.11.3104	100 kOhm 5% 0.25W	G3
	R...394	57.11.3562	5.6 kOhm 1% 0.25W	F3
	R...395	58.01.8202	2 kOhm 10% 0.25W trimmer	F3
	R...401	57.11.3121	120 Ohm 1% 0.25W	H6
	R...402	. . 0	NOT USED	G6
	R...403	57.11.3121	120 Ohm 1% 0.25W	G6
	R...404	. . 0	NOT USED	F6
	R...405	57.11.3121	120 Ohm 1% 0.25W	F6
	R...406	. . 0	NOT USED	E6
	R...407	57.11.3121	120 Ohm 1% 0.25W	E6
	R...408	57.11.3223	22 kOhm 5% 0.25W	F6
	R...409	. . 0	NOT USED	H5
	R...410	. . 0	NOT USED	H5
	R...411	. . 0	NOT USED	G4
	R...412	. . 0	NOT USED	F5
	R...413	. . 0	NOT USED	F5
	R...414	. . 0	NOT USED	G5
	R...415	. . 0	NOT USED	G5
	R...416	. . 0	NOT USED	F5
	R...417	. . 0	NOT USED	F5
	R...418	. . 0	NOT USED	F5
	R...420	. . 0	not used	H3
	R...421	57.11.3152	1.5 kOhm 1% 0.25W	I1
	R...422	57.11.3152	1.5 kOhm 1% 0.25W	I1
	R...423	57.11.3392	3.9 kOhm 1% 0.25W	I1
	R...424	57.11.3392	3.9 kOhm 1% 0.25W	I1
	R...425	57.11.3272	2.7 kOhm 1% 0.25W	I1
	R...426	57.11.3272	2.7 kOhm 1% 0.25W	I1
	R...427	57.11.3223	22 kOhm 5% 0.25W	I1
	R...428	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...429	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...430	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...431	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...432	57.11.3752	7.5 kOhm 1% 0.25W	H3
	R...433	57.11.3823	82 kOhm 1% 0.25W	H3
	R...434	57.11.3223	22 kOhm 5% 0.25W	H3
	R...435	57.11.3332	3.3 kOhm 1% 0.25W	H3
	R...436	57.11.3332	3.3 kOhm 1% 0.25W	H3
	R...437	57.11.3330	33 Ohm 5% 0.25W	H3
	R...438	57.11.3223	22 kOhm 5% 0.25W	H3
	R...440	. . 0	NOT USED	H6
	R...441	57.11.3332	3.3 kOhm 1% 0.25W	F3
	R...442	57.11.3223	22 kOhm 5% 0.25W	F3
	R...443	57.11.3333	33 kOhm 1% 0.25W	E3
	R...444	57.11.3103	10 kOhm 1% 0.25W	E3
	R...445	57.11.3472	4.7 kOhm 1% 0.25W	E3
	R...446	57.11.3684	680 kOhm 5% 0.25W	F3
	R...447	57.11.3823	82 kOhm 5% 0.25W (LS)	E3
	R...448	58.05.1503	50 kOhm 10% 0.25W trimmer	D3
	R...449	57.11.3332	3.3 kOhm 1% 0.25W	D3
	R...450	57.11.3330	33 Ohm 5% 0.25W	D3
	R...451	57.11.3223	22 kOhm 5% 0.25W	E3
	R...454	. . 0	not used	B3
	R...455	57.11.3752	7.5 kOhm 1% 0.25W	B3
	R...456	57.11.3823	82 kOhm 1% 0.25W	B3
	R...457	57.11.3682	6.8 kOhm 1% 0.25W	B3
	R...458	57.11.3682	6.8 kOhm 1% 0.25W	B3
	R...459	57.11.3223	22 kOhm 5% 0.25W	B3
	R...465	57.11.3682	6.8 kOhm 1% 0.25W	C4
	R...466	57.11.3682	6.8 kOhm 1% 0.25W	C4
	R...467	57.11.3223	22 kOhm 5% 0.25W	C4
	R...480	57.11.3752	7.5 kOhm 1% 0.25W	B6
	R...481	57.11.3823	82 kOhm 1% 0.25W	B6
	R...482	. .	4.7 kOhm 10% pos.log. see R 182	B5
	R...483	. .	10 kOhm 10% neg.log. see R 182	B6
	R...484	57.11.3752	7.5 kOhm 1% 0.25W	C6
	R...485	57.11.3823	82 kOhm 1% 0.25W	C6
	R...486	. .	4.7 kOhm 10% pos.log. see R 186	A5
	R...487	. .	10 kOhm 10% neg.log. see R 186	A6
	R...490	57.11.3682	6.8 kOhm 1% 0.25W	H1
	R...494	57.11.3330	33 Ohm 5% 0.25W	H1
	R...495	57.11.3363	36 kOhm 1% 0.25W	G0
	R...496	57.11.3363	36 kOhm 1% 0.25W	G0
	R...497	57.11.3513	51 kOhm 1% 0.25W	G0
	R...498	57.11.3513	51 kOhm 1% 0.25W	G0
	R...499	57.11.3104	100 kOhm 5% 0.25W	M6
	R...500	57.11.3224	220 kOhm 5% 0.25W	M6
	R...501	. . 0	not used	M6
	R...502	. . 0	not used	M6
	R...503	. .	10 kOhm 10% lin. see R 203 OPTION2:1.010.109.58	N7
	R...504	57.11.3822	8.2 kOhm 1% 0.25W	N5
	R...505	57.11.3153	15 kOhm 5% 0.25W	N5
	R...506	58.01.8503	50 kOhm 10% 0.25W trimmer	N5
	R...507	57.99.0250	6.8 kOhm 0.1% 0.25W	L2
	R...508	57.99.0250	6.8 kOhm 0.1% 0.25W	L2
	R...509	57.11.3150	15 Ohm 1% 0.25W	K1
	R...510	57.11.3150	15 Ohm 1% 0.25W	K1
	R...511	57.11.3150	15 Ohm 1% 0.25W	K1
	R...512	57.11.3150	15 Ohm 1% 0.25W	L1
	R...513	57.11.3150	15 Ohm 1% 0.25W	K1
	R...514	57.11.3150	15 Ohm 1% 0.25W	K1
	R...601	57.11.3104	100 kOhm 5% 0.25W	N8
	R...602	57.11.3104	100 kOhm 5% 0.25W	N9
	R...603	57.11.3104	100 kOhm 5% 0.25W	N9
	R...605	57.11.3242	2.4 kOhm 1% 0.25W	L4
	R...606	57.11.3474	470 kOhm 1% 0.25W	L4
	R...607	57.11.3274	270 kOhm 1% 0.25W	L4
	R...608	57.11.3102	1 kOhm 5% 0.25W	B1
	R...609	57.11.5106	10 MOhm 10% 0.25W	B1
	R...610	57.11.6226	22 MOhm 10% 0.25W	A1
	R...611	57.11.3562	5.6 kOhm 1% 0.25W	A2
	R...612	57.11.3333	33 kOhm 5% 0.25W	A2
	R...613	57.11.3432	4.3 kOhm 1% 0.25W	A2
	R...614	57.11.3333	33 kOhm 5% 0.25W	B2
	R...615	57.11.3512	5.1 kOhm 1% 0.25W	A1
	R...616	57.11.3105	1 MOhm 5% 0.25W	A2
	R...617	57.11.3105	1 MOhm 5% 0.25W	B2
	R...618	57.11.3105	1 MOhm 5% 0.25W	A7
02	R...618	57.11.3104	100 kOhm 5% 0.25W	A7
	R...619	57.11.3105	1 MOhm 5% 0.25W	A7
02	R...619	57.11.3104	100 kOhm 5% 0.25W	A7
	R...620	57.92.7013	0.75 Ohm I hold = 0.5A , I trip = 1A R-PTC	C0
	R...621	57.92.7013	0.75 Ohm I hold = 0.5A , I trip = 1A R-PTC	B0
	R...622	57.11.3151	150 Ohm 1% 0.25W	B2
	R...623	57.92.7013	0.75 Ohm I hold = 0.5A , I trip = 1A R-PTC	C0
	R...624	57.11.3102	1 kOhm 5% 0.25W	C0
	R...625	57.11.3330	33 Ohm 5% 0.25W	B2
	R...626	57.92.7013	0.75 Ohm I hold = 0.5A , I trip = 1A R-PTC	C1
	R...627	57.11.3222	2.2 kOhm 5% 0.25W	A0
	R...628	57.11.3272	2.7 kOhm 5% 0.25W	A0
	R...629	57.11.3104	100 kOhm 5% 0.25W	A0
	R...630	57.11.3681	680 Ohm 5% 0.25W	A0
	R...631	57.11.3104	100 kOhm 5% 0.25W	A0
	R...632	57.11.3104	100 kOhm 5% 0.25W	A0
	R...633	57.11.3202	2 kOhm 5% 0.25W	A0
	R...634	57.11.3222	2.2 kOhm 5% 0.25W	A0
	R...635	57.11.3101	100 Ohm 5% 0.25W	B1
	R...636	57.11.3151	150 Ohm 5% 0.25W	B1
	R...637	57.11.3470	47 Ohm 5% 0.25W	B1
	R...638	57.11.3689	6.8 Ohm 5% 0.25W	A1
	R...639	57.11.3689	6.8 Ohm 5% 0.25W	B1
	R...640	57.11.3101	100 Ohm 5% 0.25W	B1
	R...641	57.11.3151	150 Ohm 5% 0.25W	B1
	R...642	57.11.3330	33 Ohm 5% 0.25W	C1
	R...643	57.11.3330	33 Ohm 5% 0.25W	B2
	R...644	57.11.3151	150 Ohm 5% 0.25W	B2
	R...645	57.11.3101	100 Ohm 5% 0.25W	B1
	R...647	57.11.3109	1 Ohm 5% 0.25W	A1
	R...648	57.11.3109	1 Ohm 5% 0.25W	A1
	R...649	57.11.3109	1 Ohm 5% 0.25W	A1
	R...650	57.11.3273	27 kOhm 1% 0.25W	G1
	R...651	57.11.3513	51 kOhm 1% 0.25W	G1
	R...652	57.11.3243	24 kOhm 1% 0.25W	G1
	R...653	57.11.3513	51 kOhm 1% 0.25W	G1
	R...801	57.11.3102	1 kOhm 5% 0.25W	A9
	R...802	57.11.3102	1 kOhm 5% 0.25W	A3
	R...803	57.11.3102	1 kOhm 5% 0.25W	A3
02	R...803	57.11.3101	100 Ohm 5% 0.25W	A3
	R...805	57.11.3223	22 kOhm 5% 0.25W	A8
	R...806	57.11.3334	330 kOhm 5% 0.25W	A8
	R...807	57.11.3334	330 kOhm 5% 0.25W	A8
	R...808	57.11.3104	100 kOhm 5% 0.25W	A7
	R...809	57.11.3104	100 kOhm 5% 0.25W	N9
	R...810	57.11.3104	100 kOhm 5% 0.25W	N9
	R...813	57.11.3223	22 kOhm 5% 0.25W	N9
	R...814	57.11.3392	3.9 kOhm 5% 0.25W	N9
	R...815	57.11.3104	100 kOhm 5% 0.25W	N8
	R...816	57.11.5335	3.3 MOhm 5% 0.25W	N8
	R...817	57.11.3104	100 kOhm 5% 0.25W	N7
	R...818	57.11.3103	10 kOhm 5% 0.25W	N9
	R...819	57.11.3104	100 kOhm 5% 0.25W	N7
	R...820	57.11.3104	100 kOhm 5% 0.25W	N8
	R...821	57.11.3104	100 kOhm 5% 0.25W	N8
	R...822	57.11.3103	10 kOhm 5% 0.25W	N8
	R...823	57.11.3103	10 kOhm 5% 0.25W	N8
	R...824	57.11.3104	100 kOhm 5% 0.25W	N7
	R...825	57.11.3103	10 kOhm 5% 0.25W	N8
	R...826	57.11.3104	100 kOhm 5% 0.25W	N7
	R...827	57.11.3103	10 kOhm 5% 0.25W	N7
	R...828	. . 0	not used	K6
	R...829	57.11.3223	22 kOhm 5% 0.25W	N7
	R...830	57.11.3223	22 kOhm 5% 0.25W	N7
	R...831	57.11.3223	22 kOhm 5% 0.25W	N9
	R...832	57.11.3102	1 kOhm 5% 0.25W	N9
	R...833	57.11.3562	5.6 kOhm 5% 0.25W	N9
	R...834	57.11.3822	8.2 kOhm 5% 0.25W	N9
	R...835	57.11.5106	10 MOhm 10% 0.25W	G9
	R...836	57.11.3330	33 Ohm 5% 0.25W	A9
	R...840	. .	100 kOhm 20% lin. see R 173	D7
	R...841	. .	100 kOhm 20% lin. see R 176	C7
	R...842	. .	100 kOhm 20% lin. see R 179	C7
	R...843	. .	100 kOhm 20% lin. see R 170	E7
	R...844	. .	100 kOhm 20% lin. see R 182	B7
	R...845	. .	100 kOhm 20% lin. see R 186	A6
	R...846	. .	100 kOhm 20% lin. see R 182	B6
	R...847	. .	100 kOhm 20% lin. see R 186	A7
	R...849	. .	100 kOhm 20% lin. see R 203 (also OPTION 2)	N7
	R...852	. . 0	NOT USED	G6
	R...853	. . 0	NOT USED	F7
	R...854	. . 0	NOT USED	F6
	R...855	. . 0	NOT USED	E7
	R...856	. . 0	NOT USED	N7
	R...857	. . 0	NOT USED	G7
	R...858	. . 0	NOT USED	N6
	R...859	. . 0	NOT USED	I7
	R...860	57.11.3102	1 kOhm 5% 0.25W	G6
	R...861	57.11.3102	1 kOhm 5% 0.25W	G6
	R...862	57.11.3102	1 kOhm 5% 0.25W	G5
	R...863	57.11.3102	1 kOhm 5% 0.25W	H6
	R...864	57.11.3333	33 kOhm 5% 0.25W	G6
	R...865	57.11.3333	33 kOhm 5% 0.25W	G6
	R...866	57.11.3333	33 kOhm 5% 0.25W	G5
	RZ....2	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	L5
	RZ....3	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	K5
	RZ....7	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	I3
	RZ....8	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	I2
	RZ....9	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	I3
	RZ...10	57.88.2224	220 kOhm 2% SIP 8 (4*)	I2
	RZ...11	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C4
	RZ...13	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	F2
	RZ...14	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	F2
	RZ...15	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	E2
	RZ...16	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	E2
	RZ...17	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	E2
	RZ...18	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	E2
	RZ...19	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	D4
	RZ...20	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C5
	RZ...21	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C5
	RZ...22	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C5
	RZ...23	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	B4
	RZ...24	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	B4
	RZ...25	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	D2
	RZ...26	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	D2
	RZ...27	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C2
	RZ...28	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	C2
	RZ...29	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	M5
	RZ...30	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	M5
	RZ...31	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	L1
	RZ...32	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	L1
	RZ...33	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	L1
	RZ...34	57.88.2224	220 kOhm 2% SIP 8 (4*)	L1
	RZ...35	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	H0
	RZ...36	57.88.2101	100 Ohm 2% SIP 8 (4*)	H0
	RZ..307	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	K3
	RZ..308	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	K2
	RZ..309	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	K3
	RZ..310	57.88.2224	220 kOhm 2% SIP 8 (4*)	K2
	RZ..311	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	B4
	RZ..331	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	K1
	RZ..332	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	K1
	RZ..333	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	K1
	RZ..334	57.88.2224	220 kOhm 2% SIP 8 (4*)	K1
	RZ..801	57.88.2102	1 kOhm SIP 8 (4*)	A3
02	RZ..801	57.88.2101	100 Ohm SIP 8 (4*)	A3
	RZ..802	57.88.2102	1 kOhm SIP 8 (4*)	A3
02	RZ..802	57.88.2101	100 Ohm SIP 8 (4*)	A3
	RZ..803	57.88.4104	100 kOhm SIP 9 (8*)	D7
	RZ..804	57.88.4104	100 kOhm SIP 9 (8*)	C7
	RZ..805	57.88.4104	100 kOhm SIP 9 (8*)	B7
	RZ..806	57.88.4104	100 kOhm SIP 9 (8*)	B7
	RZ..807	57.88.4104	100 kOhm SIP 9 (8*)	A8
	RZ..808	57.88.4104	100 kOhm SIP 9 (8*)	I8
	RZ..809	57.88.2473	47 kOhm SIP 8 (4*)	I8
	RZ..810	57.88.2473	47 kOhm SIP 8 (4*)	I8
	RZ..811	57.88.4104	100 kOhm SIP 9 (8*)	E8
	RZ..812	57.88.4104	100 kOhm SIP 9 (8*)	L8
	RZ..813	. . 0	not used	L8
	RZ..814	. . 0	not used	L8
	RZ..815	57.88.4104	100 kOhm SIP 9 (8*)	L9
	RZ..816	57.88.2104	100 kOhm SIP 8 (4*)	L9
	RZ..817	. . 0	not used	L9
	RZ..818	57.88.4104	100 kOhm SIP 9 (8*)	L9
	RZ..819	57.88.2104	100 kOhm SIP 8 (4*)	L9
	RZ..821	57.88.4104	100 kOhm SIP 9 (8*)	L8
	RZ..822	57.88.2104	100 kOhm SIP 8 (4*)	L8
	RZ..824	57.88.4104	100 kOhm SIP 9 (8*)	D9
	RZ..825	57.88.2102	1 kOhm SIP 8 (4*)	G8
	RZ..826	57.88.2102	1 kOhm SIP 8 (4*)	F8
	RZ..827	57.88.2102	1 kOhm SIP 8 (4*)	G8
	RZ..828	57.88.2102	1 kOhm SIP 8 (4*)	G8
	RZ..829	57.88.2102	1 kOhm SIP 8 (4*)	G9
	RZ..830	57.88.2102	1 kOhm SIP 8 (4*)	G9
	RZ..831	57.88.4104	100 kOhm SIP 9 (8*)	G9
	RZ..832	57.88.4104	100 kOhm SIP 9 (8*)	G8
	RZ..833	57.88.2104	100 kOhm SIP 8 (4*)	G8
	RZ..834	57.88.2104	100 kOhm SIP 8 (4*)	H8
	RZ..835	57.88.4104	100 kOhm SIP 9 (8*)	G9
	RZ..836	57.88.2104	100 kOhm SIP 8 (4*)	G9
	RZ..837	57.88.2104	100 kOhm SIP 8 (4*)	H9
	RZ..838	57.88.4104	100 kOhm SIP 9 (8*)	H9
	RZ..839	57.88.2104	100 kOhm SIP 8 (4*)	H9
	RZ..840	57.88.2104	100 kOhm SIP 8 (4*)	H9
	RZ..841	57.88.4104	100 kOhm SIP 9 (8*)	H8
	RZ..842	57.88.2104	100 kOhm SIP 8 (4*)	H8
	RZ..843	57.88.2104	100 kOhm SIP 8 (4*)	H8
	RZ..844	57.88.4104	100 kOhm SIP 9 (8*)	I8
	RZ..845	57.88.2104	100 kOhm SIP 8 (4*)	I8
	RZ..846	57.88.2104	100 kOhm SIP 8 (4*)	K8
	RZ..847	57.88.4104	100 kOhm SIP 9 (8*)	I9
	RZ..848	57.88.2104	100 kOhm SIP 8 (4*)	I9
	RZ..849	57.88.2104	100 kOhm SIP 8 (4*)	K9
	RZ..850	57.88.4104	100 kOhm SIP 9 (8*)	K9
	RZ..851	57.88.2104	100 kOhm SIP 8 (4*)	K9
	RZ..852	57.88.2104	100 kOhm SIP 8 (4*)	L9
	RZ..853	57.88.4104	100 kOhm SIP 9 (8*)	K8
	RZ..854	57.88.2104	100 kOhm SIP 8 (4*)	K8
	RZ..855	57.88.2104	100 kOhm SIP 8 (4*)	L8
	RZ..858	57.88.4104	100 kOhm SIP 9 (8*)	D7
	RZ..859	57.88.2104	100 kOhm SIP 8 (4*)	B7
	RZ..860	57.88.2104	100 kOhm SIP 8 (4*)	B7
	RZ..861	57.88.4104	100 kOhm SIP 9 (8*)	E8
	RZ..862	57.88.2104	100 kOhm SIP 8 (4*)	E8
	RZ..863	57.88.2104	100 kOhm SIP 8 (4*)	E8
	RZ..864	57.88.4104	100 kOhm SIP 9 (8*)	E9
	RZ..865	57.88.2104	100 kOhm SIP 8 (4*)	E9
	RZ..866	57.88.2104	100 kOhm SIP 8 (4*)	E9
	RZ..867	57.88.4104	100 kOhm SIP 9 (8*)	F9
	RZ..868	57.88.2104	100 kOhm SIP 8 (4*)	F9
	RZ..869	57.88.2104	100 kOhm SIP 8 (4*)	F9
	RZ..870	57.88.4104	100 kOhm SIP 9 (8*)	F8
	RZ..871	57.88.2104	100 kOhm SIP 8 (4*)	F8
	RZ..872	57.88.2104	100 kOhm SIP 8 (4*)	F8
	T.....1	1.022.454.00	input trafo 1:0.175	St M2
	T...301	1.022.454.00	input trafo 1:0.175	St M0
	W.....1	. . 0	not used	M7
	W.....2	. . 0	not used	H7
	W.....3	. . 0	not used	I7
	W.....5	57.11.3000	0 Ohm Line B L to DAC	M2
	W.....6	. . 0	not used	M3
	W.....7	57.11.3000	0 Ohm MIC L to DAC	L4
	W.....9	. . 0	not used	M2
	W....10	57.11.3000	0 Ohm Line B R to DAC	M2
	W....11	. . 0	not used OPTION 3	M4
	W....12	. . 0	not used OPTION 3	M4
	W....16	. . 0	not used	C1
	W....18	. . 0	NOT USED	D3
	W....19	. . 0	NOT USED	C3
	W....20	. . 0	not used	B4
	W....21	. . 0	not used MPX Mono	G2
	W....22	57.11.3000	0 Ohm Mic	N8
	W....23	57.11.3000	0 Ohm Mic	N7
	W....24	57.11.3000	0 Ohm Mic	N7
	W....25	57.11.3000	0 Ohm Mic	N7
	W....26	57.11.3000	0 Ohm Mic	N7
	W...110	. . 0	NOT USED	G4
	W...111	. . 0	NOT USED	G5

Optionen: Siehe Optionenliste!

Die files heissen #990230S,T

Mit NOT USED bezeichnete Elemente erscheinen z.T. in uebergeordneter BG.
Mit not used bezeichnete Elemente erscheinen nicht in Stereo-Einheiten.

Die Koordinaten bei Manuf. beziehen sich auf Bestueckplan

CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film,
PE=Polyester, PP=Polypropylen, FS=Polystyrol

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HISTORY
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1.10 90 - Stand RAI-Pult

13.11.90 - Eliminierung digitaler Stoerungen (DAC)
- AUX-Klirr (0V gereriert 1)
- PF-Headroom

21.11.90 - poslst - Bereinigung

09.01.91 - Verbesserung Rauschabstand Insert Send

04.02.91 - Poslst - Bereinigung NOT USED/not used

12.02.91 (01) HF-Entstoerung C 30, C 330, C 619, C 827 dazu
MIC-Knallen C 840 weg
Produktions-Bereinigung MP 25 not used

10.09.91 (02) INT 5 (Overload) gleich wie Mono: wechseln von 1M auf 100k
- R 618, R 619 werden neu 100 kOhm (57.11.3104)
Serienwiderstaende in TCL, TXD, TSTB, 000 usw. von 1k auf 100
- RZ 801, RZ 802 werden neu 100 Ohm (57.88.2101)
- R 803 wird neu 100 Ohm (57.11.3101)

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MANUFACTURER: ADI=Aanalog Devices Inc., Bu=Burndy, El=Elco, Ex=Exar,
Fc=Fairchild, Fe=Ferranti, GI=General Instrument, Ha=Harting
HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
(Matsushita), NS=National Semiconductors, Ph=Philips,
PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Corp. of
America, SDS=SDS-Relais, Sie=Siemens, Six=Siliconix, St=Studer
Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaichi

1.990.230.70 COMMON INPUT UNIT STEREO AB 91/02/0400

1.990.230.70 COMMON INPUT UNIT STEREO AB 91/02/1201

1.990.230.70 COMMON INPUT UNIT STEREO AB891/09/1002

END

Pin location list **1.990.230**

ALSO USED FOR -INPUT UNIT STEREO UNIV B 1.990.240
-INPUT UNIT STEREO HL+EQ MCH / B 1.990.232 / 242
-INPUT UNIT STEREO HL MCH / B 1.990.235 / 245

P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC
P6	01A	OVA BAL/PAN1	GROUND SIGN BAL (PAN 1)	O
P6	01B	B-L/PAN1-IN	BAL LEFT IN (PAN 1 IN)	O
P6	02A	B/PAN1-OUT-L	BAL OUT LEFT (PAN 1 OUT LEFT)	O
P6	02B	B/PAN1-OUT-R	BAL OUT RIGHT (PAN 1 OUT RIGHT)	O
P6	03A	-	NC (GROUND SIGN PAN 2)	O
P6	03B	B-R/PAN2-IN	BAL RIGHT IN (PAN 2 IN)	O
P6	04A	B-Rb-IN	BAL IN RIGHT b (PAN 2 OUT LEFT)	I,O
P6	04B	C-OUT	BAL COMMON OUT (PAN 2 OUT RIGHT)	O
P6	05A	FILM-OUT-L	OPTIONAL OUTPUT LEFT	O
P6	05B	FILM-OUT-R	OPTIONAL OUTPUT RIGHT	O
P6	06A	FILM-OUT-C	OPTIONAL OUTPUT	O
P6	06B	FILM-OUT-S	OPTIONAL OUTPUT	O
P6	07A	+ 15V	+ SUPPLY TO FADER UNIT	O
P6	07B	- 15V	- SUPPLY TO FADER UNIT	O
P6	08A	A OUT 0	INPUT ; FROM MCU ANALOG OUT 0	O
P6	08B	A OUT 1	INPUT ; FROM MCU ANALOG OUT 1	O
P6	09A	A IN 4	OUTPUT ; TO MCU ANALOG IN 4	O
P6	09B	A OUT 5	INPUT ; FROM MCU ANALOG OUT 5	O
P6	10A	RCL	RECEIVE CLOCK	O
P6	10B	RSTB	RECEIVE STROBE	O
P6	11A	INT 4	INTERUPT 4	O
P6	11B	RXD 3	RECEIVE DATA 3	O
P6	12A	INT 5	INTERUPT 5	O
P6	12B	TSTB 2	TRANSMIT STROBE 2	O
P6	13A	TSTB 3	TRANSMIT STROBE 3	O
P6	13B	TSTB 4	TRANSMIT STROBE 4	O
P6	14A	TSTB 5	TRANSMIT STROBE 5	O
P6	14B	DO 1	DATA OUT 1 (TRANSMIT STROBE 8)	O
P6	15A	TXD	TRANSMIT DATA	O
P6	15B	TCL	TRANSMIT CLOCK	O
P6	16A	DO 0	DATA OUT 0 (ENABLE)	O
P6	16B	UREF	+ 5V REFERENCE	O
P7	01A	OV-B	GROUND AUDIO (PIN)	O
P7	01B	CHASSIS	METAL FRAME	B
P7	02A	-	RES	O
P7	02B	-	RES	O
P7	03A	-	RES LEFT	B
P7	03B	-	RES RIGHT	B
P7	04A	B-MPX-L	MPX LEFT ; 0-OHM BUS	B,I
P7	04B	B-MPX-R	MPX RIGHT ; 0-OHM BUS	B,I
P7	05A	B-PFL/SOLO-L	PFL/SOLO LEFT ; 0-OHM BUS	B,I
P7	05B	B-PFL/SOLO-R	PFL/SOLO RIGHT ; 0-OHM BUS	B,I
P7	06A	B-A-L	MASTER A LEFT ; 0-OHM BUS	B,I
P7	06B	B-A-R	MASTER A RIGHT ; 0-OHM BUS	B,I
P7	07A	B-B-L	MASTER B LEFT ; 0-OHM BUS	B,I
P7	07B	B-B-R	MASTER B RIGHT ; 0-OHM BUS	B,I
P7	08A	B-C-L	MASTER C LEFT ; 0-OHM BUS	B,I
P7	08B	B-C-R	MASTER C RIGHT ; 0-OHM BUS	B,I

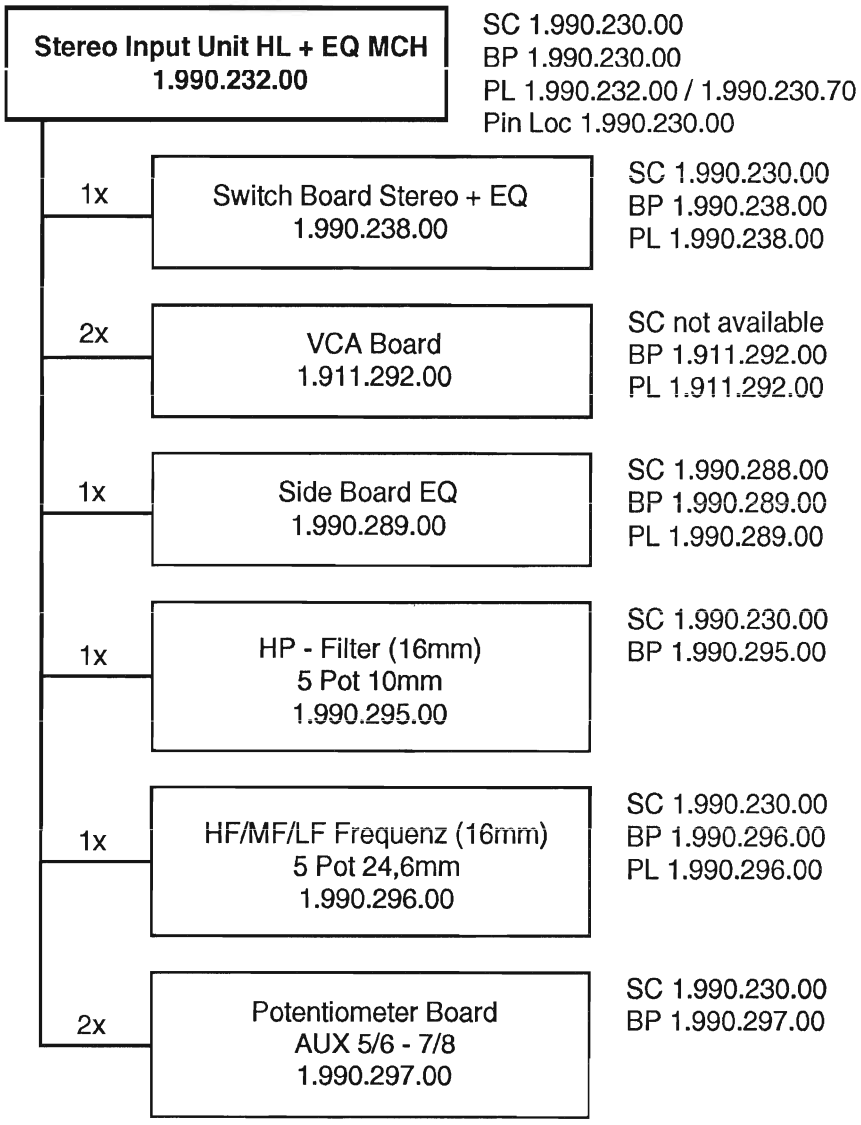
Pin location list **1.990.230**

P7	09A	B-D-L	MASTER D LEFT ; 0-OHM BUS	B,I		
P7	09B	B-D-R	MASTER D RIGHT ; 0-OHM BUS	B,I		
P7	10A	B-GR-1	GROUP 1 ; 0-OHM BUS	B,I		
P7	10B	B-GR-2	GROUP 2 ; 0-OHM BUS	B,I		
P7	11A	B-GR-3	GROUP 3 ; 0-OHM BUS	B,I		
P7	11B	B-GR-4	GROUP 4 ; 0-OHM BUS	B,I		
P7	12A	B-GR-5	GROUP 5 ; 0-OHM BUS	B,I		
P7	12B	B-GR-6	GROUP 6 ; 0-OHM BUS	B,I		
P7	13A	B-GR-7	GROUP 7 ; 0-OHM BUS	B,I		
P7	13B	B-GR-8	GROUP 8 ; 0-OHM BUS	B,I		
P7	14	0V-REF	0V REFERENCE	B	X	X
P7	15A	B-AUX-1	AUX 1 ; 0-OHM BUS	B,I		
P7	15B	B-AUX-2	AUX 2 ; 0-OHM BUS	B,I		
P7	16A	B-AUX-3	AUX 3 ; 0-OHM BUS	B,I		
P7	16B	B-AUX-4	AUX 4 ; 0-OHM BUS	B,I		
P7	17A	B-AUX-5	AUX 5 ; 0-OHM BUS	B,I		
P7	17B	B-AUX-6	AUX 6 ; 0-OHM BUS	B,I		
P7	18A	B-AUX-7	AUX 7 ; 0-OHM BUS	B,I		
P7	18B	B-AUX-8	AUX 8 ; 0-OHM BUS	B,I		
P7	19A	B-AUX-9	AUX 9 ; 0-OHM BUS	B,I		
P7	19B	B-AUX-10	AUX 10 ; 0-OHM BUS	B,I		
P7	20A	B-AUX-11	AUX 11 ; 0-OHM BUS	B,I		
P7	20B	B-AUX-12	AUX 12 ; 0-OHM BUS	B,I		
P7	21A	B-AUX-13	AUX 13 ; 0-OHM BUS	B,I		
P7	21B	B-AUX-14	AUX 14 ; 0-OHM BUS	B,I		
P7	22A	B-AUX-15	AUX 15 ; 0-OHM BUS	B,I		
P7	22B	B-AUX-16	AUX 16 ; 0-OHM BUS	B,I		
P7	23A	0V GEN 1	GROUND AUDIO GENERIERT 1	O		
P7	23B	-	N.C. (GROUP)	O		
P7	24A	0V GEN 2	GROUND AUDIO GENERIERT 2	O		
P7	24B	-	N.C. (GROUP)	O		
P7	25A	0V GEN 3	GROUND AUDIO GENERIERT 3	O		
P7	25B	-	N.C. (GROUP)	O		
P7	26A	0V GEN 4	GROUND AUDIO GENERIERT 4	O		
P7	26B	-	N.C. (GROUP)	O		
P7	27	0V-A	GROUND AUDIO	B	X	X
P7	28	- 15.5V	- SUPPLY	B	X	X
P7	29	+ 15.5V	+ SUPPLY	B	X	X
P7	30	0V-L	GROUND SIGN (LOGIC)	B	X	X
P7	31	+ 5.5V	+ SUPPLY	B	X	X
P7	32	+3..4V LED	LED SUPPLY VARIABLE +3...4V	B	X	X
P9	01A	LINE A-L-a	LINE INPUT A LEFT a	S,O		
P9	01B	LINE A-L-b	LINE INPUT A LEFT b	S,O		
P9	02A	LINE A-L-0VE	LINE INPUT A LEFT GROUND EXTERN	O		
P9	02B	LINE A-R-0VE	LINE INPUT A RIGHT GROUND EXTERN	O		
P9	03A	LINE A-R-a	LINE INPUT A RIGHT a	S,O		
P9	03B	LINE A-R-b	LINE INPUT A RIGHT b	S,O		
P9	04A	LINE B-L-a	LINE INPUT B LEFT a	S,O		
P9	04B	LINE B-L-b	LINE INPUT B LEFT b	S,O		
P9	05A	LINE B-L-0VE	LINE INPUT B GROUND EXTERN	O		
P9	05B	LINE B-R-0VE	LINE INPUT B RIGHT GROUND EXTERN	O		
P9	06A	LINE B-R-a	LINE INPUT B RIGHT a	S,O		
P9	06B	LINE B-R-b	LINE INPUT B RIGHT b	S,O		
P9	07A	-	N.C. (MONO)	O		
P9	07B	-	N.C. (MONO)	O		
P9	08A	-	N.C. (MONO)	O		
P9	08B	-	RES	O		
P9	09A	BUS-OUT-a	BUS OUTPUT a	S,O		
P9	09B	BUS-OUT-b	BUS OUTPUT b	S,O		
P9	10A	DIR-OUT-L-a	DIRECT OUT LEFT a	S,O		
P9	10B	DIR-OUT-L-b	DIRECT OUT LEFT b	S,O		

Pin location list **1.990.230**

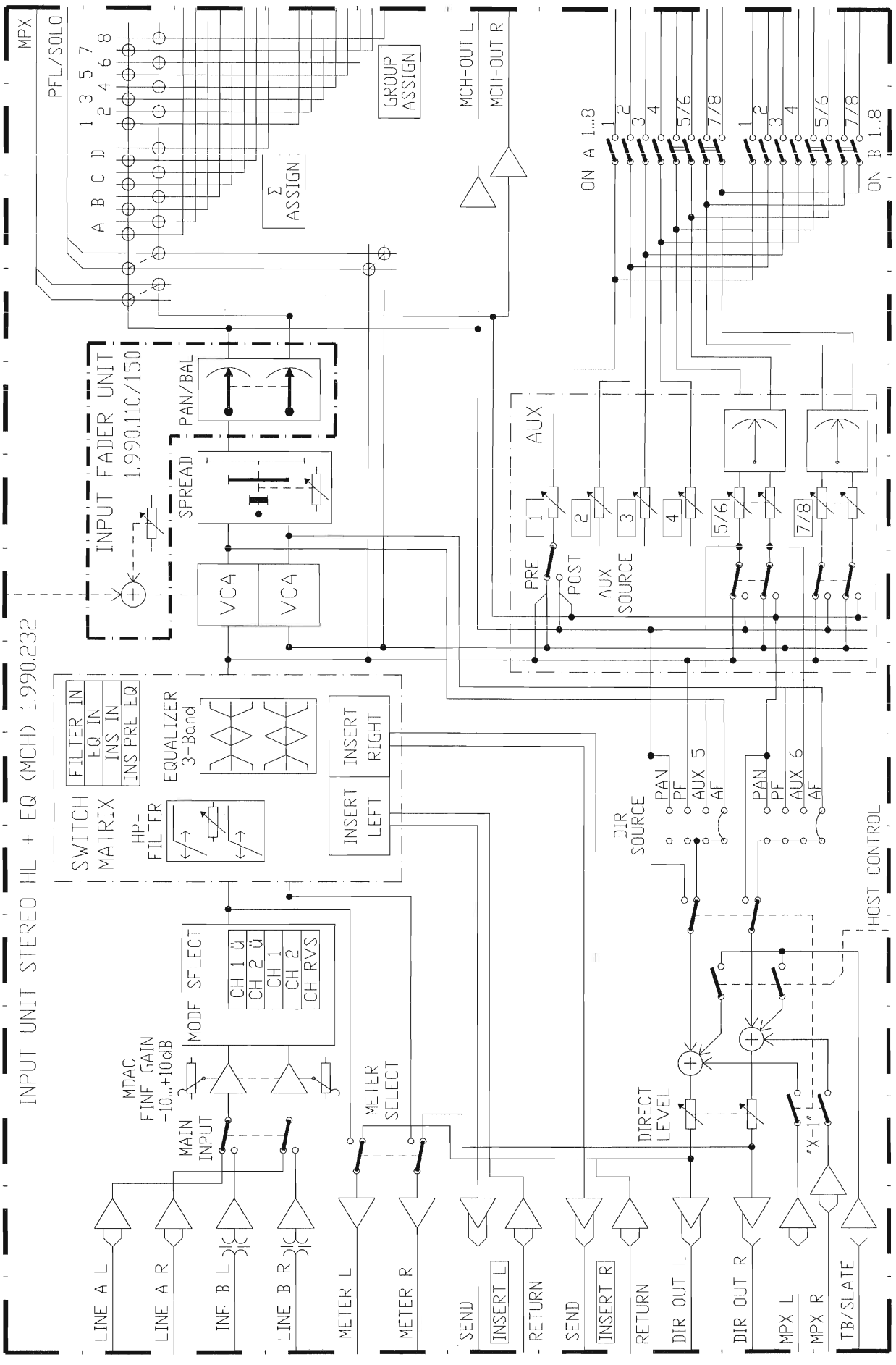
P9	11A	DIR-OUT-R-a	DIRECT OUT RIGHT a	S,O
P9	11B	DIR-OUT-R-b	DIRECT OUT RIGHT b	S,O
P9	12A	METER-L	METER LEFT	AS,O
P9	12B	OV-GEN	GROUND AUDIO GENERIERT	O
P9	13A	METER-OV	METER GROUND	O
P9	13B	METER-R	METER RIGHT	AS,O
P9	14A	MCH-OUT-L-a	TO EURO 32CH BUS SELECTOR LEFT a	S,O
P9	14B	MCH-OUT-L-b	TO EURO 32CH BUS S. LEFT b(GROUND)	S,O
P9	15A	MCH-OUT-R-a	TO EURO 32CH BUS SELECTOR RIGHT a	S,O
P9	15B	MCH-OUT-R-b	TO EURO 32CH BUS S. RIGHT b(GROUND)	S,O
P9	16A	PF-OUT-L	PRE FADER OUT LEFT	AS,O
P9	16B	PF-OUT-R	PRE FADER OUT RIGHT	AS,O
P9	17A	AF-OUT-L	AFTER FADER OUT LEFT	AS,O
P9	17B	AF-OUT-R	AFTER FADER OUT RIGHT	AS,O
P9	18A	MIC-OUT-L-OV	MIC OUTPUT LEFT GROUND	O
P9	18B	AF/PF-OUT-OV	AF/PF OUT GROUND	O
P9	19A	MIC-L-a	MIC INPUT LEFT a	S,O
P9	19B	MIC-OUT-L	MIC OUTPUT LEFT	AS,O
P9	20A	MIC-L-OVE	MIC LEFT GROUND EXTERN	O
P9	20B	MIC-L-b	MIC INPUT LEFT b	S,O
P9	21A	MIC-R-a	MIC INPUT RIGHT a	S,O
P9	21B	MIC-R-OVE	MIC RIGHT GROUND EXTERN	O
P9	22A	PHANT-PWR-SW	PHANTOM SUPPLY SWITCHED	O
P9	22B	MIC-R-b	MIC INPUT RIGHT b	S,O
P9	23A	MLT-BUS-RET-a	MULTI BUS RETURN a	S,O
P9	23B	MLT-BUS-RET-b	MULTI BUS RETURN b	S,O
P9	24A	TB/SLATE-a	TALK BACK / SLATE INPUT a	S,B
P9	24B	PHANT-PWR-IN	PHANTOM SUPPLY BUS INPUT	B
P9	25A	MPX-MONO-a	MPX INPUT MONO a	S,B
P9	25B	TB/SLATE-b	TALK BACK / SLATE INPUT b	S,B
P9	26A	MPX-L-a	MPX INPUT LEFT a	S,B
P9	26B	MPX-MONO-b	MPX INPUT MONO b	S,B
P9	27A	MPX-R-a	MPX INPUT RIGHT a	S,B
P9	27B	MPX-L-b	MPX INPUT LEFT b	S,B
P9	28A	INS-OV	INSERT GROUND	O
P9	28B	MPX-R-b	MPX INPUT RIGHT b	S,B
P9	29A	INS-SEND-L-a	SYM INSERT LEFT OUTPUT a	S,O
P9	29B	INS-SEND-L-b	SYM INSERT LEFT OUTPUT b	S,O
P9	30A	INS-RET -L-a	SYM INSERT LEFT INPUT a	S,O
P9	30B	INS-RET -L-b	SYM INSERT LEFT INPUT b	S,O
P9	31A	INS-SEND-R-a	SYM INSERT RIGHT OUTPUT a	S,O
P9	31B	INS-SEND-R-b	SYM INSERT RIGHT OUTPUT b	S,O
P9	32A	INS-RET -R-a	SYM INSERT RIGHT INPUT a	S,O
P9	32B	INS-RET -R-b	SYM INSERT RIGHT INPUT b	S,O

Stereo Input Unit HL + EQ MCH 1.990.232.00



SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

STEREO INPUT UNIT HL+EQ MCH 1.990.232.00



INPUT UNIT STEREO HL+EQ MCH 1.990.232.00

Ad	..POS..	...REF.No...		DESCRIPTION.....MANUFACTURER			
	A.....2	1.990.238.00		SWITCH BOARD STEREO +EQ			St
	A.....7	1.990.296.00		3*5 POT. 24.6MM BOARD			St
	A.....8	1.990.230.93		LL INPUT UNIT STEREO			St
	A....12	1.990.289.00		SIDE BOARD EQ .A			St
	A....13	1.990.295.00		5 POT. 10MM BOARD			St I6
	A....70	1.990.230.70		Baugruppe Stereo vorbestueckt			St
	C....77	. .	4700 pF		59.05.2472	on 1.990.296	G6
	C....78	. . 0	not used			on 1.990.296	
	C....79	. . 0	not used			on 1.990.296	
	C....80	. . 0	not used			on 1.990.296	
	C....93	. .	100 uF		59.22.3101	on 1.990.296	E5
	C...377	. .	4700 pF		59.05.2472	on 1.990.296	F6
	C...393	. .	100 uF		59.22.3101	on 1.990.296	E5
	IC...12	50.09.0117	MC33078P	dual op. amp. low noise		Mot	I5
	IC..312	50.09.0117	MC33078P	dual op. amp. low noise		Mot	H5
	MP...17	1.010.100.58	4 pcs	Masseblech zu Preh-Pot Type 12			
	MP...18	22.99.0137	4 pcs	6-Kt. Mutter M7*0.75			
	MP...19	23.99.0122	4 pcs	U-Scheibe D 7.1/12*0.5			
	MP...21	1.990.200.05	4 pcs	Poti-Achsverlaengerung			
	MP...26	21.01.0279	5 pcs	Z-Schr. M2.5*6			
	MP...27	24.16.1025	5 pcs	Rippenscheibe D 2.7 / 5			
01	MP...27	24.16.1025	8 pcs	Rippenscheibe D 2.7 / 5			
	MP...28	21.01.2352	6 pcs	S-Schr. M3*4			
	MP...29	24.16.3023	2 pcs	Wellensicherung 2.3			
	MP...30	42.01.0203	2 pcs	Drehknopf gr, D 10/4			
	MP...31	42.01.0228	13 pcs	Knebelknopf gr, D 10/4			
	MP...32	42.01.0250	7 pcs	Deckel h'gr, D 10			
	MP...33	42.01.0251	4 pcs	Deckel d'gr, D 10			
	MP...34	42.01.0253	1 pcs	Deckel rt, D 10			
	MP...35	42.01.0254	1 pcs	Deckel bl, D 10			
	MP...36	42.01.0255	1 pcs	Deckel gb, D 10			
	MP...37	42.01.0256	1 pcs	Deckel gn, D 10			
	MP...38	1.010.022.21	2 pcs	Linsenschr. spez M3*8			
	MP...39	1.010.221.27	1 pcs	Mutterbolzen M2.5*10.5			
	MP...40	1.912.000.03	2 pcs	Drehring D 6.2/13			
	MP...41	1.990.200.03	1 pcs	Schirmblech Input			
	MP...42	1.990.210.02	1 pcs	Traeger Input			
	MP...43	1.990.210.05	1 pcs	Fenster Input			
	MP...44	1.990.232.01	1 pcs	Frontschild Input (1.990.242.01 -> BG 242!)			
	MP...45	1.990.289.02	1 pcs	Isolation Side Board			
01	MP...47	1.990.289.01	1 pcs	Schirmblech SIDE BOARD			
01	MP...48	1.010.208.27	3 pcs	Mutterbolzen M2.5x14mm			
	P....21	. .	26 pol	1/20"	54.14.2003	on 1.990.296	
	P....22	. .	26 pol	1/20"	54.14.2003	on 1.990.296	
	R....68	. .	22 kOhm	10% -log.comb.with R71/368/371/859 !295			I6
	R....71	. .	22 kOhm	10% -log.see R 68 1.010.029.58 on A 13			I6
	R...102	1.010.107.58	4.7 kOhm	10% lin. comb.with R402/857			St G7
	R...104	1.010.107.58	4.7 kOhm	10% lin. comb.with R404/853			St F7
	R...106	1.010.107.58	4.7 kOhm	10% lin. comb.with R406/855			St E7
	R...109	. .	100 kOhm	10% neg.log. 1.010.030.58		on 1.990.296	H5
	R...110	. .	100 kOhm	10% neg.log. see R 109		on 1.990.296	H6
	R...111	. .	3.9 kOhm		57.11.3392	on 1.990.296	H6
	R...112	. .	1 MOhm		57.11.3105	on 1.990.296	G5
	R...113	. .	4.7 kOhm		57.11.3472	on 1.990.296	G5
	R...114	. .	100 kOhm	10% neg.log. 1.010.030.58		on 1.990.296	G6
	R...115	. .	100 kOhm	10% neg.log. see R 114		on 1.990.296	G5
	R...116	. .	100 kOhm	10% neg.log. 1.010.030.58		on 1.990.296	F6
	R...117	. .	100 kOhm	10% neg.log. see R 116		on 1.990.296	F5
	R...118	. .	4.7 kOhm		57.11.3472	on 1.990.296	F5
	R...140	1.010.102.58	10 kOhm	10% pos log.comb. with R440/856		St	H7
	R...368	. .	22 kOhm	10% neg.log. see R 68			I6
	R...371	. .	22 kOhm	10% neg.log. see R 68			I6
	R...402	. .	4.7 kOhm	10% lin. see R 102			G6
	R...404	. .	4.7 kOhm	10% lin. see R 104			F6
	R...406	. .	4.7 kOhm	10% lin. see R 106			E6
	R...409	. .	100 kOhm	10% neg.log. see R 109		on 1.990.296	H5
	R...410	. .	100 kOhm	10% neg.log. see R 109		on 1.990.296	H5
	R...411	. .	3.9 kOhm		57.11.3392	on 1.990.296	G4
	R...412	. .	1 MOhm		57.11.3105	on 1.990.296	F5
	R...413	. .	4.7 kOhm		57.11.3472	on 1.990.296	F5
	R...414	. .	100 kOhm	10% neg.log. see R 114		on 1.990.296	G5
	R...415	. .	100 kOhm	10% neg.log. see R 114		on 1.990.296	G5
	R...416	. .	100 kOhm	10% neg.log. see R 116		on 1.990.296	F5
	R...417	. .	100 kOhm	10% neg.log. see R 116		on 1.990.296	F5
	R...418	. .	4.7 kOhm		57.11.3472	on 1.990.296	F5
	R...440	. . 0	not used		see R 140		H6
	R...852	. .	100 kOhm	20% lin. see R 114		on 1.990.296	G6
	R...853	. .	100 kOhm	20% lin. see R 104			F7
	R...854	. .	100 kOhm	20% lin. see R 116		on 1.990.296	F6
	R...855	. .	100 kOhm	20% lin. see R 106			E7
	R...856	. .	100 kOhm	20% lin. see R 140			H7
	R...857	. .	100 kOhm	20% lin. see R 102			G7
	R...858	. .	100 kOhm	20% lin. see R 109		on 1.990.296	H6
	R...859	. .	100 kOhm	20% lin. see R 68			I7
	W...110	. .	0 Ohm		57.11.3000	on 1.990.296	G4
	W...111	. .	0 Ohm		57.11.3000	on 1.990.296	G5

12/02/91 (01) Erleichterung Fertigung und Pruefung (Schirmblech und Mutterbolzen zu EQ werden erst am Schluss montiert)

>> POSLST 1.990.232 gilt auch fuer BG 1.990.242.xx (B - Version) <<

| Die files zu dieser POSLST heissen #990232A,B |

Die posliste 1.990.230.70 ist in den files #990230S,T

* *

OPTIONS : SEE OPTIONLIST 1.990.230.00
****

option 1 :.....multichannel out
option 2 :.....output trim (stereo inputs:standard)
option 3 :.....0 ohm input to processing (only input unit stereo)

* *

Die Koordinaten bei Manuf. beziehen sich auf Bestueckplan

CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

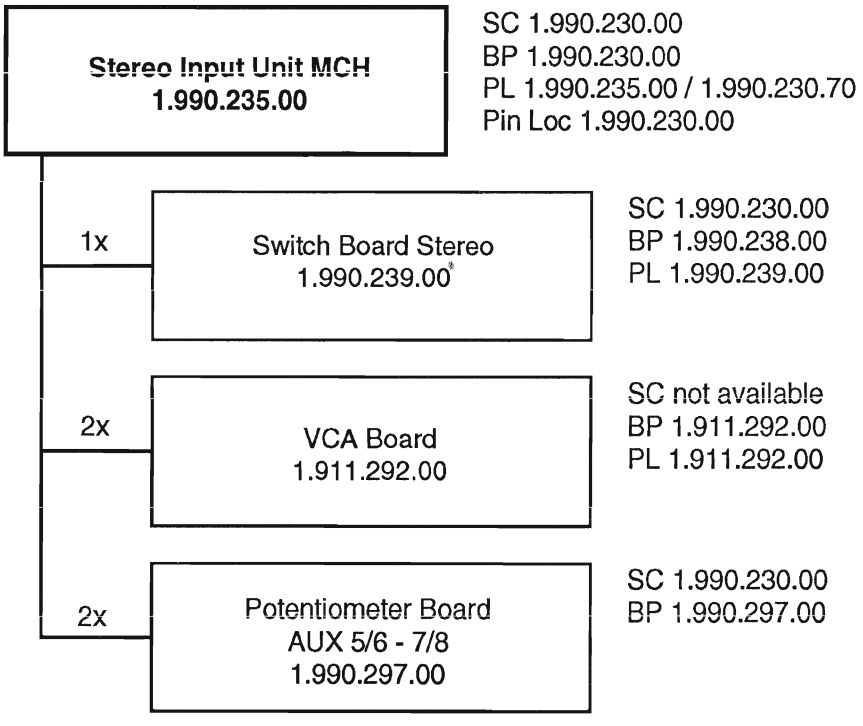
MANUFACTURER: ADI=Aanalog Devices Inc., Bu=Burndy, El=Elco, Ex=Exar,
Fc=Fairchild, Fe=Ferranti, GI=General Instrument, Ha=Harting,
HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
(Matsushita), NS=National Semiconductors, Ph=Philips,
PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Corp. of
America, SDS=SDS-Relais, Sie=Siemens, Six=Siliconix, St=Studer,
Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaichi

