STUDER D941 Mixing Console

Schemata / Circuit Diagrams

Prepared and edited by:
STUDER Professional Audio AG
Technical Documentation
Althardstrasse 30
CH-8105 Regensdorf - Switzerland

Printed in Switzerland
Order no. 10.27.4120 (Ed. 1296)

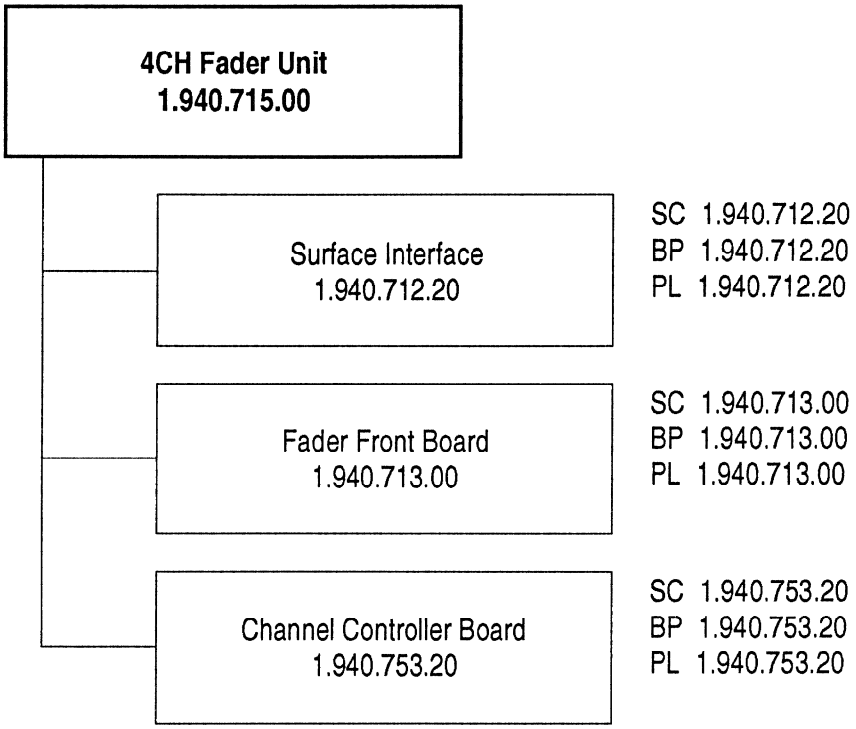
Contents of Schemata / Circuit Diagram Sections in Alphabetical Order

Contents of Schemata / Circuit Diagram Sections in Numerical Order

SCHEMATA / CIRCUIT DIAGRAMS

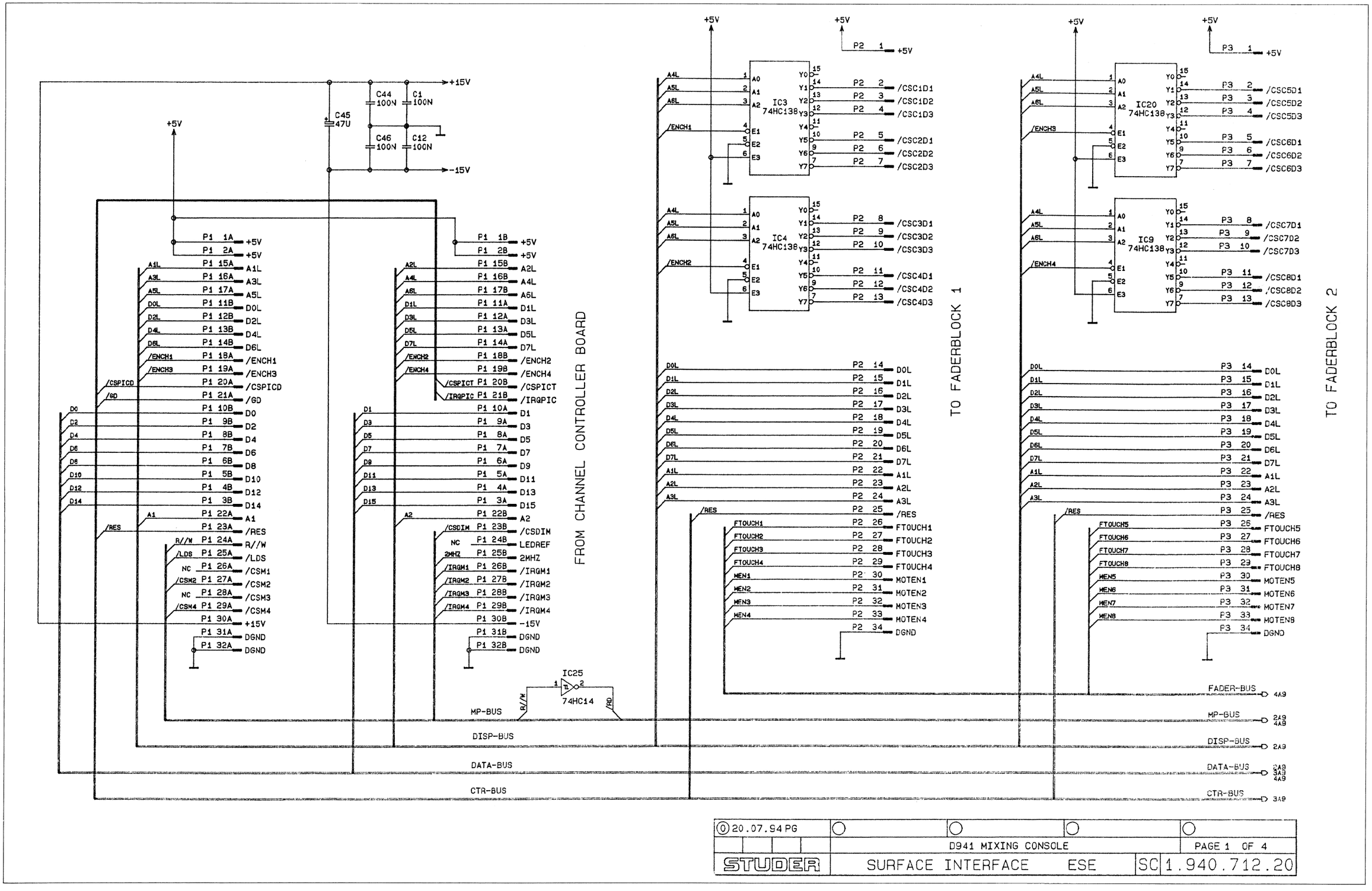
Fader Panel Units

4CH Fader Unit 1.940.715.00