1.990.232.00 INPUT UNIT STEREO HL+EQ MCH AB 91/02/0400

1.990.232.00 INPUT UNIT STEREO HL+EQ MCH AB 91/02/1201

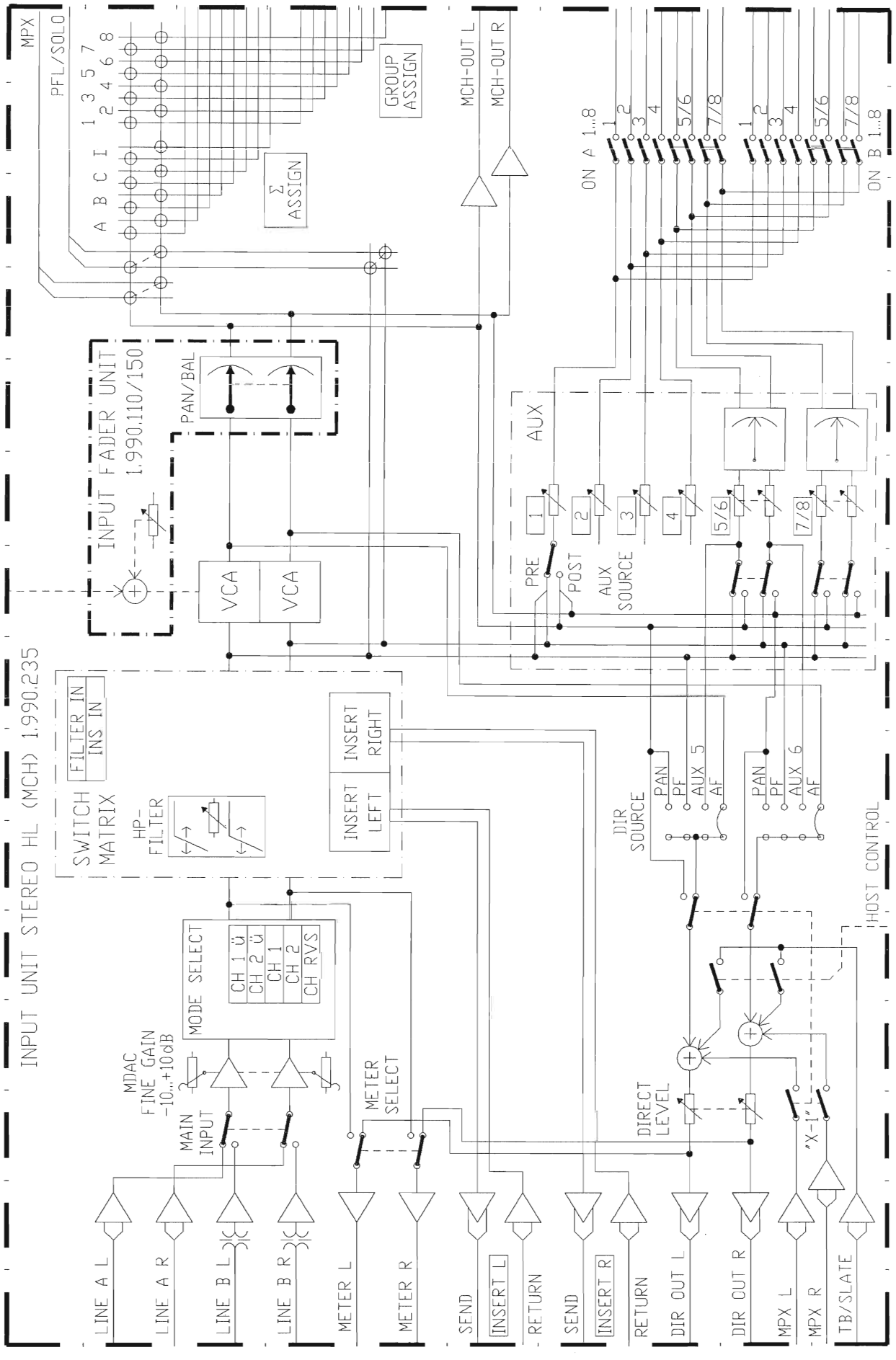
END

Stereo Input Unit MCH 1.990.235.00



SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

INPUT UNIT STEREO HL (MCH) 1.990.235.00



INPUT UNIT STEREO HL MCH 1.990.235.00

```
Ad  ..POS..  ...REF.No...     DESCRIPTION.............................MANUFACTURER

    A.....2  1.990.239.00              SWITCH BOARD STEREO                    St

    A....70  1.990.230.70              Baugruppe Stereo vorbestueckt          St

    MP...28    21.01.2352      6 pcs   S-Schr. M3*4
    MP...29    24.16.3023      2 pcs   Wellensicherung 2.3
    MP...30    42.01.0203      2 pcs   Drehknopf gr, D 10/4

    MP...31    42.01.0228      5 pcs   Knebelknopf gr, D 10/4
    MP...32    42.01.0250      2 pcs   Deckel h'gr, D 10
    MP...33    42.01.0251      1 pcs   Deckel d'gr, D 10
    MP...34    42.01.0253      1 pcs   Deckel   rt, D 10
    MP...35    42.01.0254      1 pcs   Deckel   bl, D 10
    MP...36    42.01.0255      1 pcs   Deckel   gb, D 10
    MP...37    42.01.0256      1 pcs   Deckel   gn, D 10
    MP...38  1.010.022.21      2 pcs   Linsenschr. spez M3*8
    MP...40  1.912.000.03      2 pcs   Drehring D 6.2/13

    MP...41  1.990.200.03      1 pcs   Schirmblech Input
    MP...42  1.990.210.02      1 pcs   Traeger Input
    MP...43  1.990.210.05      1 pcs   Fenster Input
    MP...44  1.990.235.01      1 pcs   Frontschild Input (1.990245.01 -> BG 245!)

    W....18  1.010.329.64    wire       2.5mm, bypass spread                  D3
    W....19  1.010.329.64    wire       2.5mm, bypass spread                  C3

 >> POSLST 1.990.235 gilt auch fuer BG 1.990.245.xx ( B - Version ) <<

       >-----------------------------------------------<
       | Die files zu dieser POSLST heissen  #990235A,B |
       >-----------------------------------------------<

Die posliste 1.990.230.70 ist in den files #990230S,T

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

OPTIONS :  SEE OPTIONLIST 1.990.230.00
********

option 1 :......multichannel out
option 2 :......output trim (stereo inputs : standard)
option 3 :......0 ohm input to processing  ( only input unit stereo )

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

Die Koordinaten bei Manuf. beziehen sich auf Bestueckplan

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              HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
              {Matsushita}, NS=National Semiconductors, Ph=Philips,
              PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Corp. of
              America, SDS=SDS-Relais, Sie=Siemens, Six=Siliconix, St=Studer,
              Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaichi

            1.990.235.00  INPUT UNIT STEREO HL    MCH   AB 91/02/0400

 END
→
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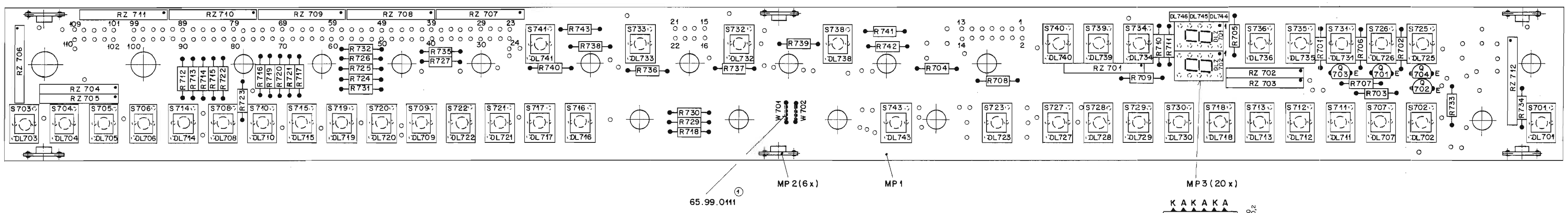
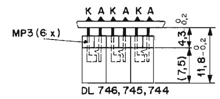
SWITCH BOARD STEREO 1.990.238.00 / 1.990.239.00





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VALID FOR	NR. UNIT	NR. POS. LIST
SWITCH BOARD STEREO + EQ	1.990.238-00	1.990.238-00
SWITCH BOARD STEREO	1.990.239-00	1.990.239-00

Änderung			③
			②
16.5.90			①
Ausgabe 10.4.90			⓪
Datum	Gez.	Gepr.	Ges. Index
Kopie für:			

STUDER REGENSDORF ZÜRICH | Benennung: SWITCH BOARD STEREO | Nummer: 1.990.238-00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	DL..701	. .	red see S701	
	DL..702	. .	yel see S702	
	DL..703	. .	yel see S703	
	DL..704	. .	grn see S704	
	DL..705	. .	yel see S705	
	DL..706	. .	grn see S706	
	DL..707	. .	yel see S707	
	DL..708	. .	grn see S708	
	DL..709	. .	yel see S709	
	DL..710	. .	yel see S710	
	DL..711	. .	yel see S711	
	DL..712	. .	yel see S712	
	DL..713	. .	grn see S713	
	DL..714	. .	yel see S714	
	DL..715	. .	grn see S715	
	DL..716	. .	red see S716	
	DL..717	. .	red see S717	
	DL..718	. .	red see S718	
	DL..719	. .	yel see S719	
	DL..720	. .	grn see S720	
	DL..721	. .	yel see S721	
	DL..722	. .	grn see S722	
	DL..723	. .	red see S723	
	DL..724	. . 0	not used	
	DL..725	. .	yel see S725	
	DL..726	. .	yel see S726	
	DL..727	. .	grn see S727	
	DL..728	. .	grn see S728	
	DL..729	. .	grn see S729	
	DL..730	. .	red see S730	
	DL..731	. .	yel see S731	
	DL..732	. .	grn see S732	
	DL..733	. .	grn see S733	
	DL..734	. .	grn see S734	
	DL..735	. .	yel see S735	
	DL..736	. .	grn see S736	
	DL..737	. . 0	not used	
	DL..738	. .	grn see S738	
	DL..739	. .	grn see S739	
	DL..740	. .	yel see S740	
	DL..741	. .	grn see S741	
	DL..742	. . 0	not used	
	DL..743	. .	red see S743	
	DL..744	50.04.2701	MV 57123 red	
	DL..745	50.04.2701	MV 57123 red	
	DL..746	50.04.2701	MV 57123 red	
	DLZ.701	73.01.0128	HDSP7303 7-segment display common cathode	HP
	DLZ.702	73.01.0128	HDSP7303 7-segment display common cathode	HP

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	MP..701	1.990.219.11	1 pcs Input Mono PCB	
	MP..702	1.990.100.05	6 pcs Querprinthalter	
	MP..703	53.03.0218	26 pcs single line socket	
	MP..704	1.990.238.04	1 pcs Nr.Etikette 5*20	
	Q...701	50.03.0515	BC 307 PNP IC>100mA, B>100	any
	Q...702	50.03.0436	BC 237 NPN IC>100mA, B>100	any
	Q...703	50.03.0515	BC 307 PNP IC>100mA, B>100	any
	Q...704	50.03.0436	BC 237 NPN IC>100mA, B>100	any
	R...701	57.11.3101	100 Ohm 5% 0.25W	
	R...702	57.11.3222	2.2 kOhm 5% 0.25W	
	R...703	57.11.3102	1 kOhm 5% 0.25W	
	R...704	57.11.3473	47 kOhm 5% 0.25W	
	R...705	57.11.3101	100 Ohm 5% 0.25W	
	R...706	57.11.3222	2.2 kOhm 5% 0.25W	
	R...707	57.11.3102	1 kOhm 5% 0.25W	
	R...708	57.11.3473	47 kOhm 5% 0.25W	
	R...709	57.11.3101	100 Ohm 5% 0.25W	
	R...710	57.11.3101	100 Ohm 5% 0.25W	
	R...711	57.11.3101	100 Ohm 5% 0.25W	
	R...712	57.11.3101	100 Ohm 5% 0.25W	
	R...713	57.11.3101	100 Ohm 5% 0.25W	
	R...714	57.11.3101	100 Ohm 5% 0.25W	
	R...715	57.11.3101	100 Ohm 5% 0.25W	
	R...716	57.11.3101	100 Ohm 5% 0.25W	
	R...717	57.11.3101	100 Ohm 5% 0.25W	
	R...718	57.11.3101	100 Ohm 5% 0.25W	
	R...719	57.11.3101	100 Ohm 5% 0.25W	
	R...720	57.11.3101	100 Ohm 5% 0.25W	
	R...721	57.11.3101	100 Ohm 5% 0.25W	
	R...722	57.11.3101	100 Ohm 5% 0.25W	
	R...723	57.11.3101	100 Ohm 5% 0.25W	
	R...724	57.11.3101	100 Ohm 5% 0.25W	
	R...725	57.11.3101	100 Ohm 5% 0.25W	
	R...726	57.11.3101	100 Ohm 5% 0.25W	
	R...727	57.11.3101	100 Ohm 5% 0.25W	
	R...728	. . 0	not used	
	R...729	57.11.3101	100 Ohm 5% 0.25W	
	R...730	57.11.3101	100 Ohm 5% 0.25W	
	R...731	57.11.3101	100 Ohm 5% 0.25W	
	R...732	57.11.3101	100 Ohm 5% 0.25W	
	R...733	57.11.3101	100 Ohm 5% 0.25W	
	R...734	57.11.3101	100 Ohm 5% 0.25W	
	R...735	57.11.3101	100 Ohm 5% 0.25W	
	R...736	57.11.3101	100 Ohm 5% 0.25W	
	R...737	57.11.3101	100 Ohm 5% 0.25W	
	R...738	57.11.3101	100 Ohm 5% 0.25W	
	R...739	57.11.3101	100 Ohm 5% 0.25W	
	R...740	57.11.3101	100 Ohm 5% 0.25W	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...741	57.11.3101	100 Ohm 5% 0.25W	
	R...742	57.11.3101	100 Ohm 5% 0.25W	
	R...743	57.11.3101	100 Ohm 5% 0.25W	
	RZ..701	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..702	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..703	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..704	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..705	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..706	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..707	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..708	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..709	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..710	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..711	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..712	57.88.4104	100 kOhm SIP 9 (8*)	
	S...701	55.15.0602	1 * A red/trans.	
	S...702	55.15.0604	1 * A yel/trans.	
	S...703	55.15.0644	1 * A yel/yel	
	S...704	55.15.0605	1 * A grn/trans.	
	S...705	55.15.0604	1 * A yel/trans.	
	S...706	55.15.0605	1 * A grn/trans.	
	S...707	55.15.0604	1 * A yel/trans.	
	S...708	55.15.0605	1 * A grn/trans.	
	S...709	55.15.0604	1 * A yel/trans.	
	S...710	55.15.0604	1 * A yel/trans.	
	S...711	55.15.0604	1 * A yel/trans.	
	S...712	55.15.0604	1 * A yel/trans.	
	S...713	55.15.0605	1 * A grn/trans.	
	S...714	55.15.0604	1 * A yel/trans.	
	S...715	55.15.0605	1 * A grn/trans.	
	S...716	55.15.0622	1 * A red/red	
	S...717	55.15.0622	1 * A red/red	
	S...718	55.15.0602	1 * A red/trans.	
	S...719	55.15.0604	1 * A yel/trans.	
	S...720	55.15.0605	1 * A grn/trans.	
	S...721	55.15.0604	1 * A yel/trans.	
	S...722	55.15.0605	1 * A grn/trans.	
	S...723	55.15.0622	1 * A red/red	
	S...724	. . 0	not used	
	S...725	55.15.0604	1 * A yel/trans.	
	S...726	55.15.0604	1 * A yel/trans.	
	S...727	55.15.0605	1 * A grn/trans.	
	S...728	55.15.0605	1 * A grn/trans.	
	S...729	55.15.0605	1 * A grn/trans.	
	S...730	55.15.0602	1 * A red/trans.	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	S...731	55.15.0604	1 * A yel/trans.	
	S...732	55.15.0605	1 * A grn/trans.	
	S...733	55.15.0605	1 * A grn/trans.	
	S...734	55.15.0655	1 * A grn/grn	
	S...735	55.15.0604	1 * A yel/trans.	
	S...736	55.15.0605	1 * A grn/trans.	
	S...737	. . 0	not used	
	S...738	55.15.0605	1 * A grn/trans.	
	S...739	55.15.0655	1 * A grn/grn	
	S...740	55.15.0644	1 * A yel/yel	
	S...741	55.15.0605	1 * A grn/trans.	
	S...742	. . 0	not used	
	S...743	55.15.0622	1 * A red/red	
	W...701	1.010.321.64	5mm link	
	W...702	1.010.321.64	5mm link	
	W...703	. . 0	not used	
	W...704	. . 0	not used	

CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film, PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER: Bu=Burndy, Ex=Exar, Fc=Fairchild, GI=General Instrument HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National {Matsushita}, NS=National Semiconductors, Ph=Philips, Ra=Raytheon, Sig=Signetics, Six=Siliconix, St=Studer, TI=Texas Instrument

1.990.238.00 SWITCH BOARD STEREO + EQ TA 90/04/0200

SWITCH BOARD STEREO 1.990.239.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	DL..701	. .	red see S701	
	DL..702	. .	yel see S702	
	DL..703	. .	yel see S703	
	DL..704	. .	grn see S704	
	DL..705	. .	yel see S705	
	DL..706	. .	grn see S706	
	DL..707	. .	yel see S707	
	DL..708	. .	grn see S708	
	DL..709	. .	yel see S709	
	DL..710	. .	yel see S710	
	DL..711	. .	yel see S711	
	DL..712	. .	yel see S712	
	DL..713	. .	grn see S713	
	DL..714	. .	yel see S714	
	DL..715	. .	grn see S715	
	DL..716	. . 0	not used	
	DL..717	. .	red see S717	
	DL..718	. .	red see S718	
	DL..719	. .	yel see S719	
	DL..720	. .	grn see S720	
	DL..721	. .	yel see S721	
	DL..722	. .	grn see S722	
	DL..723	. . 0	not used	
	DL..724	. . 0	not used	
	DL..725	. .	yel see S725	
	DL..726	. .	yel see S726	
	DL..727	. .	grn see S727	
	DL..728	. .	grn see S728	
	DL..729	. .	grn see S729	
	DL..730	. .	red see S730	
	DL..731	. .	yel see S731	
	DL..732	. . 0	not used	
	DL..733	. . 0	not used	
	DL..734	. .	grn see S734	
	DL..735	. .	yel see S735	
	DL..736	. .	grn see S736	
	DL..737	. . 0	not used	
	DL..738	. . 0	not used	
	DL..739	. .	grn see S739	
	DL..740	. .	yel see S740	
	DL..741	. . 0	not used	
	DL..742	. . 0	not used	
	DL..743	. . 0	not used	
	DL..744	50.04.2701	MV 57123 red	
	DL..745	50.04.2701	MV 57123 red	
	DL..746	50.04.2701	MV 57123 red	
	DLZ.701	73.01.0128	HDSP7303 7-segment display common cathode	HP
	DLZ.702	73.01.0128	HDSP7303 7-segment display common cathode	HP
	MP..701	1.990.219.11	1 pcs Input Mono PCB	
	MP..702	1.990.100.05	6 pcs Querprinthalter	
	MP..703	53.03.0218	26 pcs single line socket	
	MP..704	1.990.239.04	1 pcs Nr.Etikette 5*20	
	Q...701	50.03.0515	BC 307 PNP IC>100mA, B>100	any
	Q...702	50.03.0436	BC 237 NPN IC>100mA, B>100	any
	Q...703	50.03.0515	BC 307 PNP IC>100mA, B>100	any
	Q...704	50.03.0436	BC 237 NPN IC>100mA, B>100	any
	R...701	57.11.3101	100 Ohm 5% 0.25W	
	R...702	57.11.3222	2.2 kOhm 5% 0.25W	
	R...703	57.11.3102	1 kOhm 5% 0.25W	
	R...704	57.11.3473	47 kOhm 5% 0.25W	
	R...705	57.11.3101	100 Ohm 5% 0.25W	
	R...706	57.11.3222	2.2 kOhm 5% 0.25W	
	R...707	57.11.3102	1 kOhm 5% 0.25W	
	R...708	57.11.3473	47 kOhm 5% 0.25W	
	R...709	57.11.3101	100 Ohm 5% 0.25W	
	R...710	57.11.3101	100 Ohm 5% 0.25W	
	R...711	57.11.3101	100 Ohm 5% 0.25W	
	R...712	57.11.3101	100 Ohm 5% 0.25W	
	R...713	57.11.3101	100 Ohm 5% 0.25W	
	R...714	57.11.3101	100 Ohm 5% 0.25W	
	R...715	57.11.3101	100 Ohm 5% 0.25W	
	R...716	57.11.3101	100 Ohm 5% 0.25W	
	R...717	. . 0	not used	
	R...718	57.11.3101	100 Ohm 5% 0.25W	
	R...719	. . 0	not used	
	R...720	57.11.3101	100 Ohm 5% 0.25W	
	R...721	57.11.3101	100 Ohm 5% 0.25W	
	R...722	57.11.3101	100 Ohm 5% 0.25W	
	R...723	57.11.3101	100 Ohm 5% 0.25W	
	R...724	. . 0	not used	
	R...725	57.11.3101	100 Ohm 5% 0.25W	
	R...726	57.11.3101	100 Ohm 5% 0.25W	
	R...727	. . 0	not used	
	R...728	. . 0	not used	
	R...729	57.11.3101	100 Ohm 5% 0.25W	
	R...730	57.11.3101	100 Ohm 5% 0.25W	
	R...731	57.11.3101	100 Ohm 5% 0.25W	
	R...732	57.11.3101	100 Ohm 5% 0.25W	
	R...733	57.11.3101	100 Ohm 5% 0.25W	
	R...734	57.11.3101	100 Ohm 5% 0.25W	
	R...735	. . 0	not used	
	R...736	. . 0	not used	
	R...737	57.11.3101	100 Ohm 5% 0.25W	
	R...738	57.11.3101	100 Ohm 5% 0.25W	
	R...739	57.11.3101	100 Ohm 5% 0.25W	
	R...740	. . 0	not used	
	R...741	57.11.3101	100 Ohm 5% 0.25W	
	R...742	57.11.3101	100 Ohm 5% 0.25W	
	R...743	57.11.3101	100 Ohm 5% 0.25W	
	RZ..701	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..702	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..703	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..704	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..705	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..706	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..707	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..708	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..709	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..710	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..711	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..712	57.88.4104	100 kOhm SIP 9 (8*)	
	S...701	55.15.0602	1 * A red/trans.	
	S...702	55.15.0604	1 * A yel/trans.	
	S...703	55.15.0644	1 * A yel/yel	
	S...704	55.15.0605	1 * A grn/trans.	
	S...705	55.15.0604	1 * A yel/trans.	
	S...706	55.15.0605	1 * A grn/trans.	
	S...707	55.15.0604	1 * A yel/trans.	
	S...708	55.15.0605	1 * A grn/trans.	
	S...709	55.15.0604	1 * A yel/trans.	
	S...710	55.15.0604	1 * A yel/trans.	
	S...711	55.15.0604	1 * A yel/trans.	
	S...712	55.15.0604	1 * A yel/trans.	
	S...713	55.15.0605	1 * A grn/trans.	
	S...714	55.15.0604	1 * A yel/trans.	
	S...715	55.15.0605	1 * A grn/trans.	
	S...716	. . 0	not used	
	S...717	55.15.0622	1 * A red/red	
	S...718	55.15.0602	1 * A red/trans.	
	S...719	55.15.0604	1 * A yel/trans.	
	S...720	55.15.0605	1 * A grn/trans.	
	S...721	55.15.0604	1 * A yel/trans.	
	S...722	55.15.0605	1 * A grn/trans.	
	S...723	. . 0	not used	
	S...724	. . 0	not used	
	S...725	55.15.0604	1 * A yel/trans.	
	S...726	55.15.0604	1 * A yel/trans.	
	S...727	55.15.0605	1 * A grn/trans.	
	S...728	55.15.0605	1 * A grn/trans.	
	S...729	55.15.0605	1 * A grn/trans.	
	S...730	55.15.0602	1 * A red/trans.	
	S...731	55.15.0604	1 * A yel/trans.	
	S...732	. . 0	not used	
	S...733	. . 0	not used	
	S...734	55.15.0655	1 * A grn/grn	
	S...735	55.15.0604	1 * A yel/trans.	
	S...736	55.15.0605	1 * A grn/trans.	
	S...737	. . 0	not used	
	S...738	. . 0	not used	
	S...739	55.15.0655	1 * A grn/grn	
	S...740	55.15.0644	1 * A yel/yel	
	S...741	. . 0	not used	
	S...742	. . 0	not used	
	S...743	. . 0	not used	
	W...701	. . 0	not used	
	W...702	. . 0	not used	
	W...703	. . 0	not used	
	W...704	. . 0	not used	

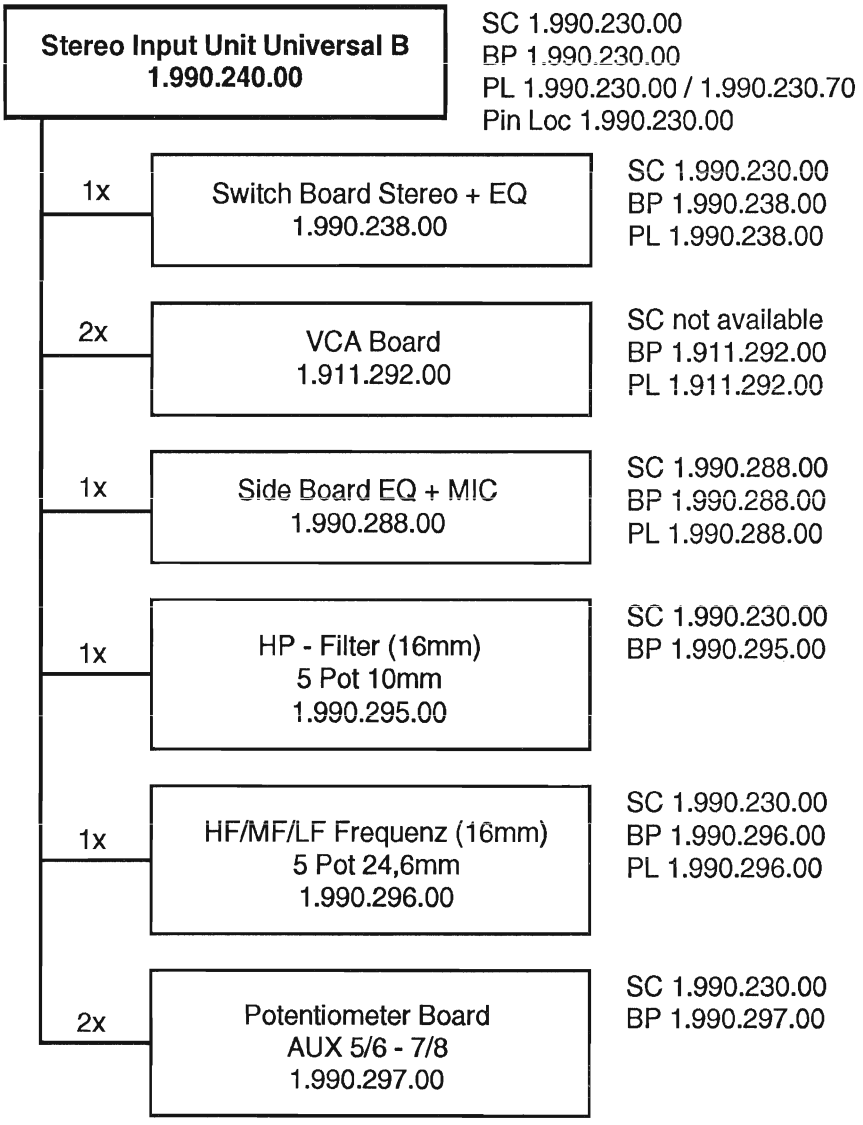
CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER: Bu=Burndy, Ex=Exar, Fc=Fairchild, GI=General Instrument
HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
(Matsushita), NS=National Semiconductors, Ph=Philips,
Ra=Raytheon, Sig=Signetics, Six=Siliconix, St=Studer,
TI=Texas Instrument

1.990.239.00 SWITCH BOARD STEREO TA 90/04/0200

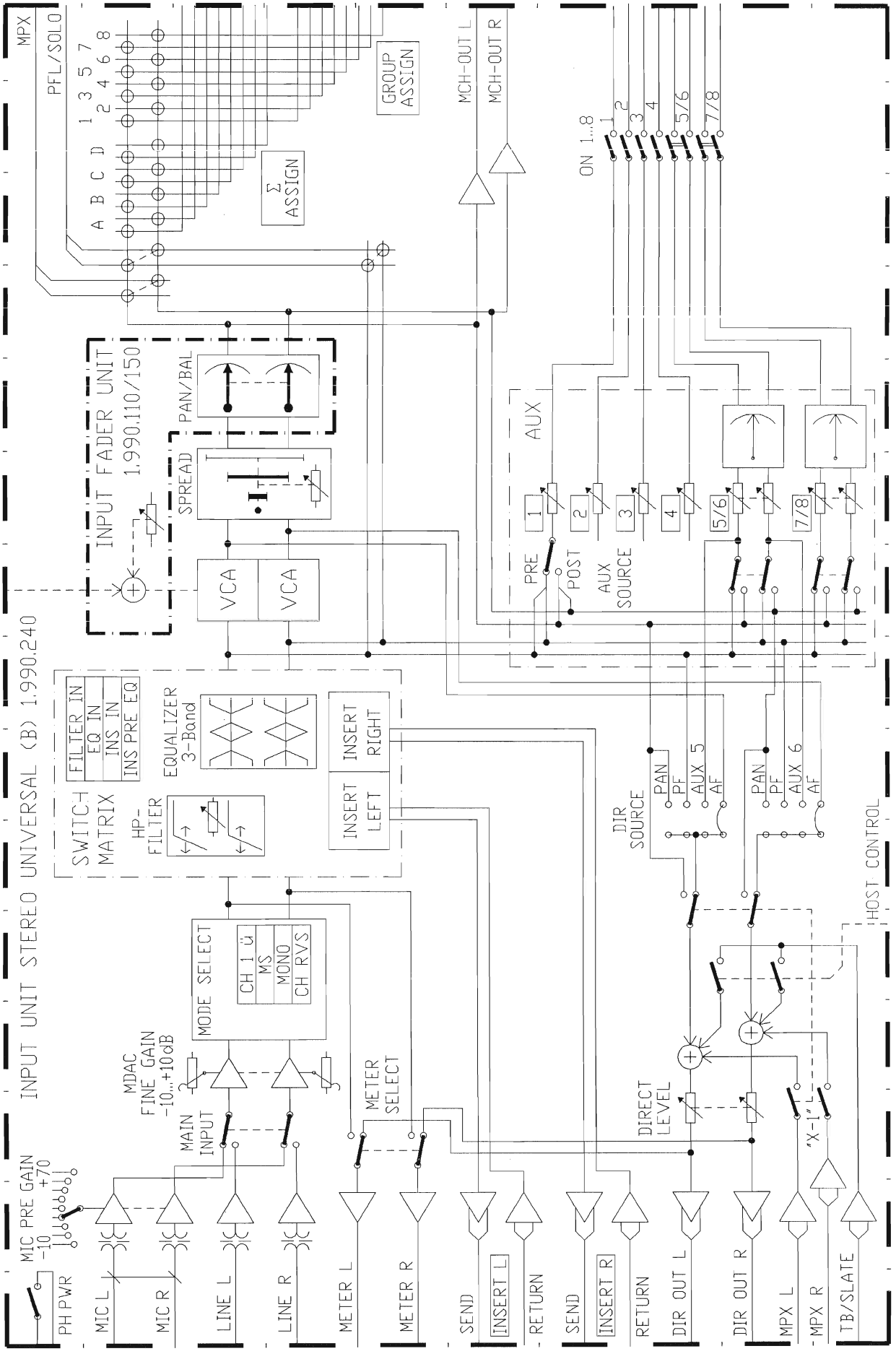
END

Stereo Input Unit Universal B 1.990.240.00

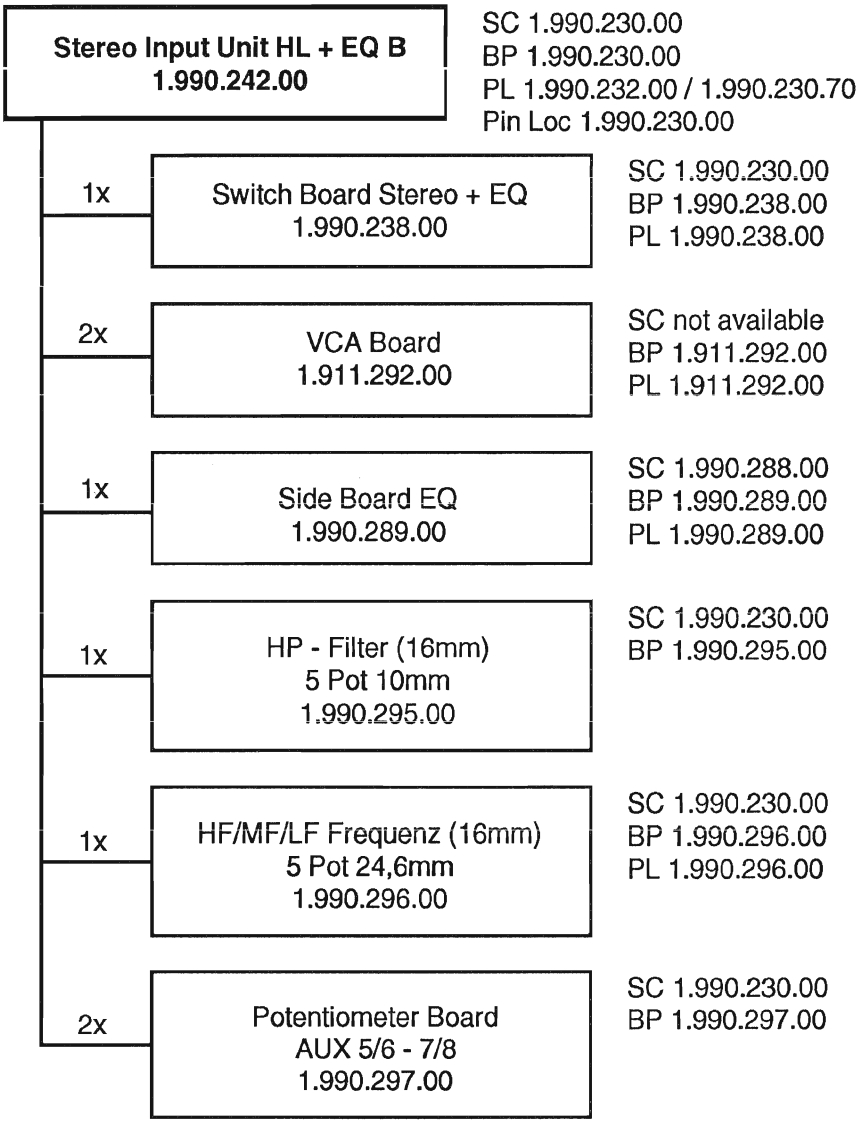


SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

STEREO INPUT UNIT UNIVERSAL B 1.990.240.00

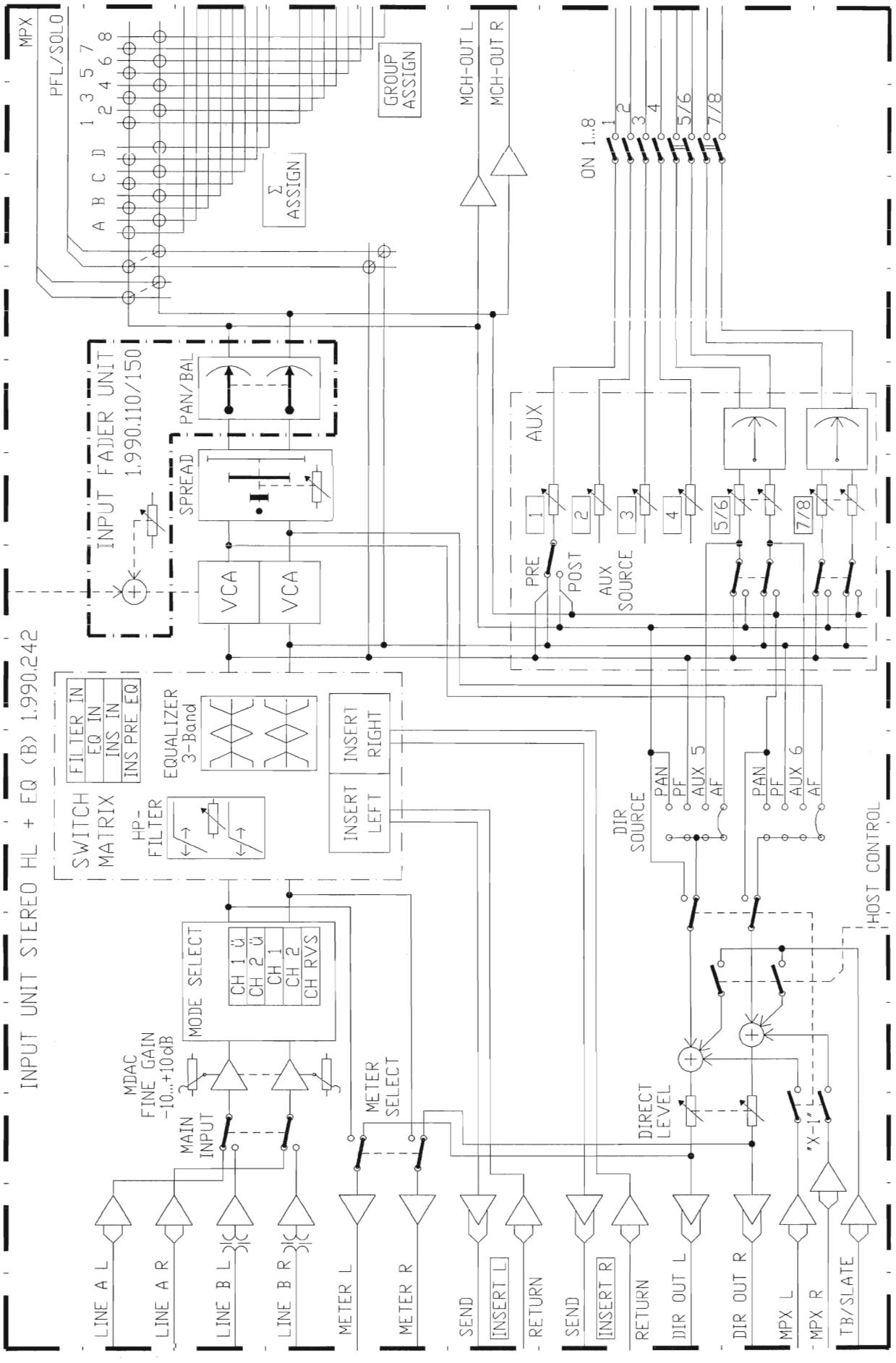


Stereo Input Unit HL + EQ B 1.990.242.00

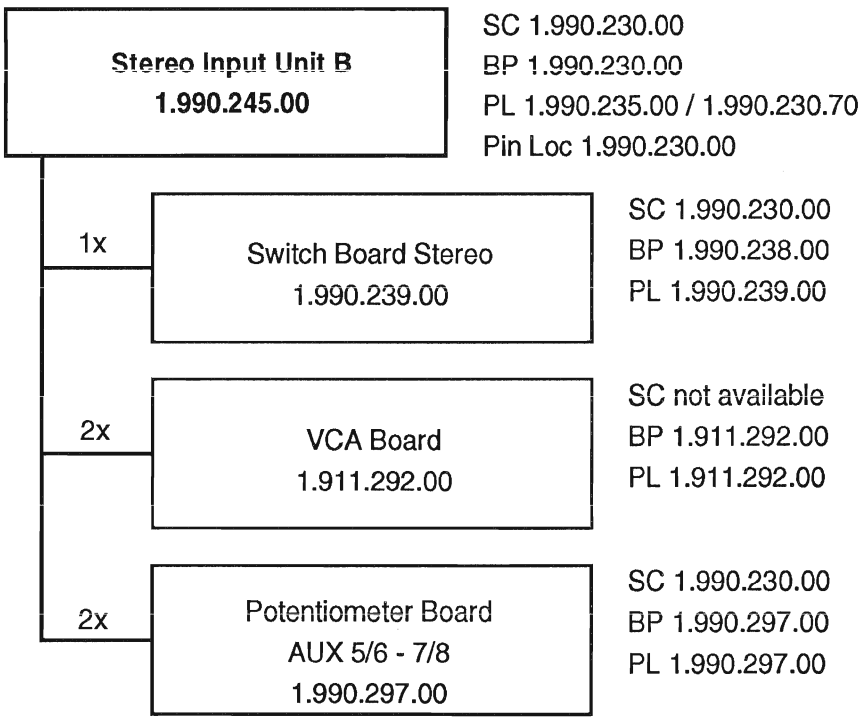


SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

STEREO INPUT UNIT HL+EQ B 1.990.242.00

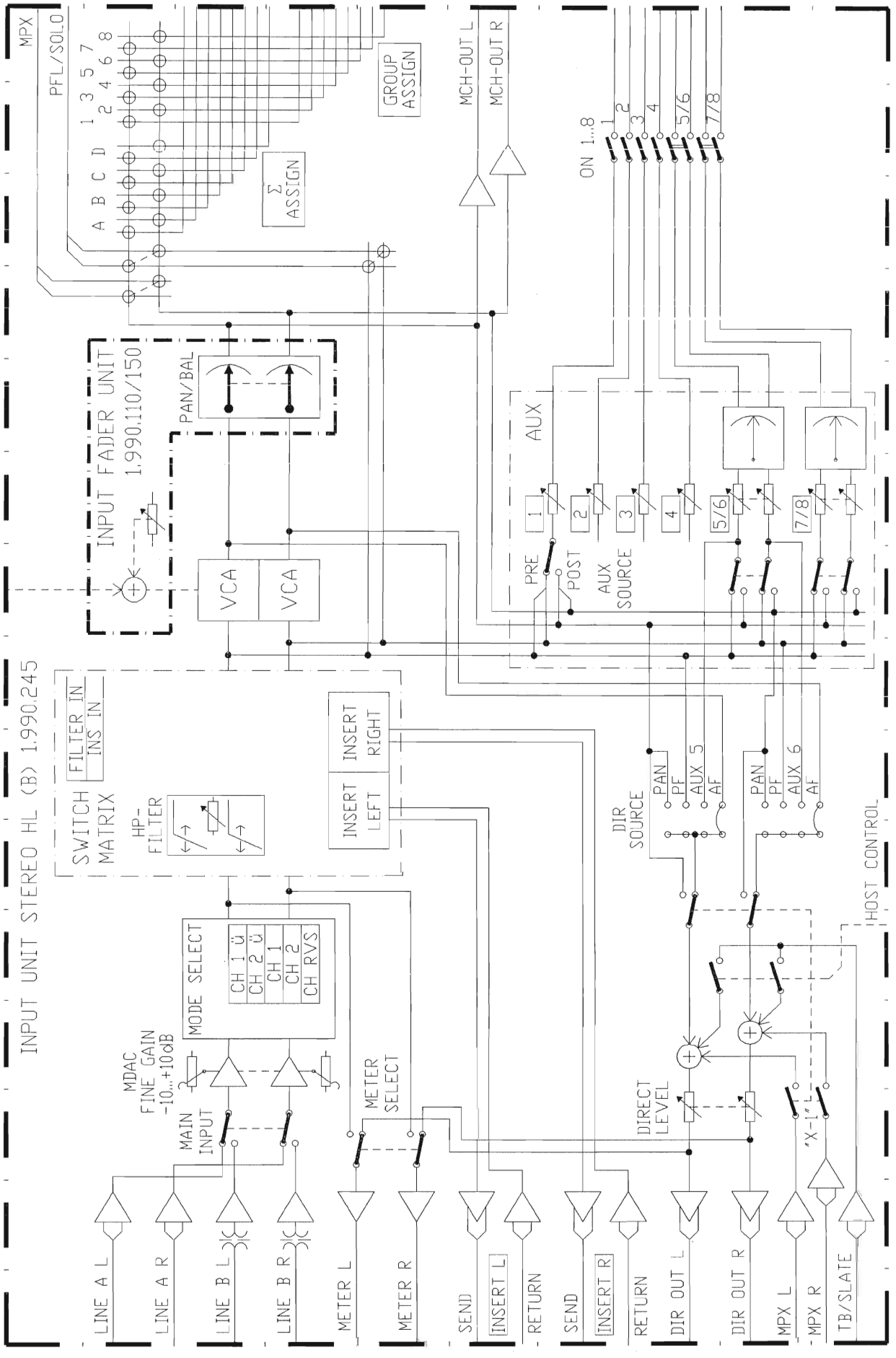


Stereo Input Unit B 1.990.245.00

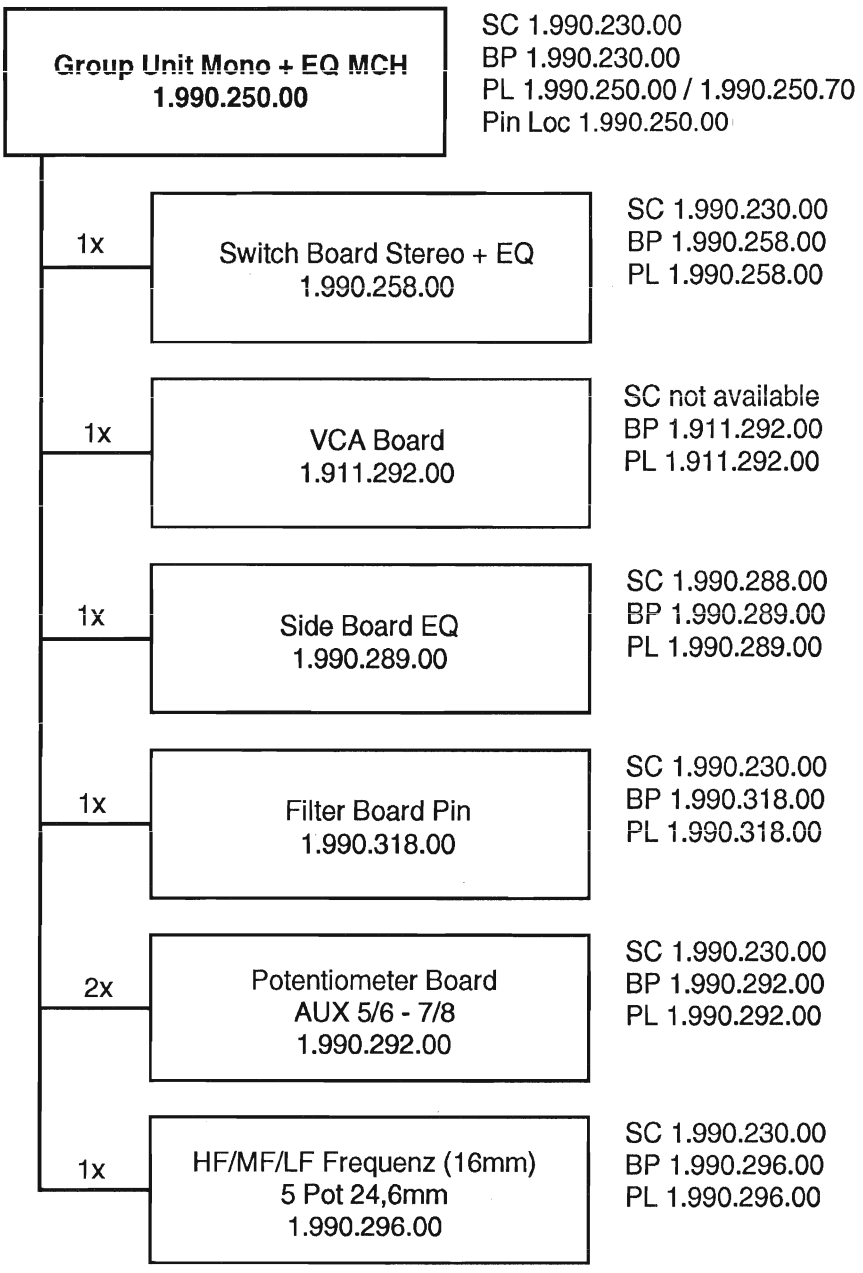


SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

INPUT UNIT STEREO HL (B) 1.990.245.00

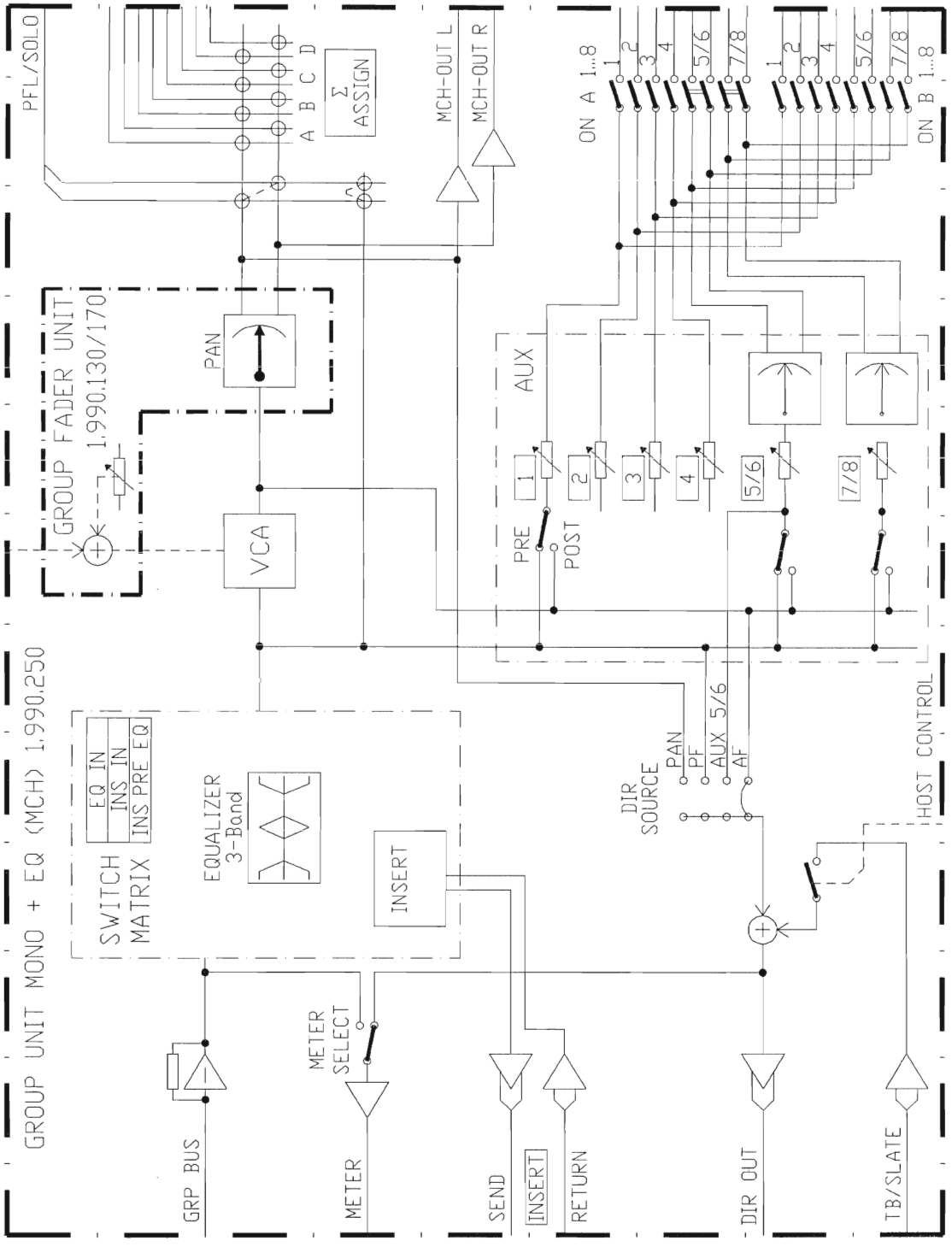


Group Unit Mono + EQ MCH 1.990.250.00



SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

GROUP UNIT MONO+EQ MCH 1.990.250.00



GROUP UNIT MONO +EQ

1.990.250.00

Ad	..POS..	...REF.No...		DESCRIPTION			MANUFACTURER
	A.....2	1.990.258.00		SWITCH BOARD GROUP +EQ			St
	A.....7	1.990.296.00		3*5 POT. 24.6MM BOARD			St
	A....12	1.990.289.00		SIDE BOARD EQ	,A		St
	A....14	1.990.292.00		5 POT. 10MM BOARD			St B6
	A....15	1.990.292.00		5 POT. 10MM BOARD			St B6
	A....16	1.990.318.00		FILTER BOARD PIN			St N3
	A....70	1.990.250.70		GROUP UNIT VORMONTIERT	,A		St
	C....77	. .	4700 pF			59.05.2472 on 1.990.296	
	C....93	. .	100 uF			59.22.3101 on 1.990.296	
	C...377	. .	4700 pF			59.05.2472 on 1.990.296	
	C...393	. .	100 uF			59.22.3101 on 1.990.296	
	IC...15	50.07.0015	CD4053	3 * 2 channel analog mux/demux		Ph,Mot,RCA	G4
	IC...19	50.09.0117	MC33078P	dual op. amp. low noise		Mot	F3
	IC...75	. . 0	not used			see option 1	H1
	IC..813	50.07.0049	4049	hex inverting buffer CMOS		Ph,To	D8
	IC..814	50.07.0049	4049	hex inverting buffer CMOS		Ph,To	E9
	IC..835	50.07.0051	CD4051	8-channel analog mux/demux		Ph,Mot,RCA	G8
	IC..836	50.07.0051	CD4051	8-channel analog mux/demux		Ph,Mot,RCA	G9
	MP...21	1.990.200.05	3 pcs	Poti-Achsverlaengerung			
	MP...26	21.01.0279	5 pcs	Z-Schr. M2.5*6			
	MP...27	24.16.1025	5 pcs	Rippenscheibe D 2.7 / 5			
01	MP...27	24.16.1025	8 pcs	Rippenscheibe D 2.7 / 5			
	MP...28	21.01.2352	6 pcs	S-Schr. M3*4			
	MP...29	24.16.3023	2 pcs	Wellensicherung 2.3			
	MP...30	42.01.0203	2 pcs	Drehknopf gr, D 10/4			
	MP...31	42.01.0228	10 pcs	Knebelknopf gr, D 10/4			
	MP...32	42.01.0250	4 pcs	Deckel h'gr, D 10			
	MP...33	42.01.0251	4 pcs	Deckel d'gr, D 10			
	MP...34	42.01.0253	1 pcs	Deckel rt, D 10			
	MP...35	42.01.0254	1 pcs	Deckel bl, D 10			
	MP...36	42.01.0255	1 pcs	Deckel gb, D 10			
	MP...37	42.01.0256	1 pcs	Deckel gn, D 10			
	MP...38	1.010.022.21	2 pcs	Linsenschr. spez M3*8			
	MP...39	1.010.221.27	1 pcs	Mutterbolzen M2.5*10.5			
	MP...40	1.912.000.03	2 pcs	Drehring D 6.2/13			
	MP...41	1.990.200.03	1 pcs	Schirmblech Input			
	MP...42	1.990.210.02	1 pcs	Traeger Input			
	MP...44	1.990.250.01	1 pcs	Frontschild Input (1.990260.01 -> BG 2601)			
	MP...45	1.990.289.02	1 pcs	Isolation Side Board			
	MP...46	1.010.108.64	1 pcs	gelber Draht connects PF L&PF R			F2
01	MP...47	1.990.289.01	1 pcs	Schirmblech SIDE BOARD			
01	MP...48	1.010.208.27	3 pcs	Mutterbolzen M2.5x14mm			
	P....21	. .	26 pol	1/20"		54.14.2003 on 1.990.296	
	P....22	. .	26 pol	1/20"		54.14.2003 on 1.990.296	
	R...102	1.010.108.58	4.7 kOhm	10% lin.	comb.with 857		St G7
	R...104	1.010.108.58	4.7 kOhm	10% lin.	comb.with 853		St F7
	R...106	1.010.108.58	4.7 kOhm	10% lin.	comb.with 855		St E7
	R...109	. .	100 kOhm	10% neg.log.	1.010.030.58	on 1.990.296	
	R...110	. .	100 kOhm	10% neg.log.	see R 109	on 1.990.296	
	R...111	. .	3.9 kOhm			57.11.3392 on 1.990.296	
	R...112	. .	1 MOhm			57.11.3105 on 1.990.296	
	R...113	. .	4.7 kOhm			57.11.3472 on 1.990.296	
	R...114	. .	100 kOhm	10% neg.log.	1.010.030.58	on 1.990.296	
	R...115	. .	100 kOhm	10% neg.log.	see R 114	on 1.990.296	
	R...116	. .	100 kOhm	10% neg.log.	1.010.030.58	on 1.990.296	
	R...117	. .	100 kOhm	10% neg.log.	see R 116	on 1.990.296	
	R...118	. .	4.7 kOhm			57.11.3472 on 1.990.296	
	R...182	. .	4.7 kOhm	10% +log.comb.withR183/483/844/846			B6
	R...183	. .	10 kOhm	10% +log.see R 182 1.010.034.58 on A 14			B6
	R...186	. .	4.7 kOhm	10% +log.comb.withR187/487/845/847			A6
	R...187	. .	10 kOhm	10% +log.see R 186 1.010.034.58 on A 15			A6
	R...203	. . 0	not used			see option 2	N6
	R...409	. .	100 kOhm	10% neg.log.	see R 109	on 1.990.296	
	R...410	. .	100 kOhm	10% neg.log.	see R 109	on 1.990.296	
	R...411	. .	3.9 kOhm			57.11.3392 on 1.990.296	
	R...412	. .	1 MOhm			57.11.3105 on 1.990.296	
	R...413	. .	4.7 kOhm			57.11.3472 on 1.990.296	
	R...414	. .	100 kOhm	10% neg.log.	see R 114	on 1.990.296	
	R...415	. .	100 kOhm	10% neg.log.	see R 114	on 1.990.296	
	R...416	. .	100 kOhm	10% neg.log.	see R 116	on 1.990.296	
	R...417	. .	100 kOhm	10% neg.log.	see R 116	on 1.990.296	
	R...418	. .	4.7 kOhm			57.11.3472 on 1.990.296	
	R...436	. . 0	not used	remove R 436 in MONO GROUPS			H3
	R...483	. .	10 kOhm	10% neg.log.	see R 182		B6
	R...487	. .	10 kOhm	10% neg.log.	see R 186		A6
	R...844	. .	100 kOhm	20% lin.	see R 182		B7
	R...845	. .	100 kOhm	20% lin.	see R 186		A6
	R...846	. .	100 kOhm	20% lin.	see R 182		B6
	R...847	. .	100 kOhm	20% lin.	see R 186		A7
	R...852	. .	100 kOhm	20% lin.	see R 114	on 1.990.296	
	R...853	. .	100 kOhm	20% lin.	see R 104		F7
	R...854	. .	100 kOhm	20% lin.	see R 116	on 1.990.296	
	R...855	. .	100 kOhm	20% lin.	see R 106		E7
	R...857	. .	100 kOhm	20% lin.	see R 102		G7
	R...858	. .	100 kOhm	20% lin.	see R 109	on 1.990.296	
	W....16	1.010.330.64	wire	3.5mm, Group Mono Pan			C1
	W....19	. . 0	not used	remove W 19 in MONO GROUPS			C3
	W....20	57.11.3000	0 Ohm	Group AUX Mono Pan			B4
	W...110	. .	0 Ohm			57.11.3000 on 1.990.296	
	W...111	. .	0 Ohm			57.11.3000 on 1.990.296	

12/02/91 (01) Erleichterung Fertigung und Pruefung (Schirmblech und Mutterbolzen zu EQ werden erst am Schluss montiert)

>> POSLST 1.990.250 gilt auch fuer BG 1.990.260.xx (B - Version) <<

Die files zu dieser POSLST heissen #990250A,B

Die posliste 1.990.250.70 ist in den files #990250S,T

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OPTIONS : SEE OPTIONLIST 1.990.230.00
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option 1 :.....multichannel out
option 2 :.....output trim

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Die Koordinaten bei Manuf. beziehen sich auf Bestueckplan

CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER: ADI=Aanalog Devices Inc., Bu=Burndy, El=Elco, Ex=Exar,
Fc=Fairchild, Fe=Ferranti, GI=General Instrument, Ha=Harting,
HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
(Matsushita), NS=National Semiconductors, Ph=Philips,
PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Corp. of
America, SDS=SDS-Relais, Sie=Siemens, Six=Siliconix, St=Studer,
Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaichi

1.990.250.00 GROUP UNIT MONO +EQ AB 91/02/1100

1.990.250.00 GROUP UNIT MONO +EQ AB 91/02/1201

END
+

COMMON GROUP UNIT

1.990.250.70

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	A.....1	1.911.292.00	VCA	St E4
	A.....2	. . 0	NOT USED	
	A.....3	1.023.412.02	1/40 " flatcable connect. 200mm 20pol	St
	A.....4	1.023.412.14	1/40 " flatcable connect. 140mm 20pol	St
	A.....5	1.023.412.14	1/40 " flatcable connect. 140mm 20pol	St
	A.....6	1.023.412.25	1/40 " flatcable connect. 250mm 20pol	St
	A.....7	. . 0	NOT USED	
	A.....8	. . 0	not used	
	A.....9	. . 0	not used	
	A....10	1.990.250.94	KL GROUP UNIT	St
	A....11	. . 0	NOT USED	
	A....12	. . 0	NOT USED	
	A....13	. . 0	not used	
	A....14	. . 0	NOT USED	B5
	A....15	. . 0	NOT USED	A5
	A....16	. . 0	NOT USED	N3
	A....17	. . 0	not used	
	A....70	. . 0	NOT USED	
	A...301	. . 0	NOT USED	E3
	A...316	. . 0	NOT USED	N4
	C.....1	. . 0	not used	N3
	C.....2	. . 0	not used	N3
	C.....3	. . 0	not used	N2
	C.....4	. . 0	not used	N2
	C.....5	. . 0	not used	N2
	C.....6	. . 0	not used	M3
	C.....7	. . 0	not used	M3
	C.....8	. . 0	not used	M3
	C.....9	. . 0	not used	M2
	C....10	. . 0	not used	N2
	C....11	. . 0	not used	M2
	C....12	. . 0	not used	M2
	C....13	. . 0	not used	M2
	C....14	. . 0	not used	N2
	C....15	. . 0	not used	M2
	C....16	. . 0	not used	M2
	C....17	. . 0	not used	M2
	C....18	. . 0	not used	L6
	C....19	. . 0	not used	L6
	C....20	. . 0	not used	L6
	C....21	. . 0	not used	L7
	C....22	. . 0	not used	L6
	C....23	. . 0	not used	L6
	C....24	. . 0	not used	L6
	C....25	. . 0	not used	L7
	C....26	. . 0	not used	L6
	C....27	. . 0	not used	L5
	C....28	. . 0	not used	L4
	C....29	. . 0	not used	L5
	C....31	59.22.3101	100 uF -20% 10V EL	M2
	C....32	59.34.7220	22 pF 2% CE	L2
	C....33	59.22.2221	220 uF -20% 6V EL	N4
	C....34	59.22.2221	220 uF -20% 6V EL	N3
	C....35	. . 0	not used	N3
01	C....35	59.22.3101	100 uF -20% 10V EL	N4
	C....36	59.34.4101	100 pF 2% CE	N4
	C....37	59.06.0102	1.0 nF PE	N3
	C....38	59.34.4101	100 pF CE	M3
	C....39	59.34.7151	150 pF 2% CE	M3
	C....40	59.22.3101	100 uF -20% 10V EL	M4
	C....41	. . 0	not used	M2
	C....42	. . 0	not used	L2
	C....43	. . 0	not used	N3
	C....44	. . 0	not used	M3
	C....45	59.06.0104	100 nF PE	N4
	C....46	59.06.0104	100 nF PE	M4
	C....47	. . 0	not used	M5
	C....48	. . 0	not used	M5
	C....49	59.06.0104	100 nF PE	M6
	C....50	59.06.0104	100 nF PE	M6
	C....51	. . 0	not used	I5
	C....52	. . 0	not used	I5
	C....53	. . 0	not used	I5
	C....54	. . 0	not used	I5
	C....55	. . 0	not used	I5
	C....56	59.22.3470	47 uF -20% 10V EL	I4
	C....57	59.22.3470	47 uF -20% 10V EL	I4
	C....58	59.22.3101	100 uF -20% 10V EL	H3
	C....59	59.22.3101	100 uF -20% 10V EL	I3
	C....60	59.22.3101	100 uF -20% 10V EL	I3
	C....61	59.34.7151	150 pF 2% CE	I3
	C....62	59.34.4101	100 pF 2% CE	I3
	C....63	59.22.2221	220 uF -20% 6V EL	I2
	C....64	59.22.2221	220 uF -20% 6V EL	I2
	C....65	59.22.3101	100 uF -20% 10V EL	F3
	C....66	59.22.3101	100 uF -20% 10V EL	H7
	C....67	. . 0	not used	L4
	C....68	. . 0	not used	L4
	C....69	. . 0	not used	L4
	C....70	. . 0	not used	G0
	C....71	. . 0	not used	G0
	C....72	. . 0	not used	G0
	C....74	59.34.7220	22 pF 2% CE	H2
	C....75	59.34.4101	100 pF 2% CE	I3
	C....76	59.34.2330	33 pF CE	G2

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	C....77	. . 0	NOT USED	
	C....78	. . 0	not used	(on 1.990.296)
	C....79	. . 0	not used	(on 1.990.296)
	C....80	. . 0	not used	(on 1.990.296)
	C....81	59.06.0104	100 nF PE	I3
	C....82	59.06.0104	100 nF PE	I3
	C....83	. . 0	not used	G5
	C....84	. . 0	not used	G5
	C....85	. . 0	not used	G5
	C....86	59.06.0104	100 nF PE	C4
	C....87	59.06.0104	100 nF PE	C4
	C....88	. . 0	not used	M5
	C....89	. . 0	not used	A7
	C....90	. . 0	not used	A7
	C....91	. . 0	not used	A7
	C....93	. . 0	NOT USED	
	C....94	59.06.0104	100 nF PE	I0
	C....95	59.06.0104	100 nF PE	I0
	C....97	59.22.3101	100 uF -20% 10V EL	I0
	C....98	59.22.3101	100 uF -20% 10V EL	I0
	C....99	59.34.4101	100 pF CE	I1
	C...100	59.34.4101	100 pF CE	I1
	C...101	59.22.3101	100 uF -20% 10V EL	I1
	C...102	59.22.6220	22 uF -20% 16V EL	G3
	C...103	59.34.4101	100 pF CE	G3
	C...104	59.22.3101	100 uF -20% 10V EL	G2
	C...105	59.34.4101	100 pF CE	G3
	C...106	59.22.3101	100 uF -20% 10V EL	G2
	C...107	59.26.1220	22 uF -20% 10V SAL	F4
	C...108	59.26.5109	1 uF -20% 10V SAL	E4
	C...109	59.34.2330	33 pF CE	D4
	C...110	59.22.3101	100 uF -20% 10V EL	D4
	C...111	59.22.3471	470 uF -20% 6V EL	D4
	C...112	59.22.3101	100 uF -20% 10V EL	D4
	C...113	59.22.3101	100 uF -20% 10V EL	D4
	C...114	59.34.4101	100 pF CE (LS)	E4
	C...116	59.34.4101	100 pF CE	C3
	C...118	59.22.3101	100 uF -20% 10V EL	B4
	C...119	59.22.6220	22 uF -20% 10V EL	C3
	C...120	59.22.3101	100 uF -20% 10V EL	C3
	C...121	59.34.4101	100 pF CE	B3
	C...122	59.22.3101	100 uF -20% 10V EL	B3
	C...123	59.22.6220	22 uF -20% 10V EL	B4
	C...124	59.22.3101	100 uF -20% 10V EL	B3
	C...125	59.22.6220	22 uF -20% 10V EL	E5
	C...126	59.34.4101	100 pF CE	D5
	C...127	59.22.3101	100 uF -20% 10V EL	E5
	C...128	59.22.6220	22 uF -20% 10V EL	D6
	C...129	59.34.4101	100 pF CE	D6
	C...130	59.22.3101	100 uF -20% 10V EL	D6
	C...131	59.06.0104	100 nF PE	D6
	C...132	59.06.0104	100 nF PE	D5
	C...133	59.22.6220	22 uF -20% 10V EL	D6
	C...134	59.34.4101	100 pF CE	D6
	C...135	59.22.3101	100 uF -20% 10V EL	D6
	C...136	59.22.6220	22 uF -20% 10V EL	E5
	C...137	59.34.4101	100 pF CE	E5
	C...138	59.22.3101	100 uF -20% 10V EL	E5
	C...139	59.22.6220	22 uF -20% 10V EL	C6
	C...140	59.34.4101	100 pF CE	C6
	C...141	59.22.3101	100 uF -20% 10V EL	C6
	C...142	59.22.6220	22 uF -20% 10V EL	D6
	C...143	59.34.4101	100 pF CE	D6
	C...144	59.22.3101	100 uF -20% 10V EL	D6
	C...145	59.34.4101	100 pF CE (LS)	N5
	C...146	59.34.2330	33 pF CE (LS)	N5
	C...147	59.22.3101	100 uF -20% 10V EL	H1
	C...148	59.34.4101	100 pF CE	H1
	C...149	59.22.3101	100 uF -20% 10V EL	N7
	C...150	59.22.3101	100 uF -20% 10V EL	N6
	C...151	59.22.3101	100 uF -20% 10V EL	N6
	C...152	59.22.3101	100 uF -20% 10V EL	L1
	C...153	59.22.3101	100 uF -20% 10V EL	M1
	C...154	59.34.7151	150 pF 2% CE	L1
	C...155	59.34.4101	100 pF 2% CE	M1
	C...156	59.34.7220	22 pF 2% CE	L2
	C...157	59.22.2221	220 uF -20% 6V EL	L0
	C...158	59.22.2221	220 uF -20% 6V EL	M0
	C...159	. . 0	not used	G1
	C...160	. . 0	not used	G1
	C...161	. . 0	not used	G1
	C...301	. . 0	not used	N1
	C...302	. . 0	not used	N1
	C...303	. . 0	not used	N1
	C...304	. . 0	not used	N1
	C...305	. . 0	not used	N1
	C...306	. . 0	not used	N1
	C...307	. . 0	not used	N1
	C...308	. . 0	not used	N1
	C...309	. . 0	not used	M0
	C...310	. . 0	not used	M0
	C...311	. . 0	not used	N0
	C...312	. . 0	not used	N1
	C...313	. . 0	not used	N1
	C...314	. . 0	not used	N0
	C...315	. . 0	not used	N1

COMMON GROUP UNIT

1.990.250.70

Ad	..POS..	...REF.No...	DESCRIPTION					MANUFACTURER
	C...316	. . 0	not used					M1
	C...317	. . 0	not used					M0
	C...318	. . 0	not used					K6
	C...319	. . 0	not used					I6
	C...320	. . 0	not used					K6
	C...321	. . 0	not used					K7
	C...322	. . 0	not used					K6
	C...323	. . 0	not used					K6
	C...324	. . 0	not used					K6
	C...325	. . 0	not used					K7
	C...326	. . 0	not used					K6
	C...327	. . 0	not used					K5
	C...328	. . 0	not used					K4
	C...329	. . 0	not used					K5
	C...331	59.22.3101	100 uF	-20%	10V	EL		M3
	C...332	59.34.7220	22 pF	2%		CE		L3
	C...333	59.22.2221	220 uF	-20%	6V	EL		N5
	C...334	59.22.2221	220 uF	-20%	6V	EL		N4
	C...335	. . . 0	not used					N4
01	C...335	59.22.3101	100 uF	-20%	10V	EL		N5
	C...336	59.34.4101	100 pF	2%		CE		N5
	C...337	59.06.0102	1.0 nF			PE		N4
	C...338	59.34.4101	100 pF			CE		M4
	C...339	59.34.7151	150 pF	2%		CE		M4
	C...340	59.22.3101	100 uF	-20%	10V	EL		M5
	C...351	. . 0	not used					H6
	C...352	. . 0	not used					H6
	C...353	. . 0	not used					I5
	C...354	. . 0	not used					H5
	C...355	. . 0	not used					H6
	C...356	59.22.3470	47 uF	-20%	10V	EL		I4
	C...357	59.22.3470	47 uF	-20%	10V	EL		I4
	C...358	59.22.3101	100 uF	-20%	10V	EL		K4
	C...359	59.22.3101	100 uF	-20%	10V	EL		K3
	C...360	59.22.3101	100 uF	-20%	10V	EL		K3
	C...361	59.34.7151	150 pF	2%		CE		K3
	C...362	59.34.4101	100 pF	2%		CE		I3
	C...363	59.22.2221	220 uF	-20%	6V	EL		K2
	C...364	59.22.2221	220 uF	-20%	6V	EL		K2
	C...365	59.22.3101	100 uF	-20%	10V	EL		F3
	C...366	59.22.3101	100 uF	-20%	10V	EL		H6
	C...374	59.34.7220	22 pF	2%		CE		I3
	C...375	59.34.4101	100 pF	2%		CE		K4
	C...376	59.34.2330	33 pF	2%		CE		F3
	C...377	. . . 0	NOT USED					
	C...393	. . . 0	NOT USED					
	C...397	59.22.3101	100 uF	-20%	10V	EL		H0
	C...398	59.22.3101	100 uF	-20%	10V	EL		I0
	C...399	59.34.4101	100 pF			CE		I1
	C...400	59.34.4101	100 pF			CE		I1
	C...401	59.22.3101	100 uF	-20%	10V	EL		I1
	C...402	59.22.6220	22 uF	-20%	16V	EL		H3
	C...403	59.34.4101	100 pF			CE		H3
	C...404	59.22.3101	100 uF	-20%	10V	EL		H2
	C...405	59.34.4101	100 pF			CE		H3
	C...406	59.22.3101	100 uF	-20%	10V	EL		H2
	C...407	59.26.1220	22 uF	-20%	10V	SAL		F3
	C...408	59.26.5109	1 uF	-20%	10V	SAL		F3
	C...409	59.34.2330	33 pF			CE		D3
	C...410	59.22.3101	100 uF	-20%	10V	EL		D3
	C...411	59.22.3471	470 uF	-20%	6V	EL		D3
	C...412	59.22.3101	100 uF	-20%	10V	EL		C4
	C...413	59.22.3101	100 uF	-20%	10V	EL		C4
	C...414	59.34.4101	100 pF			CE	(LS)	E3
	C...416	59.34.4101	100 pF			CE		B3
	C...419	59.22.6220	22 uF	-20%	10V	EL		B3
	C...420	59.22.3101	100 uF	-20%	10V	EL		B3
	C...421	59.34.4101	100 pF			CE		B3
	C...422	59.22.3101	100 uF	-20%	10V	EL		B3
	C...439	59.22.6220	22 uF	-20%	10V	EL		C6
	C...440	59.34.4101	100 pF			CE		B6
	C...441	59.22.3101	100 uF	-20%	10V	EL		C6
	C...442	59.22.6220	22 uF	-20%	10V	EL		C6
	C...443	59.34.4101	100 pF			CE		C6
	C...444	59.22.3101	100 uF	-20%	10V	EL		C6
	C...445	59.34.4101	100 pF			CE	(LS)	N5
	C...446	59.34.2330	33 pF			CE	(LS)	N5
	C...447	59.22.3101	100 uF	-20%	10V	EL		H1
	C...448	59.34.4101	100 pF			CE		H1
	C...449	59.22.3101	100 uF	-20%	10V	EL		N6
	C...450	59.22.3101	100 uF	-20%	10V	EL		N6
	C...451	59.22.3101	100 uF	-20%	10V	EL		N6
	C...452	59.22.3101	100 uF	-20%	10V	EL		K1
	C...453	59.22.3101	100 uF	-20%	10V	EL		K1
	C...454	59.34.7151	150 pF	2%		CE		K1
	C...455	59.34.4101	100 pF	2%		CE		L1
	C...456	59.34.7220	22 pF	2%		CE		L2
	C...457	59.22.2221	220 uF	-20%	6V	EL		K0
	C...458	59.22.2221	220 uF	-20%	6V	EL		K0
	C...459	. . . 0	not used					G0
	C...460	. . 0	not used					G0
	C...461	. . 0	not used					G0
	C...601	. . . 0	not used					L4
	C...602	59.06.5103	10 nF			PE		A1
	C...603	. . 0	not used					G9
	C...604	59.22.4101	100 uF	-20%	16V	EL		B0
	C...605	59.22.4101	100 uF	-20%	16V	EL		B0
	C...606	59.22.4101	100 uF	-20%	16V	EL		B0
	C...607	59.06.0104	100 nF			PE		B0
	C...608	59.06.0104	100 nF			PE		B0
	C...609	59.06.0104	100 nF			PE		B0
	C...610	. . 0	not used					C0
	C...611	59.34.7151	150 pF			CE		B1
	C...612	59.22.4471	470 uF	-20%	16V	EL		A1
	C...613	59.22.4101	100 uF	-20%	16V	EL		A1
	C...614	59.34.5471	470 pF			CE		C1
	C...615	59.34.2330	33 pF	2%		CE		C1
	C...616	59.34.5471	470 pF			CE		B2
	C...617	59.34.5471	470 pF			CE		B2
	C...618	59.06.5103	10 nF			PE		C0
01	C...619	59.06.0103	10 nF			PE	(LS)	B2
	C...620	59.22.3101	100 uF	-20%	10V	EL		G1
	C...621	59.34.2470	47 pF	2%		CE		G1
	C...622	59.34.2470	47 pF	2%		CE		G1
	C...801	59.06.5103	10 nF			PE		A8
	C...803	. . 0	not used					A7
	C...804	59.34.7151	150 pF	2%		CE		A9
	C...805	59.06.0104	100 nF			PE		A8
	C...806	59.06.0104	100 nF			PE		A8
	C...807	. . 0	not used					L7
	C...808	. . 0	not used					L7
	C...809	. . 0	not used					L8
	C...810	. . 0	not used					L7
	C...811	. . 0	not used					L7
	C...812	. . 0	not used					L7
	C...813	. . 0	not used					L7
	C...814	. . 0	not used					L7
	C...815	. . 0	not used					L8
	C...816	. . 0	not used					L8
	C...817	. . 0	not used					L8
	C...818	. . 0	not used					L8
	C...819	. . 0	not used					L8
	C...820	. . 0	not used					L7
	C...821	. . 0	not used					L7
	C...822	. . 0	not used					L8
	C...823	59.34.4101	100 pF	2%		CE		M8
	C...824	. . 0	not used					M8
	C...825	. . 0	not used					M8
	C...826	. . 0	not used					L8
01	C...827	59.06.0103	10 nF			PE	(LS)	F7
	C...831	. . 0	not used					M8
	C...832	. . 0	not used					M7
	C...833	. . 0	not used					M7
	C...834	. . 0	not used					M7
	C...839	. . 0	not used					N8
	C...840	. . 0	not used					N8
	C...841	. . 0	not used					N7
	C...842	. . 0	not used					N9
	C...843	. . 0	not used					M8
	C...844	. . 0	not used					N9
	C...846	. . 0	not used					M9
	C...847	. . 0	not used					N8
	C...848	. . 0	not used					F9
	C...849	59.34.4271	270 pF			CE		G9
	C...850	. . 0	not used					G7
	C...851	59.34.4101	100 pF	2%		CE		G7
	C...852	59.99.1101	100 pF	2%		CE		G8
	C...853	59.34.4101	100 pF	2%		CE		E6
	C...854	59.99.1101	100 pF	2%		CE		H7
	C...855	. . 0	not used					H7
	C...856	. . 0	not used					H7
	C...857	. . 0	not used					H7
	C...858	59.34.4101	100 pF	2%		CE		H8
	C...859	59.34.4101	100 pF	2%		CE		H7
	C...860	59.99.1101	100 pF	2%		CE		G9
	C...861	. . 0	not used					E6
	C...862	59.34.4101	100 pF	2%		CE		H8
	C...863	59.34.4101	100 pF	2%		CE		H8
	C...864	. . 0	not used					H8
	C...865	. . 0	not used					H8
	C...866	59.99.1101	100 pF	2%		CE		H8
	C...867	59.34.4101	100 pF	2%		CE		H7
	C...868	59.99.1101	100 pF	2%		CE		H8
	C...869	. . 0	not used					H7
	C...870	59.99.1101	100 pF	2%		CE		H8
	C...871	. . 0	not used					H8
	C...872	. . 0	not used					H8
	C...873	. . 0	not used					H8
	C...874	59.34.4101	100 pF	2%		CE		H7
	C...875	59.34.4101	100 pF	2%		CE		H7
	C...876	59.99.1101	100 pF	2%		CE		H7
	C...877	59.99.1101	100 pF	2%		CE		H7
	C...878	. . 0	not used					I8
	C...879	. . 0	not used					I8
	C...880	. . 0	not used					I7
	C...881	. . 0	not used					H7
	C...882	59.34.4101	100 pF	2%		CE		I7
	C...883	59.99.1101	100 pF	2%		CE		I7
	C...884	. . 0	not used					I7
	C...885	59.34.4101	100 pF	2%		CE		I7
	C...886	. . 0	not used					I7

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	C...887	59.99.1101	100 pF	2%	CE	I7
	C...888	59.34.4101	100 pF	2%	CE	I7
	C...889	59.34.4101	100 pF	2%	CE	I7
	C...890	59.34.4101	100 pF	2%	CE	K8
	C...891	. . 0	not used			I9
	C...892	59.34.4101	100 pF	2%	CE	I9
	C...893	. . 0	not used			I8
	C...894	59.34.4101	100 pF	2%	CE	K8
	C...895	59.34.4101	100 pF	2%	CE	K8
	C...896	59.34.4101	100 pF	2%	CE	K8
	C...897	59.34.4101	100 pF	2%	CE	K8
	C...898	. . 0	not used			K8
	C...899	. . 0	not used			L8
	C...900	. . 0	not used			K7
	C...901	. . 0	not used			K8
	C...902	. . 0	not used			K8
	C...903	. . 0	not used			K8
	C...904	. . 0	not used			K8
	C...905	. . 0	not used			L8
	C...906	59.34.4101	100 pF	2%	CE	K7
	C...907	59.34.4101	100 pF	2%	CE	K7
	C...908	. . 0	not used			I7
	C...909	59.34.4101	100 pF	2%	CE	K7
	C...910	. . 0	not used			L8
	C...911	. . 0	not used			L8
	C...912	. . 0	not used			L7
	C...913	. . 0	not used			L7
	C...914	. . 0	not used			K9
	C...915	. . 0	not used	(TCL)		A7
	C...916	. . 0	not used	(TXD)		C8
	C...917	59.34.4101	100 pF	2%	CE	B7
	C...918	59.34.4101	100 pF	2%	CE	B7
	C...919	59.34.4101	100 pF	2%	CE	B7
	C...920	59.34.4101	100 pF	2%	CE	A7
	C...921	59.34.4101	100 pF	2%	CE	B7
	C...922	59.34.4101	100 pF	2%	CE	C7
	C...923	59.34.4101	100 pF	2%	CE	B7
	C...924	59.34.4101	100 pF	2%	CE	B7
	C...925	59.34.4101	100 pF	2%	CE	D7
	C...926	59.34.4101	100 pF	2%	CE	D7
	C...927	59.34.4101	100 pF	2%	CE	D7
	C...928	59.34.4101	100 pF	2%	CE	D7
	C...929	59.34.4101	100 pF	2%	CE	C7
	C...930	59.34.4101	100 pF	2%	CE	C7
	C...931	59.34.4101	100 pF	2%	CE	C7
	C...932	59.34.4101	100 pF	2%	CE	D5
	C...933	59.34.4101	100 pF	2%	CE	E8
	C...934	59.34.4101	100 pF	2%	CE	D7
	C...935	59.34.4101	100 pF	2%	CE	C7
	C...936	59.34.4101	100 pF	2%	CE	C7
	C...937	59.34.4101	100 pF	2%	CE	E8
	C...938	59.34.4101	100 pF	2%	CE	E8
	C...939	59.99.1101	100 pF	2%	CE	E8
	C...940	59.99.1101	100 pF	2%	CE	E8
	C...941	59.34.4101	100 pF	2%	CE	F8
	C...942	59.34.4101	100 pF	2%	CE	E5
	C...943	. . 0	not used			E5
	C...944	59.99.1101	100 pF	2%	CE	F8
	C...945	59.34.4101	100 pF	2%	CE	F8
	C...946	59.34.4101	100 pF	2%	CE	F8
	C...947	59.34.4101	100 pF	2%	CE	F8
	C...948	59.34.4101	100 pF	2%	CE	F8
	C...949	. . 0	not used			E5
	C...950	59.34.4101	100 pF	2%	CE	D5
	C...951	59.34.4101	100 pF	2%	CE	C7
	C...952	59.34.4101	100 pF	2%	CE	D7
	C...953	59.34.4101	100 pF	2%	CE	E6
	C...954	59.34.4101	100 pF	2%	CE	E6
	C...955	59.34.4101	100 pF	2%	CE	E6
	C...956	59.34.4101	100 pF	2%	CE	E6
	C...957	. . 0	not used			F8
	C...958	. . 0	not used			G8
	D.....3	. . 0	not used			M4
	D.....4	. . 0	not used			L6
	D.....5	. . 0	not used			L6
	D.....6	. . 0	not used			L7
	D.....7	. . 0	not used			L6
	D.....8	50.04.0125	1N4448			any F5
	D.....9	50.04.0125	1N4448			any F5
	D....10	50.04.0125	1N4448			any H2
	D....11	50.04.0125	1N4448			any F5
	D....12	50.04.0125	1N4448			any E4
	D....13	50.04.0125	1N4448			any D3
	D....14	50.04.0125	1N4448			any H2
	D....15	50.04.0125	1N4448			any H2
	D...303	. . 0	not used			I4
	D...304	. . 0	not used			K6
	D...305	. . 0	not used			K6
	D...306	. . 0	not used			K7
	D...307	. . 0	not used			L6
	D...308	50.04.0125	1N4448			any F5
	D...309	50.04.0125	1N4448			any F5
	D...310	50.04.0125	1N4448			any H2
	D...311	50.04.0125	1N4448			any F5
	D...312	50.04.0125	1N4448			any E3
	D...313	50.04.0125	1N4448			any D3

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	D...314	50.04.0125	1N4448			any L2
	D...315	50.04.0125	1N4448			any L2
	D...601	. . 0	not used			N7
	D...602	. . 0	not used			N9
	D...603	50.04.0125	1N4448			any A5
	D...604	50.04.0125	1N4448			any A5
	D...605	50.04.0122	1N4001		1A / 50V	any B0
	D...606	50.04.0122	1N4001		1A / 50V	any B0
	D...607	50.04.0125	1N4448			any B1
	D...608	50.04.0125	1N4448			any B1
	D...609	50.04.0125	1N4448			any B1
	D...610	50.04.0125	1N4448			any B1
	D...611	50.04.0125	1N4448			any B1
	D...613	50.04.0125	1N4448			any B1
	D...614	50.04.0125	1N4448			any B1
	D...615	50.04.0125	1N4448			any B1
	D...616	50.04.0122	1N4001		1A / 50V	any C0
	D...617	50.04.0122	1N4001		1A / 50V	any C0
	D...801	50.04.0125	1N4448			any A8
	D...802	50.04.0127	BAT 85		schottky	any A9
	D...803	50.04.0127	BAT 85		schottky	any A9
	D...804	50.04.0125	1N4448			any A4
	D...805	50.04.0125	1N4448			any A5
	D...806	50.04.0125	1N4448			any A4
	D...807	50.04.0125	1N4448			any A5
	D...808	50.04.0125	1N4448			any A4
	D...809	50.04.0125	1N4448			any A4
	D...810	50.04.0125	1N4448			any A5
	D...811	50.04.0125	1N4448			any A5
	D...812	50.04.0125	1N4448			any A5
	D...813	50.04.0125	1N4448			any A4
	D...814	50.04.0125	1N4448			any A4
	D...815	50.04.0125	1N4448			any A3
	D...816	50.04.0125	1N4448			any A4
	D...817	50.04.0125	1N4448			any A4
	D...818	50.04.0125	1N4448			any A5
	D...819	50.04.0125	1N4448			any D7
	D...820	50.04.0125	1N4448			any A4
	D...821	50.04.0125	1N4448			any A4
	D...822	50.04.0125	1N4448			any A4
	D...823	50.04.0125	1N4448			any A4
	D...824	. . 0	not used	(TCL)		A7
	D...825	. . 0	not used	(TXD)		C8
	D...826	. . 0	not used	(DOO)		G9
	D...827	50.04.0127	BAT 85		schottky	any A7
	D...828	50.04.0127	BAT 85		schottky	any A8
	D...829	50.04.0125	1N4448			any A7
	D...830	50.04.0125	1N4448			any A8
	D...831	. . 0	not used			K7
	D...832	. . 0	not used			N9
	D...833	. . 0	not used			N8
	D...834	. . 0	not used			N8
	D...835	. . 0	not used			M7
	D...836	. . 0	not used			M7
	D...837	. . 0	not used			M7
	D...838	. . 0	not used			K7
	D...839	. . 0	not used			K7
	D...840	. . 0	not used			K7
	D...841	. . 0	not used			L4
	D...842	. . 0	not used			L4
	IC....1	. . 0	not used			N7
	IC....2	. . 0	not used			L5
	IC....3	. . 0	not used			L6
	IC....4	. . 0	not used			L6
	IC....5	. . 0	not used			K6
	IC....6	. . 0	not used			L5
	IC....7	. . 0	not used			K5
	IC....8	. . 0	not used			K5
	IC....9	. . 0	not used			K5
	IC...10	50.09.0117	MC33078P	dual	op. amp. low noise	Mot L2
	IC...11	50.09.0117	MC33078P	dual	op. amp. low noise	Mot M4
	IC...12	. . 0	not used			I5
	IC...13	. . 0	NOT USED			I4
	IC...14	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		H4
	IC...15	. . 0	NOT USED			G4
	IC...16	. . 0	NOT USED			F4
	IC...17	50.09.0117	MC33078P	dual	op. amp. low noise	Mot H2
	IC...18	50.09.0101	TL072	dual	op. amp. FET	TI I3
	IC...19	. . 0	NOT USED			F3
	IC...20	50.09.0117	MC33078P	dual	op. amp. low noise	Mot I1
	IC...23	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		L2
	IC...25	. . 0	NOT USED			H4
	IC...26	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		H4
	IC...27	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		G4
	IC...28	50.09.0106	NE5532AN	dual	op. amp. low noise Sig,Ra	G3
	IC...29	50.09.0117	MC33078P	dual	op. amp. low noise	Mot E4
	IC...34	. . 0	NOT USED			B4
	IC...35	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		C4
	IC...36	50.09.0106	NE5532AN	dual	op. amp. low noise Sig,Ra	C3
	IC...37	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		F1
	IC...38	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		F0
	IC...39	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		F1
	IC...40	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		F0
	IC...41	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		E1
	IC...42	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA		E0

COMMON GROUP UNIT

1.990.250.70

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER	
	IC...43	. . 0	not used		E1
	IC...44	. . 0	not used		E0
	IC...45	. . 0	not used		E0
	IC...46	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	D5
	IC...47	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	D5
	IC...48	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	C5
	IC...49	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	C5
	IC...50	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	C5
	IC...51	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	B5
	IC...52	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	B5
	IC...53	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	B5
	IC...54	50.09.0117	MC33078P dual op. amp. low noise	Mot	C4
	IC...57	50.09.0117	MC33078P dual op. amp. low noise	Mot	E5
	IC...58	50.09.0117	MC33078P dual op. amp. low noise	Mot	D6
	IC...59	50.09.0117	MC33078P dual op. amp. low noise	Mot	C6
	IC...60	50.09.0117	MC33078P dual op. amp. low noise	Mot	C6
	IC...61	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	E1
	IC...62	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	D0
	IC...63	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	D1
	IC...64	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	D0
	IC...65	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	D1
	IC...66	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	C1
	IC...67	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	N6
	IC...68	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	N6
	IC...69	. . 0	NOT USED		M6
	IC...70	50.09.0117	MC33078P dual op. amp. low noise	Mot	N5
	IC...71	50.09.0101	TL 072 dual op. amp. FET	TI	L2
	IC...72	50.09.0106	NE5532AN dual op. amp. low noise	Sig,Ra	L1
	IC...73	. . 0	not used		L1
	IC...74	. . 0	not used		L1
	IC...75	. . 0	NOT USED (option 1)		H1
	IC...76	. . 0	not used		G0
	IC..301	. . 0	not used		M1
	IC..302	. . 0	not used		K5
	IC..303	. . 0	not used		K6
	IC..304	. . 0	not used		K6
	IC..311	. . 0	NOT USED		M5
	IC..312	. . 0	not used		H5
	IC..317	. . 0	NOT USED		K3
	IC..318	. . 0	NOT USED		K3
	IC..328	. . 0	NOT USED		H3
	IC..329	. . 0	NOT USED		E3
	IC..335	50.07.0015	CD4053 3 * 2 channel analog mux/demux	Ph,Mot,RCA	B4
	IC..336	50.09.0106	NE5532AN dual op. amp. low noise	Sig,Ra	B3
	IC..370	. . 0	NOT USED		N5
	IC..372	. . 0	NOT USED		K1
	IC..373	. . 0	not used		K1
	IC..374	. . 0	not used		K1
	IC..601	50.09.0119	TL 062 dual fet op. amp.	Tho	A2
	IC..602	50.09.0117	MC33078P dual op. amp. low noise	Mot	C1
	IC..603	50.05.0244	NE5534NB single op. amp. low noise	Sig,Ra	C1
	IC..604	1.010.051.50	NE5532AN dual op. amp. low offset +/- 1mV	St	B2
	IC..605	50.09.0117	MC33078P dual op. amp. low noise	Mot	G2
	IC..801	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA	A9
	IC..802	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA	B9
	IC..803	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA	C9
	IC..804	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA	C9
	IC..805	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA	D9
	IC..806	50.07.1021	CD4021 8-bit static shift register	Ph,Mot,RCA	D9
	IC..807	50.07.0049	4049 hex inverting buffer CMOS	Ph,To	B9
	IC..808	50.07.0049	4049 hex inverting buffer CMOS	Ph,To	B8
	IC..809	50.07.0049	4049 hex inverting buffer CMOS	Ph,To	B9
	IC..810	50.07.0049	4049 hex inverting buffer CMOS	Ph,To	B8
	IC..811	50.07.0049	4049 hex inverting buffer CMOS	Ph,To	C9
	IC..812	50.07.0049	4049 hex inverting buffer CMOS	Ph,To	C8
	IC..813	. . 0	NOT USED		D8
	IC..814	. . 0	NOT USED		E9
	IC..815	. . 0	not used		I9
	IC..816	. . 0	not used		I9
	IC..817	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	I8
	IC..818	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	E8
	IC..819	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	D8
	IC..820	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	C8
	IC..821	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	C8
	IC..822	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	B8
	IC..823	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	A8
	IC..824	50.09.0119	TL062 dual fet op. amp.	Tho	A8
	IC..826	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	L8
	IC..827	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	L9
	IC..828	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	M9
	IC..829	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	M8
	IC..830	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	M8
	IC..831	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	M9
	IC..832	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	M9
	IC..833	. . 0	not used		M8
	IC..834	50.07.0051	CD4051 8-channel analog mux/demux	Ph,Mot,RCA	F8
	IC..835	. . 0	NOT USED		G8
	IC..836	. . 0	NOT USED		G9
	IC..837	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	F9
	IC..838	50.09.0103	TL 071 fet op. amp.	TI	A9
	IC..840	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	H8
	IC..841	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	H9
	IC..842	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	H9
	IC..843	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	H8

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER	
	IC..844	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	K8
	IC..845	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	K9
	IC..846	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	K9
	IC..847	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	K8
	IC..848	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	N8
	IC..849	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	E8
	IC..850	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	E9
	IC..851	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	F9
	IC..852	50.07.0018	CD4094 shift and store bus register	Ph,Mot,RCA	F8
	JS....0	. .	see also MP 4		
	JSJ...1	. . 0	not used	2 pin not used	M3
	JSJ...2	. . 0	not used	3 pin not used	M3
	JSJ...3	. . 0	not used	2 pin not used	M2
	JSJ...4	. . 0	not used	3 pin not used	M3
	JSJ...5	54.01.0021	Jumper AF L Inv. => DIR OUT L	2 pin used	C3
	JSJ...6	. . 0	not used AUX L Inv. "	2 pin used	C3
	JSJ...7	. . 0	not used PF L Inv. "	2 pin used	H2
	JSJ...8	. . 0	not used AF Pan L Inv. "	1 pin used	H2
	JSJ...9	. . 0	not used AF Pan L Inv. "	2 pin used	H2
	JSJ..10	. . 0	not used PF L Inv. "	1 pin used	H2
	JSJ..11	54.01.0021	Jumper AF R inv. => DIR OUT R	2 pin used	C3
	JSJ..12	. . 0	not used AUX R Inv. "	2 pin used	C3
	JSJ..13	. . 0	not used PF R Inv. "	2 pin used	G2
	JSJ..14	. . 0	not used AF Pan R Inv. "	1 pin used	G2
	JSJ..15	. . 0	not used AF Pan R Inv. "	2 pin used	G2
	JSJ..16	. . 0	not used PF R Inv. "	1 pin used	G2
	L.....1	62.02.3101	100 uH hf-choke-coil		B2
	MP....1	53.03.0166	32 pcs IC-socket 8 pin		
	MP....2	53.03.0168	31 pcs IC-socket 16 pin		
	MP....3	. . 0	not used		
	MP....4	54.01.0020	20 pcs Jumper plug see also JSJ		
	MP....5	54.11.0131	55 pcs dual pin (totaly 110 pins)		
	MP....6	28.99.0119	6 pcs Rohrniete, D2.5*0.15*9		
	MP....7	1.990.100.02	2 pcs Querprintstuetze links		St
	MP....8	1.990.100.03	2 pcs Querprintstuetze rechts		St
	MP....9	. . 0	not used		
	MP...10	1.010.048.27	3 pcs Mutterbolzen M 3 *32.5		St
	MP...11	1.990.230.11	1 pcs Input Stereo PCB		St
	MP...12	21.01.0354	3 pcs Z-Schraube , ZN , M 3 * 6		
	MP...13	21.99.0117	7 pcs Z-Schraube Nylon , M 3 * 6		
	MP...14	24.16.1030	3 pcs Rippenscheibe D 3.2/5.5		
	MP...15	1.990.210.06	1 pcs Abschirmung A/D Input links		St
	MP...16	1.990.210.07	1 pcs Abschirmung A/D Input rechts		St
	MP...17	. . 0	NOT USED		
	MP...18	. . 0	NOT USED		
	MP...19	. . 0	NOT USED		
	MP...20	43.01.0108	1 pcs ESE-Warnschild		St
	MP...21	1.990.200.05	4 pcs Poti-Achsverlaengerung		St
	MP...22	1.022.400.03	1 pcs Trafo-Isolation		
	MP...23	1.010.111.65	1 pcs Schrumpfschlauch		
	MP...24	1.010.109.64	1 pcs gelber Draht l = 38mm		
	MP...25	1.010.107.64	5 pcs gelber Draht l = 18mm		
01	MP...25	1.010.107.64	4 pcs gelber Draht l = 18mm		
	MP...26	. . 0	NOT USED		
	MP...27	. . 0	NOT USED		
	MP...28	. . 0	NOT USED		
	MP...29	. . 0	NOT USED		
	MP...30	. . 0	NOT USED		
	MP...31	. . 0	NOT USED		
	MP...32	. . 0	NOT USED		
	MP...33	. . 0	NOT USED		
	MP...34	. . 0	NOT USED		
	MP...35	. . 0	NOT USED		
	MP...36	. . 0	NOT USED		
	MP...37	. . 0	NOT USED		
	MP...38	. . 0	NOT USED		
	MP...39	. . 0	NOT USED		
	MP...40	. . 0	NOT USED		
	MP...41	. . 0	NOT USED		
	MP...42	. . 0	NOT USED		
	MP...43	. . 0	NOT USED		
	MP...44	. . 0	NOT USED		
	MP...45	. . 0	NOT USED		
	MP...46	. . 0	NOT USED		
	P.....6	54.11.2013	2*16pin euroconnector	Ht,Ec	B0
	P.....7	54.11.2004	2*32pin euroconnector	Ht,Ec	E0
	P.....9	54.11.2004	2*32pin euroconnector	Ht,Ec	M0
	P....10	54.01.0294	16 pin CIS		E5
	P....11	54.01.0226	20 pin CIS		G6
	P....12	54.01.0293	14 pin CIS		H5
	P....13	54.16.0520	20pol 1/40 inch flatcable connector (to A 3)	Ya	K7
	P....14	. . 0	not used see A 3		H5
	P....15	. . 0	not used see A 5		F5
	P....16	54.16.0520	20pol 1/40 inch flatcable connector (to A 5)	Ya	E2
	P....17	. . 0	not used see A 4		E6
	P....18	54.16.0520	20pol 1/40 inch flatcable connector (to A 4)	Ya	E2
	P....19	54.16.0520	20pol 1/40 inch flatcable connector (to A 6)	Ya	M5
	P....20	. . 0	not used see A 6		H1
	P....21	. . 0	NOT USED		
	P....22	. . 0	NOT USED		
	Q.....1	50.03.0351	BC 327 PNP IC>800mA	NS,Mot,Six	N4
	Q.....2	50.03.0516	BC 337 NPN low noise	Sie	N3
	Q.....3	. . 0	not used		G0

COMMON GROUP UNIT

1.990.250.70

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	Q...301	50.03.0351	BC 327 PNP IC>800mA NS,Mot,Six	N4
	Q...302	50.03.0516	BC 337 NPN low noise Sie	N4
	Q...303	. . 0	not used	G1
	Q...601	. . 0	not used	N8
	Q...602	. . 0	not used	N8
	Q...604	50.03.0340	BC 337 NPN IC>800mA NS,Mot,Six	A0
	Q...605	50.03.0351	BC 327 PNP IC>800mA NS,Mot,Six	A0
	Q...606	50.03.0351	BC 327 PNP IC>800mA NS,Mot,Six	A0
	Q...607	50.03.0340	BC 337 NPN IC>800mA NS,Mot,Six	A1
	Q...608	50.03.0351	BC 327 PNP IC>800mA NS,Mot,Six	A1
	Q...801	50.03.0436	BC 237 NPN IC>100mA, B>100 any	A9
	Q...802	50.03.0436	BC 237 NPN IC>100mA, B>100 any	A8
	Q...803	50.03.0436	BC 237 NPN IC>100mA, B>100 any	A7
	Q...805	. . 0	not used	N8
	Q...806	. . 0	not used	N8
	Q...807	. . 0	not used	N8
	Q...808	. . 0	not used	N8
	Q...809	. . 0	not used	N8
	Q...810	. . 0	not used	N8
	Q...811	. . 0	not used	N8
	Q...812	. . 0	not used	M6
	Q...813	50.03.0515	BC 307 PNP IC>100mA, B>100 any	G6
	Q...814	50.03.0515	BC 307 PNP IC>100mA, B>100 any	G6
	Q...815	50.03.0515	BC 307 PNP IC>100mA, B>100 any	G5
	Q...816	. . 0	not used	H6
	Q...817	. . 0	not used	N8
	R.....1	. . 0	not used	N3
	R.....2	. . 0	not used	N3
	R.....3	. . 0	not used	N3
	R.....4	. . 0	not used	N3
	R.....5	. . 0	not used	N3
	R.....6	. . 0	not used	N3
	R.....7	. . 0	not used	M2
	R.....8	. . 0	not used	N3
	R.....9	. . 0	not used	N3
	R....10	. . 0	not used	M3
	R....11	. . 0	not used	N2
	R....12	. . 0	not used	N2
	R....13	. . 0	not used	N2
	R....14	. . 0	not used	N2
	R....15	. . 0	not used	N2
	R....16	. . 0	not used	N2
	R....17	. . 0	not used	N2
	R....18	. . 0	not used	M2
	R....21	. . 0	not used	L5
	R....22	. . 0	not used	L5
	R....23	. . 0	not used	L5
	R....24	. . 0	not used	L6
	R....25	. . 0	not used	L6
	R....26	. . 0	not used	L6
	R....27	. . 0	not used	L6
	R....28	. . 0	not used	L6
	R....29	. . 0	not used	L6
	R....30	. . 0	not used	L6
	R....33	. . 0	not used	L5
	R....34	. . 0	not used	L4
	R....35	. . 0	not used	L5
	R....36	. . 0	not used	L5
	R....37	. . 0	not used	L5
	R....38	57.11.3473	47 kOhm 1% 0.25W	L3
	R....39	57.11.3473	47 kOhm 1% 0.25W	L2
	R....40	57.11.3682	6.8 kOhm 1% 0.25W	L3
	R....41	57.11.3682	6.8 kOhm 1% 0.25W	L2
	R....42	57.11.5335	3.3 MOhm 5% 0.25W	L2
	R....43	57.11.3682	6.8 kOhm 1% 0.25W	L2
	R....44	57.11.3473	47 kOhm 1% 0.25W	L2
	R....45	57.11.3330	33 Ohm 5% 0.25W	L2
	R....50	57.11.3103	10 kOhm 1% 0.25W	N4
	R....51	. . 0	not used	N3
	R....52	57.11.3752	7.5 kOhm 1% 0.25W	N4
	R....53	57.11.3184	180 kOhm 1% 0.25W	N4
	R....54	57.11.3683	68 kOhm 1% 0.25W	N4
	R....55	57.11.3101	100 Ohm 1% 0.25W	N4
	R....56	57.11.3184	180 kOhm 1% 0.25W	N4
	R....57	. . 0	not used	N3
	R....58	57.11.3332	3.3 kOhm 1% 0.25W	M3
	R....59	57.11.3332	3.3 kOhm 1% 0.25W	M3
	R....60	57.11.3332	3.3 kOhm 1% 0.25W	M3
	R....61	57.11.3332	3.3 kOhm 1% 0.25W	M3
	R....62	57.11.3223	22 kOhm 5% 0.25W	M3
	R....65	. . 0	not used	I4
	R....66	. . 0	not used	I4
	R....67	. . 0	not used	I5
	R....68	. . 0	not used	I6
	R....69	. . 0	not used	I5
	R....70	. . 0	not used	I5
	R....71	. . 0	not used	I6
	R....72	. . 0	not used	I4
	R....73	. . 0	not used	I5
	R....74	. . 0	not used	I5
	R....75	. . 0	not used	I4
	R....77	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R....78	. . 0	not used	H4
	R....79	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R....80	57.11.3104	100 kOhm 5% 0.25W	H3

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R....81	58.01.8202	2 kOhm 10% 0.25W trimmer	H3
	R....82	57.11.3562	5.6 kOhm 1% 0.25W	I3
	R....83	57.99.0250	6.8 kOhm 0.1% 0.25W	H3
	R....84	57.99.0250	6.8 kOhm 0.1% 0.25W	H3
	R....85	57.11.3150	15 Ohm 1% 0.25W	I3
	R....86	57.11.3150	15 Ohm 1% 0.25W	I3
	R....90	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R....91	. . 0	not used	G4
	R....92	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R....93	57.11.3104	100 kOhm 5% 0.25W	G3
	R....94	57.11.3562	5.6 kOhm 1% 0.25W	G3
	R....95	58.01.8202	2 kOhm 10% 0.25W trimmer	F3
	R...101	57.11.3121	120 Ohm 1% 0.25W	H7
	R...102	. . 0	NOT USED	G7
	R...103	57.11.3121	120 Ohm 1% 0.25W	G7
	R...104	. . 0	NOT USED	F7
	R...105	57.11.3121	120 Ohm 1% 0.25W	F6
	R...106	. . 0	NOT USED	E7
	R...107	57.11.3121	120 Ohm 1% 0.25W	F6
	R...108	57.11.3223	22 kOhm 5% 0.25W	F6
	R...109	. . 0	NOT USED	
	R...110	. . 0	NOT USED	
	R...111	. . 0	NOT USED	
	R...112	. . 0	NOT USED	
	R...113	. . 0	NOT USED	
	R...114	. . 0	NOT USED	
	R...115	. . 0	NOT USED	
	R...116	. . 0	NOT USED	
	R...117	. . 0	NOT USED	
	R...118	. . 0	NOT USED	
	R...120	. . 0	not used	G3
	R...121	57.11.3152	1.5 kOhm 1% 0.25W	I1
	R...122	57.11.3152	1.5 kOhm 1% 0.25W	I1
	R...123	57.11.3392	3.9 kOhm 1% 0.25W	I1
	R...124	57.11.3392	3.9 kOhm 1% 0.25W	I1
	R...125	57.11.3272	2.7 kOhm 1% 0.25W	I1
	R...126	57.11.3272	2.7 kOhm 1% 0.25W	I1
	R...127	57.11.3223	22 kOhm 5% 0.25W	I1
	R...128	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...129	. . 0	not used	G4
	R...130	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...131	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...132	57.11.3752	7.5 kOhm 1% 0.25W	G3
	R...133	57.11.3823	82 kOhm 1% 0.25W	G3
	R...134	57.11.3223	22 kOhm 5% 0.25W	G3
	R...135	57.11.3332	3.3 kOhm 1% 0.25W	G3
	R...136	57.11.3332	3.3 kOhm 1% 0.25W	G3
	R...137	57.11.3330	33 Ohm 5% 0.25W	G3
	R...138	57.11.3223	22 kOhm 5% 0.25W	G3
	R...140	. . 0	not used	H7
	R...141	57.11.3332	3.3 kOhm 1% 0.25W	F4
	R...142	57.11.3223	22 kOhm 5% 0.25W	F4
	R...143	57.11.3333	33 kOhm 1% 0.25W	E4
	R...144	57.11.3103	10 kOhm 1% 0.25W	E4
	R...145	57.11.3472	4.7 kOhm 1% 0.25W	F4
	R...146	57.11.3684	680 kOhm 5% 0.25W	F4
	R...147	57.11.3823	82 kOhm 5% 0.25W (LS)	E3
	R...148	58.05.1503	50 kOhm 10% 0.25W trimmer	D4
	R...149	57.11.3332	3.3 kOhm 1% 0.25W	D4
	R...150	57.11.3330	33 Ohm 5% 0.25W	D4
	R...151	57.11.3223	22 kOhm 5% 0.25W	E4
	R...152	57.11.3332	3.3 kOhm 1% 0.25W	B4
	R...153	57.11.3332	3.3 kOhm 1% 0.25W	B4
	R...154	57.11.3223	22 kOhm 5% 0.25W	B3
	R...155	57.11.3752	7.5 kOhm 1% 0.25W	C3
	R...156	57.11.3823	82 kOhm 1% 0.25W	C3
	R...157	57.11.3682	6.8 kOhm 1% 0.25W	B3
	R...158	57.11.3682	6.8 kOhm 1% 0.25W	B3
	R...159	57.11.3223	22 kOhm 5% 0.25W	B3
	R...161	57.11.3752	7.5 kOhm 1% 0.25W	B4
	R...162	57.11.3823	82 kOhm 1% 0.25W	B3
	R...165	57.11.3682	6.8 kOhm 1% 0.25W	D4
	R...166	57.11.3682	6.8 kOhm 1% 0.25W	D4
	R...167	57.11.3223	22 kOhm 5% 0.25W	C3
	R...168	57.11.3752	7.5 kOhm 1% 0.25W	D5
	R...169	57.11.3823	82 kOhm 1% 0.25W	E5
	R...170	1.010.106.58	10 kOhm 10% pos.log.comb.with R843	St E7
	R...171	57.11.3752	7.5 kOhm 1% 0.25W	D6
	R...172	57.11.3823	82 kOhm 1% 0.25W	D6
	R...173	1.010.106.58	10 kOhm 10% pos.log.comb.with R840	St D7
	R...174	57.11.3752	7.5 kOhm 1% 0.25W	D6
	R...175	57.11.3823	82 kOhm 1% 0.25W	D6
	R...176	1.010.106.58	10 kOhm 10% pos.log.comb.with R841	St C7
	R...177	57.11.3752	7.5 kOhm 1% 0.25W	E5
	R...178	57.11.3823	82 kOhm 1% 0.25W	E5
	R...179	1.010.106.58	10 kOhm 10% pos.log.comb.with R842	St C7
	R...180	57.11.3752	7.5 kOhm 1% 0.25W	C6
	R...181	57.11.3823	82 kOhm 1% 0.25W	C6
	R...182	. . 0	NOT USED	B6
	R...183	. . 0	NOT USED	B6
	R...184	57.11.3752	7.5 kOhm 1% 0.25W	D6
	R...185	57.11.3823	82 kOhm 1% 0.25W	D6
	R...186	. . 0	NOT USED	A6
	R...187	. . 0	NOT USED	A6
	R...190	57.11.3682	6.8 kOhm 1% 0.25W	H1
	R...194	57.11.3330	33 Ohm 5% 0.25W	H1

COMMON GROUP UNIT

1.990.250.70

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...195	. . 0	not used	G1
	R...196	. . 0	not used	G1
	R...197	. . 0	not used	G1
	R...198	. . 0	not used	G1
	R...199	57.11.3104	100 kOhm 5% 0.25W	N6
	R...200	57.11.3224	220 kOhm 5% 0.25W	N6
	R...201	57.11.3512	5.1 kOhm 1% 0.25W option 2:replace by R 203!	N6
	R...202	57.11.3512	5.1 kOhm 1% 0.25W option 2:replace by R 203!	N6
	R...203	. . 0	NOT USED	N6
	R...204	57.11.3822	8.2 kOhm 1% 0.25W	N5
	R...205	57.11.3153	15 kOhm 5% 0.25W	N5
	R...206	58.01.8503	50 kOhm 10% 0.25W trimmer	N5
	R...207	57.99.0250	6.8 kOhm 0.1% 0.25W	M2
	R...208	57.99.0250	6.8 kOhm 0.1% 0.25W	M2
	R...209	57.11.3150	15 Ohm 1% 0.25W	L1
	R...210	57.11.3150	15 Ohm 1% 0.25W	L1
	R...211	57.11.3150	15 Ohm 1% 0.25W	L1
	R...212	57.11.3150	15 Ohm 1% 0.25W	M1
	R...213	57.11.3150	15 Ohm 1% 0.25W	L1
	R...214	57.11.3150	15 Ohm 1% 0.25W	L1
	R...301	. . 0	not used	M1
	R...302	. . 0	not used	M1
	R...303	. . 0	not used	M1
	R...304	. . 0	not used	M1
	R...305	. . 0	not used	M1
	R...306	. . 0	not used	M1
	R...307	. . 0	not used	M1
	R...308	. . 0	not used	M1
	R...309	. . 0	not used	M1
	R...310	. . 0	not used	M1
	R...311	. . 0	not used	N1
	R...312	. . 0	not used	N1
	R...313	. . 0	not used	NO
	R...314	. . 0	not used	NO
	R...315	. . 0	not used	MO
	R...316	. . 0	not used	M1
	R...317	. . 0	not used	M1
	R...318	. . 0	not used	M1
	R...321	. . 0	not used	I4
	R...322	. . 0	not used	K4
	R...323	. . 0	not used	K4
	R...324	. . 0	not used	K6
	R...325	. . 0	not used	K6
	R...326	. . 0	not used	I6
	R...327	. . 0	not used	K6
	R...328	. . 0	not used	K6
	R...329	. . 0	not used	K6
	R...330	. . 0	not used	K6
	R...333	. . 0	not used	K5
	R...334	. . 0	not used	K4
	R...335	. . 0	not used	K4
	R...336	. . 0	not used	K5
	R...337	. . 0	not used	K5
	R...338	57.11.3473	47 kOhm 1% 0.25W	L3
	R...339	57.11.3473	47 kOhm 1% 0.25W	L2
	R...340	57.11.3682	6.8 kOhm 1% 0.25W	L3
	R...341	57.11.3682	6.8 kOhm 1% 0.25W	L2
	R...342	57.11.5335	3.3 MOhm 5% 0.25W	L3
	R...343	57.11.3682	6.8 kOhm 1% 0.25W	L3
	R...344	57.11.3473	47 kOhm 1% 0.25W	L3
	R...345	57.11.3330	33 Ohm 5% 0.25W	L3
	R...350	57.11.3103	10 kOhm 1% 0.25W	N4
	R...351	. . 0	not used	N4
	R...352	57.11.3752	7.5 kOhm 1% 0.25W	N5
	R...353	57.11.3184	180 kOhm 1% 0.25W	N4
	R...354	57.11.3683	68 kOhm 1% 0.25W	N4
	R...355	57.11.3101	100 Ohm 1% 0.25W	N4
	R...356	57.11.3184	180 kOhm 1% 0.25W	N4
	R...357	. . 0	not used	N4
	R...358	57.11.3332	3.3 kOhm 1% 0.25W	M4
	R...359	57.11.3332	3.3 kOhm 1% 0.25W	M4
	R...360	57.11.3332	3.3 kOhm 1% 0.25W	M4
	R...361	57.11.3332	3.3 kOhm 1% 0.25W	M4
	R...362	57.11.3223	22 kOhm 5% 0.25W	M4
	R...365	. . 0	not used	I
	R...366	. . 0	not used	I
	R...367	. . 0	not used	I6
	R...368	. . 0	not used	I6
	R...369	. . 0	not used	H6
	R...370	. . 0	not used	H6
	R...371	. . 0	not used	I6
	R...372	. . 0	not used	I5
	R...373	. . 0	not used	H5
	R...374	. . 0	not used	H5
	R...375	. . 0	not used	H6
	R...377	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...378	. . 0	not used	H4
	R...379	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...380	57.11.3104	100 kOhm 5% 0.25W	I3
	R...381	58.01.8202	2 kOhm 10% 0.25W trimmer	K3
	R...382	57.11.3562	5.6 kOhm 1% 0.25W	K4
	R...383	57.99.0250	6.8 kOhm 0.1% 0.25W	K4
	R...384	57.99.0250	6.8 kOhm 0.1% 0.25W	I3
	R...385	57.11.3150	15 Ohm 1% 0.25W	K3
	R...386	57.11.3150	15 Ohm 1% 0.25W	K3
	R...390	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...391	. . 0	not used	G4
	R...392	57.11.3682	6.8 kOhm 1% 0.25W	G4
	R...393	57.11.3104	100 kOhm 5% 0.25W	G3
	R...394	57.11.3562	5.6 kOhm 1% 0.25W	F3
	R...395	58.01.8202	2 kOhm 10% 0.25W trimmer	F3
	R...401	57.11.3121	120 Ohm 1% 0.25W	H6
	R...402	. . 0	NOT USED	G6
	R...403	57.11.3121	120 Ohm 1% 0.25W	G6
	R...404	. . 0	NOT USED	F6
	R...405	57.11.3121	120 Ohm 1% 0.25W	F6
	R...406	. . 0	NOT USED	E6
	R...407	57.11.3121	120 Ohm 1% 0.25W	E6
	R...408	57.11.3223	22 kOhm 5% 0.25W	F6
	R...409	. . 0	NOT USED	
	R...410	. . 0	NOT USED	
	R...411	. . 0	NOT USED	
	R...412	. . 0	NOT USED	
	R...413	. . 0	NOT USED	
	R...414	. . 0	NOT USED	
	R...415	. . 0	NOT USED	
	R...416	. . 0	NOT USED	
	R...417	. . 0	NOT USED	
	R...418	. . 0	NOT USED	
	R...420	. . 0	not used	H3
	R...421	57.11.3152	1.5 kOhm 1% 0.25W	I1
	R...422	57.11.3152	1.5 kOhm 1% 0.25W	I1
	R...423	57.11.3392	3.9 kOhm 1% 0.25W	I1
	R...424	57.11.3392	3.9 kOhm 1% 0.25W	I1
	R...425	57.11.3272	2.7 kOhm 1% 0.25W	I1
	R...426	57.11.3272	2.7 kOhm 1% 0.25W	I1
	R...427	57.11.3223	22 kOhm 5% 0.25W	I1
	R...428	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...429	. . 0	not used	H4
	R...430	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...431	57.11.3682	6.8 kOhm 1% 0.25W	H4
	R...432	57.11.3752	7.5 kOhm 1% 0.25W	H3
	R...433	57.11.3823	82 kOhm 1% 0.25W	H3
	R...434	57.11.3223	22 kOhm 5% 0.25W	H3
	R...435	57.11.3332	3.3 kOhm 1% 0.25W	H3
	R...436	57.11.3332	3.3 kOhm 1% 0.25W	H3
	R...437	57.11.3330	33 Ohm 5% 0.25W	H3
	R...438	57.11.3223	22 kOhm 5% 0.25W	H3
	R...440	. . 0	not used	H6
	R...441	57.11.3332	3.3 kOhm 1% 0.25W	F3
	R...442	57.11.3223	22 kOhm 5% 0.25W	F3
	R...443	57.11.3333	33 kOhm 1% 0.25W	E3
	R...444	57.11.3103	10 kOhm 1% 0.25W	E3
	R...445	57.11.3472	4.7 kOhm 1% 0.25W	E3
	R...446	57.11.3684	680 kOhm 5% 0.25W	F3
	R...447	. . 0	NOT USED	E3
	R...448	58.05.1503	50 kOhm 10% 0.25W trimmer	D3
	R...449	57.11.3332	3.3 kOhm 1% 0.25W	D3
	R...450	57.11.3330	33 Ohm 5% 0.25W	D3
	R...451	57.11.3223	22 kOhm 5% 0.25W	E3
	R...454	. . 0	not used	B3
	R...455	57.11.3752	7.5 kOhm 1% 0.25W	B3
	R...456	57.11.3823	82 kOhm 1% 0.25W	B3
	R...457	57.11.3682	6.8 kOhm 1% 0.25W	B3
	R...458	57.11.3682	6.8 kOhm 1% 0.25W	B3
	R...459	57.11.3223	22 kOhm 5% 0.25W	B3
	R...465	57.11.3682	6.8 kOhm 1% 0.25W	C4
	R...466	57.11.3682	6.8 kOhm 1% 0.25W	C4
	R...467	57.11.3223	22 kOhm 5% 0.25W	C4
	R...480	57.11.3752	7.5 kOhm 1% 0.25W	B6
	R...481	57.11.3823	82 kOhm 1% 0.25W	B6
	R...482	. . 0	NOT USED	B5
	R...483	. . 0	NOT USED	B6
	R...484	57.11.3752	7.5 kOhm 1% 0.25W	C6
	R...485	57.11.3823	82 kOhm 1% 0.25W	C6
	R...486	. . 0	NOT USED	A5
	R...487	. . 0	NOT USED	A6
	R...490	57.11.3682	6.8 kOhm 1% 0.25W	H1
	R...494	57.11.3330	33 Ohm 5% 0.25W	H1
	R...495	. . 0	not used	GO
	R...496	. . 0	not used	GO
	R...497	. . 0	not used	GO
	R...498	. . 0	not used	GO
	R...499	57.11.3104	100 kOhm 5% 0.25W	N6
	R...500	57.11.3224	220 kOhm 5% 0.25W	N6
	R...501	57.11.3512	5.1 kOhm 1% 0.25W option 2:replace by R 503!	N6
	R...502	57.11.3512	5.1 kOhm 1% 0.25W option 2:replace by R 503!	N6
	R...503	. . 0	not used	N7
	R...504	57.11.3822	8.2 kOhm 1% 0.25W	N5
	R...505	57.11.3153	15 kOhm 5% 0.25W	N5
	R...506	58.01.8503	50 kOhm 10% 0.25W trimmer	N5
	R...507	57.99.0250	6.8 kOhm 0.1% 0.25W	L2
	R...508	57.99.0250	6.8 kOhm 0.1% 0.25W	L2
	R...509	57.11.3150	15 Ohm 1% 0.25W	K1
	R...510	57.11.3150	15 Ohm 1% 0.25W	K1
	R...511	57.11.3150	15 Ohm 1% 0.25W	K1
	R...512	57.11.3150	15 Ohm 1% 0.25W	L1
	R...513	57.11.3150	15 Ohm 1% 0.25W	K1
	R...514	57.11.3150	15 Ohm 1% 0.25W	K1

COMMON GROUP UNIT

1.990.250.70

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...601	. . 0	not used	
	R...602	. . 0	not used	
	R...603	. . 0	not used	
	R...605	. . 0	not used	
	R...606	. . 0	not used	
	R...607	57.11.3274	270 kOhm 1% 0.25W	
	R...608	57.11.3102	1 kOhm 5% 0.25W	
	R...609	57.11.5106	10 MOhm 10% 0.25W	
	R...610	57.11.6226	22 MOhm 10% 0.25W	
	R...611	57.11.3562	5.6 kOhm 1% 0.25W	
	R...612	57.11.3333	33 kOhm 5% 0.25W	
	R...613	57.11.3432	4.3 kOhm 1% 0.25W	
	R...614	57.11.3333	33 kOhm 5% 0.25W	
	R...615	57.11.3512	5.1 kOhm 1% 0.25W	
	R...616	57.11.3105	1 MOhm 5% 0.25W	
	R...617	57.11.3105	1 MOhm 5% 0.25W	
	R...618	57.11.3105	1 MOhm 5% 0.25W	
02	R...618	57.11.3104	100 kOhm 5% 0.25W	
	R...619	57.11.3105	1 MOhm 5% 0.25W	
02	R...619	57.11.3104	100 kOhm 5% 0.25W	
	R...620	57.92.7013	0.75 Ohm I hold = 0.5A , I trip = 1A R-PTC	
	R...621	57.92.7013	0.75 Ohm I hold = 0.5A , I trip = 1A R-PTC	
	R...622	57.11.3151	150 Ohm 1% 0.25W	
	R...623	57.92.7013	0.75 Ohm I hold = 0.5A , I trip = 1A R-PTC	
	R...624	57.11.3102	1 kOhm 5% 0.25W	
	R...625	57.11.3330	33 Ohm 5% 0.25W	
	R...626	57.92.7013	0.75 Ohm I hold = 0.5A , I trip = 1A R-PTC	
	R...627	57.11.3222	2.2 kOhm 5% 0.25W	
	R...628	57.11.3272	2.7 kOhm 5% 0.25W	
	R...629	57.11.3104	100 kOhm 5% 0.25W	
	R...630	57.11.3681	680 Ohm 5% 0.25W	
	R...631	57.11.3104	100 kOhm 5% 0.25W	
	R...632	57.11.3104	100 kOhm 5% 0.25W	
	R...633	57.11.3202	2 kOhm 5% 0.25W	
	R...634	57.11.3222	2.2 kOhm 5% 0.25W	
	R...635	57.11.3101	100 Ohm 5% 0.25W	
	R...636	57.11.3151	150 Ohm 5% 0.25W	
	R...637	57.11.3470	47 Ohm 5% 0.25W	
	R...638	57.11.3689	6.8 Ohm 5% 0.25W	
	R...639	57.11.3689	6.8 Ohm 5% 0.25W	
	R...640	57.11.3101	100 Ohm 5% 0.25W	
	R...641	57.11.3151	150 Ohm 5% 0.25W	
	R...642	57.11.3330	33 Ohm 5% 0.25W	
	R...643	57.11.3330	33 Ohm 5% 0.25W	
	R...644	57.11.3151	150 Ohm 5% 0.25W	
	R...645	57.11.3101	100 Ohm 5% 0.25W	
	R...647	57.11.3109	1 Ohm 5% 0.25W	
	R...648	57.11.3109	1 Ohm 5% 0.25W	
	R...649	57.11.3109	1 Ohm 5% 0.25W	
	R...650	57.11.3273	27 kOhm 1% 0.25W	
	R...651	57.11.3513	51 kOhm 1% 0.25W	
	R...652	57.11.3243	24 kOhm 1% 0.25W	
	R...653	57.11.3513	51 kOhm 1% 0.25W	
	R...801	57.11.3102	1 kOhm 5% 0.25W	
	R...802	57.11.3102	1 kOhm 5% 0.25W	
	R...803	57.11.3102	1 kOhm 5% 0.25W	
02	R...803	57.11.3101	100 Ohm 5% 0.25W	
	R...805	57.11.3223	22 kOhm 5% 0.25W	
	R...806	57.11.3334	330 kOhm 5% 0.25W	
	R...807	57.11.3334	330 kOhm 5% 0.25W	
	R...808	57.11.3104	100 kOhm 5% 0.25W	
	R...809	. . 0	not used	
	R...810	. . 0	not used	
	R...813	. . 0	not used	
	R...814	. . 0	not used	
	R...815	. . 0	not used	
	R...816	. . 0	not used	
	R...817	. . 0	not used	
	R...818	. . 0	not used	
	R...819	. . 0	not used	
	R...820	. . 0	not used	
	R...821	. . 0	not used	
	R...822	. . 0	not used	
	R...823	. . 0	not used	
	R...824	. . 0	not used	
	R...825	. . 0	not used	
	R...826	. . 0	not used	
	R...827	. . 0	not used	
	R...828	. . 0	not used	
	R...829	. . 0	not used	
	R...830	. . 0	not used	
	R...831	. . 0	not used	
	R...832	. . 0	not used	
	R...833	. . 0	not used	
	R...834	. . 0	not used	
	R...835	57.11.5106	10 MOhm 10% 0.25W	
	R...836	57.11.3330	33 Ohm 5% 0.25W	
	R...840	. .	100 kOhm 20% lin. see R 173	
	R...841	. .	100 kOhm 20% lin. see R 176	
	R...842	. .	100 kOhm 20% lin. see R 179	
	R...843	. .	100 kOhm 20% lin. see R 170	
	R...844	. . 0	NOT USED	
	R...845	. . 0	NOT USED	
	R...846	. . 0	NOT USED	
	R...847	. . 0	NOT USED	
	R...849	. . 0	not used	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...852	. . 0	NOT USED	
	R...853	. . 0	NOT USED	
	R...854	. . 0	NOT USED	
	R...855	. . 0	NOT USED	
	R...856	. . 0	not used	
	R...857	. . 0	NOT USED	
	R...858	. . 0	NOT USED	
	R...859	. . 0	not used	
	R...860	57.11.3102	1 kOhm 5% 0.25W	
	R...861	57.11.3102	1 kOhm 5% 0.25W	
	R...862	57.11.3102	1 kOhm 5% 0.25W	
	R...863	. . 0	not used	
	R...864	57.11.3333	33 kOhm 5% 0.25W	
	R...865	57.11.3333	33 kOhm 5% 0.25W	
	R...866	57.11.3333	33 kOhm 5% 0.25W	
	RZ....2	. . 0	not used	
	RZ....3	. . 0	not used	
	RZ....7	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ....8	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ....9	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...10	57.88.2224	220 kOhm 2% SIP 8 (4*)	
	RZ...11	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...13	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...14	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...15	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...16	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...17	. . 0	not used	
	RZ...18	. . 0	not used	
	RZ...19	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...20	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...21	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...22	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...23	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...24	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...25	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...26	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...27	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...28	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...29	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...30	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...31	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...32	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...33	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...34	57.88.2224	220 kOhm 2% SIP 8 (4*)	
	RZ...35	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ...36	57.88.2101	100 Ohm 2% SIP 8 (4*)	
	RZ..307	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ..308	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ..309	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ..310	57.88.2224	220 kOhm 2% SIP 8 (4*)	
	RZ..311	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ..331	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ..332	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ..333	57.88.2682	6.8 kOhm 2% SIP 8 (4*)	
	RZ..334	57.88.2224	220 kOhm 2% SIP 8 (4*)	
	RZ..801	57.88.2102	1 kOhm SIP 8 (4*)	
J2	RZ..801	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..802	57.88.2102	1 kOhm SIP 8 (4*)	
02	RZ..802	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..803	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..804	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..805	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..806	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..807	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..808	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..809	. . 0	not used	
	RZ..810	. . 0	not used	
	RZ..811	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..812	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..813	. . 0	not used	
	RZ..814	. . 0	not used	
	RZ..815	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..816	. . 0	not used	
	RZ..817	. . 0	not used	
	RZ..818	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..819	57.88.2104	100 kOhm SIP 8 (4*)	
	RZ..821	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..822	. . 0	not used	
	RZ..824	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..825	57.88.2102	1 kOhm SIP 8 (4*)	
	RZ..826	57.88.2102	1 kOhm SIP 8 (4*)	
	RZ..827	57.88.2102	1 kOhm SIP 8 (4*)	
	RZ..828	57.88.2102	1 kOhm SIP 8 (4*)	
	RZ..829	57.88.2102	1 kOhm SIP 8 (4*)	
	RZ..830	57.88.2102	1 kOhm SIP 8 (4*)	
	RZ..831	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..832	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..833	57.88.2104	100 kOhm SIP 8 (4*)	
	RZ..834	57.88.2104	100 kOhm SIP 8 (4*)	
	RZ..835	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..836	57.88.2104	100 kOhm SIP 8 (4*)	
	RZ..837	57.88.2104	100 kOhm SIP 8 (4*)	
	RZ..838	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..839	57.88.2104	100 kOhm SIP 8 (4*)	
	RZ..840	57.88.2104	100 kOhm SIP 8 (4*)	

COMMON GROUP UNIT

1.990.250.70

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	RZ..841	57.88.4104	100 kOhm SIP 9 (8*)	H8
	RZ..842	57.88.2104	100 kOhm SIP 8 (4*)	H8
	RZ..843	57.88.2104	100 kOhm SIP 8 (4*)	H8
	RZ..844	57.88.4104	100 kOhm SIP 9 (8*)	I8
	RZ..845	57.88.2104	100 kOhm SIP 8 (4*)	I8
	RZ..846	57.88.2104	100 kOhm SIP 8 (4*)	K8
	RZ..847	57.88.4104	100 kOhm SIP 9 (8*)	I9
	RZ..848	57.88.2104	100 kOhm SIP 8 (4*)	I9
	RZ..849	57.88.2104	100 kOhm SIP 8 (4*)	K9
	RZ..850	57.88.4104	100 kOhm SIP 9 (8*)	K9
	RZ..851	. . 0	not used	K9
	RZ..852	. . 0	not used	L9
	RZ..853	57.88.4104	100 kOhm SIP 9 (8*)	K8
	RZ..854	57.88.2104	100 kOhm SIP 8 (4*)	K8
	RZ..855	. . 0	not used	L8
	RZ..858	57.88.4104	100 kOhm SIP 9 (8*)	D7
	RZ..859	57.88.2104	100 kOhm SIP 8 (4*)	B7
	RZ..860	57.88.2104	100 kOhm SIP 8 (4*)	B7
	RZ..861	57.88.4104	100 kOhm SIP 9 (8*)	E8
	RZ..862	57.88.2104	100 kOhm SIP 8 (4*)	E8
	RZ..863	57.88.2104	100 kOhm SIP 8 (4*)	E8
	RZ..864	57.88.4104	100 kOhm SIP 9 (8*)	E9
	RZ..865	57.88.2104	100 kOhm SIP 8 (4*)	E9
	RZ..866	57.88.2104	100 kOhm SIP 8 (4*)	E9
	RZ..867	57.88.4104	100 kOhm SIP 9 (8*)	F9
	RZ..868	57.88.2104	100 kOhm SIP 8 (4*)	F9
	RZ..869	57.88.2104	100 kOhm SIP 8 (4*)	F9
	RZ..870	57.88.4104	100 kOhm SIP 9 (8*)	F8
	RZ..871	57.88.2104	100 kOhm SIP 8 (4*)	F8
	RZ..872	57.88.2104	100 kOhm SIP 8 (4*)	F8
	T.....1	. . 0	not used	N2
	T...301	. . 0	not used	N0
	W.....1	1.010.330.64	wire 3.5mm, alternate to R 849 (option 2)	N7
	W.....2	1.010.330.64	wire 3.5mm, replaces R 856 (pin 1&2 shorted)	H7
	W.....3	1.010.329.64	wire 2.5mm, replaces R 859 (pin 1&2 shorted)	I7
	W.....5	. . 0	not used	M2
	W.....6	. . 0	not used	M3
	W.....7	. . 0	not used	L4
	W.....9	. . 0	not used	M2
	W....10	. . 0	not used	M2
	W....11	57.11.3000	0 Ohm 0-Ohm Input to processing	M4
	W....12	57.11.3000	0 Ohm 0-Ohm Input to processing	M4
	W....16	. . 0	NOT USED	C1
	W....18	1.010.329.64	wire 2.5mm, bypass spread	D3
	W....19	1.010.329.64	wire 2.5mm, bypass spread	C3
	W....20	. . 0	NOT USED	B4
	W....21	. . 0	not used	G2
	W....22	. . 0	not used	N8
	W....23	. . 0	not used	N7
	W....24	. . 0	not used	N7
	W....25	. . 0	not used	N7
	W....26	. . 0	not used	N7
	W...110	. . 0	NOT USED	
	W...111	. . 0	NOT USED	

Optionen: Siehe Optionenliste!

Die files heissen #990250S,T

Mit NOT USED bezeichnete Elemente erscheinen z.T. in uebergeordneter BG.
Mit not used bezeichnete Elemente kommen in Groups nicht vor.

Die Koordinaten bei Manuf. beziehen sich auf Bestueckplan

CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER: ADI=Aanalog Devices Inc., Bu=Burndy, El=Elco, Ex=Exar,
Fc=Fairchild, Fe=Ferranti, GI=General Instrument, Ha=Harting
HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
(Matsushita), NS=National Semiconductors, Ph=Philips,
PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Corp. of
America, SDS=SDS-Relais, Sie=Siemens, Six=Siliconix, St=Studer
Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaichi

****

HISTORY:
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01.10.90 - Stand RAI-Pult

13.11.90 - Eliminierung digitaler Stoerungen
- AUX-Klirr (0V generiert 1)
- PF-Headroom

21.11.90 - Poslst Bereinigung

08.01.91 - Anwahl-Elektronik (Q und shelv/bell Umschaltung) fuer nachtraeglich bestueckt.
- Verbesserung Rauschabstand vom Insert Send

30.01.91 - Poslst Bereinigung (NOT USED/not used) ==> ZAB

12.02.91 (01) HF-Entstoerung C 619, C 827 dazu
Produktions-Bereinigung MP 25, 1 Stk entfaellt
DC-Knacksen: C 35 und C 335 dazu

10.09.91 (02) INT 5 (Overload) gleich wie Mono: wechseln von 1M auf 100k
- R 618, R 619 werden neu 100 kOhm (57.11.3104)
Seriewiderstaende in TCL, TXD, TSTB, DOO usw. von 1k auf 100
- RZ 801, RZ 802 werden neu 100 Ohm (57.88.2101)
- R 803 wird neu 100 Ohm (57.11.3101)

1.990.250.70 COMMON GROUP UNIT AB 91/01/3000

1.990.250.70 COMMON GROUP UNIT AB 91/02/1201

1.990.250.70 COMMON GROUP UNIT ABB91/09/1002

END

Pin location list **1.990.250**

ALSO USED FOR

-GROUP UNIT MONO + EQ	MCH / B	1.990.250 / 260
-GROUP UNIT MONO	MCH / B	1.990.255 / 265
-GROUP UNIT STEREO + EQ	MCH / B	1.990.270 / 280
-GROUP UNIT STEREO	MCH / B	1.990.275 / 285

P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC
P6	01A	OVA BAL/PAN1	GROUND SIGN BAL (PAN 1)	O
P6	01B	B-L/PAN1-IN	BAL LEFT IN (PAN 1 IN)	O
P6	02A	B/PAN1-OUT-L	BAL OUT LEFT (PAN 1 OUT LEFT)	O
P6	02B	B/PAN1-OUT-R	BAL OUT RIGHT (PAN 1 OUT RIGHT)	O
P6	03A	-	NC (GROUND SIGN PAN 2)	O
P6	03B	B-R/PAN2-IN	BAL RIGHT IN (PAN 2 IN)	O
P6	04A	B-Rb-IN	BAL IN RIGHT b	I,O
P6	04B	C-OUT	BAL COMMON OUT	O
P6	05A	FILM-OUT-L	OPTIONAL OUTPUT LEFT	O
P6	05B	FILM-OUT-R	OPTIONAL OUTPUT RIGHT	O
P6	06A		N.C.	O
P6	06B		N.C.	O
P6	07A	+ 15V	+ SUPPLY TO FADER UNIT	O
P6	07B	- 15V	- SUPPLY TO FADER UNIT	O
P6	08A	A OUT 0	DC INPUT ; FROM MCU ANALOG OUT 0	O
P6	08B	A OUT 1	DC INPUT ; FROM MCU ANALOG OUT 1	O
P6	09A	A IN 4	DC OUTPUT ; TO MCU ANALOG IN 4	O
P6	09B	A OUT 5	DC INPUT ; FROM MCU ANALOG OUT 5	O
P6	10A	RCL	RECEIVE CLOCK	O
P6	10B	RSTB	RECEIVE STROBE	O
P6	11A	INT 4	INTERUPT 4	O
P6	11B	RXD 3	RECEIVE DATA 3	O
P6	12A	INT 5	INTERUPT 5	O
P6	12B	TSTB 2	TRANSMIT STROBE 2	O
P6	13A	TSTB 3	TRANSMIT STROBE 3	O
P6	13B	TSTB 4	TRANSMIT STROBE 4	O
P6	14A	TSTB 5	TRANSMIT STROBE 5	O
P6	14B	DO 1	DATA OUT 1 (TRANSMIT STROBE 8)	O
P6	15A	TXD	TRANSMIT DATA	O
P6	15B	TCL	TRANSMIT CLOCK	O
P6	16A	DO 0	DATA OUT 0 (ENABLE)	O
P6	16B	UREF	+ 5V REFERENCE	O
P7	01A	OV-B	GROUND AUDIO (PIN)	O
P7	01B	CHASSIS	METAL FRAME	B
P7	02A	-	RES	O
P7	02B	-	RES	O
P7	03A	-	RES LEFT	B
P7	03B	-	RES RIGHT	B
P7	04A	-	N.C.	B,I
P7	04B	-	N.C.	B,I
P7	05A	B-PFL/SOLO-L	PFL/SOLO LEFT ; 0-OHM BUS	B,I
P7	05B	B-PFL/SOLO-R	PFL/SOLO RIGHT ; 0-OHM BUS	B,I
P7	06A	B-A-L	MASTER A LEFT ; 0-OHM BUS	B,I
P7	06B	B-A-R	MASTER A RIGHT ; 0-OHM BUS	B,I
P7	07A	B-B-L	MASTER B LEFT ; 0-OHM BUS	B,I
P7	07B	B-B-R	MASTER B RIGHT ; 0-OHM BUS	B,I
P7	08A	B-C-L	MASTER C LEFT ; 0-OHM BUS	B,I

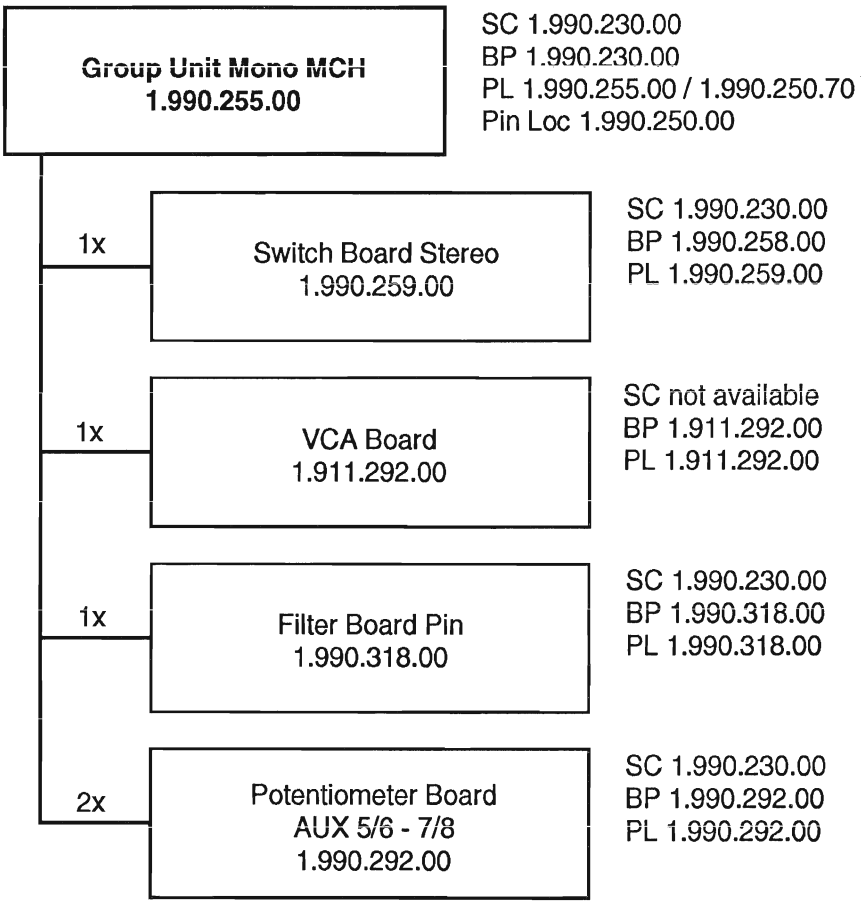
Pin location list **1.990.250**

P7	08B	B-C-R	MASTER C RIGHT	; 0-OHM BUS	B,I		
P7	09A	B-D-L	MASTER D LEFT	; 0-OHM BUS	B,I		
P7	09B	B-D-R	MASTER D RIGHT	; 0-OHM BUS	B,I		
P7	10A	-	N.C.		B,I		
P7	10B	-	N.C.		B,I		
P7	11A	-	N.C.		B,I		
P7	11B	-	N.C.		B,I		
P7	12A	-	N.C.		B,I		
P7	12B	-	N.C.		B,I		
P7	13A	-	N.C.		B,I		
P7	13B	-	N.C.		B,I		
P7	14	0V-REF	0V REFERENCE		B	X	X
P7	15A	B-AUX-1	AUX 1	; 0-OHM BUS	B,I		
P7	15B	B-AUX-2	AUX 2	; 0-OHM BUS	B,I		
P7	16A	B-AUX-3	AUX 3	; 0-OHM BUS	B,I		
P7	16B	B-AUX-4	AUX 4	; 0-OHM BUS	B,I		
P7	17A	B-AUX-5	AUX 5	; 0-OHM BUS	B,I		
P7	17B	B-AUX-6	AUX 6	; 0-OHM BUS	B,I		
P7	18A	B-AUX-7	AUX 7	; 0-OHM BUS	B,I		
P7	18B	B-AUX-8	AUX 8	; 0-OHM BUS	B,I		
P7	19A	B-AUX-9	AUX 9	; 0-OHM BUS	B,I		
P7	19B	B-AUX-10	AUX 10	; 0-OHM BUS	B,I		
P7	20A	B-AUX-11	AUX 11	; 0-OHM BUS	B,I		
P7	20B	B-AUX-12	AUX 12	; 0-OHM BUS	B,I		
P7	21A	B-AUX-13	AUX 13	; 0-OHM BUS	B,I		
P7	21B	B-AUX-14	AUX 14	; 0-OHM BUS	B,I		
P7	22A	B-AUX-15	AUX 15	; 0-OHM BUS	B,I		
P7	22B	B-AUX-16	AUX 16	; 0-OHM BUS	B,I		
P7	23A	0V GEN 1	GROUND AUDIO GENERATED 1		O		
P7	23B	GR-L-IN	GROUP 0-OHM INPUT LEFT		O		
P7	24A	0V GEN 2	GROUND AUDIO GENERATED 2		O		
P7	24B	GR-L-0V-IN	GROUP 0-OHM INPUT LEFT GROUND		O		
P7	25A	0V GEN 3	GROUND AUDIO GENERATED 3		O		
P7	25B	GR-R-IN	GROUP 0-OHM INPUT RIGHT		O		
P7	26A	0V GEN 4	GROUND AUDIO GENERATED 4		O		
P7	26B	GR-R-0V-IN	GROUP 0-OHM INPUT RIGHT GROUND		O		
P7	27	0V-A	GROUND AUDIO		B	X	X
P7	28	- 15.5V	- SUPPLY		B	X	X
P7	29	+ 15.5V	+ SUPPLY		B	X	X
P7	30	0V-L	GROUND SIGN (LOGIC)		B	X	X
P7	31	+ 5.5V	+ SUPPLY		B	X	X
P7	32	+3..4V LED	LED SUPPLY VARIABLE +3...4V		B	X	X
P9	01A	-	N.C.		O		
P9	01B	-	N.C.		O		
P9	02A	-	N.C.		O		
P9	02B	-	N.C.		O		
P9	03A	-	N.C.		O		
P9	03B	-	N.C.		O		
P9	04A	-	N.C.		O		
P9	04B	-	N.C.		O		
P9	05A	-	N.C.		O		
P9	05B	-	N.C.		O		
P9	06A	-	N.C.		O		
P9	06B	-	N.C.		O		
P9	07A	-	N.C.		O		
P9	07B	-	N.C.		O		
P9	08A	-	N.C.		O		
P9	08B	-	RES		O		
P9	09A	-	N.C.		O		
P9	09B	-	N.C.		O		
P9	10A	DIR-OUT-L-a	DIRECT OUT LEFT a		S,O		

Pin location list **1.990.250**

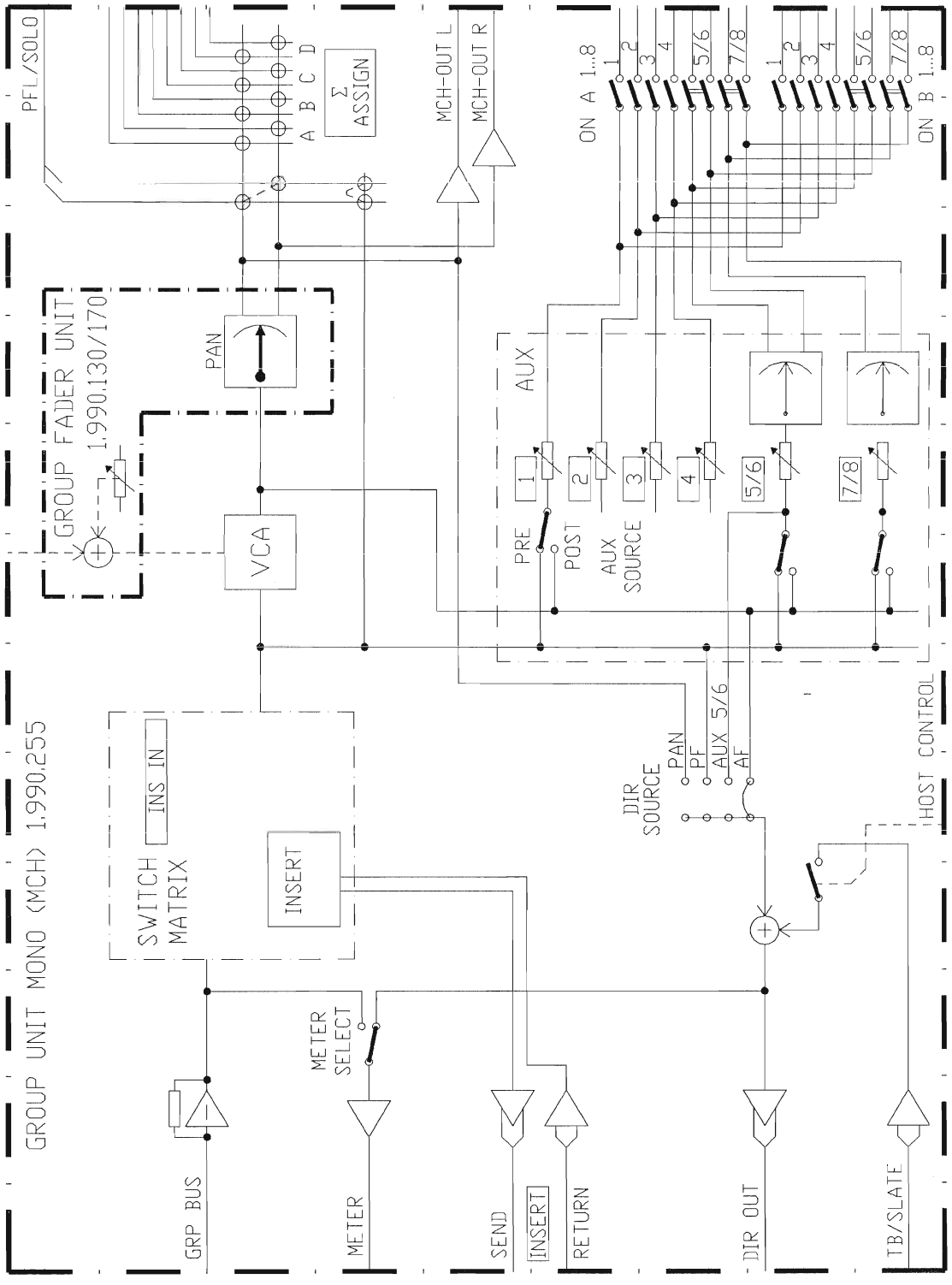
P9	10B	DIR-OUT-L-b	DIRECT OUT LEFT b	S,O
P9	11A	DIR-OUT-R-a	DIRECT OUT RIGHT a	S,O
P9	11B	DIR-OUT-R-b	DIRECT OUT RIGHT b	S,O
P9	12A	METER-L	METER LEFT	AS,O
P9	12B	METER-L-OV	METER L GROUND AUDIO GENERATED	O
P9	13A	METER-R-OV	METER R GROUND AUDIO GENERATED	O
P9	13B	METER-R	METER RIGHT	AS,O
P9	14A	MCH-OUT-L-a	TO EURO 32CH BUS SELECTOR LEFT a	S,O
P9	14B	MCH-OUT-L-b	TO EURO 32CH BUS S. LEFT b (GROUND)	S,O
P9	15A	MCH-OUT-R-a	TO EURO 32CH BUS SELECTOR RIGHT a	S,O
P9	15B	MCH-OUT-R-b	TO EURO 32CH BUS S. RIGHT b (GROUND)	S,O
P9	16A	PF-OUT-L	PRE FADER OUT LEFT	AS,O
P9	16B	PF-OUT-R	PRE FADER OUT RIGHT	AS,O
P9	17A	AF-OUT-L	AFTER FADER OUT LEFT	AS,O
P9	17B	AF-OUT-R	AFTER FADER OUT RIGHT	AS,O
P9	18A	-	N.C.	O
P9	18B	AF/PF-OUT-OV	AF/PF OUT GROUND	O
P9	19A	-	N.C.	S,O
P9	19B	-	N.C.	AS,O
P9	20A	-	N.C.	O
P9	20B	-	N.C.	S,O
P9	21A	-	N.C.	S,O
P9	21B	-	N.C.	O
P9	22A	-	N.C.	O
P9	22B	-	N.C.	O
P9	23A	-	N.C.	O
P9	23B	-	N.C.	O
P9	24A	TB/SLATE-a	TALK BACK / SLATE INPUT a	S,B
P9	24B	-	N.C.	B
P9	25A	-	N.C.	B
P9	25B	TB/SLATE-b	TALK BACK / SLATE INPUT b	S,B
P9	26A	-	N.C.	B
P9	26B	-	N.C.	B
P9	27A	-	N.C.	B
P9	27B	-	N.C.	B
P9	28A	INS-OV	INSERT GROUND	O
P9	28B	-	N.C.	B
P9	29A	INS-SEND-L-a	SYM INSERT LEFT OUTPUT a	S,O
P9	29B	INS-SEND-L-b	SYM INSERT LEFT OUTPUT b	S,O
P9	30A	INS-RET -L-a	SYM INSERT LEFT INPUT a	S,O
P9	30B	INS-RET -L-b	SYM INSERT LEFT INPUT b	S,O
P9	31A	INS-SEND-R-a	SYM INSERT RIGHT OUTPUT a	S,O
P9	31B	INS-SEND-R-b	SYM INSERT RIGHT OUTPUT b	S,O
P9	32A	INS-RET -R-a	SYM INSERT RIGHT INPUT a	S,O
P9	32B	INS-RET -R-b	SYM INSERT RIGHT INPUT b	S,O

Group Unit Mono MCH 1.990.255.00



SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

GROUP UNIT MONO MCH 1.990.255.00



GROUP UNIT MONO 1.990.255.00

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Ad  ..POS..  ...REF.No...     DESCRIPTION.............................MANUFACTURER


    A.....2  1.990.259.00             SWITCH BOARD GROUP                    St

    A....14  1.990.292.00             5 POT. 10MM BOARD                     St B6
    A....15  1.990.292.00             5 POT. 10MM BOARD                     St B6
    A....16  1.990.318.00             FILTER BOARD PIN                      St M3

    A....70  1.990.250.70             GROUP UNIT VORMONTIERT       ,A       St
    IC...75      .  .   0   not used                                 see option 1 H1

    IC..835      .  .   0   not used                                 see option 2 G8

    MP...28    21.01.2352      6 pcs   S-Schr. M3*4
    MP...29    24.16.3023      2 pcs   Wellensicherung 2.3
    MP...30    42.01.0203      2 pcs   Drehknopf gr, D 10/4

    MP...31    42.01.0228      4 pcs   Knebelknopf gr, D 10/4
    MP...32    42.01.0250      1 pcs   Deckel h'gr, D 10
    MP...33    42.01.0251      1 pcs   Deckel d'gr, D 10
    MP...34    42.01.0253      1 pcs   Deckel   rt, D 10
    MP...35    42.01.0254      1 pcs   Deckel   bl, D 10
    MP...36    42.01.0255      1 pcs   Deckel   gb, D 10
    MP...37    42.01.0256      1 pcs   Deckel   gn, D 10
    MP...38  1.010.022.21      2 pcs   Linsenschr. spez M3*8
    MP...40  1.912.000.03      2 pcs   Drehring D 6.2/13

    MP...41  1.990.200.03      1 pcs   Schirmblech Input
    MP...42  1.990.210.02      1 pcs   Traeger Input
    MP...44  1.990.255.01      1 pcs   Frontschild Input (1.990265.01 -> BG 265!)
    MP...46  1.010.108.64      1 pcs   gelber Draht 28 mm connects PF L&PF R     F2

    R...182      .  .       4.7 kOhm    10%  +log.comb.withR183/483/844/846      B6
    R...183      .  .        10 kOhm    10%  +log.see R 182 1.010.034.58 on A 14 B6
    R...186      .  .       4.7 kOhm    10%  +log.comb.withR187/487/845/847      A6
    R...187      .  .        10 kOhm    10%  +log.see R 186 1.010.034.58 on A 15 A6

    R...203      .  .   0   not used                                 see option 2 N6

    R...436      .  .   0   not used    remove R 436    in MONO GROUPS          H3

    R...483      .  .        10 kOhm    10%  neg.log. see R 182                 B6
    R...487      .  .        10 kOhm    10%  neg.log. see R 186                 A6

    R...844      .  .       100 kOhm    20%  lin.     see R 182                 B7
    R...845      .  .       100 kOhm    20%  lin.     see R 186                 A6
    R...846      .  .       100 kOhm    20%  lin.     see R 182                 B6
    R...847      .  .       100 kOhm    20%  lin.     see R 186                 A7

    W....16  1.010.330.64     wire       3.5mm, Group Mono Pan                 C1
    W....19      .  .   0   not used     remove W 19     in MONO GROUPS        C3
    W....20    57.11.3000      0  Ohm    Group AUX Mono Pan                    B4

 >> POSLST 1.990.255 gilt auch fuer BG 1.990.265.xx ( B - Version ) <<

       >-------------------------------------------------<
       | Die files zu dieser POSLST heissen  #990255A,B |
       >-------------------------------------------------<

Die posliste 1.990.250.70 ist in den files #990250S,T

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

OPTIONS :  SEE OPTIONLIST 1.990.230.00
********

option 1 :.....multichannel out
option 2 :.....output trim

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

Die Koordinaten bei Manuf. beziehen sich auf Bestueckplan

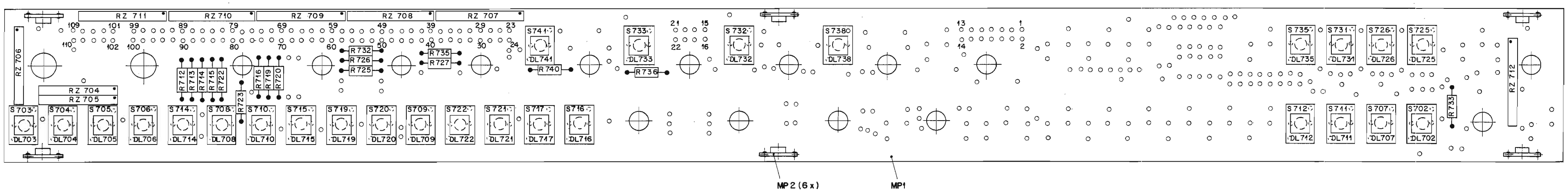
CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER: ADI=Aanalog Devices Inc., Bu=Burndy, El=Elco, Ex=Exar,
              Fc=Fairchild, Fe=Ferranti, GI=General Instrument, Ha=Harting,
              HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National
              (Matsushita), NS=National Semiconductors, Ph=Philips,
              PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Corp. of
              America, SDS=SDS-Relais, Sie=Siemens, Six=Siliconix, St=Studer,
              Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaichi

            1.990.255.00  GROUP UNIT MONO              AB 91/01/3000

 END
```

SWITCH BOARD GROUP 1.990.258.00 / 1.990.259.00



*

VALID FOR	NR. UNIT	NR. POS. LIST
SWITCH BOARD GROUP + EQ	1.990.258-00	1.990.258-00
SWITCH BOARD GROUP	1.990.259-00	1.990.259-00

Änderung					
					③
					②
					①
Ausgabe	10.4.90	A.Rot	Ya	W	⓪
	Datum	Gez.	Gepr.	Ges.	Index

Kopie für:

STUDER REGENSDORF ZÜRICH	SWITCH BOARD GROUP	1.990.258-00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	DL..701	. . 0	not used	
	DL..702	. .	red see S702	
	DL..703	. .	yel see S703	
	DL..704	. .	grn see S704	
	DL..705	. .	yel see S705	
	DL..706	. .	grn see S706	
	DL..707	. .	red see S707	
	DL..708	. .	grn see S708	
	DL..709	. .	yel see S709	
	DL..710	. .	yel see S710	
	DL..711	. .	red see S711	
	DL..712	. .	red see S712	
	DL..713	. . 0	not used	
	DL..714	. .	yel see S714	
	DL..715	. .	grn see S715	
	DL..716	. .	red see S716	
	DL..717	. .	red see S717	
	DL..718	. . 0	not used	
	DL..719	. .	yel see S719	
	DL..720	. .	grn see S720	
	DL..721	. .	yel see S721	
	DL..722	. .	grn see S722	
	DL..723	. . 0	not used	
	DL..724	. . 0	not used	
	DL..725	. .	red see S725	
	DL..726	. .	red see S726	
	DL..727	. . 0	not used	
	DL..728	. . 0	not used	
	DL..729	. . 0	not used	
	DL..730	. . 0	not used	
	DL..731	. .	red see S731	
	DL..732	. .	grn see S732	
	DL..733	. .	grn see S733	
	DL..734	. . 0	not used	
	DL..735	. .	red see S735	
	DL..736	. . 0	not used	
	DL..737	. . 0	not used	
	DL..738	. .	grn see S738	
	DL..739	. . 0	not used	
	DL..740	. . 0	not used	
	DL..741	. .	grn see S741	
	DL..742	. . 0	not used	
	DL..743	. . 0	not used	
	DL..744	. . 0	not used	
	DL..745	. . 0	not used	
	DL..746	. . 0	not used	
	DLZ.701	. . 0	not used	
	DLZ.702	. . 0	not used	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	MP..701	1.990.219.11	1 pcs Input Mono PCB	
	MP..702	1.990.100.05	6 pcs Querprinthalter	
	MP..703	. . 0	not used	
	MP..704	1.990.258.04	1 pcs Nr.Etikette 5*20	
	Q...701	. . 0	not used	
	Q...702	. . 0	not used	
	Q...703	. . 0	not used	
	Q...704	. . 0	not used	
	R...701	. . 0	not used	
	R...702	. . 0	not used	
	R...703	. . 0	not used	
	R...704	. . 0	not used	
	R...705	. . 0	not used	
	R...706	. . 0	not used	
	R...707	. . 0	not used	
	R...708	. . 0	not used	
	R...709	. . 0	not used	
	R...710	. . 0	not used	
	R...711	. . 0	not used	
	R...712	57.11.3101	100 Ohm 5% 0.25W	
	R...713	57.11.3101	100 Ohm 5% 0.25W	
	R...714	57.11.3101	100 Ohm 5% 0.25W	
	R...715	57.11.3101	100 Ohm 5% 0.25W	
	R...716	57.11.3101	100 Ohm 5% 0.25W	
	R...717	. . 0	not used	
	R...718	. . 0	not used	
	R...719	57.11.3101	100 Ohm 5% 0.25W	
	R...720	57.11.3101	100 Ohm 5% 0.25W	
	R...721	. . 0	not used	
	R...722	57.11.3101	100 Ohm 5% 0.25W	
	R...723	57.11.3101	100 Ohm 5% 0.25W	
	R...724	. . 0	not used	
	R...725	57.11.3101	100 Ohm 5% 0.25W	
	R...726	57.11.3101	100 Ohm 5% 0.25W	
	R...727	57.11.3101	100 Ohm 5% 0.25W	
	R...728	. . 0	not used	
	R...729	. . 0	not used	
	R...730	. . 0	not used	
	R...731	. . 0	not used	
	R...732	57.11.3101	100 Ohm 5% 0.25W	
	R...733	57.11.3101	100 Ohm 5% 0.25W	
	R...734	. . 0	not used	
	R...735	57.11.3101	100 Ohm 5% 0.25W	
	R...736	57.11.3101	100 Ohm 5% 0.25W	
	R...737	. . 0	not used	
	R...738	. . 0	not used	
	R...739	. . 0	not used	
	R...740	57.11.3101	100 Ohm 5% 0.25W	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...741	. . 0	not used	
	R...742	. . 0	not used	
	R...743	. . 0	not used	
	RZ..701	. . 0	not used	
	RZ..702	. . 0	not used	
	RZ..703	. . 0	not used	
	RZ..704	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..705	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..706	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..707	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..708	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..709	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..710	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..711	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..712	57.88.4104	100 kOhm SIP 9 (8*)	
	S...701	. . 0	not used	
	S...702	55.15.0602	1 * A red/trans.	
	S...703	55.15.0644	1 * A yel/yel	
	S...704	55.15.0605	1 * A grn/trans.	
	S...705	55.15.0604	1 * A yel/trans.	
	S...706	55.15.0605	1 * A grn/trans.	
	S...707	55.15.0602	1 * A red/trans.	
	S...708	55.15.0605	1 * A grn/trans.	
	S...709	55.15.0604	1 * A yel/trans.	
	S...710	55.15.0604	1 * A yel/trans.	
	S...711	55.15.0602	1 * A red/trans.	
	S...712	55.15.0602	1 * A red/trans.	
	S...713	. . 0	not used	
	S...714	55.15.0604	1 * A yel/trans.	
	S...715	55.15.0605	1 * A grn/trans.	
	S...716	55.15.0622	1 * A red/red	
	S...717	55.15.0622	1 * A red/red	
	S...718	. . 0	not used	
	S...719	55.15.0604	1 * A yel/trans.	
	S...720	55.15.0605	1 * A grn/trans.	
	S...721	55.15.0604	1 * A yel/trans.	
	S...722	55.15.0605	1 * A grn/trans.	
	S...723	. . 0	not used	
	S...724	. . 0	not used	
	S...725	55.15.0602	1 * A red/trans.	
	S...726	55.15.0602	1 * A red/trans.	
	S...727	. . 0	not used	
	S...728	. . 0	not used	
	S...729	. . 0	not used	
	S...730	. . 0	not used	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	S...731	55.15.0602	1 * A red/trans.	
	S...732	55.15.0605	1 * A grn/trans.	
	S...733	55.15.0605	1 * A grn/trans.	
	S...734	. . 0	not used	
	S...735	55.15.0602	1 * A red/trans.	
	S...736	. . 0	not used	
	S...737	. . 0	not used	
	S...738	55.15.0605	1 * A grn/trans.	
	S...739	. . 0	not used	
	S...740	. . 0	not used	
	S...741	55.15.0605	1 * A grn/trans.	
	S...742	. . 0	not used	
	S...743	. . 0	not used	
	W...701	. . 0	not used	
	W...702	. . 0	not used	
	W...703	. . 0	not used	
	W...704	. . 0	not used	

CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film, PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER: Bu=Burndy, Ex=Exar, Fc=Fairchild, GI=General Instrument HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National (Matsushita), NS=National Semiconductors, Ph=Philips, Ra=Raytheon, Sig=Signetics, Six=Siliconix, St=Studer, TI=Texas Instrument

1.990.258.00 SWITCH BOARD GROUP + EQ TA 90/04/0200

SWITCH BOARD GROUP 1.990.259.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	DL..701	. . 0	not used	
	DL..702	. .	red see S702	
	DL..703	. .	yel see S703	
	DL..704	. .	grn see S704	
	DL..705	. .	yel see S705	
	DL..706	. .	grn see S706	
	DL..707	. .	red see S707	
	DL..708	. .	grn see S708	
	DL..709	. .	yel see S709	
	DL..710	. .	yel see S710	
	DL..711	. .	red see S711	
	DL..712	. .	red see S712	
	DL..713	. . 0	not used	
	DL..714	. .	yel see S714	
	DL..715	. .	grn see S715	
	DL..716	. . 0	not used	
	DL..717	. .	red see S717	
	DL..718	. . 0	not used	
	DL..719	. .	yel see S719	
	DL..720	. .	grn see S720	
	DL..721	. .	yel see S721	
	DL..722	. .	grn see S722	
	DL..723	. . 0	not used	
	DL..724	. . 0	not used	
	DL..725	. .	red see S725	
	DL..726	. .	red see S726	
	DL..727	. . 0	not used	
	DL..728	. . 0	not used	
	DL..729	. . 0	not used	
	DL..730	. . 0	not used	
	DL..731	. .	red see S731	
	DL..732	. . 0	not used	
	DL..733	. . 0	not used	
	DL..734	. . 0	not used	
	DL..735	. .	red see S735	
	DL..736	. . 0	not used	
	DL..737	. . 0	not used	
	DL..738	. . 0	not used	
	DL..739	. . 0	not used	
	DL..740	. . 0	not used	
	DL..741	. . 0	not used	
	DL..742	. . 0	not used	
	DL..743	. . 0	not used	
	DL..744	. . 0	not used	
	DL..745	. . 0	not used	
	DL..746	. . 0	not used	
	DLZ.701	. . 0	not used	
	DLZ.701	. . 0	not used	
	MP..701	1.990.219.11	1 pcs Input Mono PCB	
	MP..702	1.990.100.05	6 pcs Querprinthalter	
	MP..703	. . 0	not used	
	MP..704	1.990.259.04	1 pcs Nr.Etikette 5*20	
	Q...701	. . 0	not used	
	Q...702	. . 0	not used	
	Q...703	. . 0	not used	
	Q...704	. . 0	not used	
	R...701	. . 0	not used	
	R...702	. . 0	not used	
	R...703	. . 0	not used	
	R...704	. . 0	not used	
	R...705	. . 0	not used	
	R...706	. . 0	not used	
	R...707	. . 0	not used	
	R...708	. . 0	not used	
	R...709	. . 0	not used	
	R...710	. . 0	not used	
	R...711	. . 0	not used	
	R...712	57.11.3101	100 Ohm 5% 0.25W	
	R...713	57.11.3101	100 Ohm 5% 0.25W	
	R...714	57.11.3101	100 Ohm 5% 0.25W	
	R...715	57.11.3101	100 Ohm 5% 0.25W	
	R...716	57.11.3101	100 Ohm 5% 0.25W	
	R...717	. . 0	not used	
	R...718	. . 0	not used	
	R...719	. . 0	not used	
	R...720	57.11.3101	100 Ohm 5% 0.25W	
	R...721	. . 0	not used	
	R...722	57.11.3101	100 Ohm 5% 0.25W	
	R...723	57.11.3101	100 Ohm 5% 0.25W	
	R...724	. . 0	not used	
	R...725	57.11.3101	100 Ohm 5% 0.25W	
	R...726	57.11.3101	100 Ohm 5% 0.25W	
	R...727	. . 0	not used	
	R...728	. . 0	not used	
	R...729	. . 0	not used	
	R...730	. . 0	not used	
	R...731	. . 0	not used	
	R...732	57.11.3101	100 Ohm 5% 0.25W	
	R...733	57.11.3101	100 Ohm 5% 0.25W	
	R...734	. . 0	not used	
	R...735	. . 0	not used	
	R...736	. . 0	not used	
	R...737	. . 0	not used	
	R...738	. . 0	not used	
	R...739	. . 0	not used	
	R...740	. . 0	not used	
	R...741	. . 0	not used	
	R...742	. . 0	not used	
	R...743	. . 0	not used	
	RZ..701	. . 0	not used	
	RZ..702	. . 0	not used	
	RZ..703	. . 0	not used	
	RZ..704	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..705	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..706	57.88.2101	100 Ohm SIP 8 (4*)	
	RZ..707	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..708	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..709	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..710	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..711	57.88.4104	100 kOhm SIP 9 (8*)	
	RZ..712	57.88.4104	100 kOhm SIP 9 (8*)	
	S...701	. . . 0	not used	
	S...702	55.15.0602	1 * A red/trans.	
	S...703	55.15.0644	1 * A yel/yel	
	S...704	55.15.0605	1 * A grn/trans.	
	S...705	55.15.0604	1 * A yel/trans.	
	S...706	55.15.0605	1 * A grn/trans.	
	S...707	55.15.0602	1 * A red/trans.	
	S...708	55.15.0605	1 * A grn/trans.	
	S...709	55.15.0604	1 * A yel/trans.	
	S...710	55.15.0604	1 * A yel/trans.	
	S...711	55.15.0602	1 * A red/trans.	
	S...712	55.15.0602	1 * A red/trans.	
	S...713	. . . 0	not used	
	S...714	55.15.0604	1 * A yel/trans.	
	S...715	55.15.0605	1 * A grn/trans.	
	S...716	. . . 0	not used	
	S...717	55.15.0622	1 * A red/red	
	S...718	. . . 0	not used	
	S...719	55.15.0604	1 * A yel/trans.	
	S...720	55.15.0605	1 * A grn/trans.	
	S...721	55.15.0604	1 * A yel/trans.	
	S...722	55.15.0605	1 * A grn/trans.	
	S...723	. . . 0	not used	
	S...724	. . . 0	not used	
	S...725	55.15.0602	1 * A red/trans.	
	S...726	55.15.0602	1 * A red/trans.	
	S...727	. . . 0	not used	
	S...728	. . 0	not used	
	S...729	. . 0	not used	
	S...730	. . 0	not used	
	S...731	55.15.0602	1 * A red/trans.	
	S...732	. . . 0	not used	
	S...733	. . 0	not used	
	S...734	. . . 0	not used	
	S...735	55.15.0602	1 * A red/trans.	
	S...736	. . 0	not used	
	S...737	. . 0	not used	
	S...738	. . 0	not used	
	S...739	. . 0	not used	
	S...740	. . 0	not used	
	S...741	. . 0	not used	
	S...742	. . 0	not used	
	S...743	. . 0	not used	
	W...701	. . 0	not used	
	W...702	. . 0	not used	
	W...703	. . 0	not used	
	W...704	. . 0	not used	

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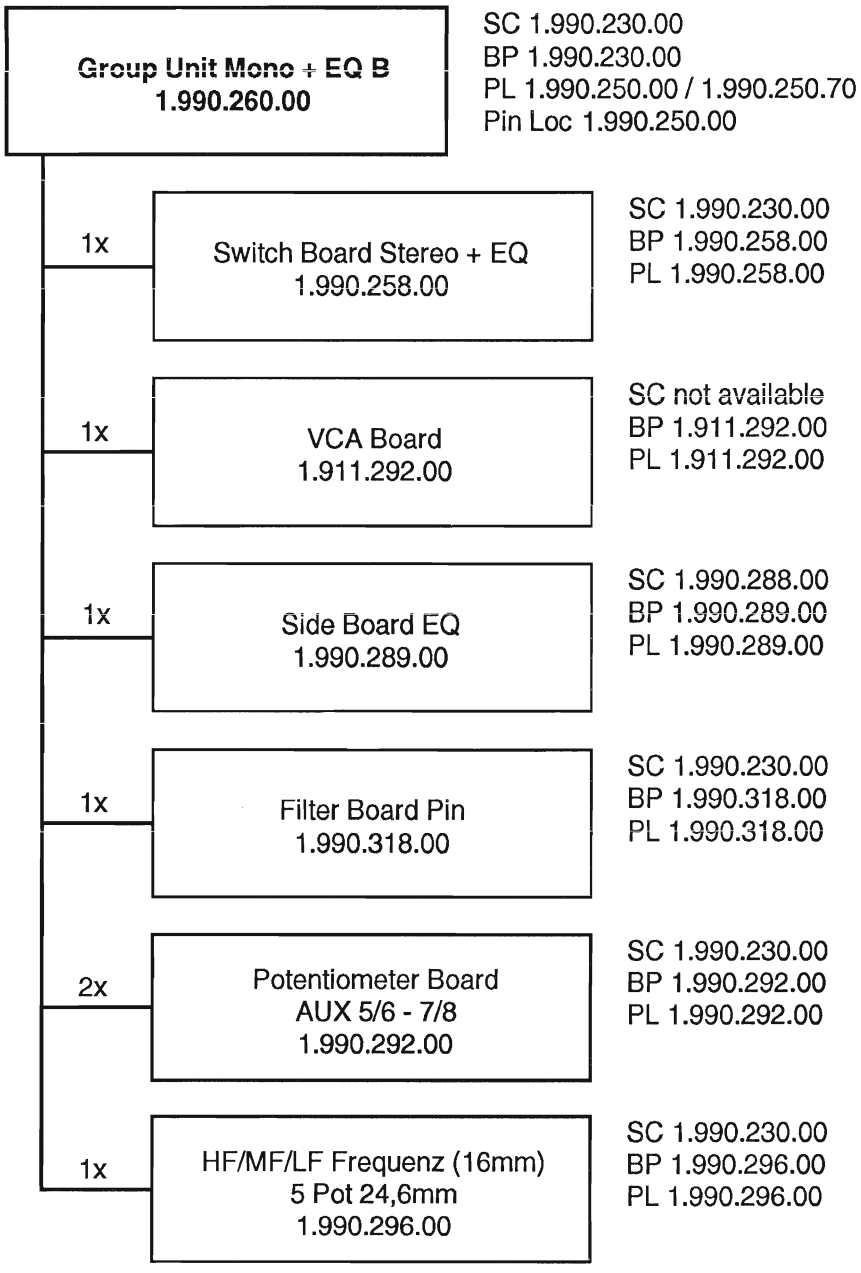
TI=Texas Instrument

1.990.259.00 SWITCH BOARD GROUP TA 90/04/0200

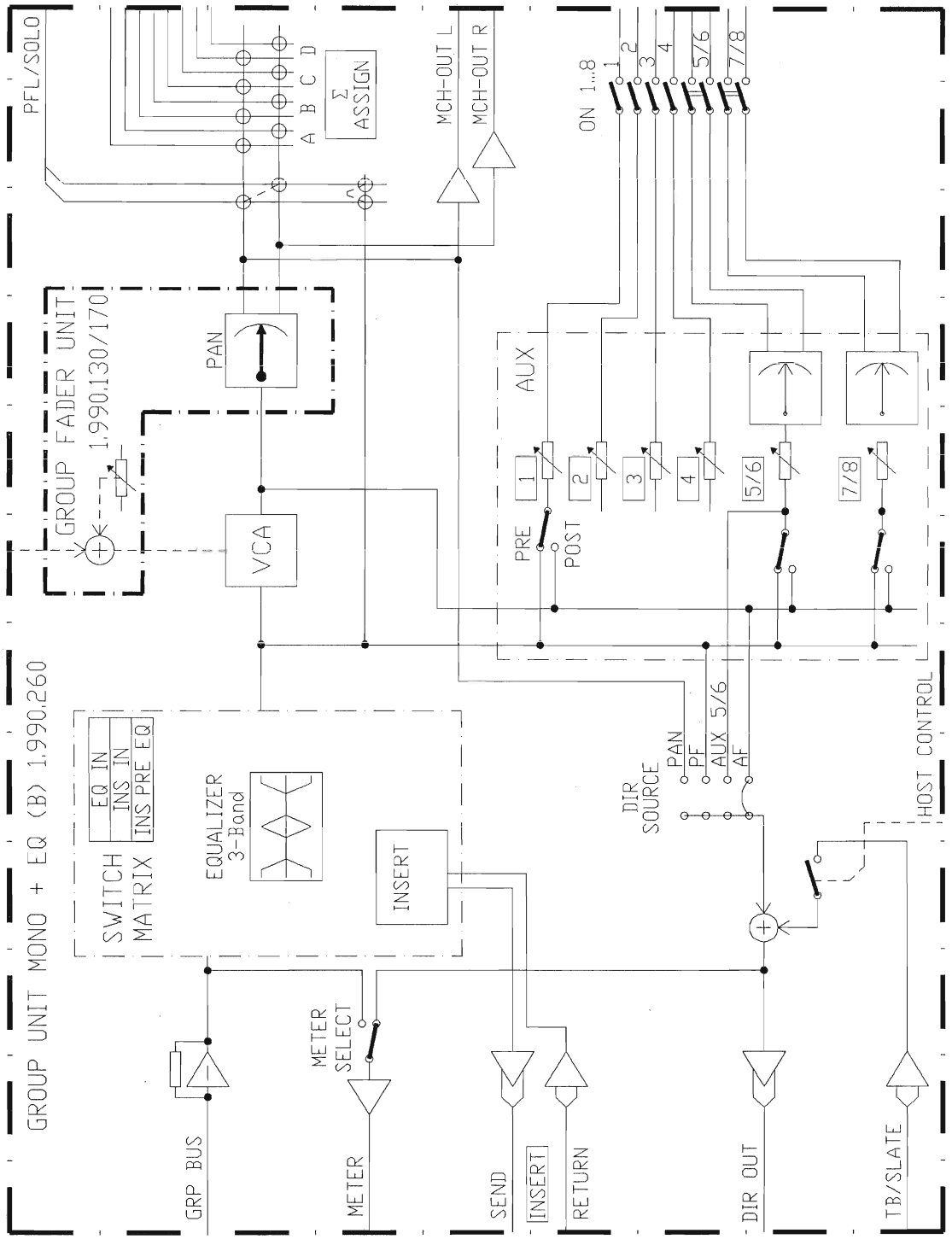
END

Group Unit Mono + EQ B 1.990.260.00

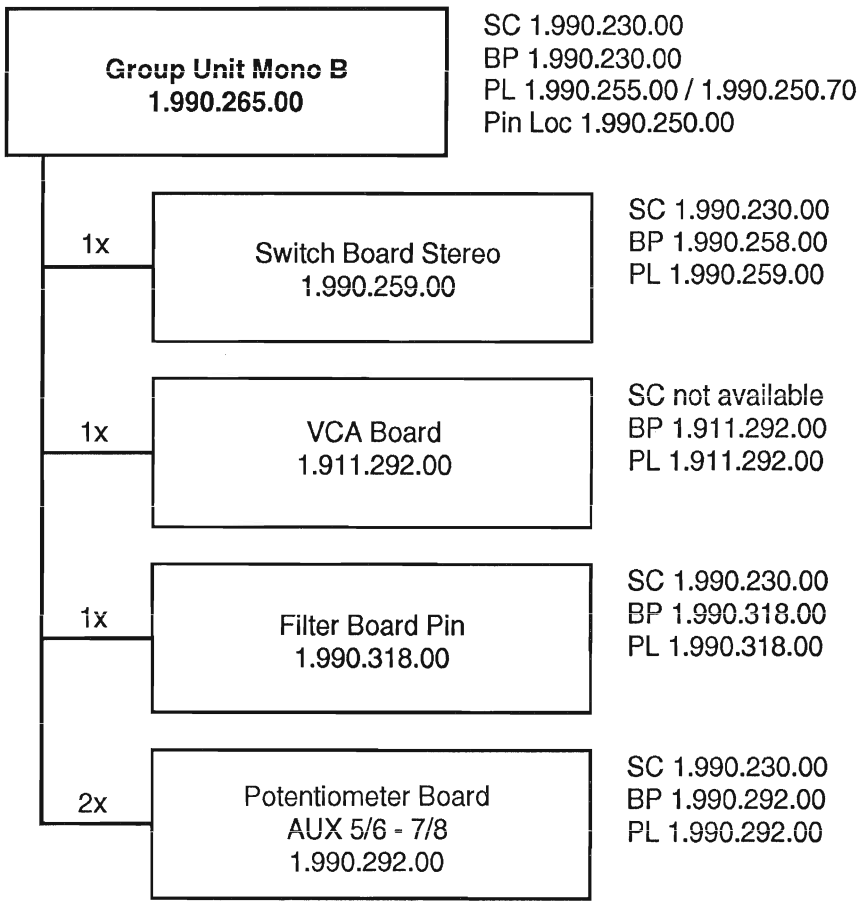


SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

GROUP UNIT MONO+EQ B 1.990.260.00

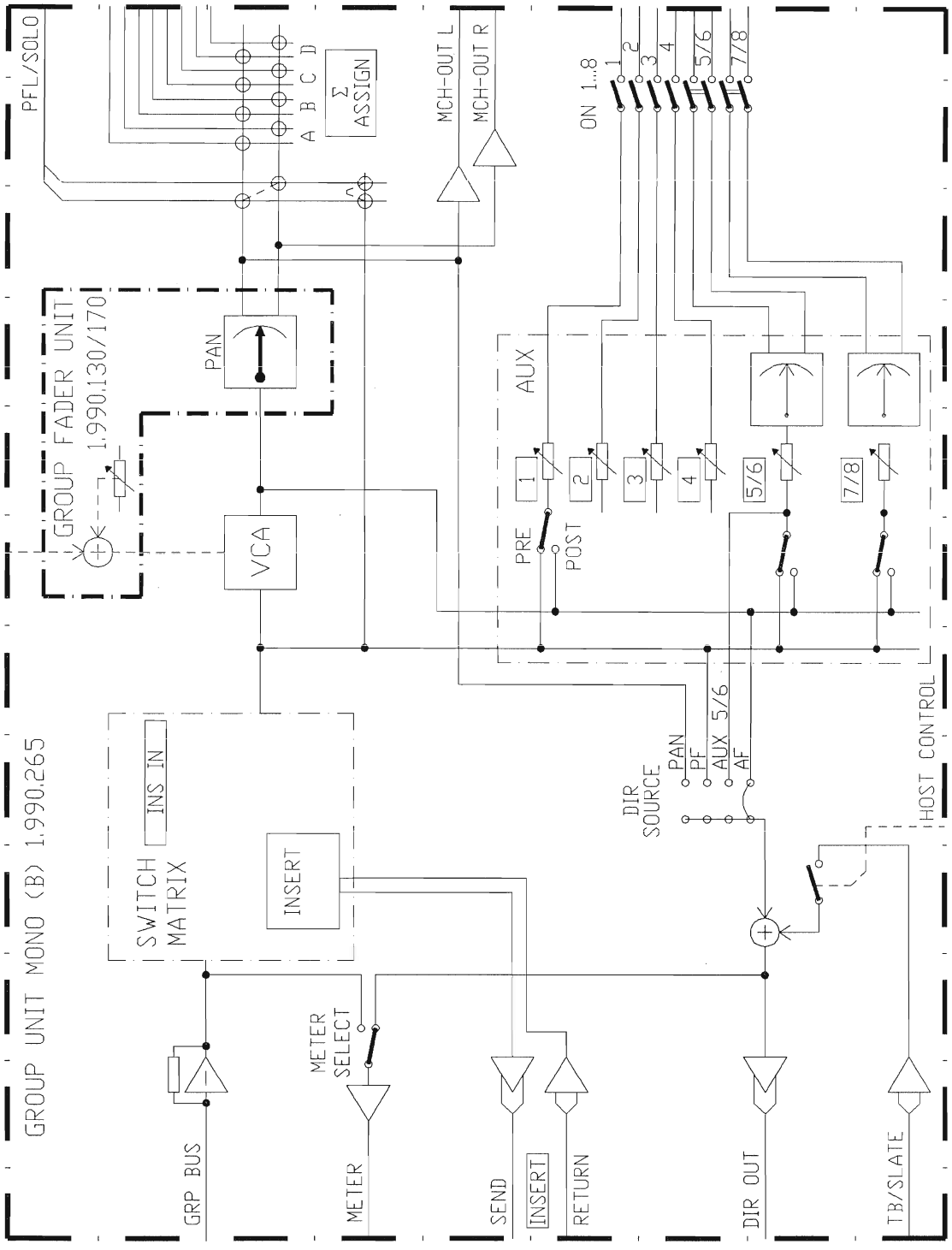


Group Unit Mono B 1.990.265.00

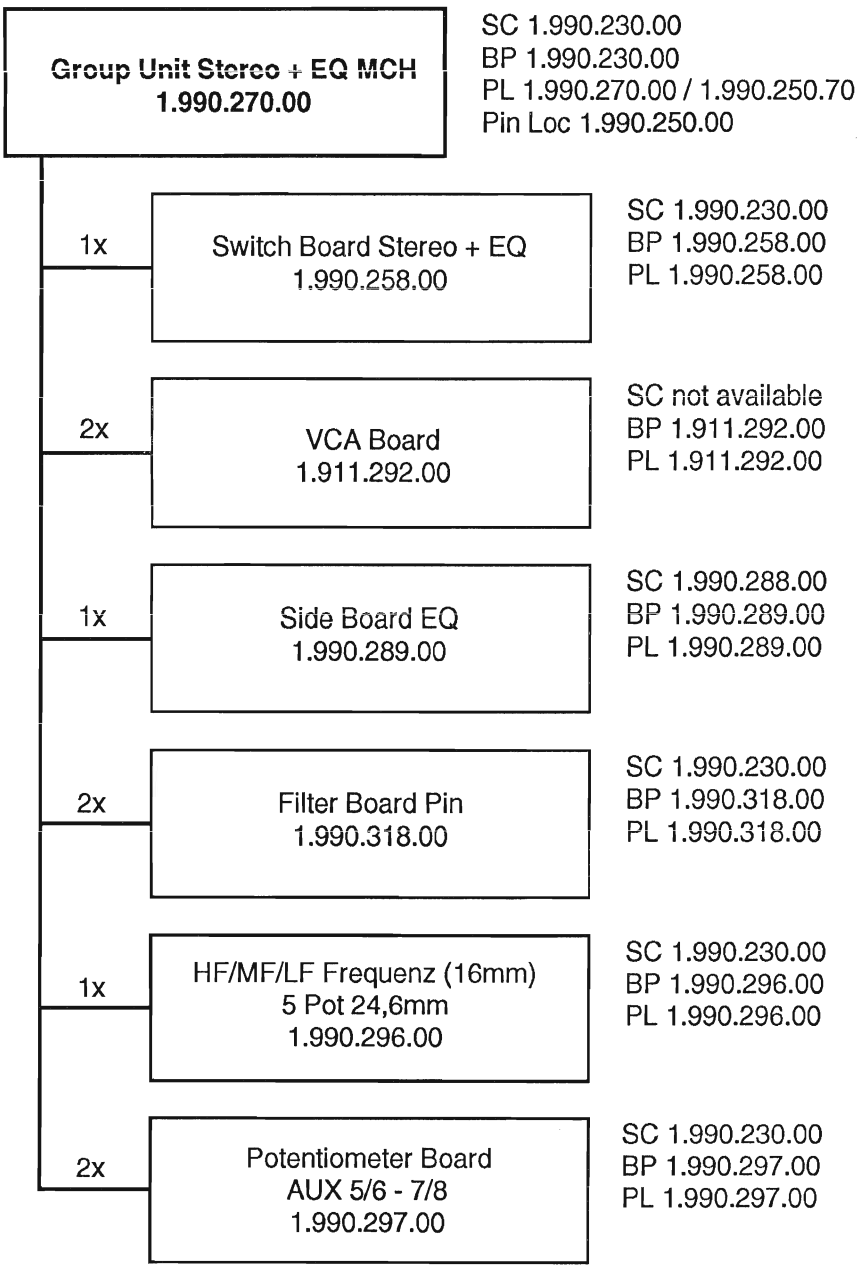


SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

GROUP UNIT MONO B 1.990.265.00

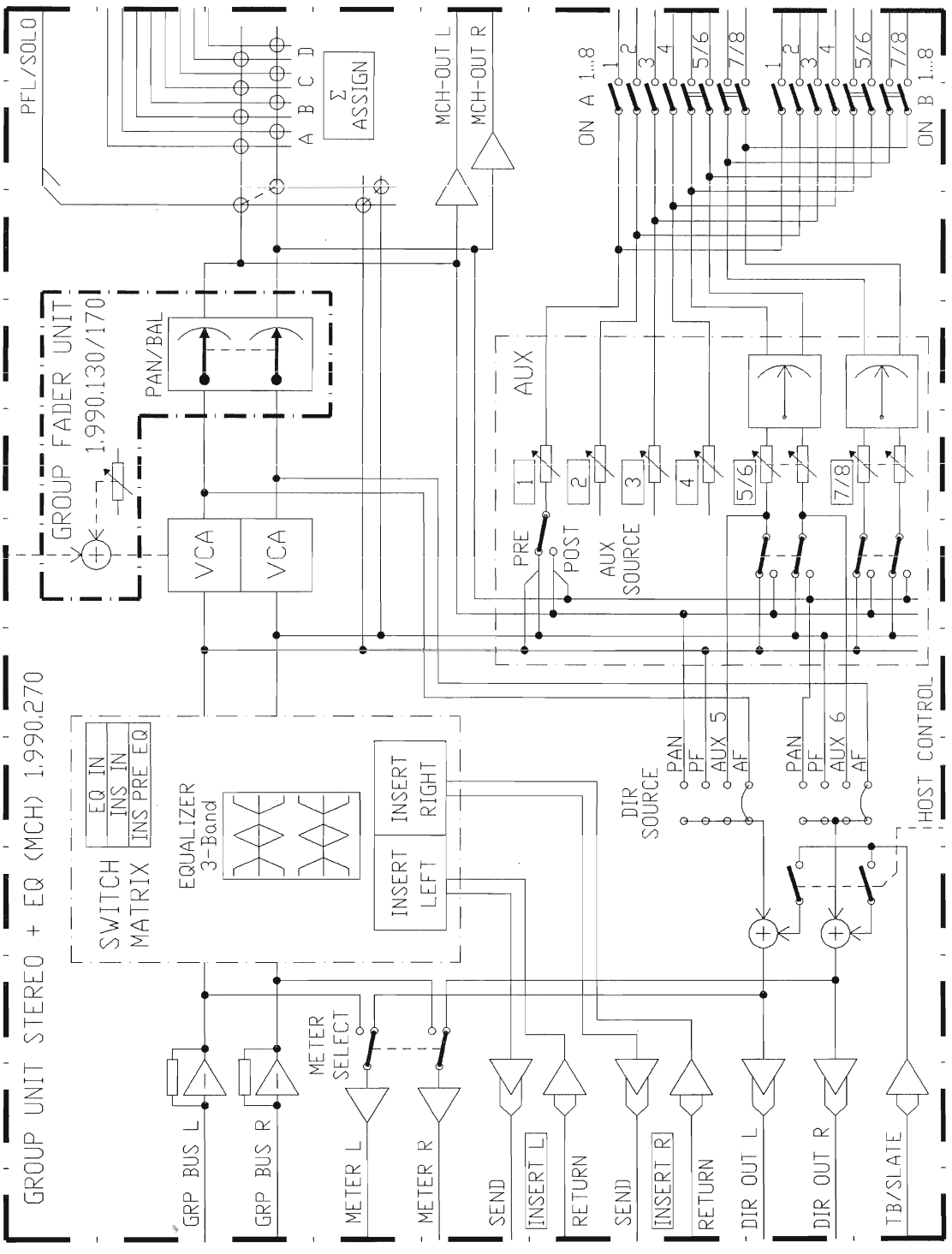


Group Unit Stereo + EQ MCH 1.990.270.00



SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

GROUP UNIT STEREO+EQ MCH 1.990.270.00



GROUP UNIT STEREO + EQ 1.990.270.00

Ad	..POS..	...REF.No...		DESCRIPTION.....MANUFACTURER
	A.....2	1.990.258.00		SWITCH BOARD GROUP +EQ St
	A.....7	1.990.296.00		3*5 POT. 24.6MM BOARD St
	A....11	1.990.250.94		KL GROUP UNIT St
	A....12	1.990.289.00		SIDE BOARD EQ ,A St
	A....14	1.990.297.00		6 POT. 10MM BOARD St B6
	A....15	1.990.297.00		6 POT. 10MM BOARD St A6
	A....16	1.990.318.00		FILTER BOARD PIN St N3
	A....70	1.990.250.70		GROUP UNIT VORMONTIERT ,A St
	A...301	1.911.292.00		VCA St G3
	A...316	1.990.318.00		FILTER BOARD PIN St N4
	C....77	. .	4700 pF	59.05.2472 on 1.990.296
	C....93	. .	100 uF	59.22.3101 on 1.990.296
	C...377	. .	4700 pF	59.05.2472 on 1.990.296
	C...393	. .	100 uF	59.22.3101 on 1.990.296
	IC...13	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA I4
	IC...15	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA G4
	IC...16	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA F4
	IC...19	50.09.0117	MC33078P	dual op. amp. low noise Mot F3
	IC...25	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA H4
	IC...34	50.09.0117	MC33078P	dual op. amp. low noise Mot B4
	IC...69	50.07.0015	CD4053	3 * 2 channel analog mux/demux Ph,Mot,RCA H6
	IC...75	. . 0	not used	see option 1 H1
	IC..311	50.09.0117	MC33078P	dual op. amp. low noise Mot M5
	IC..317	50.09.0117	MC33078P	dual op. amp. low noise Mot K3
	IC..318	50.09.0101	TL072	dual op. amp. FET TI K3
	IC..328	50.09.0106	5532AN	dual op. amp. low noise Sig,Ra H3
	IC..329	50.09.0117	MC33078P	dual op. amp. low noise Mot E3
	IC..370	50.09.0117	MC33078P	dual op. amp. low noise Mot N5
	IC..372	50.09.0106	5532AN	dual op. amp. low noise Sig,Ra K1
	IC..813	50.07.0049	4049	hex inverting buffer CMOS Ph,To D8
	IC..814	50.07.0049	4049	hex inverting buffer CMOS Ph,To E9
	IC..835	50.07.0051	CD4051	8-channel analog mux/demux Ph,Mot,RCA G8
	IC..836	50.07.0051	CD4051	8-channel analog mux/demux Ph,Mot,RCA G9
	MP...17	1.010.100.58	3 pcs	Masseblech zu Preh-Pot Type 12
	MP...18	22.99.0137	3 pcs	6-Kt. Mutter M7*0.75
	MP...19	23.99.0122	3 pcs	U-Scheibe D 7.1/12*0.5
	MP...21	1.990.200.05	3 pcs	Poti-Achsverlaengerung
	MP...23	1.010.111.65	1 pcs	Schrumpfschlauch
	MP...24	1.010.109.64	1 pcs	gelber Draht l = 38mm
	MP...26	21.01.0279	5 pcs	Z-Schr. M2.5*6
	MP...27	24.16.1025	5 pcs	Rippenscheibe D 2.7 / 5
01	MP...27	24.16.1025	8 pcs	Rippenscheibe D 2.7 / 5
	MP...28	21.01.2352	6 pcs	S-Schr. M3*4
	MP...29	24.16.3023	2 pcs	Wellensicherung 2.3
	MP...30	42.01.0203	2 pcs	Drehknopf gr, D 10/4
	MP...31	42.01.0228	10 pcs	Knebelknopf gr, D 10/4
	MP...32	42.01.0250	4 pcs	Deckel h'gr, D 10
	MP...33	42.01.0251	4 pcs	Deckel d'gr, D 10
	MP...34	42.01.0253	1 pcs	Deckel rt, D 10
	MP...35	42.01.0254	1 pcs	Deckel bl, D 10
	MP...36	42.01.0255	1 pcs	Deckel gb, D 10
	MP...37	42.01.0256	1 pcs	Deckel gn, D 10
	MP...38	1.010.022.21	2 pcs	Linsenschr. spez M3*8
	MP...39	1.010.221.27	1 pcs	Mutterbolzen M2.5*10.5
	MP...40	1.912.000.03	2 pcs	Drehring D 6.2/13
	MP...41	1.990.200.03	1 pcs	Schirmblech Input
	MP...42	1.990.210.02	1 pcs	Traeger Input
	MP...44	1.990.250.01	1 pcs	Frontschild Input (1.990260.01 -> BG 280!)
	MP...45	1.990.289.02	1 pcs	Isolation Side Board
01	MP...47	1.990.289.01	1 pcs	Schirmblech SIDE BOARD
01	MP...48	1.010.208.27	3 pcs	Mutterbolzen M2.5x14mm
	P....21	. .	26 pol	1/20" 54.14.2003 on 1.990.296
	P....22	. .	26 pol	1/20" 54.14.2003 on 1.990.296
	R...102	1.010.107.58	4.7 kOhm	10% lin. comb.with R402/857 St G7
	R...104	1.010.107.58	4.7 kOhm	10% lin. comb.with R404/853 St F7
	R...106	1.010.107.58	4.7 kOhm	10% lin. comb.with R406/855 St E7
	R...109	. .	100 kOhm	10% neg.log. 1.010.030.58 on 1.990.296
	R...110	. .	100 kOhm	10% neg.log. see R 109 on 1.990.296
	R...111	. .	3.9 kOhm	57.11.3392 on 1.990.296
	R...112	. .	1 MOhm	57.11.3105 on 1.990.296
	R...113	. .	4.7 kOhm	57.11.3472 on 1.990.296
	R...114	. .	100 kOhm	10% neg.log. 1.010.030.58 on 1.990.296
	R...115	. .	100 kOhm	10% neg.log. see R 114 on 1.990.296
	R...116	. .	100 kOhm	10% neg.log. 1.010.030.58 on 1.990.296
	R...117	. .	100 kOhm	10% neg.log. see R 116 on 1.990.296
	R...118	. .	4.7 kOhm	57.11.3472 on 1.990.296
	R...182	. .	4.7 kOhm	10% +log.comb.withR183/482/483/844/846 B6
	R...183	. .	10 kOhm	10% +log.see R 182 1.010.035.58 on A 14 B6
	R...186	. .	4.7 kOhm	10% +log.comb.withR187/486/487/845/847 A6
	R...187	. .	10 kOhm	10% +log.see R 186 1.010.035.58 on A 15 A6

Ad	..POS..	...REF.No...		DESCRIPTION.....MANUFACTURER
	R...203	. . 0	not used	see option 2 N6
	R...402	. .	4.7 kOhm 10% lin.	see R 102 G6
	R...404	. .	4.7 kOhm 10% lin.	see R 104 F6
	R...406	. .	4.7 kOhm 10% lin.	see R 106 E6
	R...409	. .	100 kOhm 10% neg.log.	see R 109 on 1.990.296
	R...410	. .	100 kOhm 10% neg.log.	see R 109 on 1.990.296
	R...411	. .	3.9 kOhm	57.11.3392 on 1.990.296
	R...412	. .	1 MOhm	57.11.3105 on 1.990.296
	R...413	. .	4.7 kOhm	57.11.3472 on 1.990.296
	R...414	. .	100 kOhm 10% neg.log.	see R 114 on 1.990.296
	R...415	. .	100 kOhm 10% neg.log.	see R 114 on 1.990.296
	R...416	. .	100 kOhm 10% neg.log.	see R 116 on 1.990.296
	R...417	. .	100 kOhm 10% neg.log.	see R 116 on 1.990.296
	R...418	. .	4.7 kOhm	57.11.3472 on 1.990.296
	R...447	57.11.3823	82 kOhm 1% 0.25W	F3
	R...482	. .	4.7 kOhm 10% pos.log.	see R 182 B5
	R...483	. .	10 kOhm 10% neg.log.	see R 182 B6
	R...486	. .	4.7 kOhm 10% pos.log.	see R 186 A5
	R...487	. .	10 kOhm 10% neg.log.	see R 186 A6
	R...844	. .	100 kOhm 20% lin.	see R 182 B7
	R...845	. .	100 kOhm 20% lin.	see R 186 A6
	R...846	. .	100 kOhm 20% lin.	see R 182 B6
	R...847	. .	100 kOhm 20% lin.	see R 186 A7
	R...852	. .	100 kOhm 20% lin.	see R 114 on 1.990.296
	R...853	. .	100 kOhm 20% lin.	see R 104 F7
	R...854	. .	100 kOhm 20% lin.	see R 116 on 1.990.296
	R...855	. .	100 kOhm 20% lin.	see R 106 E7
	R...857	. .	100 kOhm 20% lin.	see R 102 G7
	R...858	. .	100 kOhm 20% lin.	see R 109 on 1.990.296
	W...110	. .	0 Ohm	57.11.3000 on 1.990.296
	W...111	. .	0 Ohm	57.11.3000 on 1.990.296

>> POSLST 1.990.270 gilt auch fuer BG 1.990.280.xx (B - Version) <<

Die files zu dieser POSLST heissen #990270A,B

Die posliste 1.990.250.70 ist in den files #990250S,T

* *

OPTIONS : SEE OPTIONLIST 1.990.230.00
****

option 1 :.....multichannel out
option 2 :.....output trim

* *

HISTORY
****

09.01.91 - Verbesserung Rauschabstand vom Insert Send

30.01.91 - Poslisten-Bereinigung ==> ZAB

12.02.91 (01) Erleichterung Fertigung und Pruefung (Schirmblech und Mutterbolzen zu EQ werden erst am Schluss montiert)

* *

Die Koordinaten bei Manuf. beziehen sich auf Bestueckplan

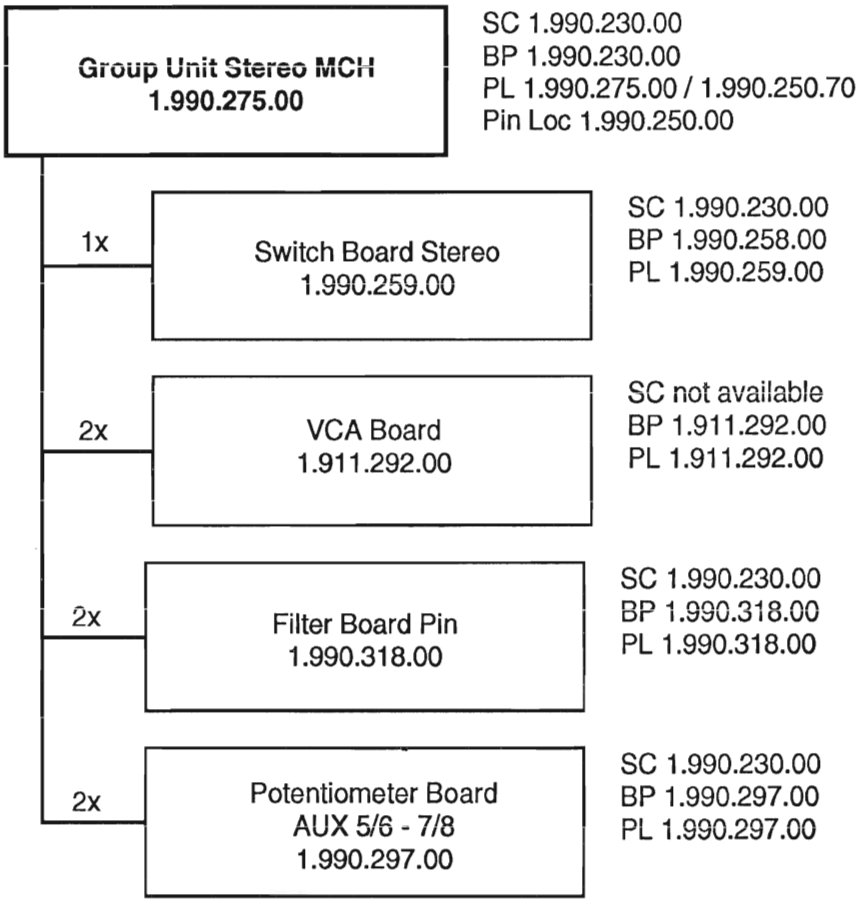
CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

MANUFACTURER: ADI=Aanalog Devices Inc., Bu=Burndy, El=Elco, Ex=Exar, Fc=Fairchild, Fe=Ferranti, GI=General Instrument, Ha=Har HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=N {Matsushita), NS=National Semiconductors, Ph=Philips, PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Co America, SDS=SDS-Relais, Sie=Siemens, Six=Siliconix, St= Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaich

1.990.270.00 GROUP UNIT STEREO + EQ AB 91/01/3000

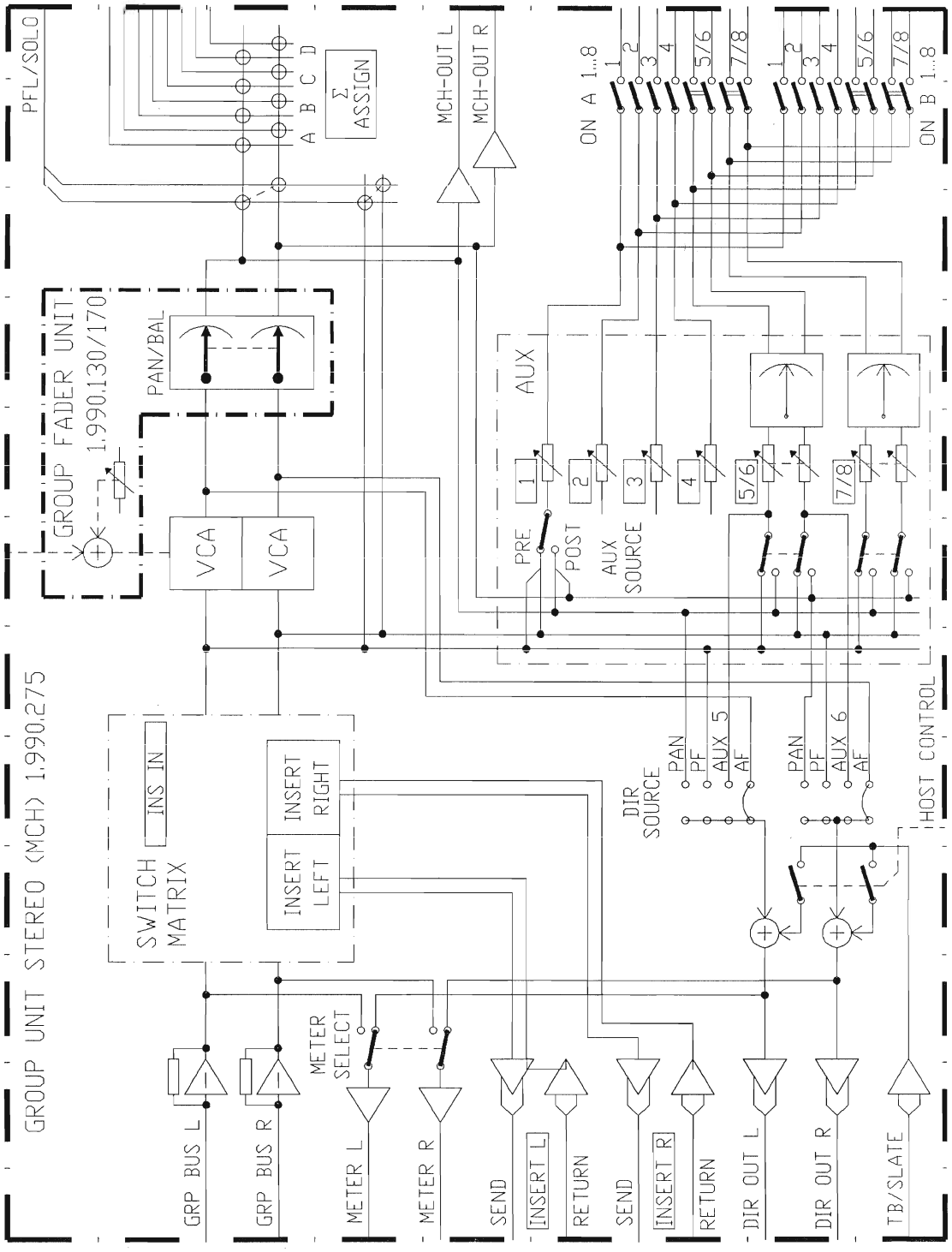
1.990.270.00 GROUP UNIT STEREO + EQ AB 91/02/1201

Group Unit Stereo MCH 1.990.275.00



SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

GROUP UNIT STEREO MCH 1.990.275.00



GROUP UNIT STEREO 1.990.275.00

Ad	..POS..	...REF.No...	DESCRIPTION.....MANUFACTURER			
A	2	1.990.259.00	SWITCH BOARD GROUP		St	
A	11	1.990.250.94	KL GROUP UNIT		St	
A	14	1.990.297.00	6 POT. 10MM BOARD		St	B6
A	15	1.990.297.00	6 POT. 10MM BOARD		St	A6
A	16	1.990.318.00	FILTER BOARD PIN		St	N3
A	70	1.990.250.70	GROUP UNIT VORMONTIERT	,A	St	
A	...301	1.911.292.00	VCA		St	G3
A	...316	1.990.318.00	FILTER BOARD PIN		St	N4
IC	...13	50.07.0015	CD4053	3 * 2 channel analog mux/demux	Ph,Mot,RCA	I4
IC	...25	50.07.0015	CD4053	3 * 2 channel analog mux/demux	Ph,Mot,RCA	H4
IC	...34	50.09.0117	MC33078P	dual op. amp. low noise	Mot	B4
IC	...69	50.07.0015	CD4053	3 * 2 channel analog mux/demux	Ph,Mot,RCA	M6
IC	...75	. . 0	not used	see option 1		H1
IC	...311	50.09.0117	MC33078P	dual op. amp. low noise	Mot	M5
IC	..317	50.09.0117	MC33078P	dual op. amp. low noise	Mot	K3
IC	..318	50.09.0101	TL072	dual op. amp. FET	TI	K3
IC	..328	50.09.0106	5532AN	dual op. amp. low noise	Sig,Ra	H3
IC	..329	50.09.0117	MC33078P	dual op. amp. low noise	Mot	E3
IC	..370	50.09.0117	MC33078P	dual op. amp. low noise	Mot	N5
IC	..372	50.09.0106	5532AN	dual op. amp. low noise	Sig,Ra	K1
IC	..835	. . 0	not used	see option 2		G8
MP	...23	1.010.111.65	1 pcs	Schrumpfschlauch		
MP	...24	1.010.109.64	1 pcs	gelber Draht l = 38mm		
MP	...28	21.01.2352	6 pcs	S-Schr. M3*4		
MP	...29	24.16.3023	2 pcs	Wellensicherung 2.3		
MP	...30	42.01.0203	2 pcs	Drehknopf gr, D 10/4		
MP	...31	42.01.0228	4 pcs	Knebelknopf gr, D 10/4		
MP	...32	42.01.0250	1 pcs	Deckel h'gr, D 10		
MP	...33	42.01.0251	1 pcs	Deckel d'gr, D 10		
MP	...34	42.01.0253	1 pcs	Deckel rt, D 10		
MP	...35	42.01.0254	1 pcs	Deckel bl, D 10		
MP	...36	42.01.0255	1 pcs	Deckel gb, D 10		
MP	...37	42.01.0256	1 pcs	Deckel gn, D 10		
MP	...38	1.010.022.21	2 pcs	Linsenschr. spez M3*8		
MP	...40	1.912.000.03	2 pcs	Drehring D 6.2/13		
MP	...41	1.990.200.03	1 pcs	Schirmblech Input		
MP	...42	1.990.210.02	1 pcs	Traeger Input		
MP	...44	1.990.255.01	1 pcs	Frontschild Input (1.990265.01 -> BG 285!)		
R	...182	. .	4.7 kOhm	10% +log.comb.withR183/482/483/844/846		B6
R	...183	. .	10 kOhm	10% +log.see R 182 1.010.035.58 on A 14		B6
R	...186	. .	4.7 kOhm	10% +log.comb.withR187/486/487/845/847		A6
R	...187	. .	10 kOhm	10% +log.see R 186 1.010.035.58 on A 15		A6
R	...203	. . 0	not used	see option 2		N6
R	...447	57.11.3823	82 kOhm	1% 0.25W		F3
R	...482	. .	4.7 kOhm	10% pos.log. see R 182		B5
R	...483	. .	10 kOhm	10% neg.log. see R 182		B6
R	...486	. .	4.7 kOhm	10% pos.log. see R 186		A5
R	...487	. .	10 kOhm	10% neg.log. see R 186		A6
R	...844	. .	100 kOhm	20% lin. see R 182		B7
R	...845	. .	100 kOhm	20% lin. see R 186		A6
R	...846	. .	100 kOhm	20% lin. see R 182		B6
R	...847	. .	100 kOhm	20% lin. see R 186		A7

>> POSLST 1.990.275 gilt auch fuer BG 1.990.285.xx (B - Version) <<

Die files zu dieser POSLST heissen #990275A,B

Die posliste 1.990.250.70 ist in den files #990250S,T

* *

OPTIONS : SEE OPTIONLIST 1.990.230.00
****

option 1 :.....multichannel out
option 2 :.....output trim

* *

HISTORY
****

09.01.91 - Verbesserung Rauschabstand vom Insert Send

30.01.91 - Poslisten-Bereinigung ==> ZAB

* *

Die Koordinaten bei Manuf. beziehen sich auf Bestueckplan

CE=Ceramic, CF=Carbon Film, EL=Electrolytic, MF=Metal Film,
PE=Polyester, PP=Polypropylen, PS=Polystyrol

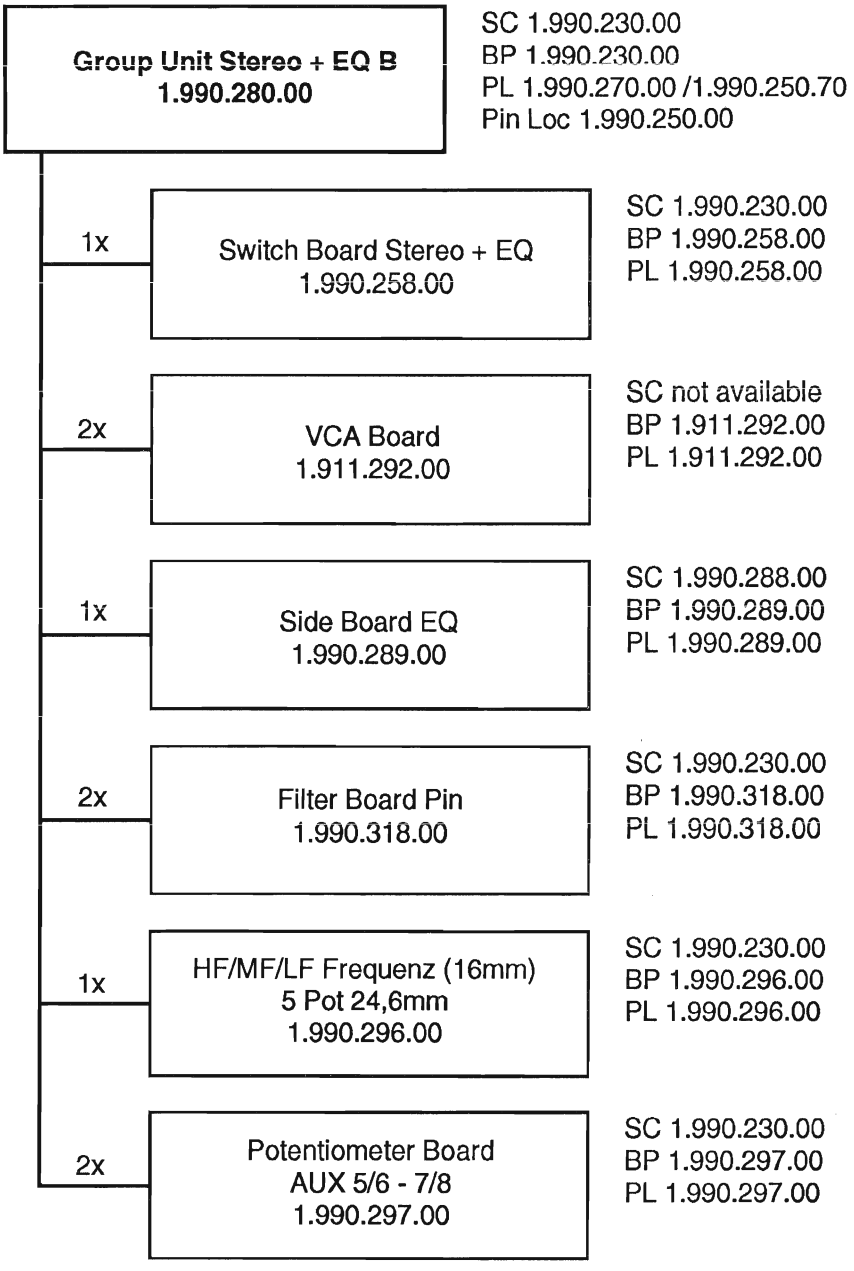
MANUFACTURER: ADI=Aanalog Devices Inc., Bu=Burndy, El=Elco, Ex=Exar,
Fc=Fairchild, Fe=Ferranti, GI=General Instrument, Ha=Har
HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=N
{Matsushita}, NS=National Semiconductors, Ph=Philips,
PMI=Precision Monolitics Inc., Ra=Raytheon, RCA=Radio Co

America, SDS=SDS-Relais, Sie=Siemens, Six=Siliconix, St=
Tho=Thomson, To=Toshiba, TI=Texas Instrument, Ya=Yamaich

1.990.275.00 GROUP UNIT STEREO AB 91/01/3000

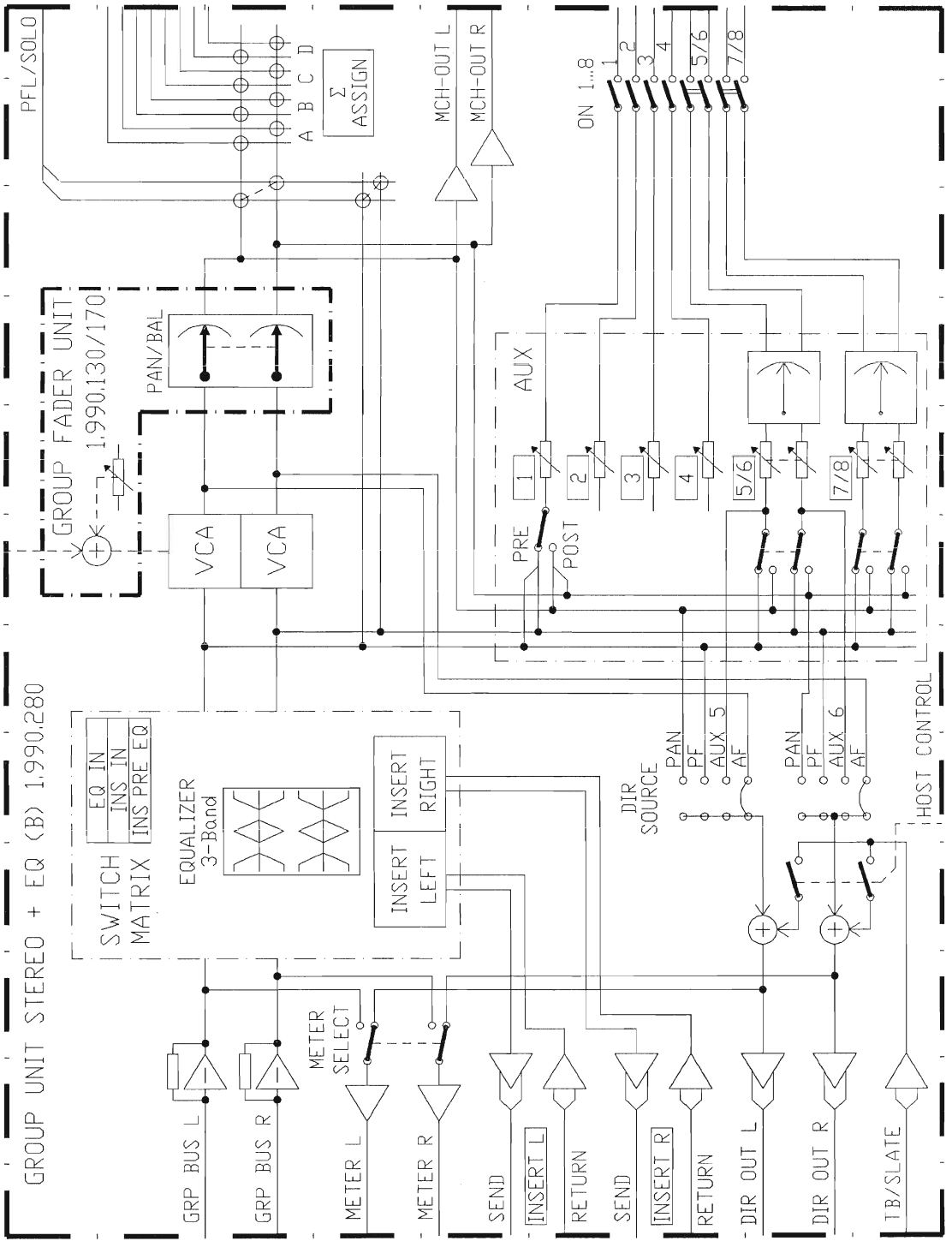
END

Group Unit Stereo + EQ B 1.990.280.00

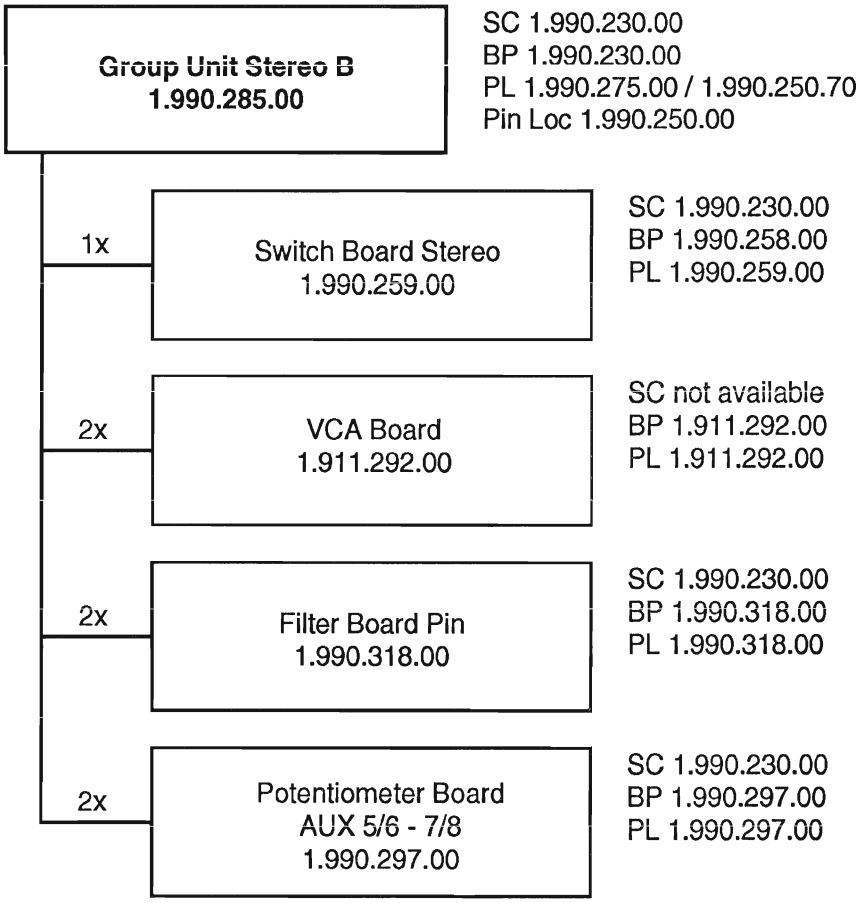


SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

GROUP UNIT STEREO+EQ B 1.990.280.00

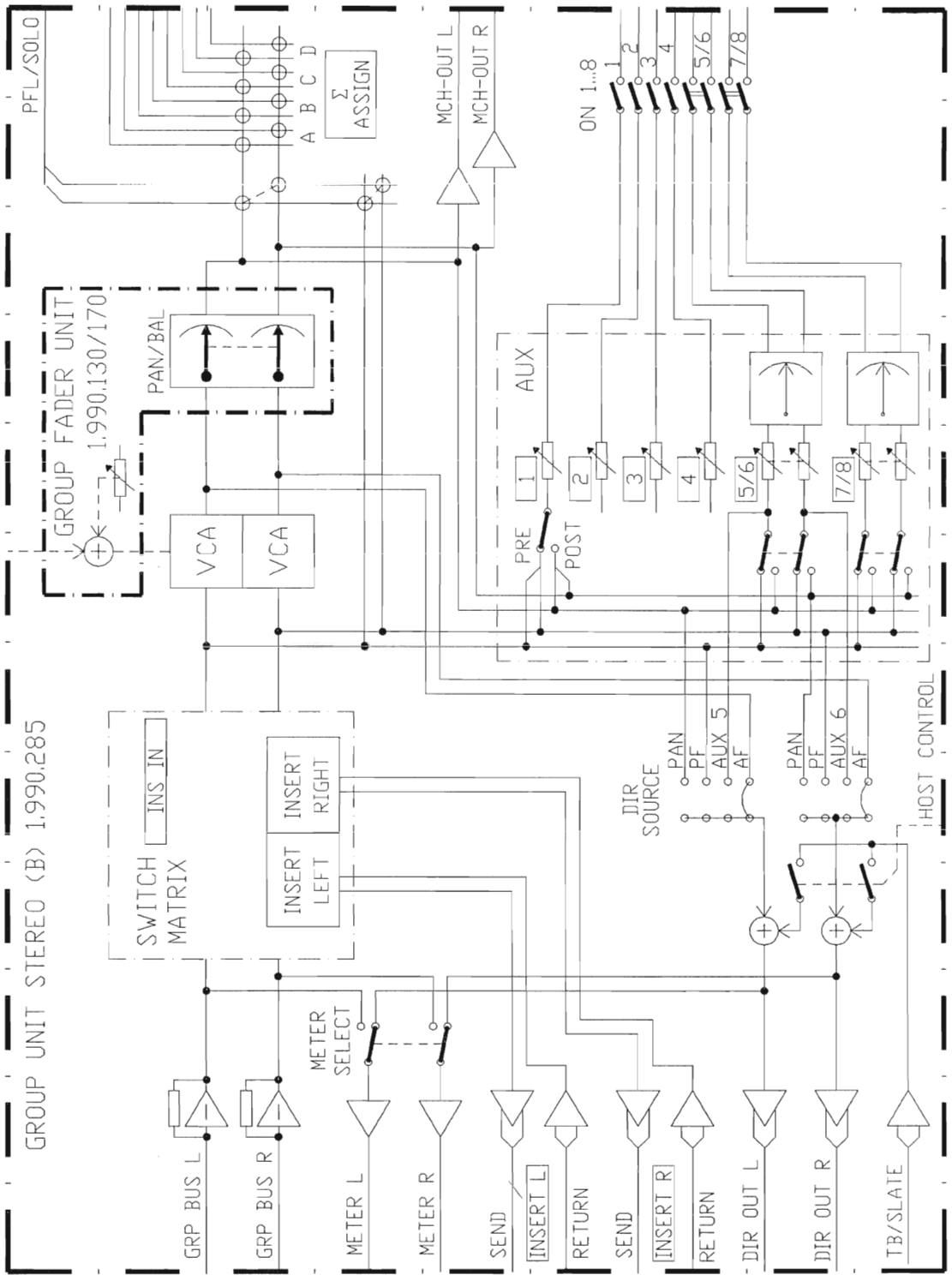


Group Unit Stereo B 1.990.285.00

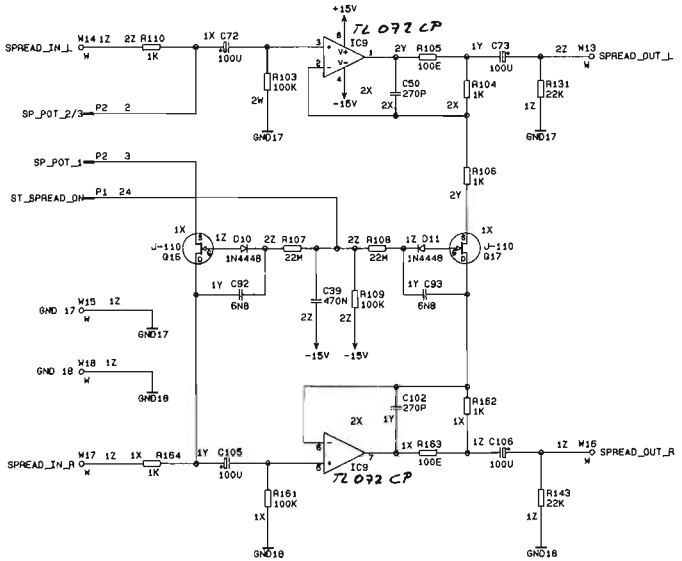


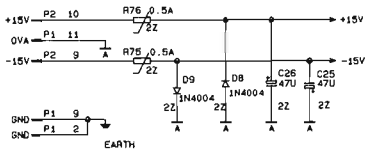
SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

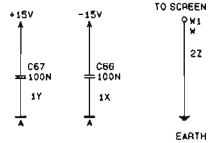
GROUP UNIT STEREO B 1.990.285.00

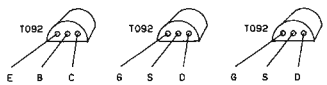


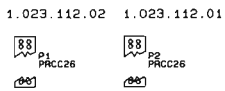
SIDE BOARD EQ+MIC. AMP. 1.990.288.00







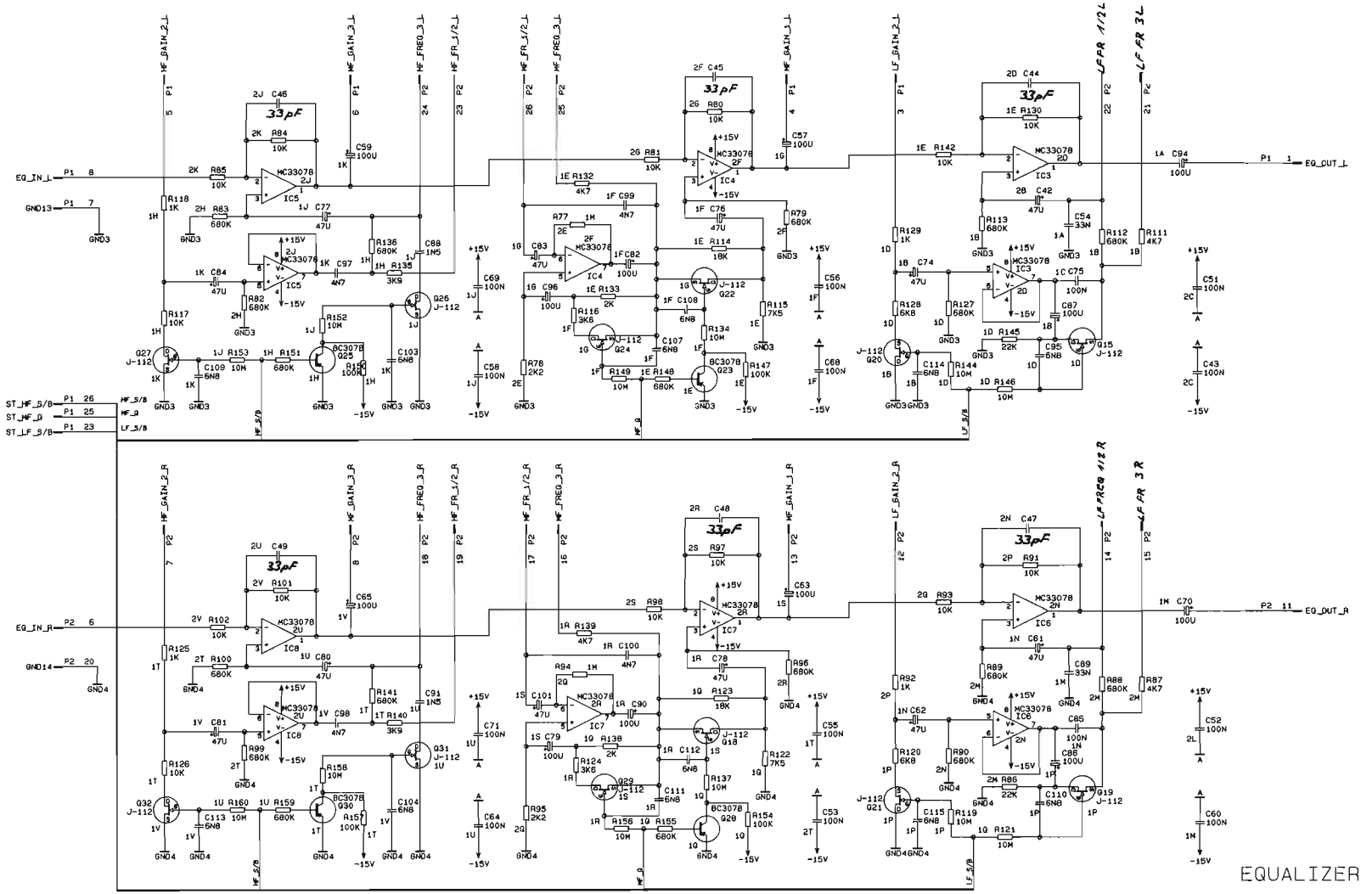




SPREAD

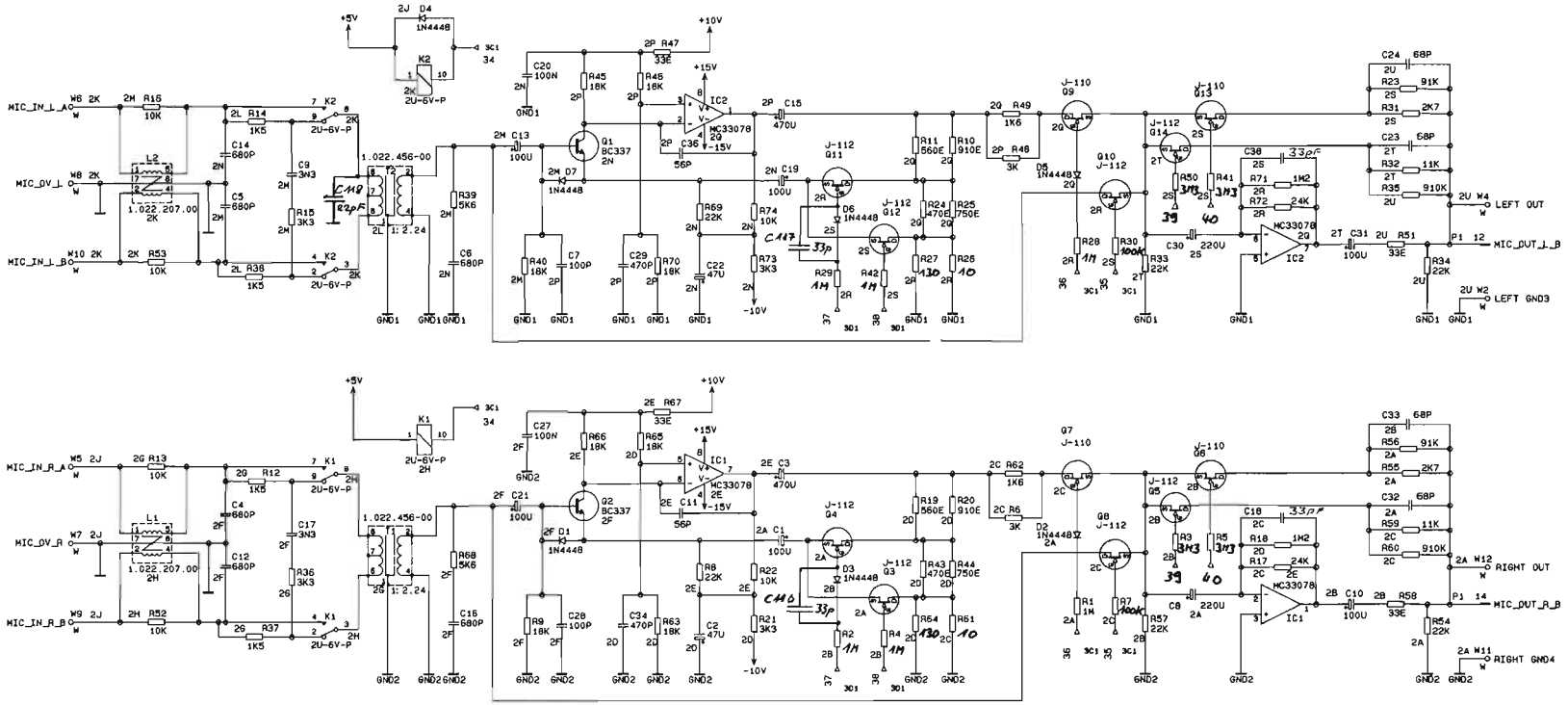
⓪ 24.04.90 SCA	① 11.07.90 SCA	② 14.09.90 SCA	③ 15.1.91 SCA	④ 12.2.91 SCA
	MIXING CONSOLE 990			PAGE 1 OF 3
STUDER	SIDE BOARD EQ+MIC.AMP.		SC	1.990.288-00

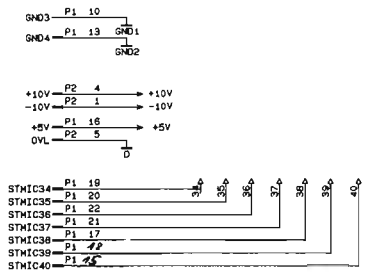
SIDE BOARD EQ+MIC. AMP. 1.990.288.00

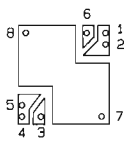


⓪ 24.04.90 SCA	① 11.07.90 SCA	② 16.09.90 SCA	③ 15.1.91 SCA	④ 12.2.91 SCA
	MIXING CONSOLE 990			PAGE 2 OF 3
STUDER	SIDE BOARD EQ+MIC.AMP.		SC	1.990.288-00

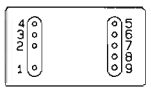
SIDE BOARD EQ+MIC. AMP. 1.990.288.00



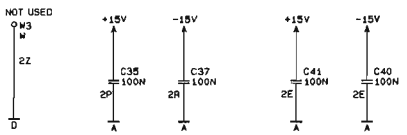




1.022.207.00



1.022.456.00

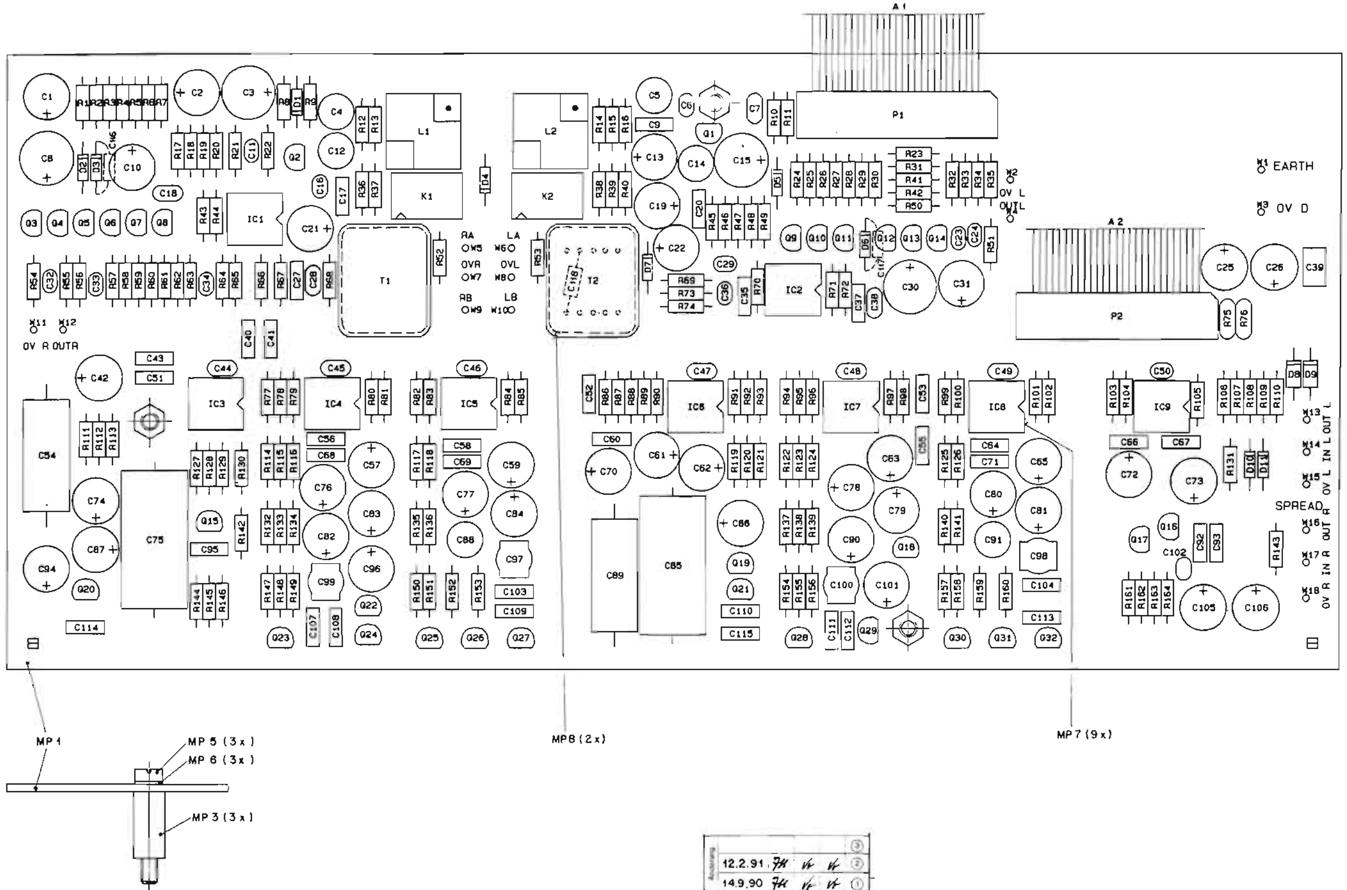


MIC. AMPLIFIER

⓪ 24.04.90 SCA	① 11.07.90 SCA	② 16.09.90 SCA	③ 15.1.91 SCA	④ 12.2.91 SCA
	MIXING CONSOLE 990			PAGE 3 OF 3
STUDER	SIDE BOARD EQ+MIC. AMP.		SC	1.990.288-00

SIDE BOARD EQ+MIC. AMP. ESE

1.990.288.00



Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	A.....1	1.023.112.01	26-wire RIBBON CABLE 0,06 m (einseitige Zugsentl.)	
	A.....2	1.023.112.02	26-wire RIBBON CABLE 0,10 m (einseitige Zugsentl.)	
	C.....1	59.22.4101	100 u 16 V, 20%,	
	C.....2	59.22.4470	47 u 16 V, 20%,	
	C.....3	59.22.2471	470 u 6.3 V, 20%,	
	C.....4	59.05.1681	680 p 630 V, 1%,	
	C.....5	59.05.1681	680 p 630 V, 1%,	
	C.....6	59.32.2681	680 p 50 V, 10%,	
	C.....7	59.32.1101	100 p 400 V, 10%,	
	C.....8	59.22.4221	220 u 16 V, 20%,	
	C.....9	59.06.0332	3.3 n 63 V, 10%,	
	C....10	59.22.4101	100 u 16 V, 20%,	
	C....11	59.34.4560	56 p 63 V, 5%, N750	
	C....12	59.05.1681	680 p 630 V, 1%,	
	C....13	59.22.4101	100 u 16 V, 20%,	
	C....14	59.05.1681	680 p 630 V, 1%,	
	C....15	59.22.2471	470 u 6.3 V, 20%,	
	C....16	59.32.2681	680 p 50 V, 10%,	
	C....17	59.06.0332	3.3 n 63 V, 10%,	
	C....18	59.32.1101	100 p 400 V, 10%,	
01	C....18	59.34.2330	33 p 63 V, 5%,	
	C....19	59.22.4101	100 u 16 V, 20%,	
	C....20	59.06.0104	100 n 63 V, 10%,	
	C....21	59.22.4101	100 u 16 V, 20%,	
	C....22	59.22.4470	47 u 16 V, 20%,	
	C....23	59.34.4680	68 p 63 V, 5%, N750	
	C....24	59.34.4680	68 p 63 V, 5%, N750	
	C....25	59.22.4470	47 u 16 V, 20%,	
	C....26	59.22.4470	47 u 16 V, 20%,	
	C....27	59.06.0104	100 n 63 V, 10%,	
	C....28	59.32.1101	100 p 400 V, 10%,	
	C....29	59.32.4471	470 p 50 V, 20%,	
	C....30	59.22.4221	220 u 16 V, 20%,	
	C....31	59.22.4101	100 u 16 V, 20%,	
	C....32	59.34.4680	68 p 63 V, 5%, N750	
	C....33	59.34.4680	68 p 63 V, 5%, N750	
	C....34	59.32.4471	470 p 50 V, 20%,	
	C....35	59.06.0104	100 n 63 V, 10%,	
	C....36	59.34.4560	56 p 63 V, 5%, N750	
	C....37	59.06.0104	100 n 63 V, 10%,	
	C....38	59.32.1101	100 p 400 V, 10%,	
01	C....38	59.34.2330	33 p 63 V, 5%,	
	C....39	59.06.0474	470 n 63 V, 10%,	
	C....40	59.06.0104	100 n 63 V, 10%,	
	C....41	59.06.0104	100 n 63 V, 10%,	
	C....42	59.22.4470	47 u 16 V, 20%,	
	C....43	59.06.0104	100 n 63 V, 10%,	
	C....44	59.32.1151	150 p 400 V, 10%,	
01	C....44	59.34.2330	33 p 63 V, 5%,	
	C....45	59.32.1151	150 p 400 V, 10%,	
01	C....45	59.34.2330	33 p 63 V, 5%,	
	C....46	59.32.1151	150 p 400 V, 10%,	
01	C....46	59.34.2330	33 p 63 V, 5%,	
	C....47	59.32.1151	150 p 400 V, 10%,	
01	C....47	59.34.2330	33 p 63 V, 5%,	
	C....48	59.32.1151	150 p 400 V, 10%,	
01	C....48	59.34.2330	33 p 63 V, 5%,	
	C....49	59.32.1151	150 p 400 V, 10%,	
01	C....49	59.34.2330	33 p 63 V, 5%,	
	C....50	59.34.4271	270 p 63 V, 5%, N750	
	C....51	59.06.0104	100 n 63 V, 10%,	
	C....52	59.06.0104	100 n 63 V, 10%,	
	C....53	59.06.0104	100 n 63 V, 10%,	
	C....54	59.12.7333	33 n 63 V, 1%,	
	C....55	59.06.0104	100 n 63 V, 10%,	
	C....56	59.06.0104	100 n 63 V, 10%,	
	C....57	59.22.4101	100 u 16 V, 20%,	
	C....58	59.06.0104	100 n 63 V, 10%,	
	C....59	59.22.4101	100 u 16 V, 20%,	
	C....60	59.06.0104	100 n 63 V, 10%,	
	C....61	59.22.4470	47 u 16 V, 20%,	
	C....62	59.22.4470	47 u 16 V, 20%,	
	C....63	59.22.4101	100 u 16 V, 20%,	
	C....64	59.06.0104	100 n 63 V, 10%,	
	C....65	59.22.4101	100 u 16 V, 20%,	
	C....66	59.06.0104	100 n 63 V, 10%,	
	C....67	59.06.0104	100 n 63 V, 10%,	
	C....68	59.06.0104	100 n 63 V, 10%,	
	C....69	59.06.0104	100 n 63 V, 10%,	
	C....70	59.22.4101	100 u 16 V, 20%,	
	C....71	59.06.0104	100 n 63 V, 10%,	
	C....72	59.22.4101	100 u 16 V, 20%,	
	C....73	59.22.4101	100 u 16 V, 20%,	
	C....74	59.22.4470	47 u 16 V, 20%,	
	C....75	59.12.7104	100 n 63 V, 1%,	
	C....76	59.22.4470	47 u 16 V, 20%,	
	C....77	59.22.4470	47 u 16 V, 20%,	
	C....78	59.22.4470	47 u 16 V, 20%,	
	C....79	59.22.4101	100 u 16 V, 20%,	
	C....80	59.22.4470	47 u 16 V, 20%,	
	C....81	59.22.4470	47 u 16 V, 20%,	
	C....82	59.22.4101	100 u 16 V, 20%,	
	C....83	59.22.4470	47 u 16 V, 20%,	
	C....84	59.22.4470	47 u 16 V, 20%,	
	C....85	59.12.7104	100 n 63 V, 1%,	
	C....86	59.22.4101	100 u 16 V, 20%,	
	C....87	59.22.4101	100 u 16 V, 20%,	
	C....88	59.05.2152	1.5 n 160 V, 2.5%,	

Änderung	Datum	Gez.	Gepr.	Ges.	Index
	12.2.91				2
	14.9.90				1
Ausgabe	27.3.90				0

STUDER REGENSDORF ZÜRICH

Benennung: SIDE BOARD EQ + MIC. AMP. ESE

Nummer: 1.990.288-00

SIDE BOARD EQ+MIC. AMP.

1.990.288.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	C....89	59.12.7333	33 n 63 V, 1%,	
	C....90	59.22.4101	100 u 16 V, 20%,	
	C....91	59.05.2152	1.5 n 160 V, 2.5%,	
	C....92	59.06.0682	6.8 n 63 V, 10%,	
	C....93	59.06.0682	6.8 n 63 V, 10%,	
	C....94	59.22.4101	100 u 16 V, 20%,	
	C....95	59.06.0682	6.8 n 63 V, 10%,	
	C....96	59.22.4101	100 u 16 V, 20%,	
	C....97	59.05.2472	4.7 n 63 V, 2.5%,	
	C....98	59.05.2472	4.7 n 63 V, 2.5%,	
	C....99	59.05.2472	4.7 n 63 V, 2.5%,	
	C...100	59.05.2472	4.7 n 63 V, 2.5%,	
	C...101	59.22.4470	47 u 16 V, 20%,	
	C...102	59.34.4271	270 p 63 V, 5%,	N750
	C...103	59.06.0682	6.8 n 63 V, 10%,	
	C...104	59.06.0682	6.8 n 63 V, 10%,	
	C...105	59.22.4101	100 u 16 V, 20%,	
	C...106	59.22.4101	100 u 16 V, 20%,	
	C...107	59.06.0682	6.8 n 63 V, 10%,	
	C...108	59.06.0682	6.8 n 63 V, 10%,	
	C...109	59.06.0682	6.8 n 63 V, 10%,	
	C...110	59.06.0682	6.8 n 63 V, 10%,	
	C...111	59.06.0682	6.8 n 63 V, 10%,	
	C...112	59.06.0682	6.8 n 63 V, 10%,	
	C...113	59.06.0682	6.8 n 63 V, 10%,	
	C...114	59.06.0682	6.8 n 63 V, 10%,	
	C...115	59.06.0682	6.8 n 63 V, 10%,	
02	C...116	59.34.2330	33 pF 63 V, 5%	
02	C...117	59.34.2330	33 pF 63 V, 5%	
02	C...118	59.34.2220	22 pF 63 V, 5%	
	D.....1	50.04.0125	1N4448	
	D.....2	50.04.0125	1N4448	
	D.....3	50.04.0125	1N4448	
	D.....4	50.04.0125	1N4448	
	D.....5	50.04.0125	1N4448	
	D.....6	50.04.0125	1N4448	
	D.....7	50.04.0125	1N4448	
	D.....8	50.04.0105	1N4004	
	D.....9	50.04.0105	1N4004	
	D....10	50.04.0125	1N4448	
	D....11	50.04.0125	1N4448	
	IC....1	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....2	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....3	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....4	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....5	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....6	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....7	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....8	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....9	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
04	IC....9	50.09.0101	TL072 CP DIP08, DUAL FET-AMPLIFIER	
	K.....1	56.04.0195	2*U RELAIS 6 V	
	K.....2	56.04.0195	2*U RELAIS 6 V	
	L.....1	1.022.207.00	RM6-R/6 COMMON-MODE-REJECTION COIL	
	L.....2	1.022.207.00	RM6-R/6 COMMON-MODE-REJECTION COIL	
	P.....1	. .	not used see A1	
	P.....2	. .	not used see A2	
	Q.....1	50.03.0516	BC337 NPN, TO92-1, MATCH	
	Q.....2	50.03.0516	BC337 NPN, TO92-1, MATCH	
	Q.....3	50.03.0350	J-112 NFET, TO92-5	
	Q.....4	50.03.0350	J-112 NFET, TO92-5	
	Q.....5	50.03.0350	J-112 NFET, TO92-5	
	Q.....6	50.03.1130	J-110 NFET, TO92-5	
	Q.....7	50.03.1130	J-110 NFET, TO92-5	
	Q.....8	50.03.0350	J-112 NFET, TO92-5	
	Q.....9	50.03.1130	J-110 NFET, TO92-5	
	Q....10	50.03.0350	J-112 NFET, TO92-5	
	Q....11	50.03.0350	J-112 NFET, TO92-5	
	Q....12	50.03.0350	J-112 NFET, TO92-5	
	Q....13	50.03.1130	J-110 NFET, TO92-5	
	Q....14	50.03.0350	J-112 NFET, TO92-5	
	Q....15	50.03.0350	J-112 NFET, TO92-5	
	Q....16	50.03.1130	J-110 NFET, TO92-5	
	Q....17	50.03.1130	J-110 NFET, TO92-5	
	Q....18	50.03.0350	J-112 NFET, TO92-5	
	Q....19	50.03.0350	J-112 NFET, TO92-5	
	Q....20	50.03.0350	J-112 NFET, TO92-5	
	Q....21	50.03.0350	J-112 NFET, TO92-5	
	Q....22	50.03.0350	J-112 NFET, TO92-5	
	Q....23	50.03.0515	BC307B PNP, TO92-1	
	Q....24	50.03.0350	J-112 NFET, TO92-5	
	Q....25	50.03.0515	BC307B PNP, TO92-1	
	Q....26	50.03.0350	J-112 NFET, TO92-5	
	Q....27	50.03.0350	J-112 NFET, TO92-5	
	Q....28	50.03.0515	BC307B PNP, TO92-1	
	Q....29	50.03.0350	J-112 NFET, TO92-5	
	Q....30	50.03.0515	BC307B PNP, TO92-1	
	Q....31	50.03.0350	J-112 NFET, TO92-5	
	Q....32	50.03.0350	J-112 NFET, TO92-5	
	R.....1	57.11.3105	1 MOhm MF, 1%	
01	R.....1	57.11.3103	10 kOhm MF, 1%	
03	R.....1	57.11.3105	1 MOhm MF, 1%	
	R.....2	57.11.3105	1 MOhm MF, 1%	
01	R.....2	57.11.3103	10 kOhm MF, 1%	
03	R.....2	57.11.3105	1 MOhm MF, 1%	
	R.....3	57.11.3105	1 MOhm MF, 1%	
01	R.....3	57.11.3103	10 kOhm MF, 1%	
03	R.....3	57.11.5335	3.3 MOhm MF, 5%	
	R.....4	57.11.3105	1 MOhm MF, 1%	
01	R.....4	57.11.3103	10 kOhm MF, 1%	
03	R.....4	57.11.3105	1 MOhm MF, 1%	
	R.....5	57.11.3105	1 MOhm MF, 1%	
01	R.....5	57.11.3103	10 kOhm MF, 1%	
03	R.....5	57.11.5335	3.3 MOhm MF, 5%	
	R.....6	57.11.3302	3 kOhm MF, 1%	
	R.....7	57.11.3105	1 MOhm MF, 1%	
01	R.....7	57.11.3103	10 kOhm MF, 1%	
03	R.....7	57.11.3104	100 kOhm MF, 1%	
	R.....8	57.11.3223	22 kOhm MF, 1%	
	R.....9	57.11.3183	18 kOhm MF, 1%	
	R....10	57.11.3911	910 Ohm MF, 1%	
	R....11	57.11.3561	560 Ohm MF, 1%	
	R....12	57.11.3152	1.5 kOhm MF, 1%	
	R....13	57.11.3103	10 kOhm MF, 1%	
	R....14	57.11.3152	1.5 kOhm MF, 1%	
	R....15	57.11.3332	3.3 kOhm MF, 1%	
	R....16	57.11.3103	10 kOhm MF, 1%	
	R....17	57.11.3243	24 kOhm MF, 1%	
	R....18	57.11.5125	1.2 MOhm MF, 5%	
	R....19	57.11.3561	560 Ohm MF, 1%	
	R....20	57.11.3911	910 Ohm MF, 1%	
	R....21	57.11.3332	3.3 kOhm MF, 1%	
	R....22	57.11.3103	10 kOhm MF, 1%	
	R....23	57.11.3913	91 kOhm MF, 1%	
	R....24	57.11.3471	470 Ohm MF, 1%	
	R....25	57.11.3751	750 Ohm MF, 1%	
	R....26	57.11.3100	10 Ohm MF, 1%	
	R....27	57.11.3131	130 Ohm MF, 1%	
	R....28	57.11.3105	1 MOhm MF, 1%	
01	R....28	57.11.3103	10 kOhm MF, 1%	
03	R....28	57.11.3105	1 MOhm MF, 1%	
	R....29	57.11.3105	1 MOhm MF, 1%	
01	R....29	57.11.3103	10 kOhm MF, 1%	
03	R....29	57.11.3105	1 MOhm MF, 1%	
	R....30	57.11.3105	1 MOhm MF, 1%	
01	R....30	57.11.3103	10 kOhm MF, 1%	
03	R....30	57.11.3104	100 kOhm MF, 1%	
	R....31	57.11.3272	2.7 kOhm MF, 1%	
	R....32	57.11.3113	11 kOhm MF, 1%	
	R....33	57.11.3223	22 kOhm MF, 1%	
	R....34	57.11.3223	22 kOhm MF, 1%	
	R....35	57.11.3914	910 kOhm MF, 1%	
	R....36	57.11.3332	3.3 kOhm MF, 1%	
	R....37	57.11.3152	1.5 kOhm MF, 1%	
	R....38	57.11.3152	1.5 kOhm MF, 1%	
	R....39	57.11.3562	5.6 kOhm MF, 1%	
	R....40	57.11.3183	18 kOhm MF, 1%	
	R....41	57.11.3105	1 MOhm MF, 1%	
01	R....41	57.11.3103	10 kOhm MF, 1%	
03	R....41	57.11.6335	3.3 MOhm MF, 5%	
	R....42	57.11.3105	1 MOhm MF, 1%	
01	R....42	57.11.3103	10 kOhm MF, 1%	
03	R....42	57.11.3105	1 MOhm MF, 1%	
	R....43	57.11.3471	470 Ohm MF, 1%	
	R....44	57.11.3751	750 Ohm MF, 1%	
	R....45	57.11.3183	18 kOhm MF, 1%	
	R....46	57.11.3183	18 kOhm MF, 1%	
	R....47	57.11.3330	33 Ohm MF, 1%	
	R....48	57.11.3302	3 kOhm MF, 1%	
	R....49	57.11.3162	1.6 kOhm MF, 1%	
	R....50	57.11.3105	1 MOhm MF, 1%	
01	R....50	57.11.3103	10 kOhm MF, 1%	
03	R....50	57.11.5335	3.3 MOhm MF, 5%	
	R....51	57.11.3330	33 Ohm MF, 1%	
	R....52	57.11.3103	10 kOhm MF, 1%	
	R....53	57.11.3103	10 kOhm MF, 1%	
	R....54	57.11.3223	22 kOhm MF, 1%	
	R....55	57.11.3272	2.7 kOhm MF, 1%	
	R....56	57.11.3913	91 kOhm MF, 1%	
	R....57	57.11.3223	22 kOhm MF, 1%	
	R....58	57.11.3330	33 Ohm MF, 1%	
	R....59	57.11.3113	11 kOhm MF, 1%	
	R....60	57.11.3914	910 kOhm MF, 1%	
	R....61	57.11.3100	10 Ohm MF, 1%	
	R....62	57.11.3162	1.6 kOhm MF, 1%	
	R....63	57.11.3183	18 kOhm MF, 1%	
	R....64	57.11.3131	130 Ohm MF, 1%	
	R....65	57.11.3183	18 kOhm MF, 1%	
	R....66	57.11.3183	18 kOhm MF, 1%	
	R....67	57.11.3330	33 Ohm MF, 1%	
	R....68	57.11.3562	5.6 kOhm MF, 1%	
	R....69	57.11.3223	22 kOhm MF, 1%	
	R....70	57.11.3183	18 kOhm MF, 1%	
	R....71	57.11.5125	1.2 MOhm MF, 5%	
	R....72	57.11.3243	24 kOhm MF, 1%	
	R....73	57.11.3332	3.3 kOhm MF, 1%	
	R....74	57.11.3103	10 kOhm MF, 1%	
	R....75	57.92.7013	0.5 A 60V , POLY-PTC	
	R....76	57.92.7013	0.5 A 60V , POLY-PTC	
	R....77	57.11.3105	1 MOhm MF, 1%	
	R....78	57.11.3222	2.2 kOhm MF, 1%	
	R....79	57.11.3684	680 kOhm MF, 1%	
	R....80	57.11.3103	10 kOhm MF, 1%	

SIDE BOARD EQ+MIC. AMP. 1.990.288.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R....81	57.11.3103	10 kOhm MF, 1%	
	R....82	57.11.3684	680 kOhm MF, 1%	
	R....83	57.11.3684	680 kOhm MF, 1%	
	R....84	57.11.3103	10 kOhm MF, 1%	
	R....85	57.11.3103	10 kOhm MF, 1%	
	R....86	57.11.3223	22 kOhm MF, 1%	
	R....87	57.11.3472	4.7 kOhm MF, 1%	
	R....88	57.11.3684	680 kOhm MF, 1%	
	R....89	57.11.3684	680 kOhm MF, 1%	
	R....90	57.11.3684	680 kOhm MF, 1%	
	R....91	57.11.3103	10 kOhm MF, 1%	
	R....92	57.11.3102	1 kOhm MF, 1%	
	R....93	57.11.3103	10 kOhm MF, 1%	
	R....94	57.11.3105	1 MOhm MF, 1%	
	R....95	57.11.3222	2.2 kOhm MF, 1%	
	R....96	57.11.3684	680 kOhm MF, 1%	
	R....97	57.11.3103	10 kOhm MF, 1%	
	R....98	57.11.3103	10 kOhm MF, 1%	
	R....99	57.11.3684	680 kOhm MF, 1%	
	R...100	57.11.3684	680 kOhm MF, 1%	
	R...101	57.11.3103	10 kOhm MF, 1%	
	R...102	57.11.3103	10 kOhm MF, 1%	
	R...103	57.11.3104	100 kOhm MF, 1%	
	R...104	57.11.3102	1 kOhm MF, 1%	
	R...105	57.11.3101	100 Ohm MF, 1%	
	R...106	57.11.3102	1 kOhm MF, 1%	
	R...107	57.11.6226	22 MOhm MF, 10%	
	R...108	57.11.6226	22 MOhm MF, 10%	
	R...109	57.11.3104	100 kOhm MF, 1%	
	R...110	57.11.3102	1 kOhm MF, 1%	
	R...111	57.11.3472	4.7 kOhm MF, 1%	
	R...112	57.11.3684	680 kOhm MF, 1%	
	R...113	57.11.3684	680 kOhm MF, 1%	
	R...114	57.11.3183	18 kOhm MF, 1%	
	R...115	57.11.3752	7.5 kOhm MF, 1%	
	R...116	57.11.3362	3.6 kOhm MF, 1%	
	R...117	57.11.3103	10 kOhm MF, 1%	
	R...118	57.11.3102	1 kOhm MF, 1%	
	R...119	57.11.5106	10 MOhm MF, 5%	
	R...120	57.11.3682	6.8 kOhm MF, 1%	
	R...121	57.11.5106	10 MOhm MF, 5%	
	R...122	57.11.3752	7.5 kOhm MF, 1%	
	R...123	57.11.3183	18 kOhm MF, 1%	
	R...124	57.11.3362	3.6 kOhm MF, 1%	
	R...125	57.11.3102	1 kOhm MF, 1%	
	R...126	57.11.3103	10 kOhm MF, 1%	
	R...127	57.11.3684	680 kOhm MF, 1%	
	R...128	57.11.3682	6.8 kOhm MF, 1%	
	R...129	57.11.3102	1 kOhm MF, 1%	
	R...130	57.11.3103	10 kOhm MF, 1%	
	R...131	57.11.3223	22 kOhm MF, 1%	
	R...132	57.11.3472	4.7 kOhm MF, 1%	
	R...133	57.11.3202	2 kOhm MF, 1%	
	R...134	57.11.5106	10 MOhm MF, 5%	
	R...135	57.11.3392	3.9 kOhm MF, 1%	
	R...136	57.11.3684	680 kOhm MF, 1%	
	R...137	57.11.5106	10 MOhm MF, 5%	
	R...138	57.11.3202	2 kOhm MF, 1%	
	R...139	57.11.3472	4.7 kOhm MF, 1%	
	R...140	57.11.3392	3.9 kOhm MF, 1%	
	R...141	57.11.3684	680 kOhm MF, 1%	
	R...142	57.11.3103	10 kOhm MF, 1%	
	R...143	57.11.3223	22 kOhm MF, 1%	
	R...144	57.11.5106	10 MOhm MF, 5%	
	R...145	57.11.3223	22 kOhm MF, 1%	
	R...146	57.11.5106	10 MOhm MF, 5%	
	R...147	57.11.3104	100 kOhm MF, 1%	
	R...148	57.11.3684	680 kOhm MF, 1%	
	R...149	57.11.5106	10 MOhm MF, 5%	
	R...150	57.11.3104	100 kOhm MF, 1%	
	R...151	57.11.3684	680 kOhm MF, 1%	
	R...152	57.11.5106	10 MOhm MF, 5%	
	R...153	57.11.5106	10 MOhm MF, 5%	
	R...154	57.11.3104	100 kOhm MF, 1%	
	R...155	57.11.3684	680 kOhm MF, 1%	
	R...156	57.11.5106	10 MOhm MF, 5%	
	R...157	57.11.3104	100 kOhm MF, 1%	
	R...158	57.11.5106	10 MOhm MF, 5%	
	R...159	57.11.3684	680 kOhm MF, 1%	
	R...160	57.11.5106	10 MOhm MF, 5%	
	R...161	57.11.3104	100 kOhm MF, 1%	
	R...162	57.11.3102	1 kOhm MF, 1%	
	R...163	57.11.3101	100 Ohm MF, 1%	
	R...164	57.11.3102	1 kOhm MF, 1%	
	T.....1	1.022.456.00	1:2.24	INPUT TRAFO
	T.....2	1.022.456.00	1:2.24	INPUT TRAFO
	MP....1	1.990.289.11	1 pcs	SIDE BOARD PCB
	MP....2	1.990.289.01	1 pcs	Schirmblech SIDE BOARD
04	MP....2	. . 0	not used	see 1.990.230.00 ... 280.00
	MP....3	1.010.157.27	3 pcs	Distanzbolzen M2.5x13mm
	MP....4	1.010.208.27	3 pcs	Mutterbolzen M2.5x14mm
04	MP....4	. . 0	not used	see 1.990.230.00 ... 280.00
	MP....5	21.01.0279	3 pcs	Z-Schrauben M2.5x 6mm
	MP....6	24.16.1025	6 pcs	Rippenscheibe M2.5
04	MP....6	24.16.1025	3 pcs	Rippenscheibe M2.5
	MP....7	53.03.0166	9 pcs	IC-Socket 8-pin
	MP....8	1.022.400.03	2 pcs	Isolation Trafo

(01) 90/07/11 Verbesserung Frequenzgeng Mikrofonverstaerker
Verbesserung Frequenzgang Equalizer-Teil

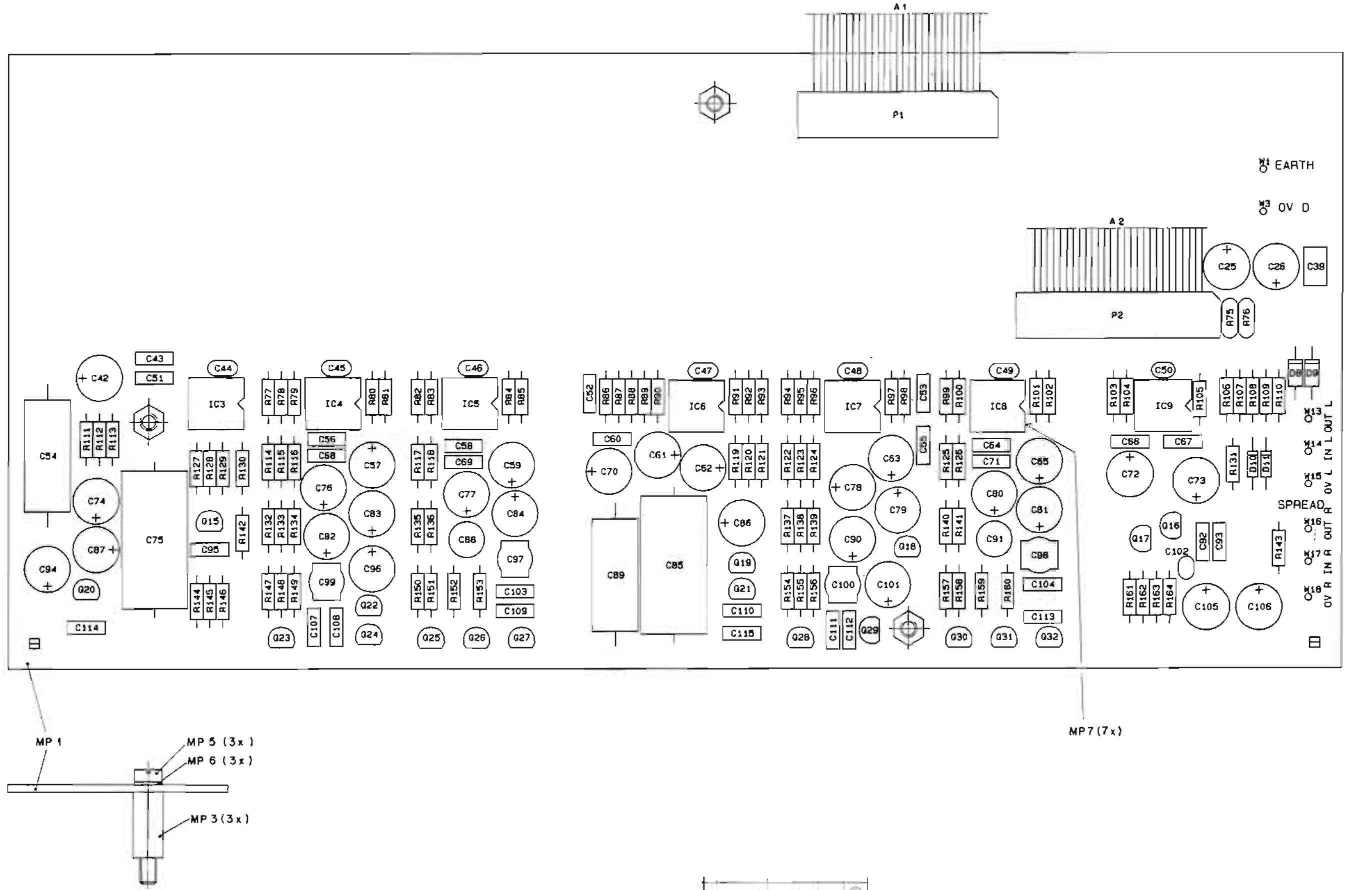
(02) 90/09/14 Verbesserung Symetrie des Mikrofoneinganges

(03) 91/01/15 Abschwaechung des Knallens der FET's beim Umschalten der Verstaerkung (Mikrofonstufe)

(04) 91/02/12 Am IC 9 wird HF demoduliert.Dieser Effekt verschwindet mit dem FET OP-AMP TL 072. Schirmblech,Mutterbolzen und Rippenscheiben werden erst beim Einbau in der uebergeordneten Baugruppe benoetigt, und sind neu in deren Posliste.

1.990.288.00	SIDE BOARD EQ+MIC.AMP.	SCA90/04/2400
1.990.288.00	SIDE BOARD EQ+MIC.AMP.	SCA90/07/1101
1.990.288.00	SIDE BOARD EQ+MIC.AMP.	SCA90/09/1402
1.990.288.00	SIDE BOARD EQ+MIC.AMP.	SCA91/01/1503
1.990.288.00	SIDE BOARD EQ+MIC.AMP.	SCA91/02/1204

SIDE BOARD EQ ESE 1.990.289.00



Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	A.....1	1.023.112.01	26-wire RIBBON CABLE 0,06 m (einseitige Zugentl.)	
	A.....2	1.023.112.02	26-wire RIBBON CABLE 0,10 m (einseitige Zugentl.)	
	C....25	59.22.4470	47 u 16 V, 20%,	
	C....26	59.22.4470	47 u 16 V, 20%,	
	C....39	59.06.0474	470 n 63 V, 10%,	
	C....42	59.22.4470	47 u 16 V, 20%,	
	C....43	59.06.0104	100 n 63 V, 10%,	
	C....44	59.32.1151	150 p 400 V, 10%,	
01	C....44	59.34.2330	33 p 63 V, 5%,	
	C....45	59.32.1151	150 p 400 V, 10%,	
01	C....45	59.34.2330	33 p 63 V, 5%,	
	C....46	59.32.1151	150 p 400 V, 10%,	
01	C....46	59.34.2330	33 p 63 V, 5%,	
	C....47	59.32.1151	150 p 400 V, 10%,	
01	C....47	59.34.2330	33 p 63 V, 5%,	
	C....48	59.32.1151	150 p 400 V, 10%,	
01	C....48	59.34.2330	33 p 63 V, 5%,	
	C....49	59.32.1151	150 p 400 V, 10%,	
01	C....49	59.34.2330	33 p 63 V, 5%,	
	C....50	59.34.4271	270 p 63 V, 5%,	N750
	C....51	59.06.0104	100 n 63 V, 10%,	
	C....52	59.06.0104	100 n 63 V, 10%,	
	C....53	59.06.0104	100 n 63 V, 10%,	
	C....54	59.12.7333	33 n 63 V, 1%,	
	C....55	59.06.0104	100 n 63 V, 10%,	
	C....56	59.06.0104	100 n 63 V, 10%,	
	C....57	59.22.4101	100 u 16 V, 20%,	
	C....58	59.06.0104	100 n 63 V, 10%,	
	C....59	59.22.4101	100 u 16 V, 20%,	
	C....60	59.06.0104	100 n 63 V, 10%,	
	C....61	59.22.4470	47 u 16 V, 20%,	
	C....62	59.22.4470	47 u 16 V, 20%,	
	C....63	59.22.4101	100 u 16 V, 20%,	
	C....64	59.06.0104	100 n 63 V, 10%,	
	C....65	59.22.4101	100 u 16 V, 20%,	
	C....66	59.06.0104	100 n 63 V, 10%,	
	C....67	59.06.0104	100 n 63 V, 10%,	
	C....68	59.06.0104	100 n 63 V, 10%,	
	C....69	59.06.0104	100 n 63 V, 10%,	
	C....70	59.22.4101	100 u 16 V, 20%,	
	C....71	59.06.0104	100 n 63 V, 10%,	
	C....72	59.22.4101	100 u 16 V, 20%,	
	C....73	59.22.4101	100 u 16 V, 20%,	
	C....74	59.22.4470	47 u 16 V, 20%,	
	C....75	59.12.7104	100 n 63 V, 1%,	
	C....76	59.22.4470	47 u 16 V, 20%,	
	C....77	59.22.4470	47 u 16 V, 20%,	
	C....78	59.22.4470	47 u 16 V, 20%,	
	C....79	59.22.4101	100 u 16 V, 20%,	
	C....80	59.22.4470	47 u 16 V, 20%,	
	C....81	59.22.4470	47 u 16 V, 20%,	
	C....82	59.22.4101	100 u 16 V, 20%,	
	C....83	59.22.4470	47 u 16 V, 20%,	
	C....84	59.22.4470	47 u 16 V, 20%,	
	C....85	59.12.7104	100 n 63 V, 1%,	
	C....86	59.22.4101	100 u 16 V, 20%,	
	C....87	59.22.4101	100 u 16 V, 20%,	
	C....88	59.05.2152	1.5 n 160 V, 2.5%,	
	C....89	59.12.7333	33 n 63 V, 1%,	
	C....90	59.22.4101	100 u 16 V, 20%,	
	C....91	59.05.2152	1.5 n 160 V, 2.5%,	
	C....92	59.06.0682	6.8 n 63 V, 10%,	
	C....93	59.06.0682	6.8 n 63 V, 10%,	
	C....94	59.22.4101	100 u 16 V, 20%,	
	C....95	59.06.0682	6.8 n 63 V, 10%,	
	C....96	59.22.4101	100 u 16 V, 20%,	
	C....97	59.05.2472	4.7 n 63 V, 2.5%,	
	C....98	59.05.2472	4.7 n 63 V, 2.5%,	
	C....99	59.05.2472	4.7 n 63 V, 2.5%,	
	C...100	59.05.2472	4.7 n 63 V, 2.5%,	
	C...101	59.22.4470	47 u 16 V, 20%,	
	C...102	59.34.4271	270 p 63 V, 5%,	N750
	C...103	59.06.0682	6.8 n 63 V, 10%,	
	C...104	59.06.0682	6.8 n 63 V, 10%,	
	C...105	59.22.4101	100 u 16 V, 20%,	
	C...106	59.22.4101	100 u 16 V, 20%,	
	C...107	59.06.0682	6.8 n 63 V, 10%,	
	C...108	59.06.0682	6.8 n 63 V, 10%,	
	C...109	59.06.0682	6.8 n 63 V, 10%,	
	C...110	59.06.0682	6.8 n 63 V, 10%,	
	C...111	59.06.0682	6.8 n 63 V, 10%,	
	C...112	59.06.0682	6.8 n 63 V, 10%,	
	C...113	59.06.0682	6.8 n 63 V, 10%,	
	C...114	59.06.0682	6.8 n 63 V, 10%,	
	C...115	59.06.0682	6.8 n 63 V, 10%,	
	D.....8	50.04.0105	1N4004	
	D.....9	50.04.0105	1N4004	
	D....10	50.04.0125	1N4448	
	D....11	50.04.0125	1N4448	
	IC....3	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....4	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....5	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....6	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	
	IC....7	50.09.0117	MC33078 DIP08, DUAL LOW NOISE AMPLIFIER	

12.2.91
27.3.90

STUDER REGENSDORF ZÜRICH

SIDE BOARD EQ ESE

1.990.289-00

SIDE BOARD EQ

1.990.289.00

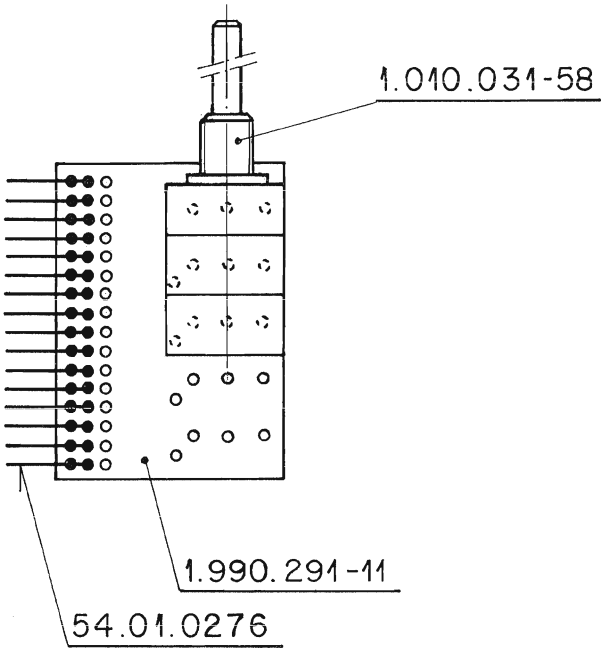
Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	IC....8	50.09.0117	MC33078	DIP08, DUAL LOW NOISE AMPLIFIER
	IC....9	50.09.0117	MC33078	DIP08, DUAL LOW NOISE AMPLIFIER
02	IC....9	50.09.0101	TL072 CP	DIP08, DUAL LOW NOISE AMPLIFIER
	P.....1	. .	not used	see A1
	P.....2	. .	not used	see A2
	Q....15	50.03.0350	J-112	NFET, TO92-5
	Q....16	50.03.1130	J-110	NFET, TO92-5
	Q....17	50.03.1130	J-110	NFET, TO92-5
	Q....18	50.03.0350	J-112	NFET, TO92-5
	Q....19	50.03.0350	J-112	NFET, TO92-5
	Q....20	50.03.0350	J-112	NFET, TO92-5
	Q....21	50.03.0350	J-112	NFET, TO92-5
	Q....22	50.03.0350	J-112	NFET, TO92-5
	Q....23	50.03.0515	BC307B	PNP, TO92-1
	Q....24	50.03.0350	J-112	NFET, TO92-5
	Q....25	50.03.0515	BC307B	PNP, TO92-1
	Q....26	50.03.0350	J-112	NFET, TO92-5
	Q....27	50.03.0350	J-112	NFET, TO92-5
	Q....28	50.03.0515	BC307B	PNP, TO92-1
	Q....29	50.03.0350	J-112	NFET, TO92-5
	Q....30	50.03.0515	BC307B	PNP, TO92-1
	Q....31	50.03.0350	J-112	NFET, TO92-5
	Q....32	50.03.0350	J-112	NFET, TO92-5
	R....75	57.92.7013	0.5 A	60V , POLY-PTC
	R....76	57.92.7013	0.5 A	60V , POLY-PTC
	R....77	57.11.3105	1 MOhm	MF, 1%
	R....78	57.11.3222	2.2 kOhm	MF, 1%
	R....79	57.11.3684	680 kOhm	MF, 1%
	R....80	57.11.3103	10 kOhm	MF, 1%
	R....81	57.11.3103	10 kOhm	MF, 1%
	R....82	57.11.3684	680 kOhm	MF, 1%
	R....83	57.11.3684	680 kOhm	MF, 1%
	R....84	57.11.3103	10 kOhm	MF, 1%
	R....85	57.11.3103	10 kOhm	MF, 1%
	R....86	57.11.3223	22 kOhm	MF, 1%
	R....87	57.11.3472	4.7 kOhm	MF, 1%
	R....88	57.11.3684	680 kOhm	MF, 1%
	R....89	57.11.3684	680 kOhm	MF, 1%
	R....90	57.11.3684	680 kOhm	MF, 1%
	R....91	57.11.3103	10 kOhm	MF, 1%
	R....92	57.11.3102	1 kOhm	MF, 1%
	R....93	57.11.3103	10 kOhm	MF, 1%
	R....94	57.11.3106	1 MOhm	MF, 1%
	R....95	57.11.3222	2.2 kOhm	MF, 1%
	R....96	57.11.3684	680 kOhm	MF, 1%
	R....97	57.11.3103	10 kOhm	MF, 1%
	R....98	57.11.3103	10 kOhm	MF, 1%
	R....99	57.11.3684	680 kOhm	MF, 1%
	R...100	57.11.3684	680 kOhm	MF, 1%
	R...101	57.11.3103	10 kOhm	MF, 1%
	R...102	57.11.3103	10 kOhm	MF, 1%
	R...103	57.11.3104	100 kOhm	MF, 1%
	R...104	57.11.3102	1 kOhm	MF, 1%
	R...105	57.11.3101	100 Ohm	MF, 1%
	R...106	57.11.3102	1 kOhm	MF, 1%
	R...107	57.11.6226	22 MOhm	MF, 10%
	R...108	57.11.6226	22 MOhm	MF, 10%
	R...109	57.11.3104	100 kOhm	MF, 1%
	R...110	57.11.3102	1 kOhm	MF, 1%
	R...111	57.11.3472	4.7 kOhm	MF, 1%
	R...112	57.11.3684	680 kOhm	MF, 1%
	R...113	57.11.3684	680 kOhm	MF, 1%
	R...114	57.11.3183	18 kOhm	MF, 1%
	R...115	57.11.3752	7.5 kOhm	MF, 1%
	R...116	57.11.3362	3.6 kOhm	MF, 1%
	R...117	57.11.3103	10 kOhm	MF, 1%
	R...118	57.11.3102	1 kOhm	MF, 1%
	R...119	57.11.5106	10 MOhm	MF, 5%
	R...120	57.11.3682	6.8 kOhm	MF, 1%
	R...121	57.11.5106	10 MOhm	MF, 5%
	R...122	57.11.3752	7.5 kOhm	MF, 1%
	R...123	57.11.3183	18 kOhm	MF, 1%
	R...124	57.11.3362	3.6 kOhm	MF, 1%
	R...125	57.11.3102	1 kOhm	MF, 1%
	R...126	57.11.3103	10 kOhm	MF, 1%
	R...127	57.11.3684	680 kOhm	MF, 1%
	R...128	57.11.3682	6.8 kOhm	MF, 1%
	R...129	57.11.3102	1 kOhm	MF, 1%
	R...130	57.11.3103	10 kOhm	MF, 1%
	R...131	57.11.3223	22 kOhm	MF, 1%
	R...132	57.11.3472	4.7 kOhm	MF, 1%
	R...133	57.11.3202	2 kOhm	MF, 1%
	R...134	57.11.5106	10 MOhm	MF, 5%
	R...135	57.11.3392	3.9 kOhm	MF, 1%
	R...136	57.11.3684	680 kOhm	MF, 1%
	R...137	57.11.5106	10 MOhm	MF, 5%
	R...138	57.11.3202	2 kOhm	MF, 1%
	R...139	57.11.3472	4.7 kOhm	MF, 1%
	R...140	57.11.3392	3.9 kOhm	MF, 1%
	R...141	57.11.3684	680 kOhm	MF, 1%
	R...142	57.11.3103	10 kOhm	MF, 1%
	R...143	57.11.3223	22 kOhm	MF, 1%
	R...144	57.11.5106	10 MOhm	MF, 5%
	R...145	57.11.3223	22 kOhm	MF, 1%
	R...146	57.11.5106	10 MOhm	MF, 5%
	R...147	57.11.3104	100 kOhm	MF, 1%
	R...148	57.11.3684	680 kOhm	MF, 1%
	R...149	57.11.5106	10 MOhm	MF, 5%
	R...150	57.11.3104	100 kOhm	MF, 1%
	R...151	57.11.3684	680 kOhm	MF, 1%
	R...152	57.11.5106	10 MOhm	MF, 5%
	R...153	57.11.5106	10 MOhm	MF, 5%
	R...154	57.11.3104	100 kOhm	MF, 1%
	R...155	57.11.3684	680 kOhm	MF, 1%
	R...156	57.11.5106	10 MOhm	MF, 5%
	R...157	57.11.3104	100 kOhm	MF, 1%
	R...158	57.11.5106	10 MOhm	MF, 5%
	R...159	57.11.3684	680 kOhm	MF, 1%
	R...160	57.11.5106	10 MOhm	MF, 5%
	R...161	57.11.3104	100 kOhm	MF, 1%
	R...162	57.11.3102	1 kOhm	MF, 1%
	R...163	57.11.3101	100 Ohm	MF, 1%
	R...164	57.11.3102	1 kOhm	MF, 1%
	MP....1	1.990.289.11	1 pcs	SIDE BOARD PCB
	MP....2	1.990.289.01	1 pcs	Schirmblech SIDE BOARD
02	MP....2	. . . 0	not used	see 1.990.230.00 ... 280.00
	MP....3	1.010.157.27	3 pcs	Distanzbolzen M2.5x13mm
	MP....4	1.010.208.27	3 pcs	Mutterbolzen M2.5x14mm
02	MP....4	. . . 0	not used	see 1.990.230.00 ... 280.00
	MP....5	21.01.0279	3 pcs	Z-Schrauben M2.5x 6mm
	MP....6	24.16.1025	6 pcs	Rippenscheibe M2.5
02	MP....6	24.16.1025	3 pcs	Rippenscheibe M2.5
	MP....7	53.03.0166	7 pcs	IC-Socket 8-pin

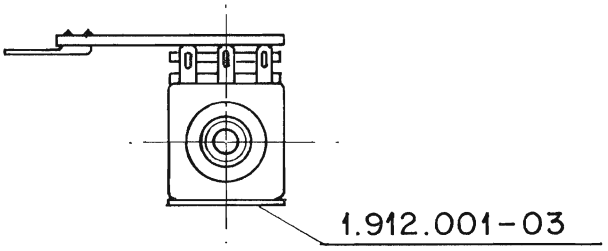
(01) 90/07/10 Verbesserung des Frequenzganges im EQ-Teil.

(02) 91/02/12 Im IC 9 wird HF demoduliert.Dieser Effekt
verschwindet bei der Verwendung vom FET-OP TL 072CP.
Schirmblech,Mutterbolzen und Rippenscheiben werden erst
beim Einbau in die uebergeordnete Baugruppe benoetigt
und sind neu in deren Posliste.

1.990.289.00	SIDE BOARD EQ	SCA90/04/2400
1.990.289.00	SIDE BOARD EQ	SCA90/07/1001
1.990.289.00	SIDE BOARD EQ	SCA91/02/1202

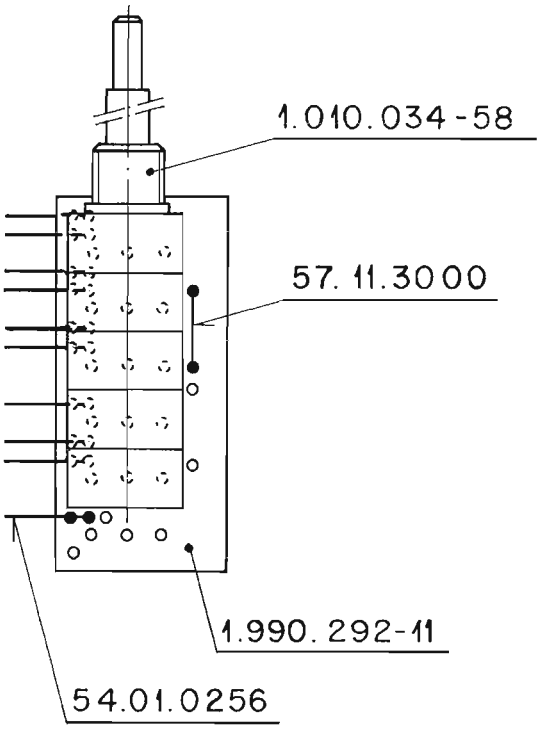
3 POT. 24,6mm BOARD **1.990.291.00**

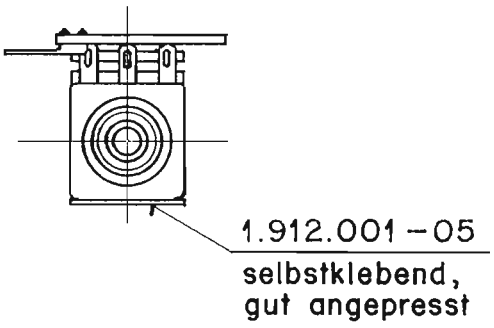




					Änderung	③ ② ①
					Ausgabe	⓪
	11.10.89				Datum	Index
		Gez.	Gepr.	Ges.		
Kopie für:						
STUDER REGENSDORF ZÜRICH	Benennung: 3 POT. 24,6mm BOARD				Nummer:	1.990.291-00

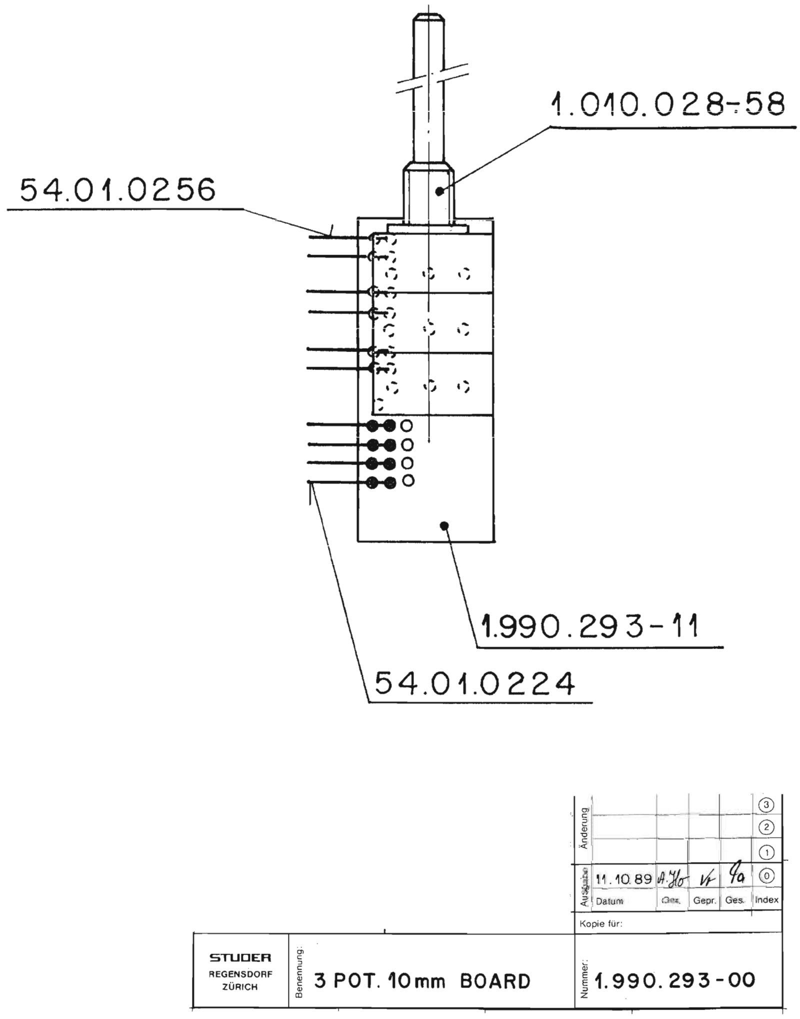
5 POT. 10mm BOARD **1.990.292.00**



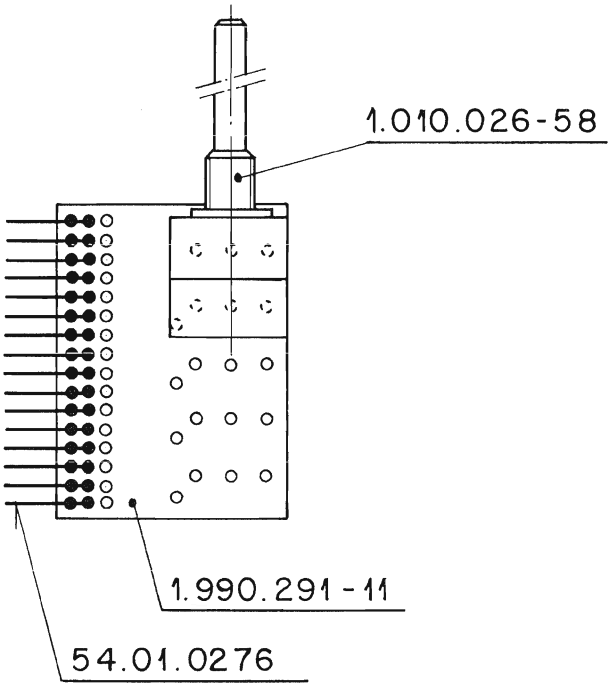


Änderung							③ ② ①
Ausgabe	Datum	Gez.	Gepr.	Ges.	Index		⓪
	11.10.89						
Kopie für:							
STUDER REGENSDORF ZÜRICH	Benennung: 5 POT. 10 mm BOARD				Nummer: 1.990.292-00		

3 POT. 10mm BOARD **1.990.293.00**

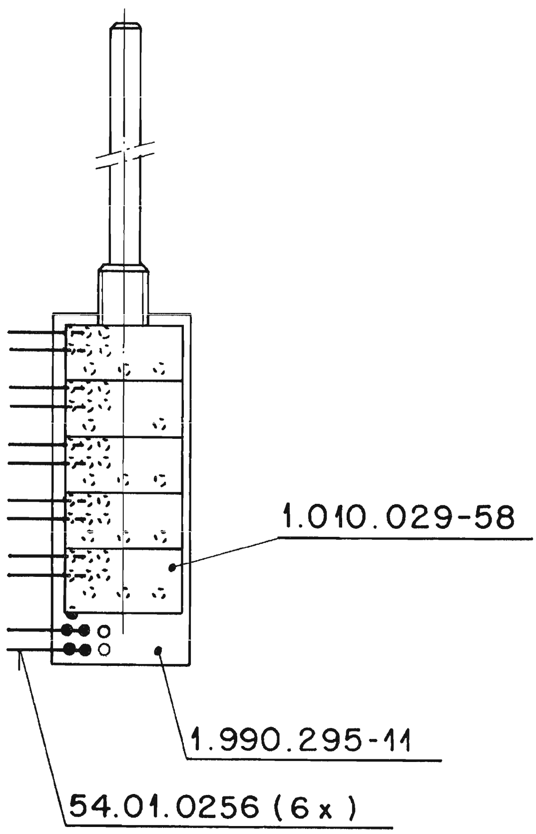


2 POT. 24,6mm BOARD 1.990.294.00



Änderung						③ ② ①
Ausgabe	11.10.89					0
	Datum	Gez.	Gepr.	Ges.	Index	
Kopie für:						
STUDER REGENSDORF ZÜRICH	Benennung: 2 POT. 24,6mm BOARD			Nummer: 1.990.294-00		

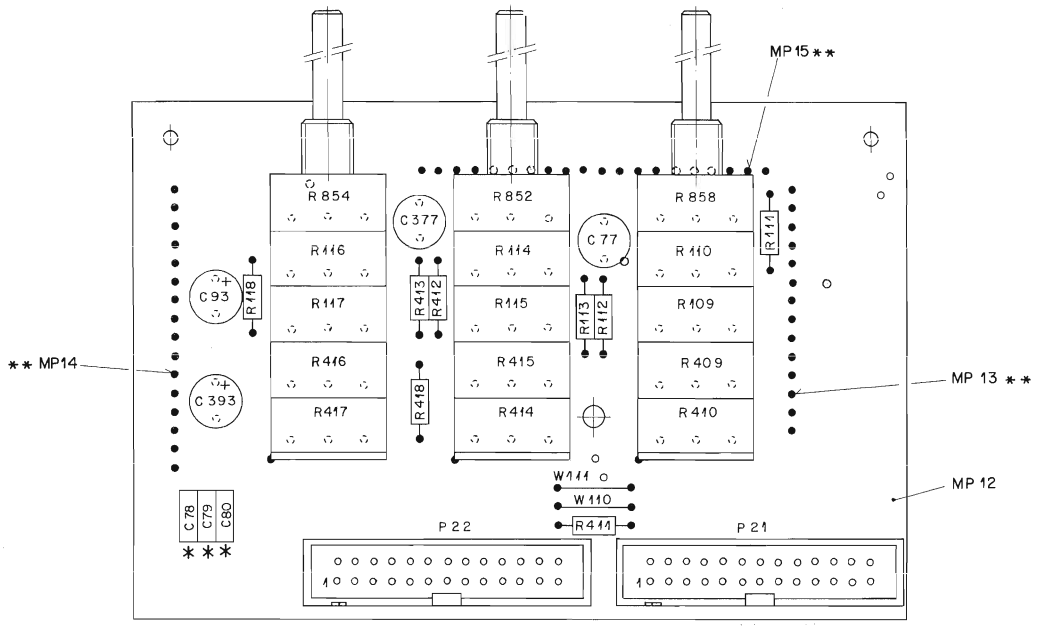
5 POT. 10mm BOARD **1.990.295.00**



Änderung					③
					②
					①
Ausgabe	31.1.90				⓪
	Datum	Gez.	Gepr.	Ges.	Index
Kopie für:					

STUDER REGENSDORF ZÜRICH	Benennung: 5 POT. 10mm BOARD	Nummer: 1.990.295-00

3 * 5 POT. 24,6mm BOARD 1.990.296.00



** MP13, MP14, MP15 auf Lötseite bestückt

* nicht bestückt

Ad	..POS..	...REF.No...	DESCRIPTION.....	MANUFACTURER	
	C....77	59.05.2472	4700 pF 2.5%		
	C....78	. .	not used		
	C....79	. .	not used		
	C....80	. .	not used		
	C....93	59.22.3101	100 uF 10V EL		
	C...377	59.05.2472	4700 pF 2.5%		
	C...393	59.22.3101	100 uF 10V EL		
	MP...12	1.990.296.11	1 pcs 3*5 Pot PCB		St
01	MP...12	1.990.296.12	1 pcs 3*5 pot PCB		St
	MP...13	54.01.0324	1 pcs Cis connector 14 Pol		
	MP...14	54.01.0326	1 pcs Cis connector 16 Pol		
	MP...15	54.01.0330	1 pcs Cis connector 20 Pol		
	P....21	54.14.2003	26Pol 1/20 inch PCB flat-cabel connector		Bu,Ya
	P....22	54.14.2003	26Pol 1/20 inch Pcb flat-cabel connector		Bu,Ya
	R...109	1.010.030.58	100 kOhm 10% neg.log.comb.with R110/409/410/858		St
	R...110	. .	100 KOhm 10% neg.log. see R109		
	R...111	57.11.3392	3.9 kOhm		
	R...112	57.11.3105	1 MOhm		
	R...113	57.11.3472	4.7 kOhm		
	R...114	1.010.030.58	100 kOhm 10% neg.log.comb.with R115/414/415/852		St
	R...115	. .	100 KOhm 10% neg.log. see R114		
	R...116	1.010.030.58	100 kOhm 10% neg.log.comb.with R117/416/417/854		St
	R...117	. .	100 KOhm 10% neg.log. see R116		
	R...118	57.11.3472	4.7 kOhm		
	R...409	. .	100 KOhm 10% neg.log. see R109		
	R...410	. .	100 KOhm 10% neg.log. see R109		
	R...411	57.11.3392	3.9 kOhm		
	R...412	57.11.3105	1 MOhm		
	R...413	57.11.3472	4.7 kOhm		
	R...414	. .	100 KOhm 10% neg.log. see R114		
	R...415	. .	100 KOhm 10% neg.log. see R114		
	R...416	. .	100 KOhm 10% neg.log. see R116		
	R...417	. .	100 KOhm 10% neg.log. see R116		
	R...418	57.11.3472	4.7 kOhm		
	R...852	. .	100 kOhm 20% lin. comb.with R114/115/414/415		
	R...854	. .	100 kOhm 20% lin. comb.with R116/117/416/417		
	R...858	. .	100 kOhm 20% lin. comb.with R109/110/409/410		
	W...110	57.11.3000	0 Ohm		
	W...111	57.11.3000	0 Ohm		

(01) 90/05/30 MP 12 NEW VERSION OF PCB

EL=Electrolytic, PP=Polypropylen

MANUFACTURER:
****
Bu=Burndy, St=Studer, Ya=Yamaichi

1.990.296.00 3*5 POT. 24.6MM BOARD TA 90/02/0900

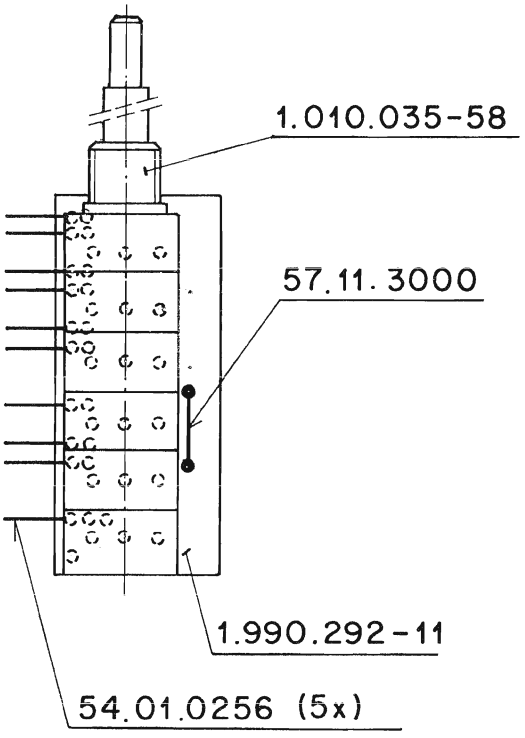
1.990.296.00 3*5 POT. 24.6MM BOARD TA 90/05/3001

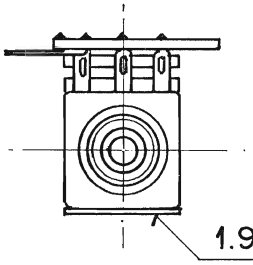
Änderung	Ausgabe	Datum	Gez.	Gepr.	Ges.	Index
						③
						②
						①
		6.2.90				⓪

Kopie für:

STUDER REGENSDORF ZÜRICH	Benennung: 3 * 5 POT. 24.6 mm BOARD	Nummer: 1.990.296-00

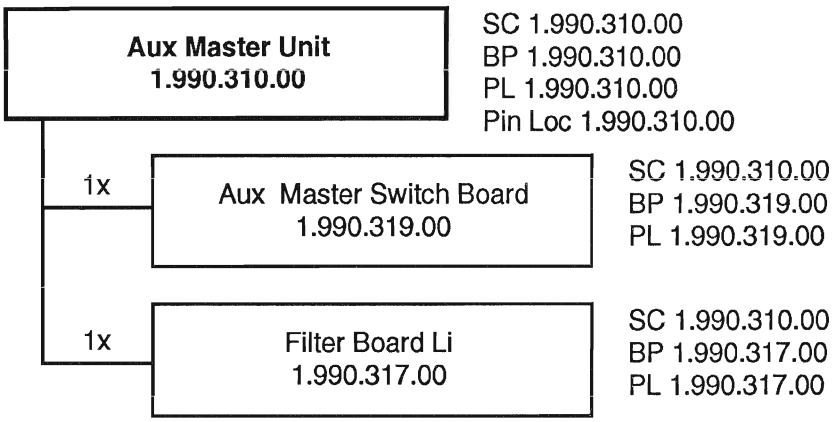
6 POT. 10mm BOARD **1.990.297.00**





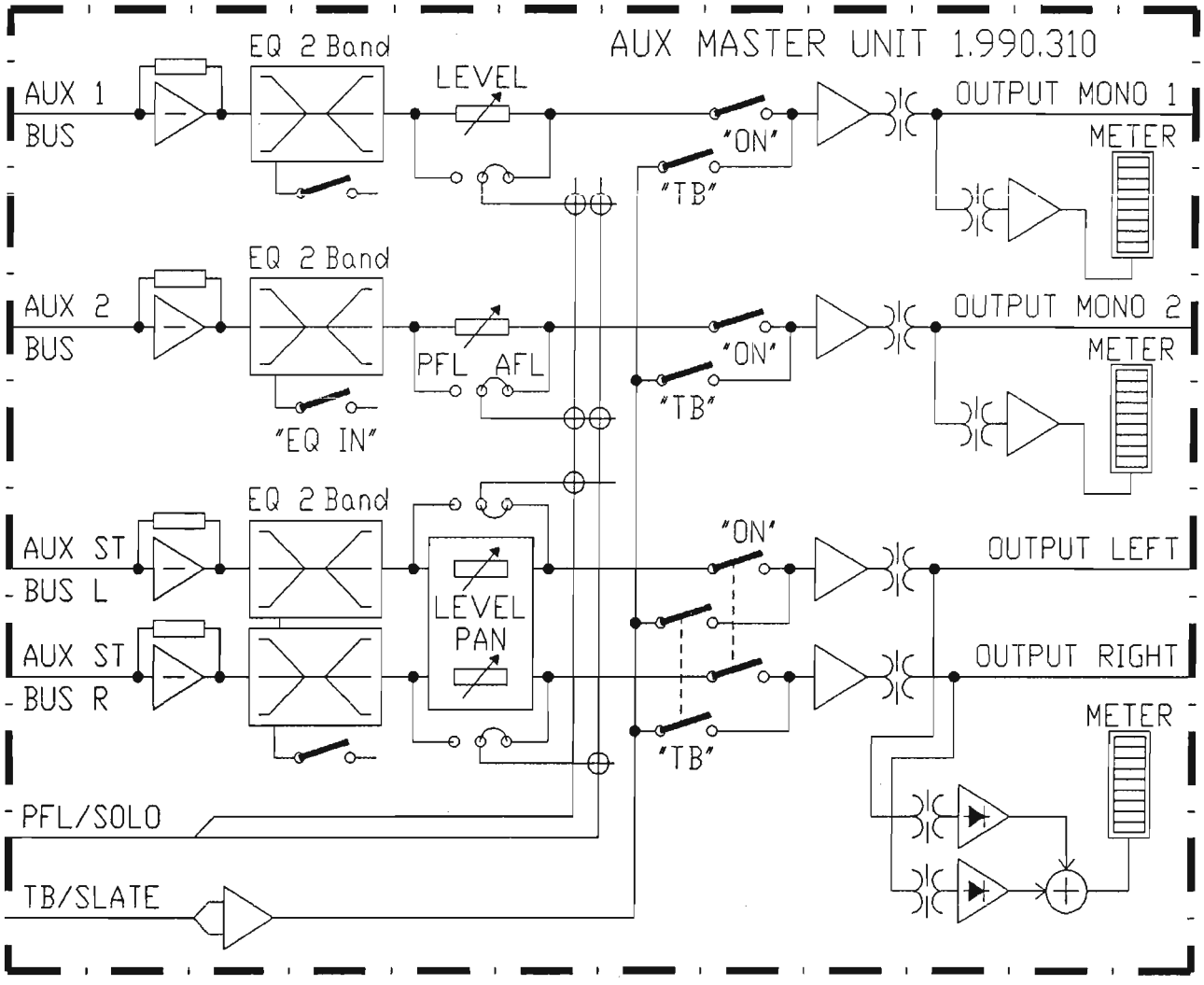
					Änderung	③ ② ①
		6.2.90			Ausgabe	⓪
		Datum	Gez.	Gepr.	Ges.	Index
		Kopie für:				
STUDER REGENSDORF ZÜRICH	Benennung: 6 POT. 10mm BOARD				Nummer:	1.990.297-00

Aux Master Unit 1.990.310.00

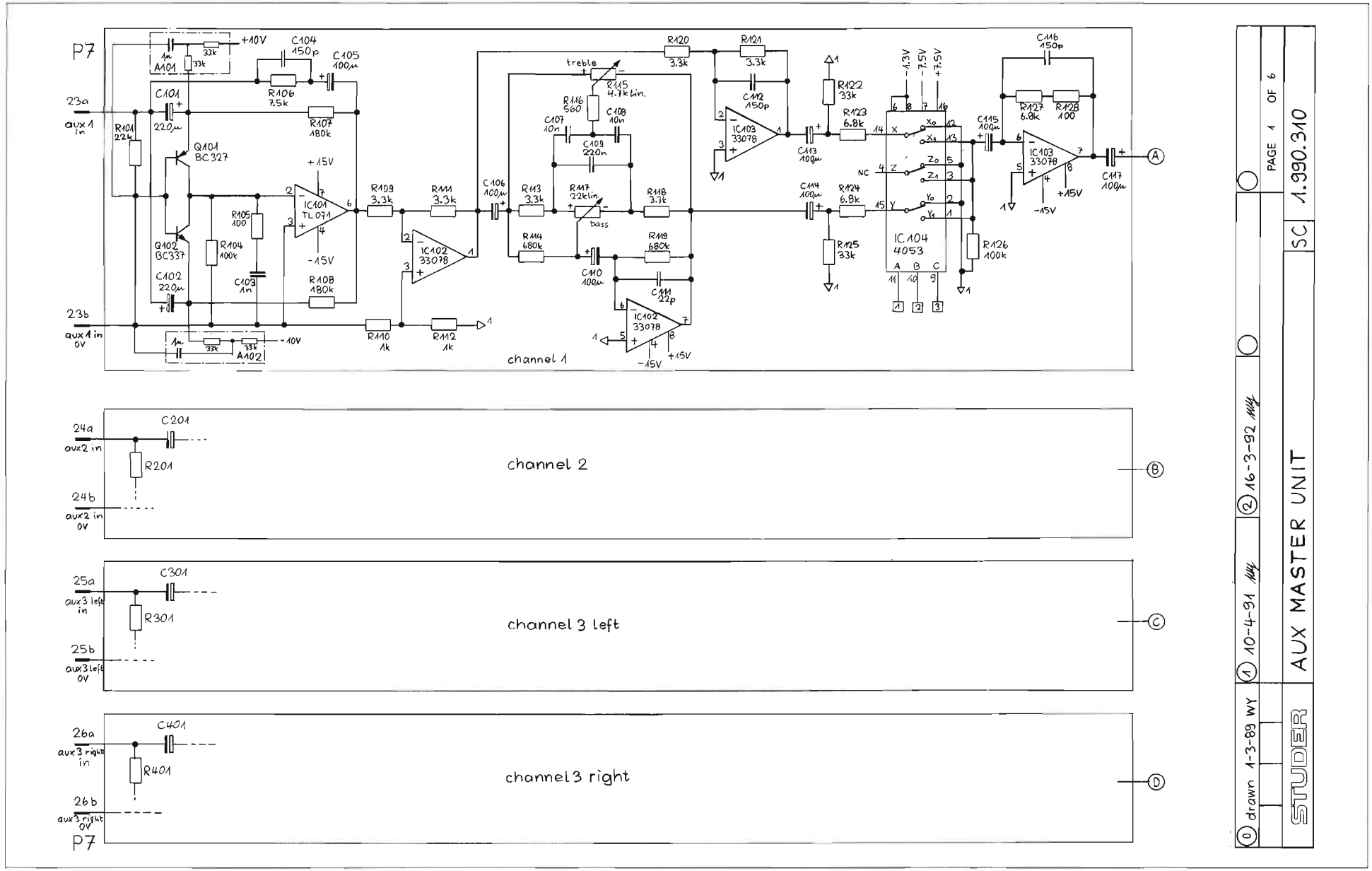


SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

AUX MASTER UNIT 1.990.310.00



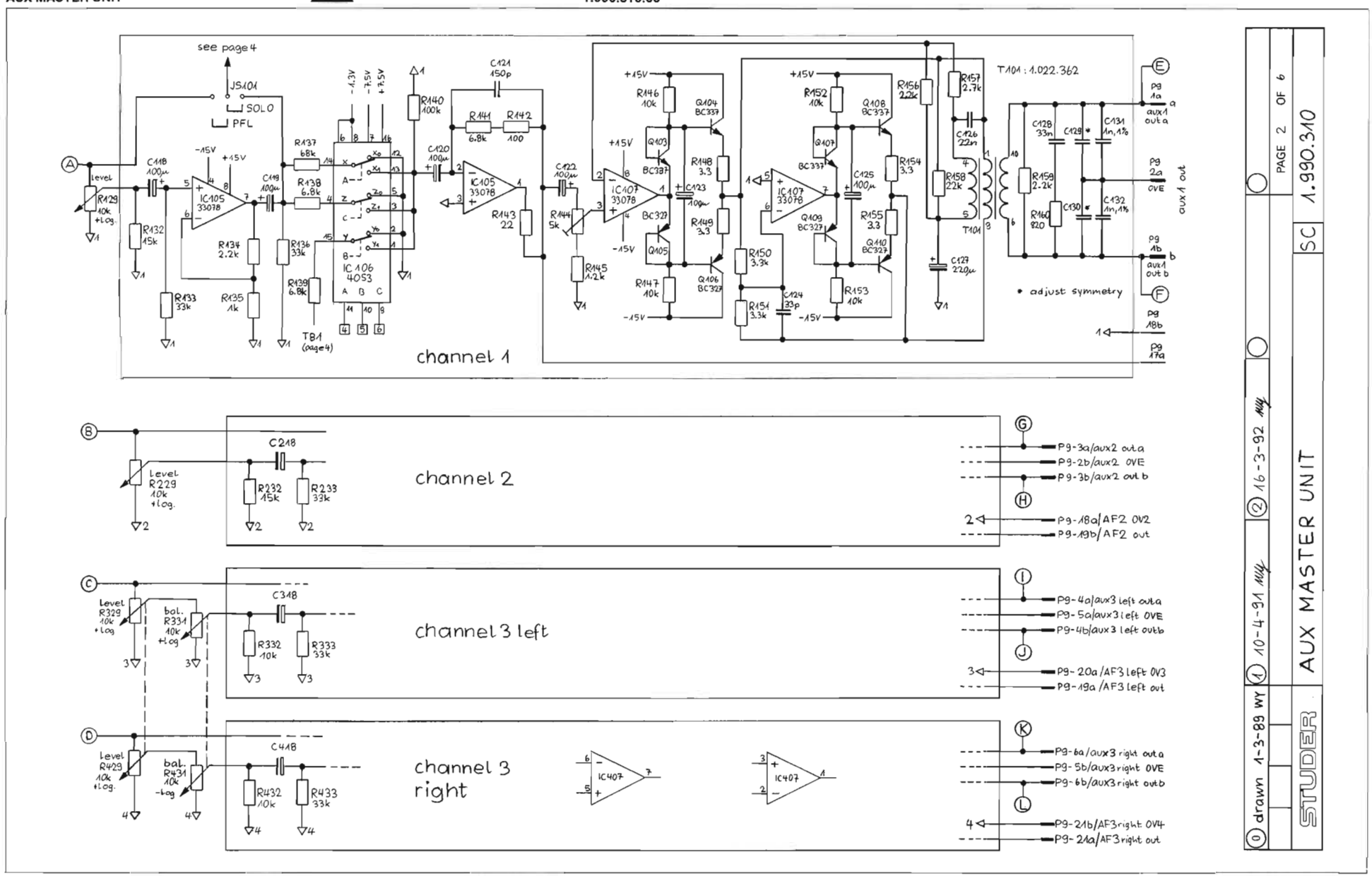
AUX MASTER UNIT 1.990.310.00



0	drawn 1-3-89 WY	STUDER	AUX MASTER UNIT	SC 1.990.310
1	10-4-91			PAGE 1 OF 6
2	16-3-92			

AUX MASTER UNIT

1.990.310.00

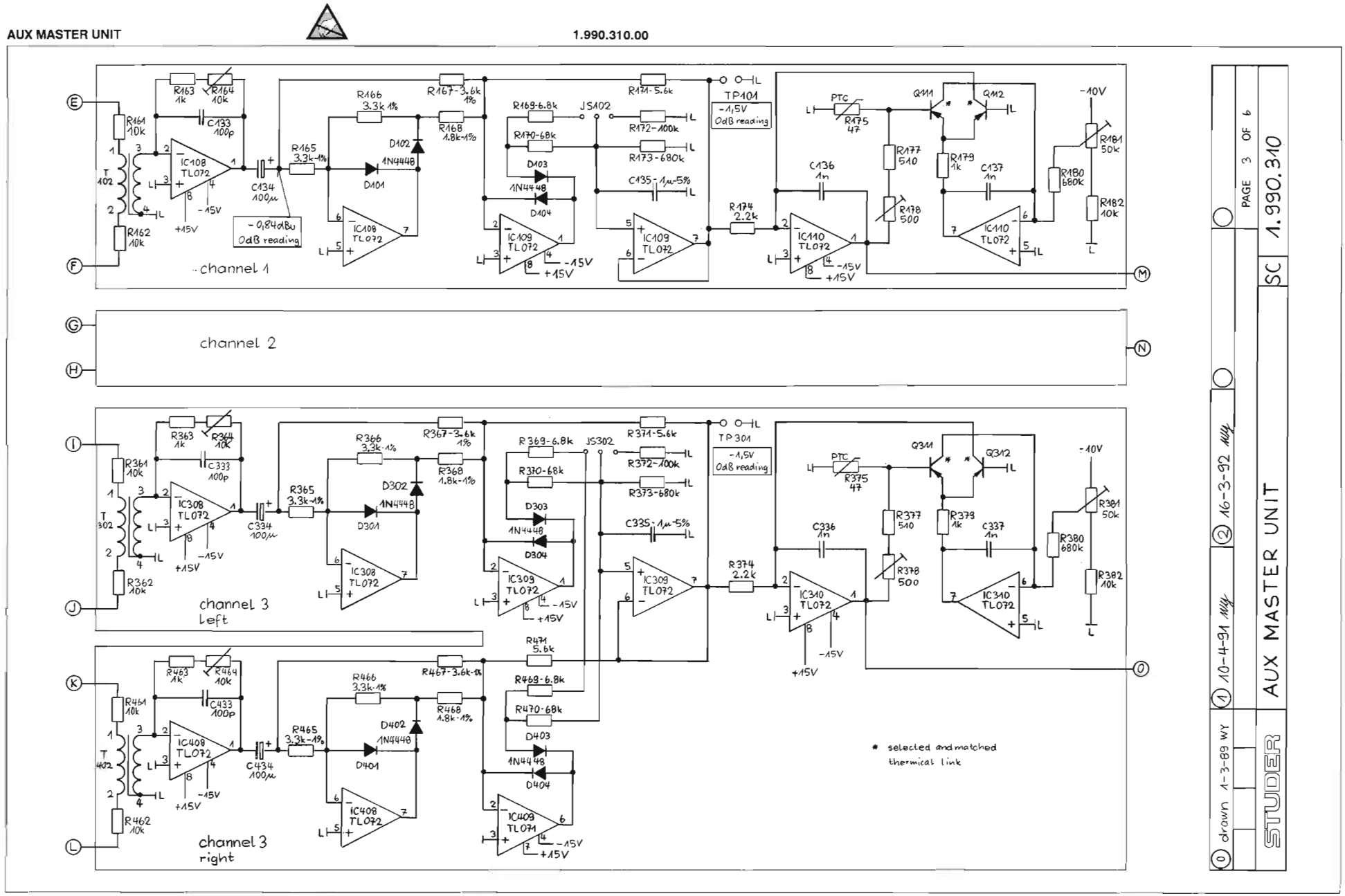


0	drawn 1-3-89 WY	1	10-4-91	2	16-3-92

STUDER AUX MASTER UNIT SC 1.990.310

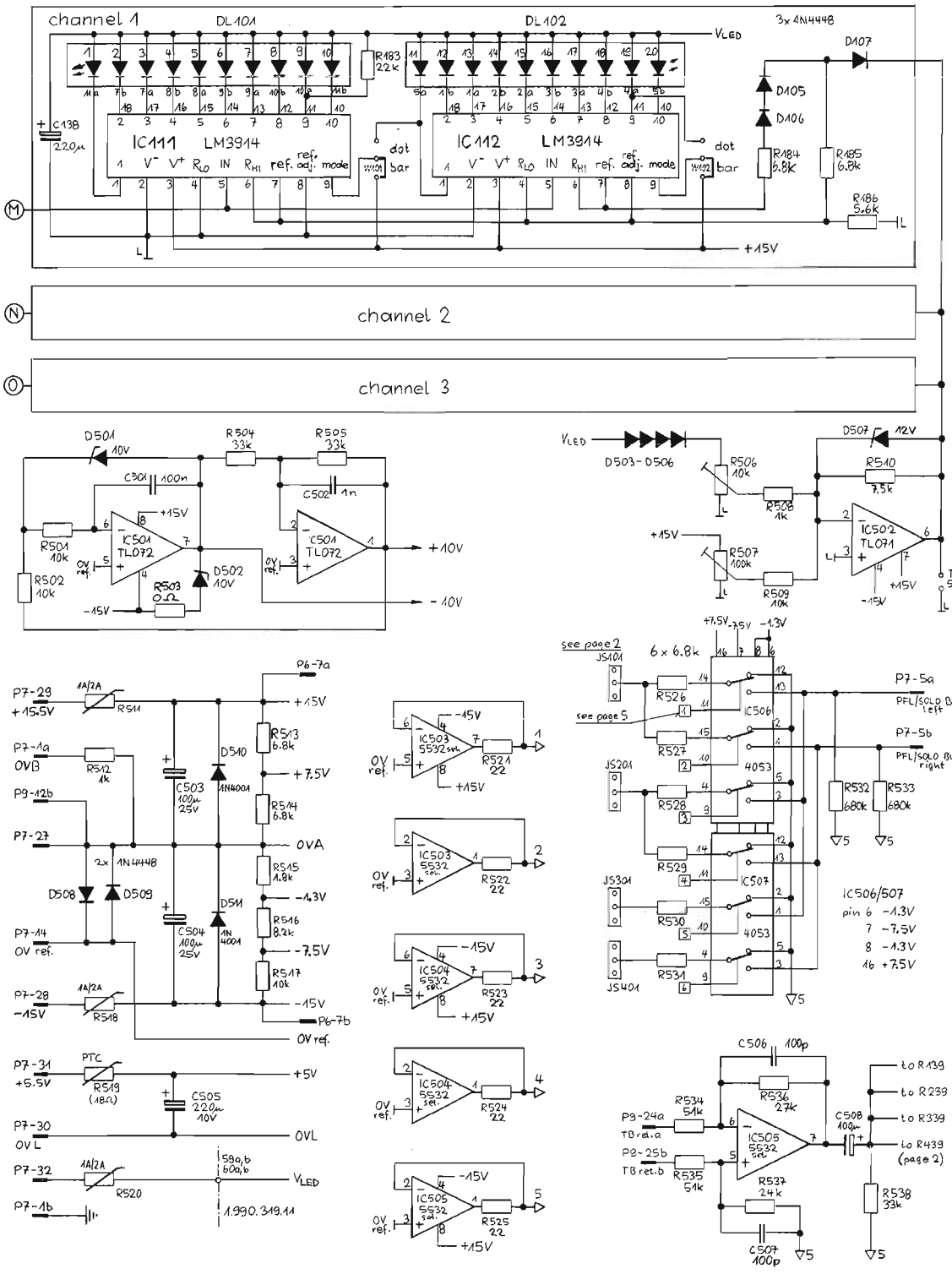
PAGE 2 OF 6

AUX MASTER UNIT 1.990.310.00



AUX MASTER UNIT

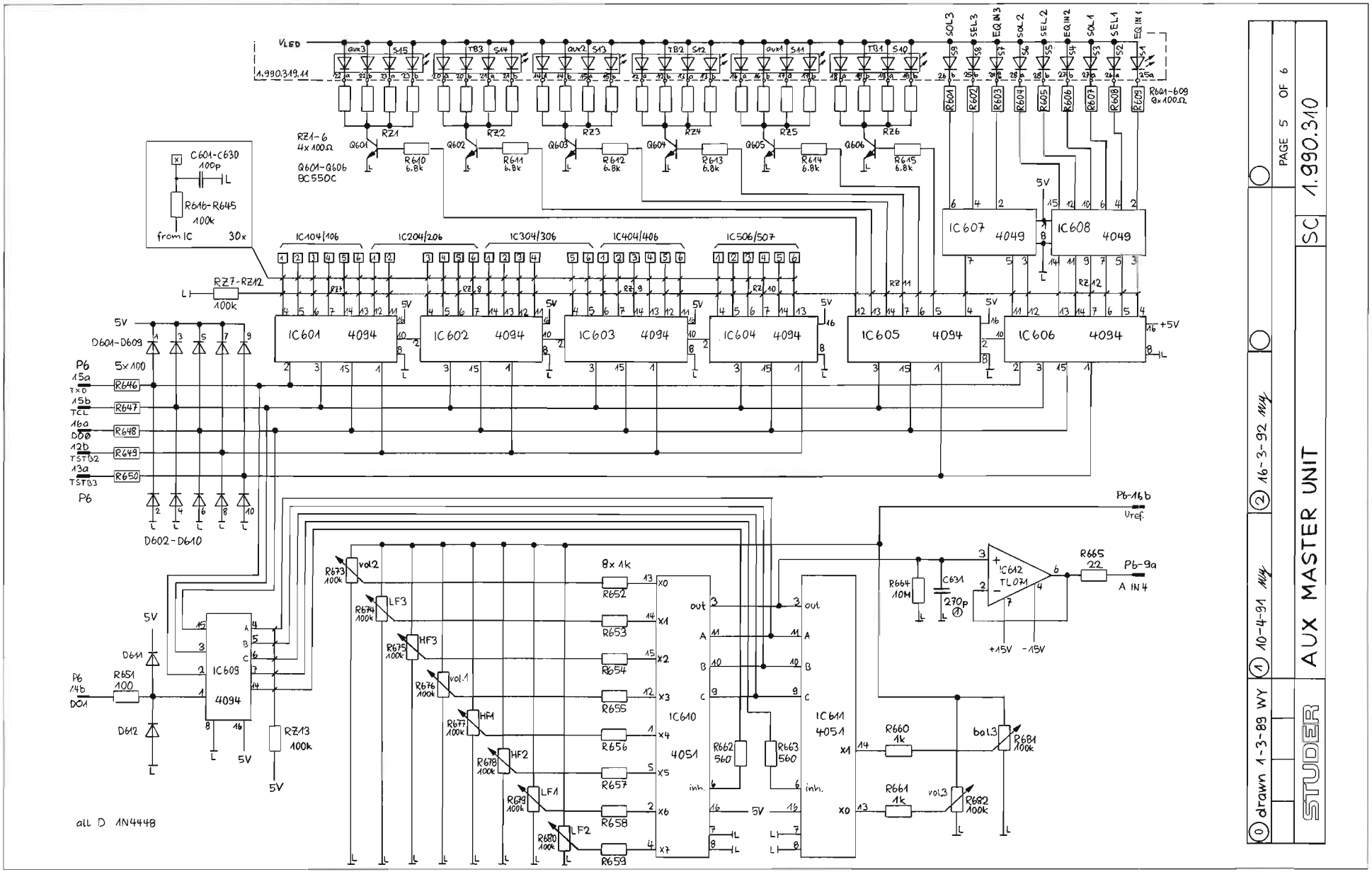
1.990.310.00



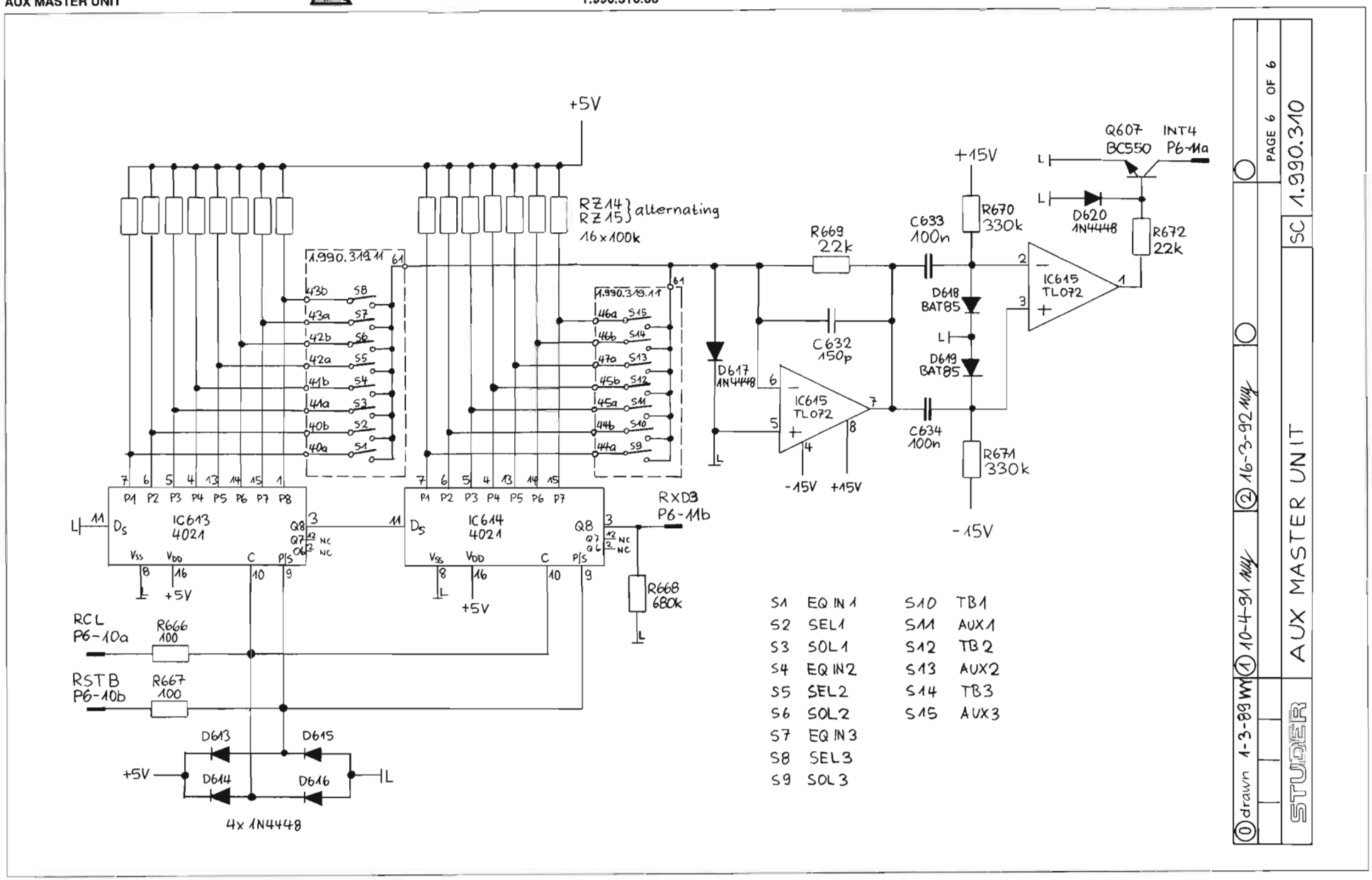
⓪ drawn 1-3-89 WY	① 10-4-91 wy	② 16-3-92 wy		
				PAGE 4 OF 6
STUDER	AUX MASTER UNIT		SC	1.990.310

AUX MASTER UNIT

1.990.310.00



AUX MASTER UNIT 1.990.310.00

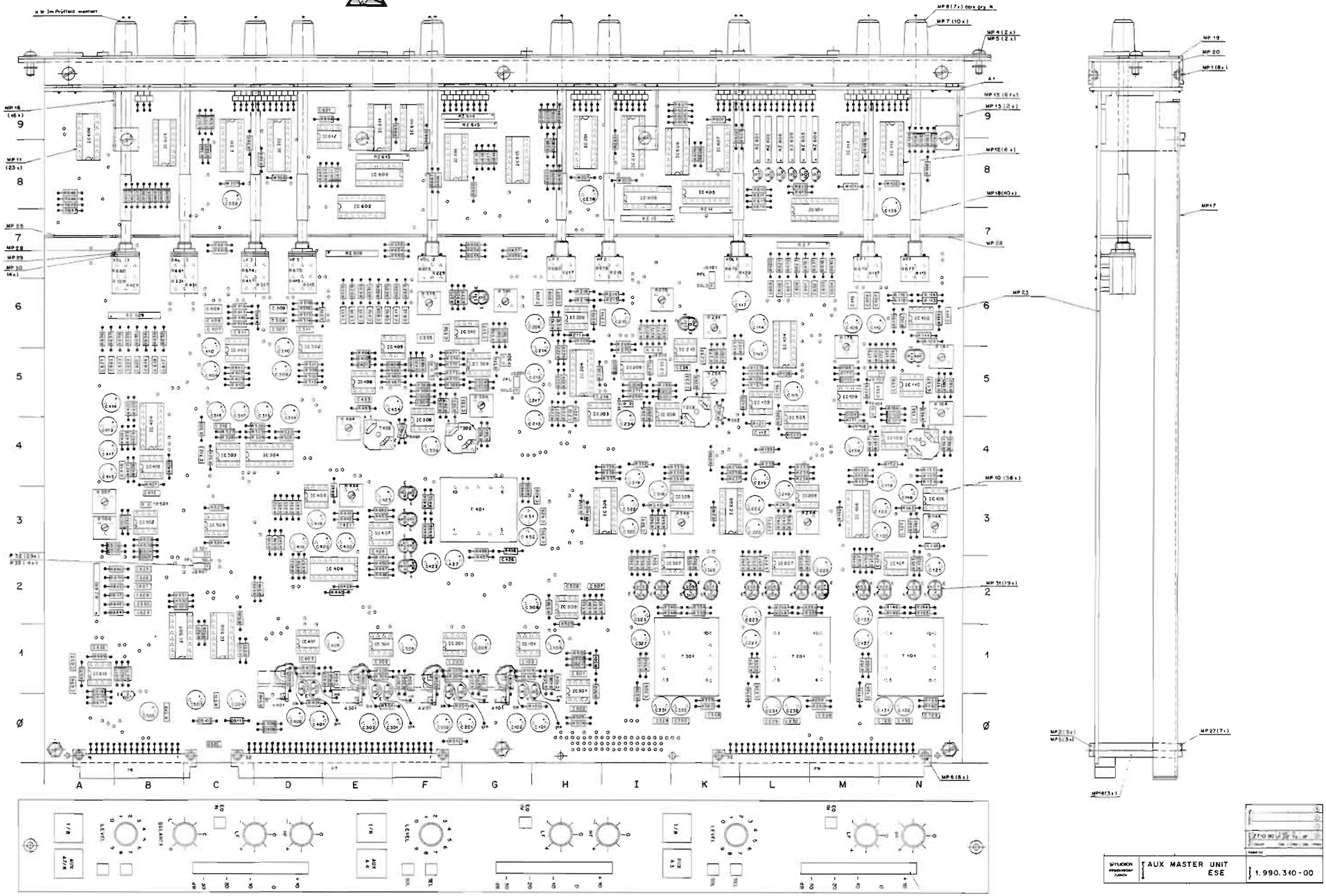


0	drawn	1-3-89	WM	SC	1.990.310
1		10-4-91			
2		16-3-92			
				PAGE 6 OF 6	

STUDER AUX MASTER UNIT

AUX MASTER UNIT ESE

1.990.310.00



STUDER	AUX MASTER UNIT ESE
	1.990.310-00

AUX MASTER UNIT

1.990.310.00

Ad	..POS..	...REF.No...	DESCRIPTION			MANUFACTURER
	A.....1	1.990.319.00	aux master switch board			ST
	A...101	1.990.317.00	filterboard li			ST
	A...201	1.990.317.00	filterboard li			ST
	A...301	1.990.317.00	filterboard li			ST
	A...401	1.990.317.00	filterboard li			ST
	C...101	59.22.3221	220 uF	10V	EL	
	C...102	59.22.3221	220 uF	10V	EL	
	C...103	59.06.5102	1 nF	5%	PE	
	C...104	59.34.4151	150 pF		CER	
	C...105	59.22.4101	100 uF	16V	EL	
	C...106	59.22.4101	100 uF	16V	EL	
	C...107	59.06.5103	10 nF	5%	PE	
	C...108	59.06.5103	10 nF	5%	PE	
	C...109	59.06.5224	220 nF	5%	PE	
	C...110	59.22.4101	100 uF	16V	EL	
	C...111	59.34.2220	22 pF		CER	
	C...112	59.34.4151	150 pF		CER	
	C...113	59.22.4101	100 uF	16V	EL	
	C...114	59.22.4101	100 uF	16V	EL	
	C...115	59.22.4101	100 uF	16V	EL	
	C...116	59.34.4151	150 pF		CER	
	C...117	59.22.4101	100 uF	16V	EL	
	C...118	59.22.4101	100 uF	16V	EL	
	C...119	59.22.4101	100 uF	16V	EL	
	C...120	59.22.4101	100 uF	16V	EL	
	C...121	59.34.4151	150 pF		CER	
	C...122	59.22.4101	100 uF	16V	EL	
	C...123	59.22.4101	100 uF	16V	EL	
	C...124	59.34.2330	33 pF		CER	
	C...125	59.22.4101	100 uF	16V	EL	
	C...126	59.06.0223	22 nF	10%	PE	
	C...127	59.22.3221	220 uF	10V	EL	
	C...128	59.06.0333	33 nF	10%	PE	
	C...131	59.05.1102	1 nF	1%	PP	
	C...132	59.05.1102	1 nF	1%	PP	
	C...133	59.34.4101	100 pF		CER	
	C...134	59.22.4101	100 uF	16V	EL	
	C...135	59.06.5105	1 uF	5%	PE	
	C...136	59.06.5102	1 nF		EL	
	C...137	59.06.5102	1 nF		EL	
	C...138	59.22.3221	220 uF	10V	EL	
	C...201	59.22.3221	220 uF	10V	EL	
	C...202	59.22.3221	220 uF	10V	EL	
	C...203	59.06.5102	1 nF	5%	PE	
	C...204	59.34.4151	150 pF		CER	
	C...205	59.22.4101	100 uF	16V	EL	
	C...206	59.22.4101	100 uF	16V	EL	
	C...207	59.06.5103	10 nF	5%	PE	
	C...208	59.06.5103	10 nF	5%	PE	
	C...209	59.06.5224	220 nF	5%	PE	
	C...210	59.22.4101	100 uF	16V	EL	
	C...211	59.34.2220	22 pF		CER	
	C...212	59.34.4151	150 pF		CER	
	C...213	59.22.4101	100 uF	16V	EL	
	C...214	59.22.4101	100 uF	16V	EL	
	C...215	59.22.4101	100 uF	16V	EL	
	C...216	59.34.4151	150 pF		CER	
	C...217	59.22.4101	100 uF	16V	EL	
	C...218	59.22.4101	100 uF	16V	EL	
	C...219	59.22.4101	100 uF	16V	EL	
	C...220	59.22.4101	100 uF	16V	EL	
	C...221	59.34.4151	150 pF		CER	
	C...222	59.22.4101	100 uF	16V	EL	
	C...223	59.22.4101	100 uF	16V	EL	
	C...224	59.34.2330	33 pF		CER	
	C...225	59.22.4101	100 uF	16V	EL	
	C...226	59.06.0223	22 nF	10%	PE	
	C...227	59.22.3221	220 uF	10V	EL	
	C...228	59.06.0333	33 nF	10%	PE	
	C...231	59.05.1102	1 nF	1%	PP	
	C...232	59.05.1102	1 nF	1%	PP	
	C...233	59.34.4101	100 pF		CER	
	C...234	59.22.4101	100 uF	16V	EL	
	C...235	59.06.5105	1 uF	5%	PE	
	C...236	59.06.5102	1 nF		EL	
	C...237	59.06.5102	1 nF		EL	
	C...238	59.22.3221	220 uF	10V	EL	
	C...301	59.22.3221	220 uF	10V	EL	
	C...302	59.22.3221	220 uF	10V	EL	
	C...303	59.06.5102	1 nF	5%	PE	
	C...304	59.34.4151	150 pF		CER	
	C...305	59.22.4101	100 uF	16V	EL	
	C...306	59.22.4101	100 uF	16V	EL	
	C...307	59.06.5103	10 nF	5%	PE	
	C...308	59.06.5103	10 nF	5%	PE	
	C...309	59.06.5224	220 nF	5%	PE	
	C...310	59.22.4101	100 uF	16V	EL	
	C...311	59.34.2220	22 pF		CER	
	C...312	59.34.4151	150 pF		CER	
	C...313	59.22.4101	100 uF	16V	EL	
	C...314	59.22.4101	100 uF	16V	EL	
	C...315	59.22.4101	100 uF	16V	EL	
	C...316	59.34.4151	150 pF		CER	
	C...317	59.22.4101	100 uF	16V	EL	
	C...318	59.22.4101	100 uF	16V	EL	
	C...319	59.22.4101	100 uF	16V	EL	
	C...320	59.22.4101	100 uF	16V	EL	
	C...321	59.34.4151	150 pF		CER	
	C...322	59.22.4101	100 uF	16V	EL	
	C...323	59.22.4101	100 uF	16V	EL	
	C...324	59.34.2330	33 pF		CER	
	C...325	59.22.4101	100 uF	16V	EL	
	C...326	59.06.0223	22 nF	10%	PE	
	C...327	59.22.3221	220 uF	10V	EL	
	C...328	59.06.0333	33 nF	10%	PE	
	C...331	59.05.1102	1 nF	1%	PP	
	C...332	59.05.1102	1 nF	1%	PP	
	C...333	59.34.4101	100 pF		CER	
	C...334	59.22.4101	100 uF	16V	EL	
	C...335	59.06.5105	1 uF	5%	PE	
	C...336	59.06.5102	1 nF		EL	
	C...337	59.06.5102	1 nF		EL	
	C...338	59.22.3221	220 uF	10V	EL	
	C...401	59.22.3221	220 uF	10V	EL	
	C...402	59.22.3221	220 uF	10V	EL	
	C...403	59.06.5102	1 nF	5%	PE	
	C...404	59.34.4151	150 pF		CER	
	C...405	59.22.4101	100 uF	16V	EL	
	C...406	59.22.4101	100 uF	16V	EL	
	C...407	59.06.5103	10 nF	5%	PE	
	C...408	59.06.5103	10 nF	5%	PE	
	C...409	59.06.5224	220 nF	5%	PE	
	C...410	59.22.4101	100 uF	16V	EL	
	C...411	59.34.2220	22 pF		CER	
	C...412	59.34.4151	150 pF		CER	
	C...413	59.22.4101	100 uF	16V	EL	
	C...414	59.22.4101	100 uF	16V	EL	
	C...415	59.22.4101	100 uF	16V	EL	
	C...416	59.34.4151	150 pF		CER	
	C...417	59.22.4101	100 uF	16V	EL	
	C...418	59.22.4101	100 uF	16V	EL	
	C...419	59.22.4101	100 uF	16V	EL	
	C...420	59.22.4101	100 uF	16V	EL	
	C...421	59.34.4151	150 pF		CER	
	C...422	59.22.4101	100 uF	16V	EL	
	C...423	59.22.4101	100 uF	16V	EL	
	C...424	59.34.2330	33 pF		CER	
	C...425	59.22.4101	100 uF	16V	EL	
	C...426	59.06.0223	22 nF	10%	PE	
	C...427	59.22.3221	220 uF	10V	EL	
	C...428	59.06.0333	33 nF	10%	PE	
	C...431	59.05.1102	1 nF	1%	PP	
	C...432	59.05.1102	1 nF	1%	PP	
	C...433	59.34.4101	100 pF		CER	
	C...434	59.22.4101	100 uF	16V	EL	
	C...501	59.06.5104	100 nF		PE	
	C...502	59.06.5102	1 nF		PE	
	C...503	59.22.5101	100 uF	25V	EL	
	C...504	59.22.5101	100 uF	25V	EL	
	C...505	59.22.3221	220 uF	10V	EL	
	C...506	59.34.4101	100 pF		CER	
	C...507	59.34.4101	100 pF		CER	
	C...508	59.22.4101	100 uF	16V	EL	
	C...601	59.34.4101	100 pF		CER	
	C...602	59.34.4101	100 pF		CER	
	C...603	59.34.4101	100 pF		CER	
	C...604	59.34.4101	100 pF		CER	
	C...605	59.34.4101	100 pF		CER	
	C...606	59.34.4101	100 pF		CER	
	C...607	59.34.4101	100 pF		CER	
	C...608	59.34.4101	100 pF		CER	
	C...609	59.34.4101	100 pF		CER	
	C...610	59.34.4101	100 pF		CER	
	C...611	59.34.4101	100 pF		CER	
	C...612	59.34.4101	100 pF		CER	
	C...613	59.34.4101	100 pF		CER	
	C...614	59.34.4101	100 pF		CER	
	C...615	59.34.4101	100 pF		CER	
	C...616	59.34.4101	100 pF		CER	
	C...617	59.34.4101	100 pF		CER	
	C...618	59.34.4101	100 pF		CER	
	C...619	59.34.4101	100 pF		CER	
	C...620	59.34.4101	100 pF		CER	
	C...621	59.34.4101	100 pF		CER	
	C...622	59.34.4101	100 pF		CER	
	C...623	59.34.4101	100 pF		CER	
	C...624	59.34.4101	100 pF		CER	
	C...625	59.34.4101	100 pF		CER	
	C...626	59.34.4101	100 pF		CER	
	C...627	59.34.4101	100 pF		CER	
	C...628	59.34.4101	100 pF		CER	
	C...629	59.34.4101	100 pF		CER	
	C...630	59.34.4101	100 pF		CER	
	C...631	59.06.0103	10 nF		PE	
01	C...631	59.34.4271	270 pF		CER	
	C...632	59.34.4151	150 pF		CER	
	C...633	59.06.5104	100 nF		PE	
	C...634	59.06.5104	100 nF		PE	

AUX MASTER UNIT

1.990.310.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	D...101	50.04.0125	1N4448	any
	D...102	50.04.0125	1N4448	any
	D...103	50.04.0125	1N4448	any
	D...104	50.04.0125	1N4448	any
	D...105	50.04.0125	1N4448	any
	D...106	50.04.0125	1N4448	any
	D...107	50.04.0125	1N4448	any
	D...201	50.04.0125	1N4448	any
	D...202	50.04.0125	1N4448	any
	D...203	50.04.0125	1N4448	any
	D...204	50.04.0125	1N4448	any
	D...205	50.04.0125	1N4448	any
	D...206	50.04.0125	1N4448	any
	D...207	50.04.0125	1N4448	any
	D...301	50.04.0125	1N4448	any
	D...302	50.04.0125	1N4448	any
	D...303	50.04.0125	1N4448	any
	D...304	50.04.0125	1N4448	any
	D...305	50.04.0125	1N4448	any
	D...306	50.04.0125	1N4448	any
	D...307	50.04.0125	1N4448	any
	D...401	50.04.0125	1N4448	any
	D...402	50.04.0125	1N4448	any
	D...403	50.04.0125	1N4448	any
	D...404	50.04.0125	1N4448	any
	D...501	50.04.1114	zener, 10V, 400mW	any
	D...502	50.04.1114	zener, 10V, 400mW	any
	D...503	50.04.0125	1N4448	any
	D...504	50.04.0125	1N4448	any
	D...505	50.04.0125	1N4448	any
	D...506	50.04.0125	1N4448	any
	D...507	50.04.1117	zener, 12V, 400mW	any
	D...508	50.04.0125	1N4448	any
	D...509	50.04.0125	1N4448	any
	D...510	50.04.0122	1N4001	any
	D...511	50.04.0122	1N4001	any
	D...601	50.04.0125	1N4448	any
	D...602	50.04.0125	1N4448	any
	D...603	50.04.0125	1N4448	any
	D...604	50.04.0125	1N4448	any
	D...605	50.04.0125	1N4448	any
	D...606	50.04.0125	1N4448	any
	D...607	50.04.0125	1N4448	any
	D...608	50.04.0125	1N4448	any
	D...609	50.04.0125	1N4448	any
	D...610	50.04.0125	1N4448	any
	D...611	50.04.0125	1N4448	any
	D...612	50.04.0125	1N4448	any
	D...613	50.04.0125	1N4448	any
	D...614	50.04.0125	1N4448	any
	D...615	50.04.0125	1N4448	any
	D...616	50.04.0125	1N4448	any
	D...617	50.04.0125	1N4448	any
	D...618	50.04.0127	BAT85 BAT42	any
	D...619	50.04.0127	BAT85 BAT42	any
	D...620	50.04.0125	1N4448	any
	IC..101	50.09.0103	TL071 single FET-op.amp.	TI
	IC..102	50.09.0117	MC330078P dual op.amp.	Mot
	IC..103	50.09.0117	MC330078P dual op.amp.	Mot
	IC..104	50.07.0015	CD4053 3*2-ch.analog mux/demux	1)
	IC..105	50.09.0117	MC330078P dual op.amp.	Mot
	IC..106	50.07.0015	CD4053 3*2-ch.analog mux/demux	1)
	IC..107	50.09.0117	MC330078P dual op.amp.	Mot
	IC..108	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..109	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..110	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..111	50.11.0119	LM3914 display driver	NS
	IC..112	50.11.0119	LM3914 display driver	NS
	IC..201	50.09.0103	TL071 single FET-op.amp.	TI
	IC..202	50.09.0117	MC330078P dual op.amp.	Mot
	IC..203	50.09.0117	MC330078P dual op.amp.	Mot
	IC..204	50.07.0015	CD4053 3*2-ch.analog mux/demux	1)
	IC..205	50.09.0117	MC330078P dual op.amp.	Mot
	IC..206	50.07.0015	CD4053 3*2-ch.analog mux/demux	1)
	IC..207	50.09.0117	MC330078P dual op.amp.	Mot
	IC..208	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..209	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..210	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..211	50.11.0119	LM3914 display driver	NS
	IC..212	50.11.0119	LM3914 display driver	NS
	IC..301	50.09.0103	TL071 single FET-op.amp.	TI
	IC..302	50.09.0117	MC330078P dual op.amp.	Mot
	IC..303	50.09.0117	MC330078P dual op.amp.	Mot
	IC..304	50.07.0015	CD4053 3*2-ch.analog mux/demux	1)
	IC..305	50.09.0117	MC330078P dual op.amp.	Mot
	IC..306	50.07.0015	CD4053 3*2-ch.analog mux/demux	1)
	IC..307	50.09.0117	MC330078P dual op.amp.	Mot
	IC..308	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..309	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..310	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..311	50.11.0119	LM3914 display driver	NS
	IC..312	50.11.0119	LM3914 display driver	NS
	IC..401	50.09.0103	TL071 single FET-op.amp.	TI

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	IC..402	50.09.0117	MC330078P dual op.amp.	Mot
	IC..403	50.09.0117	MC330078P dual op.amp.	Mot
	IC..404	50.07.0015	CD4053 3*2-ch.analog mux/demux	1)
	IC..405	50.09.0117	MC330078P dual op.amp.	Mot
	IC..406	50.07.0015	CD4053 3*2-ch.analog mux/demux	1)
	IC..407	50.09.0117	MC330078P dual op.amp.	Mot
	IC..408	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..409	50.09.0103	TL071 single FET-op.amp.	TI
	IC..501	50.09.0101	TL072 dual FET-op.amp.	TI
	IC..502	50.09.0103	TL071 single FET-op.amp.	TI
	IC..503	1.010.051.50	NE5532A dual op.amp. sel.	ST
	IC..504	1.010.051.50	NE5532A dual op.amp. sel.	ST
	IC..505	1.010.051.50	NE5532A dual op.amp. sel.	ST
	IC..506	50.07.0015	CD4053 3*2-ch.analog mux/demux	1)
	IC..507	50.07.0015	CD4053 3*2-ch.analog mux/demux	1)
	IC..601	50.07.0018	CD4094 shift and store bus register	2)
	IC..602	50.07.0018	CD4094 shift and store bus register	2)
	IC..603	50.07.0018	CD4094 shift and store bus register	2)
	IC..604	50.07.0018	CD4094 shift and store bus register	2)
	IC..605	50.07.0018	CD4094 shift and store bus register	2)
	IC..606	50.07.0018	CD4094 shift and store bus register	2)
	IC..607	50.07.0049	CD4049 hex inverting buffer CMOS	Ph,To
	IC..608	50.07.0049	CD4049 hex inverting buffer CMOS	Ph,To
	IC..609	50.07.0018	CD4094 shift and store bus register	2)
	IC..610	50.07.0051	CD4051 8-channel analog mux/demux	1)
	IC..611	50.07.0051	CD4051 8-channel analog mux/demux	1)
	IC..612	50.09.0103	TL071 single FET-op.amp.	TI
	IC..613	50.07.1021	CD4021 8-bit static shift register	2)
	IC..614	50.07.1021	CD4021 8-bit static shift register	2)
	IC..615	50.09.0101	TL072 dual FET-op.amp.	TI
	MP....1	21.01.2352	6 pcs S-Schraube M3x4	
	MP....2	21.53.0354	3 pcs Z-Schraube M3x6	
	MP....3	24.16.1030	3 pcs Rippenscheibe 3.2 / 5.5	
	MP....4	24.16.3023	2 pcs Wellensicherung 2.3	
	MP....5	1.010.022.21	2 pcs Linsenschraube M3X8 IS spez sw	
	MP....6	28.99.0119	6 pcs Rohrniete 2.5 0.15	
	MP....7	42.01.0228	10 pcs Knebelknopf GR 10 / 4	
	MP....8	42.01.0250	7 pcs Deckel HGR	
	MP...10	53.03.0166	38 pcs IC-socket 8 pin	
	MP...11	53.03.0168	23 pcs IC-socket 16 pin	
	MP...12	53.03.0175	6 pcs IC-socket 18 pin	
	MP...13	54.11.0131	61 pcs Steckerstifte 2-reihig, gebogen	
	MP...14	1.010.048.27	3 pcs Mutterbolzen M3x32.5	
	MP...15	1.990.100.02	2 pcs Querprintstutze links	
	MP...16	1.990.100.03	2 pcs Querprintstutze rechts	
	MP...17	1.990.200.03	1 pcs Schirmblech input	
	MP...18	1.990.200.05	10 pcs Achsverlangerung 61mm pot 12	
	MP...19	1.990.310.01	1 pcs Frontschild aux master	
	MP...20	1.990.310.02	1 pcs Trager aux master	
	MP...22	1.990.310.05	3 pcs Fenster aux master	
	MP...23	1.990.310.11	1 pcs aux master PCB	
	MP...25	1.990.310.06	1 pcs Abschirmung a/d links	
	MP...26	1.990.310.07	1 pcs Abschirmung a/d rechts	
	MP...27	21.99.0117	7 pcs Z-Schraube Nylon M3x6	
	MP...28	22.99.0137	4 pcs 6-kt-Mutter M7 0.75 PREH	
	MP...29	23.99.0122	4 pcs U-Scheibe 7.1 12 0.5 PREH	
	MP...30	1.010.100.58	4 pcs Masseblech zu PREH-Pot Typ 12	
	MP...31	50.20.2001	19 pcs Clip 2*TO92	
	MP...32	54.01.0020	29 pcs Steckerstifte 1-reihig, gerade	
	MP...33	54.01.0021	4 pcs J Brucke 2*0.63	
	P.....6	54.11.2013	2*16 pin eurocard connector, male	
	P.....7	54.11.2004	2*32 pin eurocard connector, male	
	P.....9	54.11.2004	2*32 pin eurocard connector, male	
	Q...101	50.03.0625	BC327 PNP 800mA	
	Q...102	50.03.0516	BC337 NPN 800mA	
	Q...103	50.03.0516	BC337 NPN 800mA	
	Q...104	50.03.0516	BC337 NPN 800mA	
	Q...105	50.03.0625	BC327 PNP 800mA	
	Q...106	50.03.0625	BC327 PNP 800mA	
	Q...107	50.03.0516	BC337 NPN 800mA	
	Q...108	50.03.0516	BC337 NPN 800mA	
	Q...109	50.03.0625	BC327 PNP 800mA	
	Q...110	50.03.0625	BC327 PNP 800mA	
	Q...111	50.43.0600	BC560 PNP selected E6310	ST
	Q...112	50.43.0600	BC560 PNP selected E6310	ST
	Q...201	50.03.0625	BC327 PNP 800mA	
	Q...202	50.03.0516	BC337 NPN 800mA	
	Q...203	50.03.0516	BC337 NPN 800mA	
	Q...204	50.03.0516	BC337 NPN 800mA	
	Q...205	50.03.0625	BC327 PNP 800mA	
	Q...206	50.03.0625	BC327 PNP 800mA	
	Q...207	50.03.0516	BC337 NPN 800mA	
	Q...208	50.03.0516	BC337 NPN 800mA	
	Q...209	50.03.0625	BC327 PNP 800mA	
	Q...210	50.03.0625	BC327 PNP 800mA	
	Q...211	50.43.0600	BC560 PNP selected E6310	ST
	Q...212	50.43.0600	BC560 PNP selected E6310	ST
	Q...301	50.03.0625	BC327 PNP 800mA	
	Q...302	50.03.0516	BC337 NPN 800mA	
	Q...303	50.03.0516	BC337 NPN 800mA	
	Q...304	50.03.0516	BC337 NPN 800mA	
	Q...305	50.03.0625	BC327 PNP 800mA	
	Q...306	50.03.0625	BC327 PNP 800mA	
	Q...307	50.03.0516	BC337 NPN 800mA	

AUX MASTER UNIT

1.990.310.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	Q...308	50.03.0516	BC337 NPN 800mA	
	Q...309	50.03.0625	BC327 PNP 800mA	
	Q...310	50.03.0625	BC327 PNP 800mA	
	Q...311	50.43.0600	BC560 PNP selected E6310	ST
	Q...312	50.43.0600	BC560 PNP selected E6310	ST
	Q...401	50.03.0625	BC327 PNP 800mA	
	Q...402	50.03.0516	BC337 NPN 800mA	
	Q...403	50.03.0516	BC337 NPN 800mA	
	Q...404	50.03.0516	BC337 NPN 800mA	
	Q...405	50.03.0625	BC327 PNP 800mA	
	Q...406	50.03.0625	BC327 PNP 800mA	
	Q...407	50.03.0516	BC337 NPN 800mA	
	Q...408	50.03.0516	BC337 NPN 800mA	
	Q...409	50.03.0625	BC327 PNP 800mA	
	Q...410	50.03.0625	BC327 PNP 800mA	
	Q...601	50.03.0407	BC550C NPN 100mA hfe>300	Ph, Sie
	Q...602	50.03.0407	BC550C NPN 100mA hfe>300	Ph, Sie
	Q...603	50.03.0407	BC550C NPN 100mA hfe>300	Ph, Sie
	Q...604	50.03.0407	BC550C NPN 100mA hfe>300	Ph, Sie
	Q...605	50.03.0407	BC550C NPN 100mA hfe>300	Ph, Sie
	Q...606	50.03.0407	BC550C NPN 100mA hfe>300	Ph, Sie
	Q...607	50.03.0407	BC550C NPN 100mA hfe>300	Ph, Sie
	R...101	57.11.3223	22 kOhm	
	R...104	57.11.3104	100 kOhm	
	R...105	57.11.3101	100 Ohm	
	R...106	57.11.3752	7.5 kOhm 1%	
	R...107	57.11.3184	180 kOhm	
	R...108	57.11.3184	180 kOhm	
	R...109	57.11.3332	3.3 kOhm 1%	
	R...110	57.11.3102	1 kOhm 1%	
	R...111	57.11.3332	3.3 kOhm 1%	
	R...112	57.11.3102	1 kOhm 1%	
	R...113	57.11.3332	3.3 kOhm	
	R...114	57.11.3684	680 kOhm	
	R...115	1.010.108.58	4.7 kOhm incl. R677 100k HF1	ST
	R...116	57.11.3561	560 Ohm	
	R...117	1.010.105.58	22 kOhm incl. R679 100k LF1	ST
	R...118	57.11.3332	3.3 kOhm	
	R...119	57.11.3684	680 kOhm	
	R...120	57.11.3332	3.3 kOhm	
	R...121	57.11.3332	3.3 kOhm	
	R...122	57.11.3333	33 kOhm	
	R...123	57.11.3682	6.8 kOhm	
	R...124	57.11.3682	6.8 kOhm	
	R...125	57.11.3333	33 kOhm	
	R...126	57.11.3104	100 kOhm	
	R...127	57.11.3682	6.8 kOhm	
	R...128	57.11.3101	100 Ohm	
	R...129	1.010.106.58	10 kOhm incl. R676 100k VOL1	ST
	R...132	57.11.3153	15 kOhm	
	R...133	57.11.3333	33 kOhm	
	R...134	57.11.3222	2.2 kOhm	
	R...135	57.11.3102	1 kOhm	
	R...136	57.11.3333	33 kOhm	
	R...137	57.11.3683	68 kOhm	
	R...138	57.11.3682	6.8 kOhm	
	R...139	57.11.3682	6.8 kOhm	
	R...140	57.11.3104	100 kOhm	
	R...141	57.11.3682	6.8 kOhm	
	R...142	57.11.3101	100 Ohm	
	R...143	57.11.3220	22 Ohm	
	R...144	58.01.8502	5 kOhm trimpot.	
	R...145	57.11.3122	1.2 kOhm	
	R...146	57.11.3103	10 kOhm	
	R...147	57.11.3103	10 kOhm	
	R...148	57.11.3339	3.3 Ohm	
	R...149	57.11.3339	3.3 Ohm	
	R...150	57.11.3332	3.3 kOhm	
	R...151	57.11.3332	3.3 kOhm	
	R...152	57.11.3103	10 kOhm	
	R...153	57.11.3103	10 kOhm	
	R...154	57.11.3339	3.3 Ohm	
	R...155	57.11.3339	3.3 Ohm	
	R...156	57.11.3222	2.2 kOhm	
	R...157	57.11.3272	2.7 kOhm	
	R...158	57.11.3223	22 kOhm	
	R...159	57.11.3222	2.2 kOhm	
	R...160	57.11.3821	820 Ohm	
	R...161	57.11.3103	10 kOhm 1%	
	R...162	57.11.3103	10 kOhm 1%	
	R...163	57.11.3102	1 kOhm	
	R...164	58.01.8103	10 kOhm trimpot.	
	R...165	57.11.3332	3.3 kOhm 1%	
	R...166	57.11.3332	3.3 kOhm 1%	
	R...167	57.11.3362	3.6 kOhm 1%	
	R...168	57.11.3182	1.8 kOhm 1%	
	R...169	57.11.3682	6.8 kOhm	
	R...170	57.11.3683	68 kOhm	
	R...171	57.11.3562	5.6 kOhm 1%	
	R...172	57.11.3104	100 kOhm	
	R...173	57.11.3684	680 kOhm	
	R...174	57.11.3222	2.2 kOhm	
	R...175	57.99.0252	47 Ohm Tk=+4500ppm	
	R...177	57.11.3511	510 Ohm	
	R...178	58.01.8501	500 Ohm trimpot.	
	R...179	57.11.3102	1 kOhm	
	R...180	57.11.3684	680 kOhm	
	R...181	58.01.8503	50 kOhm trimpot.	
	R...182	57.11.3103	10 kOhm	
	R...183	57.11.3223	22 kOhm	
	R...184	57.11.3682	6.8 kOhm	
	R...185	57.11.3682	6.8 kOhm	
	R...186	57.11.3562	5.6 kOhm	
	R...201	57.11.3223	22 kOhm	
	R...204	57.11.3104	100 kOhm	
	R...205	57.11.3101	100 Ohm	
	R...206	57.11.3752	7.5 kOhm 1%	
	R...207	57.11.3184	180 kOhm	
	R...208	57.11.3184	180 kOhm	
	R...209	57.11.3332	3.3 kOhm 1%	
	R...210	57.11.3102	1 kOhm 1%	
	R...211	57.11.3332	3.3 kOhm 1%	
	R...212	57.11.3102	1 kOhm 1%	
	R...213	57.11.3332	3.3 kOhm	
	R...214	57.11.3684	680 kOhm	
	R...215	1.010.108.58	4.7 kOhm incl. R678 100k HF2	ST
	R...216	57.11.3561	560 Ohm	
	R...217	1.010.105.58	22 kOhm incl. R680 100k LF2	ST
	R...218	57.11.3332	3.3 kOhm	
	R...219	57.11.3684	680 kOhm	
	R...220	57.11.3332	3.3 kOhm	
	R...221	57.11.3332	3.3 kOhm	
	R...222	57.11.3333	33 kOhm	
	R...223	57.11.3682	6.8 kOhm	
	R...224	57.11.3682	6.8 kOhm	
	R...225	57.11.3333	33 kOhm	
	R...226	57.11.3104	100 kOhm	
	R...227	57.11.3682	6.8 kOhm	
	R...228	57.11.3101	100 Ohm	
	R...229	1.010.106.58	10 kOhm incl. R673 100k level 2	ST
	R...232	57.11.3153	15 kOhm	
	R...233	57.11.3333	33 kOhm	
	R...234	57.11.3222	2.2 kOhm	
	R...235	57.11.3102	1 kOhm	
	R...236	57.11.3333	33 kOhm	
	R...237	57.11.3683	68 kOhm	
	R...238	57.11.3682	6.8 kOhm	
	R...239	57.11.3682	6.8 kOhm	
	R...240	57.11.3104	100 kOhm	
	R...241	57.11.3682	6.8 kOhm	
	R...242	57.11.3101	100 Ohm	
	R...243	57.11.3220	22 Ohm	
	R...244	58.01.8502	5 kOhm trimpot.	
	R...245	57.11.3122	1.2 kOhm	
	R...246	57.11.3103	10 kOhm	
	R...247	57.11.3103	10 kOhm	
	R...248	57.11.3339	3.3 Ohm	
	R...249	57.11.3339	3.3 Ohm	
	R...250	57.11.3332	3.3 kOhm	
	R...251	57.11.3332	3.3 kOhm	
	R...252	57.11.3103	10 kOhm	
	R...253	57.11.3103	10 kOhm	
	R...254	57.11.3339	3.3 Ohm	
	R...255	57.11.3339	3.3 Ohm	
	R...256	57.11.3222	2.2 kOhm	
	R...257	57.11.3272	2.7 kOhm	
	R...258	57.11.3223	22 kOhm	
	R...259	57.11.3222	2.2 kOhm	
	R...260	57.11.3821	820 Ohm	
	R...261	57.11.3103	10 kOhm 1% R261/R262 crossed	
	R...262	57.11.3103	10 kOhm 1%	
	R...263	57.11.3102	1 kOhm	
	R...264	58.01.8103	10 kOhm trimpot.	
	R...265	57.11.3332	3.3 kOhm 1%	
	R...266	57.11.3332	3.3 kOhm 1%	
	R...267	57.11.3362	3.6 kOhm 1%	
	R...268	57.11.3182	1.8 kOhm 1%	
	R...269	57.11.3682	6.8 kOhm	
	R...270	57.11.3683	68 kOhm	
	R...271	57.11.3562	5.6 kOhm 1%	
	R...272	57.11.3104	100 kOhm	
	R...273	57.11.3684	680 kOhm	
	R...274	57.11.3222	2.2 kOhm	
	R...275	57.99.0252	47 Ohm Tk=+4500ppm	
	R...277	57.11.3511	510 Ohm	
	R...278	58.01.8501	500 Ohm trimpot.	
	R...279	57.11.3102	1 kOhm	
	R...280	57.11.3684	680 kOhm	
	R...281	58.01.8503	50 kOhm trimpot.	
	R...282	57.11.3103	10 kOhm	
	R...283	57.11.3223	22 kOhm	
	R...284	57.11.3682	6.8 kOhm	
	R...285	57.11.3682	6.8 kOhm	
	R...286	57.11.3562	5.6 kOhm	
	R...301	57.11.3223	22 kOhm	
	R...304	57.11.3104	100 kOhm	
	R...305	57.11.3101	100 Ohm	
	R...306	57.11.3752	7.5 kOhm 1%	
	R...307	57.11.3184	180 kOhm	
	R...308	57.11.3184	180 kOhm	
	R...309	57.11.3332	3.3 kOhm 1%	
	R...310	57.11.3102	1 kOhm 1%	

AUX MASTER UNIT

1.990.310.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...311	57.11.3332	3.3 kOhm 1%	
	R...312	57.11.3102	1 kOhm 1%	
	R...313	57.11.3332	3.3 kOhm	
	R...314	57.11.3684	680 kOhm	
	R...315	1.010.107.58	4.7 kOhm incl. R415, R675 HF3	ST
	R...316	57.11.3561	560 Ohm	
	R...317	1.010.104.58	22 kOhm incl. R417, R674 LF3	ST
	R...318	57.11.3332	3.3 kOhm	
	R...319	57.11.3684	680 kOhm	
	R...320	57.11.3332	3.3 kOhm	
	R...321	57.11.3332	3.3 kOhm	
	R...322	57.11.3333	33 kOhm	
	R...323	57.11.3682	6.8 kOhm	
	R...324	57.11.3682	6.8 kOhm	
	R...325	57.11.3333	33 kOhm	
	R...326	57.11.3104	100 kOhm	
	R...327	57.11.3682	6.8 kOhm	
	R...328	57.11.3101	100 Ohm	
	R...329	1.010.103.58	10 kOhm incl. R429, R682 level 3	ST
	R...331	1.010.102.58	10 kOhm incl. R431, R681 bal. 3	ST
	R...332	57.11.3103	10 kOhm	
	R...333	57.11.3333	33 kOhm	
	R...334	57.11.3222	2.2 kOhm	
	R...335	57.11.3102	1 kOhm	
	R...336	57.11.3333	33 kOhm	
	R...337	57.11.3683	68 kOhm	
	R...338	57.11.3682	6.8 kOhm	
	R...339	57.11.3682	6.8 kOhm	
	R...340	57.11.3104	100 kOhm	
	R...341	57.11.3682	6.8 kOhm	
	R...342	57.11.3101	100 Ohm	
	R...343	57.11.3220	22 Ohm	
	R...344	58.01.8502	5 kOhm trimpot.	
	R...345	57.11.3122	1.2 kOhm	
	R...346	57.11.3103	10 kOhm	
	R...347	57.11.3103	10 kOhm	
	R...348	57.11.3339	3.3 Ohm	
	R...349	57.11.3339	3.3 Ohm	
	R...350	57.11.3332	3.3 kOhm	
	R...351	57.11.3332	3.3 kOhm	
	R...352	57.11.3103	10 kOhm	
	R...353	57.11.3103	10 kOhm	
	R...354	57.11.3339	3.3 Ohm	
	R...355	57.11.3339	3.3 Ohm	
	R...356	57.11.3222	2.2 kOhm	
	R...357	57.11.3272	2.7 kOhm	
	R...358	57.11.3223	22 kOhm	
	R...359	57.11.3222	2.2 kOhm	
	R...360	57.11.3821	820 Ohm	
	R...361	57.11.3103	10 kOhm 1%	
	R...362	57.11.3103	10 kOhm 1%	
	R...363	57.11.3102	1 kOhm	
	R...364	58.01.8103	10 kOhm trimpot.	
	R...365	57.11.3332	3.3 kOhm 1%	
	R...366	57.11.3332	3.3 kOhm 1%	
	R...367	57.11.3362	3.6 kOhm 1%	
	R...368	57.11.3182	1.8 kOhm 1%	
	R...369	57.11.3682	6.8 kOhm	
	R...370	57.11.3683	68 kOhm	
	R...371	57.11.3562	5.6 kOhm 1%	
	R...372	57.11.3104	100 kOhm	
	R...373	57.11.3684	680 kOhm	
	R...374	57.11.3222	2.2 kOhm	
	R...375	57.99.0252	47 Ohm Tk=+4500ppm	
	R...377	57.11.3511	510 Ohm	
	R...378	58.01.8501	500 Ohm trimpot.	
	R...379	57.11.3102	1 kOhm	
	R...380	57.11.3684	680 kOhm	
	R...381	58.01.8503	50 kOhm trimpot.	
	R...382	57.11.3103	10 kOhm	
	R...383	57.11.3223	22 kOhm	
	R...384	57.11.3682	6.8 kOhm	
	R...385	57.11.3682	6.8 kOhm	
	R...386	57.11.3562	5.6 kOhm	
	R...401	57.11.3223	22 kOhm	
	R...404	57.11.3104	100 kOhm	
	R...405	57.11.3101	100 Ohm	
	R...406	57.11.3752	7.5 kOhm 1%	
	R...407	57.11.3184	180 kOhm	
	R...408	57.11.3184	180 kOhm	
	R...409	57.11.3332	3.3 kOhm 1%	
	R...410	57.11.3102	1 kOhm 1%	
	R...411	57.11.3332	3.3 kOhm 1%	
	R...412	57.11.3102	1 kOhm 1%	
	R...413	57.11.3332	3.3 kOhm	
	R...414	57.11.3684	680 kOhm	
	R...416	57.11.3561	560 Ohm	
	R...418	57.11.3332	3.3 kOhm	
	R...419	57.11.3684	680 kOhm	
	R...420	57.11.3332	3.3 kOhm	
	R...421	57.11.3332	3.3 kOhm	
	R...422	57.11.3333	33 kOhm	
	R...423	57.11.3682	6.8 kOhm	
	R...424	57.11.3682	6.8 kOhm	
	R...425	57.11.3333	33 kOhm	
	R...426	57.11.3104	100 kOhm	
	R...427	57.11.3682	6.8 kOhm	
	R...428	57.11.3101	100 Ohm	
	R...432	57.11.3103	10 kOhm	
	R...433	57.11.3333	33 kOhm	
	R...434	57.11.3222	2.2 kOhm	
	R...435	57.11.3102	1 kOhm	
	R...436	57.11.3333	33 kOhm	
	R...437	57.11.3683	68 kOhm	
	R...438	57.11.3682	6.8 kOhm	
	R...439	57.11.3682	6.8 kOhm	
	R...440	57.11.3104	100 kOhm	
	R...441	57.11.3682	6.8 kOhm	
	R...442	57.11.3101	100 Ohm	
	R...443	57.11.3220	22 Ohm	
	R...444	58.01.8502	5 kOhm trimpot.	
	R...445	57.11.3122	1.2 kOhm	
	R...446	57.11.3103	10 kOhm	
	R...447	57.11.3103	10 kOhm	
	R...448	57.11.3339	3.3 Ohm	
	R...449	57.11.3339	3.3 Ohm	
	R...450	57.11.3332	3.3 kOhm	
	R...451	57.11.3332	3.3 kOhm	
	R...452	57.11.3103	10 kOhm	
	R...453	57.11.3103	10 kOhm	
	R...454	57.11.3339	3.3 Ohm	
	R...455	57.11.3339	3.3 Ohm	
	R...456	57.11.3222	2.2 kOhm	
	R...457	57.11.3272	2.7 kOhm	
	R...458	57.11.3223	22 kOhm	
	R...459	57.11.3222	2.2 kOhm	
	R...460	57.11.3821	820 Ohm	
	R...461	57.11.3103	10 kOhm 1% R461/R462 crossed	
	R...462	57.11.3103	10 kOhm 1%	
	R...463	57.11.3102	1 kOhm	
	R...464	58.01.8103	10 kOhm trimpot.	
	R...465	57.11.3332	3.3 kOhm 1%	
	R...466	57.11.3332	3.3 kOhm 1%	
	R...467	57.11.3362	3.6 kOhm 1%	
	R...468	57.11.3182	1.8 kOhm 1%	
	R...469	57.11.3682	6.8 kOhm	
	R...470	57.11.3683	68 kOhm	
	R...471	57.11.3562	5.6 kOhm 1%	
	R...501	57.11.3103	10 kOhm	
	R...502	57.11.3103	10 kOhm	
	R...503	57.11.3101	100 Ohm	
02	R...503	57.11.3000	0 Ohm	
	R...504	57.11.3333	33 kOhm	
	R...505	57.11.3333	33 kOhm	
	R...506	58.01.8103	10 kOhm trimpot.	
	R...507	58.01.8104	100 kOhm trimpot.	
	R...508	57.11.3102	1 kOhm	
	R...509	57.11.3103	10 kOhm	
	R...510	57.11.3752	7.5 kOhm	
	R...511	57.92.7015	PTC, I-hold 1.1A	
	R...512	57.11.3102	1 kOhm	
	R...513	57.11.3682	6.8 kOhm	
	R...514	57.11.3682	6.8 kOhm	
	R...515	57.11.3182	1.8 kOhm	
	R...516	57.11.3822	8.2 kOhm	
	R...517	57.11.3103	10 kOhm	
	R...518	57.92.7015	PTC, I-hold 1.1A	
	R...519	57.92.1151	PTC, 150mA,18 Ohm	
	R...520	57.92.7015	PTC, I-hold 1.1A	
	R...521	57.11.3220	22 Ohm	
	R...522	57.11.3220	22 Ohm	
	R...523	57.11.3220	22 Ohm	
	R...524	57.11.3220	22 Ohm	
	R...525	57.11.3220	22 Ohm	
	R...526	57.11.3682	6.8 kOhm	
	R...527	57.11.3682	6.8 kOhm	
	R...528	57.11.3682	6.8 kOhm	
	R...529	57.11.3682	6.8 kOhm	
	R...530	57.11.3682	6.8 kOhm	
	R...531	57.11.3682	6.8 kOhm	
	R...532	57.11.3684	680 kOhm	
	R...533	57.11.3684	680 kOhm	
	R...534	57.11.3513	51 kOhm	
	R...535	57.11.3513	51 kOhm	
	R...536	57.11.3273	27 kOhm	
	R...537	57.11.3243	24 kOhm	
	R...538	57.11.3333	33 kOhm	
	R...601	57.11.3101	100 Ohm	
	R...602	57.11.3101	100 Ohm	
	R...603	57.11.3101	100 Ohm	
	R...604	57.11.3101	100 Ohm	
	R...605	57.11.3101	100 Ohm	
	R...606	57.11.3101	100 Ohm	
	R...607	57.11.3101	100 Ohm	
	R...608	57.11.3101	100 Ohm	
	R...609	57.11.3101	100 Ohm	
	R...610	57.11.3682	6.8 kOhm	
	R...611	57.11.3682	6.8 kOhm	
	R...612	57.11.3682	6.8 kOhm	
	R...613	57.11.3682	6.8 kOhm	
	R...614	57.11.3682	6.8 kOhm	
	R...615	57.11.3682	6.8 kOhm	

AUX MASTER UNIT

1.990.310.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...616	57.11.3104	100 kOhm	
	R...617	57.11.3104	100 kOhm	
	R...618	57.11.3104	100 kOhm	
	R...619	57.11.3104	100 kOhm	
	R...620	57.11.3104	100 kOhm	
	R...621	57.11.3104	100 kOhm	
	R...622	57.11.3104	100 kOhm	
	R...623	57.11.3104	100 kOhm	
	R...624	57.11.3104	100 kOhm	
	R...625	57.11.3104	100 kOhm	
	R...626	57.11.3104	100 kOhm	
	R...627	57.11.3104	100 kOhm	
	R...628	57.11.3104	100 kOhm	
	R...629	57.11.3104	100 kOhm	
	R...630	57.11.3104	100 kOhm	
	R...631	57.11.3104	100 kOhm	
	R...632	57.11.3104	100 kOhm	
	R...633	57.11.3104	100 kOhm	
	R...634	57.11.3104	100 kOhm	
	R...635	57.11.3104	100 kOhm	
	R...636	57.11.3104	100 kOhm	
	R...637	57.11.3104	100 kOhm	
	R...638	57.11.3104	100 kOhm	
	R...639	57.11.3104	100 kOhm	
	R...640	57.11.3104	100 kOhm	
	R...641	57.11.3104	100 kOhm	
	R...642	57.11.3104	100 kOhm	
	R...643	57.11.3104	100 kOhm	
	R...644	57.11.3104	100 kOhm	
	R...645	57.11.3104	100 kOhm	
	R...646	57.11.3101	100 Ohm	
	R...647	57.11.3101	100 Ohm	
	R...648	57.11.3101	100 Ohm	
	R...649	57.11.3101	100 Ohm	
	R...650	57.11.3101	100 Ohm	
	R...651	57.11.3101	100 Ohm	
	R...652	57.11.3102	1 kOhm	
	R...653	57.11.3102	1 kOhm	
	R...654	57.11.3102	1 kOhm	
	R...655	57.11.3102	1 kOhm	
	R...656	57.11.3102	1 kOhm	
	R...657	57.11.3102	1 kOhm	
	R...658	57.11.3102	1 kOhm	
	R...659	57.11.3102	1 kOhm	
	R...660	57.11.3102	1 kOhm	
	R...661	57.11.3102	1 kOhm	
	R...662	57.11.3561	560 Ohm	
	R...663	57.11.3561	560 Ohm	
	R...664	57.11.5106	10 MOhm	
	R...665	57.11.3220	22 Ohm	
	R...666	57.11.3101	100 Ohm	
	R...667	57.11.3101	100 Ohm	
	R...668	57.11.3684	680 kOhm	
	R...669	57.11.3223	22 kOhm	
	R...670	57.11.3334	330 kOhm	
	R...671	57.11.3334	330 kOhm	
	R...672	57.11.3223	22 kOhm	
	RZ....1	57.88.2101	4*100 Ohm, 8 pin	
	RZ....2	57.88.2101	4*100 Ohm, 8 pin	
	RZ....3	57.88.2101	4*100 Ohm, 8 pin	
	RZ....4	57.88.2101	4*100 Ohm, 8 pin	
	RZ....5	57.88.2101	4*100 Ohm, 8 pin	
	RZ....6	57.88.2101	4*100 Ohm, 8 pin	
	RZ....7	57.88.4104	8*100 kOhm, 9 pin	
	RZ....8	57.88.4104	8*100 kOhm, 9 pin	
	RZ....9	57.88.4104	8*100 kOhm, 9 pin	
	RZ...10	57.88.4104	8*100 kOhm, 9 pin	
	RZ...11	57.88.4104	8*100 kOhm, 9 pin	
	RZ...12	57.88.4104	8*100 kOhm, 9 pin	
	RZ...13	57.88.4104	8*100 kOhm, 9 pin	
	RZ...14	57.88.4104	8*100 kOhm, 9 pin	
	RZ...15	57.88.4104	8*100 kOhm, 9 pin	
	T...101	1.022.362.00		ST
	T...102	1.022.218.00		ST
	T...201	1.022.362.00		ST
	T...202	1.022.218.00		ST
	T...301	1.022.362.00		ST
	T...302	1.022.218.00		ST
	T...401	1.022.362.00		ST
	T...402	1.022.218.00		ST
	W...101	57.11.3000	0 Ohm	
	W...102	57.11.3000	0 Ohm	
	W...103	57.11.3000	0 Ohm	
	W...201	57.11.3000	0 Ohm	
	W...202	57.11.3000	0 Ohm	
	W...203	57.11.3000	0 Ohm	
	W...301	57.11.3000	0 Ohm	
	W...302	57.11.3000	0 Ohm	
	W...303	57.11.3000	0 Ohm	

CER = ceramic, EL = electrolytic, PE = polyester, PP = polypropylen

MANUFACTURER
1) Ph, Mot, RCA
2) Ph, Mot, RCA
Mot=Motorola, NS=National Semiconductors, Ph=Philips, Ra=Raytheon,
RCA=Radio Corporation of America, Sie=Siemens, ST=Studer,
TI=Texas Instruments, To=Toshiba

HISTORY
01 91-04-10 C631 10nF replaced by 270pF
02 92-03-25 R503 100 Ohm replaced by 0 Ohm

1.990.310.00	AUX MASTER UNIT		WY 89/07/0700
1.990.310.00	AUX MASTER UNIT		WY 91/04/1001
1.990.310.00	AUX MASTER UNIT		WY 92/03/2502

END

Pin location list **1.990.310**

P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC
P6	01A	-	N.C.	O
P6	01B	-	N.C.	O
P6	02A	-	N.C.	O
P6	02B	-	N.C.	O
P6	03A	-	N.C.	O
P6	03B	-	N.C.	O
P6	04A	-	N.C.	O
P6	04B	-	N.C.	O
P6	05A	-	N.C.	O
P6	05B	-	N.C.	O
P6	06A	-	N.C.	O
P6	06B	-	N.C.	O
P6	07A	+ 15V	+ SUPPLY TO FADER UNIT	O
P6	07B	- 15V	- SUPPLY TO FADER UNIT	O
P6	08A	-	N.C.	O
P6	08B	-	N.C.	O
P6	09A	A IN 4	OUTPUT ; TO MCU ANALOG IN 4	O
P6	09B	-	N.C.	O
P6	10A	RCL	RECEIVE CLOCK	O
P6	10B	RSTB	RECEIVE STROBE	O
P6	11A	INT 4	INTERUPT 4	O
P6	11B	RXD 3	RECEIVE DATA 3	O
P6	12A	-	N.C.	O
P6	12B	TSTB 2	TRANSMIT STROBE 2	O
P6	13A	TSTB 3	TRANSMIT STROBE 3	O
P6	13B	-	N.C.	O
P6	14A	-	N.C.	O
P6	14B	DO 1	DATA OUT 1 (TRANSMIT STROBE 8)	O
P6	15A	TXD	TRANSMIT DATA	O
P6	15B	TCL	TRANSMIT CLOCK	O
P6	16A	DO 0	DATA OUT 0 (ENABLE)	O
P6	16B	UREF	+ 5V REFERENZ	O
P7	01A	0V-B	GROUND AUDIO (PIN)	
P7	01B	CHASSIS	METAL FRAME	B
P7	02A	-	RES	O
P7	02B	-	RES	O
P7	03A	-	RES	B
P7	03B	-	RES	B
P7	04A	-	N.C.	B
P7	04B	-	N.C.	B
P7	05A	B-PFL/SOLO-L	PFL/SOLO LEFT ; 0-OHM BUS	B,I
P7	05B	B-PFL/SOLO-R	PFL/SOLO RIGHT ; 0-OHM BUS	B,I
P7	06A	-	N.C.	B
P7	06B	-	N.C.	B
P7	07A	-	N.C.	B
P7	07B	-	N.C.	B
P7	08A	-	N.C.	B
P7	08B	-	N.C.	B
P7	09A	-	N.C.	B
P7	09B	-	N.C.	B
P7	10A	-	N.C.	B
P7	10B	-	N.C.	B
P7	11A	-	N.C.	B
P7	11B	-	N.C.	B
P7	12A	-	N.C.	B

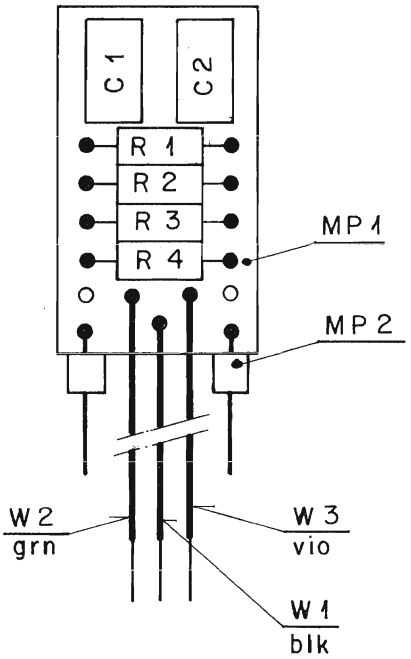
Pin location list **1.990.310**

P7	12B	-	N.C.	B	
P7	13A	-	N.C.	B	
P7	13B	-	N.C.	B	
P7	14	0V-REF	0V REFERENCE	B	X X
P7	15A	-	N.C.	B	
P7	15B	-	N.C.	B	
P7	16A	-	N.C.	B	
P7	16B	-	N.C.	B	
P7	17A	-	N.C.	B	
P7	17B	-	N.C.	B	
P7	18A	-	N.C.	B	
P7	18B	-	N.C.	B	
P7	19A	-	N.C.	B	
P7	19B	-	N.C.	B	
P7	20A	-	N.C.	B	
P7	20B	-	N.C.	B	
P7	21A	-	N.C.	B	
P7	21B	-	N.C.	B	
P7	22A	-	N.C.	B	
P7	22B	-	N.C.	B	
P7	23A	AUX-1-IN	AUX 1 INPUT ; FROM 0-OHM BUS	O,I	
P7	23B	AUX-1-0V-IN	AUX 1 INPUT GROUND	O	
P7	24A	AUX-2-IN	AUX 2 INPUT ; FROM 0-OHM BUS	O,I	
P7	24B	AUX-2-0V-IN	AUX 2 INPUT GROUND	O	
P7	25A	AUX-3-IN-L	AUX 3 INPUT LEFT ; FROM 0-OHM BUS	O,I	
P7	25B	AUX-3-0V-IN-L	AUX 3 INPUT GROUND LEFT	O	
P7	26A	AUX-4-IN-R	AUX 4 INPUT RIGHT ; FROM 0-OHM BUS	O,I	
P7	26B	AUX-4-0V-IN-R	AUX 4 INPUT GROUND RIGHT	O	
P7	27	0V-A	GROUND AUDIO	B	X X
P7	28	- 15.5V	- SUPPLY	B	X X
P7	29	+ 15.5V	+ SUPPLY	B	X X
P7	30	0V-L	GROUND SIGN (LOGIC)	B	X X
P7	31	+ 5.5V	+ SUPPLY	B	X X
P7	32	+3..4V LED	LED SUPPLY VARIABLE +3...4V	B	X X
P9	01A	AUX 1-OUT-a	AUX 1 OUTPUT a	S,O	
P9	01B	AUX 1-OUT-b	AUX 1 OUTPUT b	S,O	
P9	02A	AUX 1-0VE	AUX 1 GROUND EXTERN	O	
P9	02B	AUX 2-0VE	AUX 2 GROUND EXTERN	O	
P9	03A	AUX 2-OUT-a	AUX 2 OUTPUT a	S,O	
P9	03B	AUX 2-OUT-b	AUX 2 OUTPUT b	S,O	
P9	04A	AUX 3-L-a	AUX 3 LEFT a	S,O	
P9	04B	AUX 3-L-b	AUX 3 LEFT b	S,O	
P9	05A	AUX 3-L-0VE	AUX 3 LEFT GROUND EXTERN	O	
P9	05B	AUX 3-R-0VE	AUX 3 RIGHT GROUND EXTERN	O	
P9	06A	AUX 3-R-a	AUX 3 RIGHT a	S,O	
P9	06B	AUX 3-R-b	AUX 3 RIGHT b	S,O	
P9	07A	-	RES		
P9	07B	-	RES		
P9	08A	-	RES		
P9	08B	-	RES		
P9	09A	-	RES		
P9	09B	-	RES		
P9	10A	-	RES		
P9	10B	-	RES		
P9	11A	-	RES		
P9	11B	-	RES		
P9	12A	-	RES		
P9	12B	0V-A	GROUND AUDIO	B	
P9	13A	-	RES		
P9	13B	-	RES		
P9	14A	-	RES		

Pin location list **1.990.310**

P9	14B	–	RES			
P9	15A	–	RES			
P9	15B	–	RES			
P9	16A	–	RES			
P9	16B	–	RES			
P9	17A	AF 1-OUT	AFTER FADER 1 OUT			AS
P9	17B	–	RES			
P9	18A	AF 2-0V	AFTER FADER 2 GROUND			
P9	18B	AF 1-0V	AFTER FADER 1 GROUND			
P9	19A	AF 3-OUT-L	AFTER FADER 3 OUT	LEFT		AS
P9	19B	AF 2-OUT	AFTER FADER 2 OUT			AS
P9	20A	AF 3-0V-L	AFTER FADER 3 GROUND	LEFT		
P9	20B	–	RES			
P9	21A	AF 3-OUT-R	AFTER FADER 3 OUT	RIGHT		AS
P9	21B	AF 3-0V-R	AFTER FADER 3 GROUND	RIGHT		
P9	22A	–	RES			
P9	22B	–	RES			
P9	23A	–	N.C.			
P9	23B	–	N.C.			
P9	24A	TB/SLATE-a	TALK BACK / SLATE INPUT a			S
P9	24B	PHANTOM 48V	PHANTOM 48V BUS			
P9	25A	–	N.C.			
P9	25B	TB/SLATE-b	TALK BACK / SLATE INPUT b			S
P9	26A	–	N.C.			
P9	26B	–	N.C.			
P9	27A	–	N.C.			
P9	27B	–	N.C.			
P9	28A	–	RES			
P9	28B	–	RES			
P9	29A	–	RES			
P9	29B	–	RES			
P9	30A	–	RES			
P9	30B	–	RES			
P9	31A	–	RES			
P9	31B	–	RES			
P9	32A	–	RES			
P9	32B	–	RES			

FILTER BOARD LI 1.990.317.00



Änderung					
					③
					②
					①
Ausgabe	3.10.90				⓪
	Datum	Gez.	Gepr.	Ges.	Index

Kopie für:

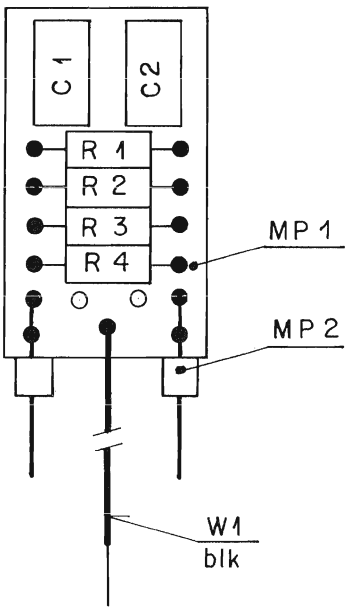
STUDER REGENSDORF ZÜRICH	Benennung: FILTER BOARD LI	Nummer: 1.990.317-00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	C.....1	59.06.0105	1 uF 10%, 25V, PETP	
	C.....2	59.06.0105	1 uF 10%, 25V, PETP	
	MP....1	1.990.318.11	1 pcs FILTER BOARD PCB	
	MP....2	54.11.0132	2 pcs Kontakt 1-reihig Winkel	
	R.....1	57.11.3333	33 KOhm 1%, 0.25W, MF	
	R.....2	57.11.3333	33 KOhm 1%, 0.25W, MF	
	R.....3	57.11.3333	33 KOhm 1%, 0.25W, MF	
	R.....4	57.11.3333	33 KOhm 1%, 0.25W, MF	
	W.....1	1.010.200.64	Litze schwarz	
	W.....2	1.010.205.64	Litze gruen	
	W.....3	1.010.207.64	Litze violet	

MF=Metal Film

1.990.317.00 FILTER BOARD LI SP 90/09/1800

FILTER BOARD PIN 1.990.318.00



Änderung					
					③
					②
					①
Ausgabe	3.10.90	d.Y.	ab		⓪
	Datum	Gez.	Gepr.	Ges.	Index

Kopie für:

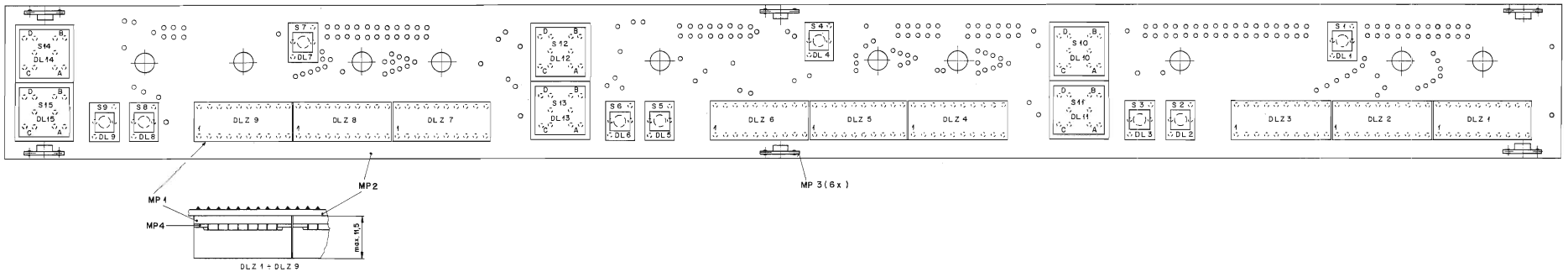
STUDER REGENSDORF ZÜRICH	Benennung: FILTER BOARD PIN	Nummer: 1.990.318-00

Ad	..POS..	...REF.No...		DESCRIPTION	MANUFACTURER
	C.....1	59.06.0105	1 uF	10%, 25V, PETP	
	C.....2	59.06.0105	1 uF	10%, 25V, PETP	
	MP....1	1.990.318.11	1 pcs	FILTER BOARD PCB	
	MP....2	54.11.0131	2 pcs	Kontakt 2-reihig Winkel	
	R.....1	57.11.3333	33 KOhm	1%, 0.25W, MF	
	R.....2	57.11.3333	33 KOhm	1%, 0.25W, MF	
	R.....3	57.11.3333	33 KOhm	1%, 0.25W, MF	
	R.....4	57.11.3333	33 KOhm	1%, 0.25W, MF	
	W.....1	1.010.200.64		Litze schwarz	

MF=Metal Film

1.990.318.00 FILTER BOARD PIN SP 90/09/1700

AUX MASTER SWITCH BOARD 1.990.319.00



Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
DLZ...1	50.04.2150	MV57164	10*D red	
DLZ...2	50.04.2161	NDSP4850	10*D green	
DLZ...3	50.04.2161	NDSP4850	10*D green	
DLZ...4	50.04.2150	MV57164	10*D red	
DLZ...5	50.04.2161	NDSP4850	10*D green	
DLZ...6	50.04.2161	NDSP4850	10*D green	
DLZ...7	50.04.2150	MV57164	10*D red	
DLZ...8	50.04.2161	NDSP4850	10*D green	
DLZ...9	50.04.2161	NDSP4850	10*D green	
S.....1	55.15.0622		non latching, red, LED red	
S.....2	55.15.0605		non latching, colourless, LED green	
S.....3	55.15.0604		non latching, colourless, LED yel	
S.....4	55.15.0622		non latching, red, LED red	
S.....5	55.15.0605		non latching, colourless, LED green	
S.....6	55.15.0604		non latching, colourless, LED yel	
S.....7	55.15.0622		non latching, red, LED red	
S.....8	55.15.0605		non latching, colourless, LED green	
S.....9	55.15.0604		non latching, colourless, LED yel	
S....10	55.15.0722		non latching, red, LED red	
S....11	55.15.0704		non latching, colourless, LED yel	
S....12	55.15.0722		non latching, red, LED red	
S....13	55.15.0704		non latching, colourless, LED yel	
S....14	55.15.0722		non latching, red, LED red	
S....15	55.15.0704		non latching, colourless, LED yel	
MP....1	53.99.0135	9 pcs	XIC DIL 20 pin, ultra low prof.	
MP....2	1.990.319.11	1 pcs	aux master switch PCB	
MP....3	1.990.100.05	6 pcs	Querprinthalter	
MP....4	1.990.319.01	18 pcs	Unterlage	
MP....5	1.990.319.04	0 pcs	Nr.Etikette	
	1.990.319.00	AUX MASTER SWITCH BOARD		WY 89/08/2500

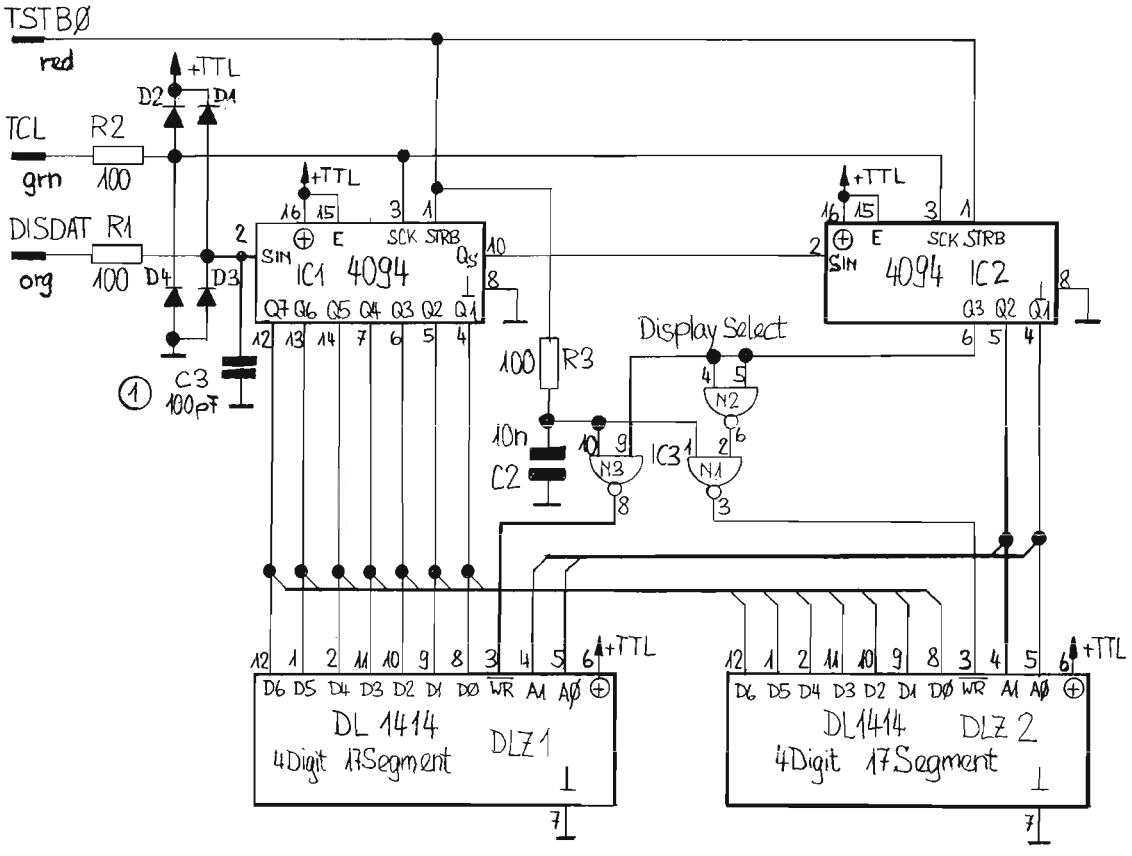
Änderung 3 2 1 0
Ausgabe 20.3.90 WY WY W
Datum Gez. Gepr. Ges. Index
Kopie für:

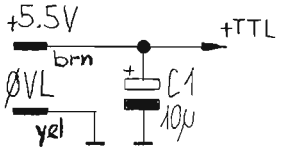
STUDER REGENSDORF ZÜRICH | Benennung: AUX MASTER SWITCH BOARD | Nummer: 1.990.319-00

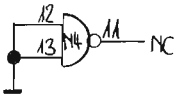
Section 5 Inline Panel Units

Table of Contents

DISPLAY MODULE 1.990.090.00







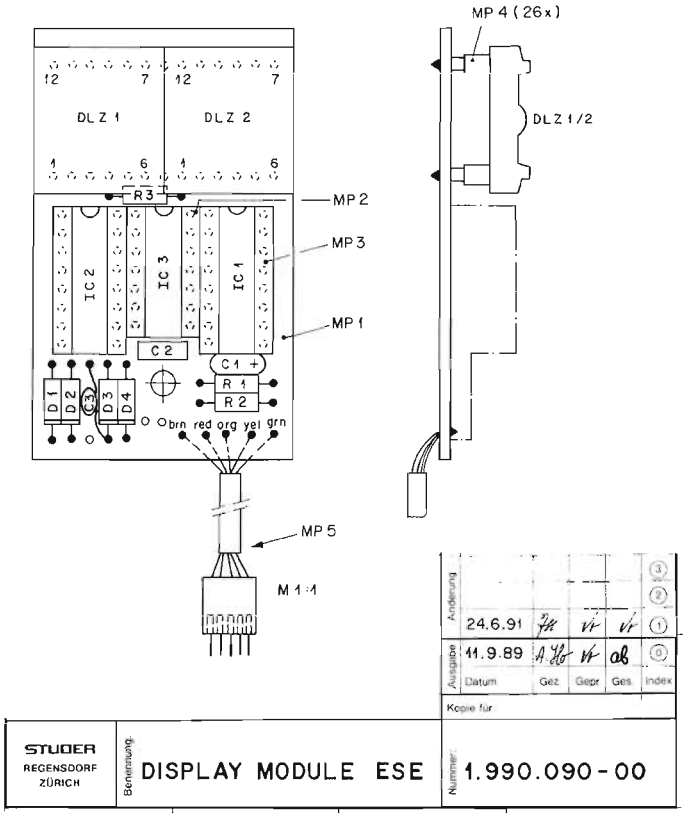
N1–N4 = 74HC00

IC 3

⓪ 04.1089 ab	① 24.06.91 ab	◯ . .	◯ . .	◯ . .
				PAGE 1 OF 1
STUDER	DISPLAY MODULE			1.990.090-00

DISPLAY MODULE ESE

1.990.090.00



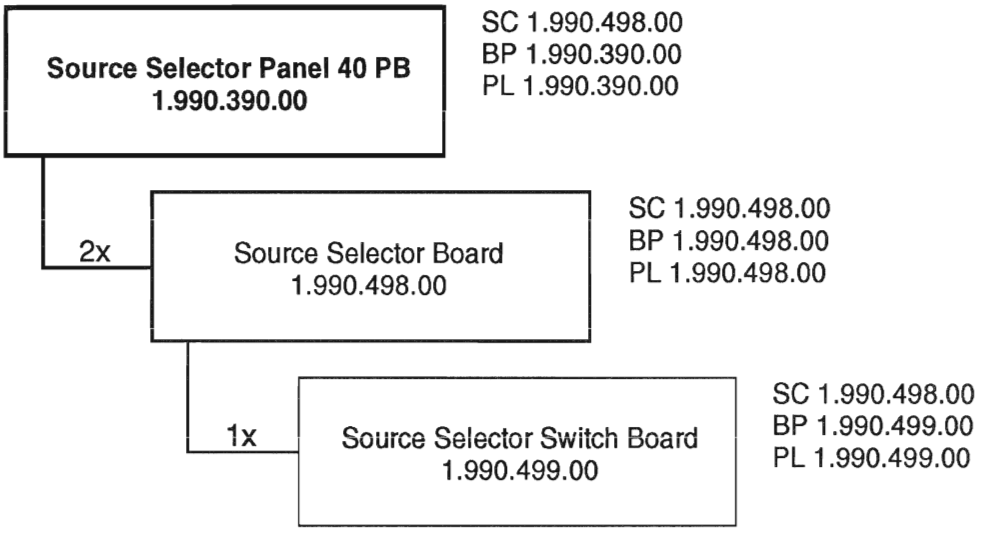
Ad	..POS..	...REF.No...	DESCRIPTION.....				MANUFACTURER
	C.....1	59.26.1100	10 uF	-20%	10V	SAL	
	C.....2	59.06.0103	10 nF	10%		PE	
01	C.....3	59.34.4101	100 pF	10%		CER delay of serial-input	
	D.....1	50.04.0125	1N4448				any
	D.....2	50.04.0125	1N4448				any
	D.....3	50.04.0125	1N4448				any
	D.....4	50.04.0125	1N4448				any
	DLZ...1	73.01.0127	DL1414	4 Digit 17 Segm. Disp.			Sie,Lix
	DLZ...2	73.01.0127	DL1414	4 Digit 17 Segm. Disp.			Sie,Lix
	IC....1	50.07.0018	4094	Shift and store bus register			
	IC....2	50.07.0018	4094	Shift and store bus register			
	IC....3	50.17.1000	74HC00	Quad 2-Input NAND Gate			
	MP....1	1.990.090.11	1 pcs	Print			St
	MP....2	53.03.0167	1 pcs	IC-Socket 14 Pin			
	MP....3	53.03.0168	2 pcs	IC-Socket 16 Pin			
	MP....4	53.03.0218	26 pcs	IC-Socket Single line			
	MP....5	1.911.197.00	1 pcs	Kabel mit CIS-Stecker 130 mm			St
	R.....1	57.11.3101	100 Ohm	10% 0.25W			
	R.....2	57.11.3101	100 Ohm	10% 0.25W			
	R.....3	57.11.3101	100 Ohm	10% 0.25W			

(01) 24.06.91 Timing adjustment. C 3 (100pF) additional to serial-input

MANUFACTURER: Sie=Siemens, Lix=Litronix, St=Studer

1.990.090.00	DISPLAY MODULE	AB 89/06/2100
1.990.090.00	DISPLAY MODULE	AB 91/06/2401

Source Selector Panel 40 PB 1.990.390.00



SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List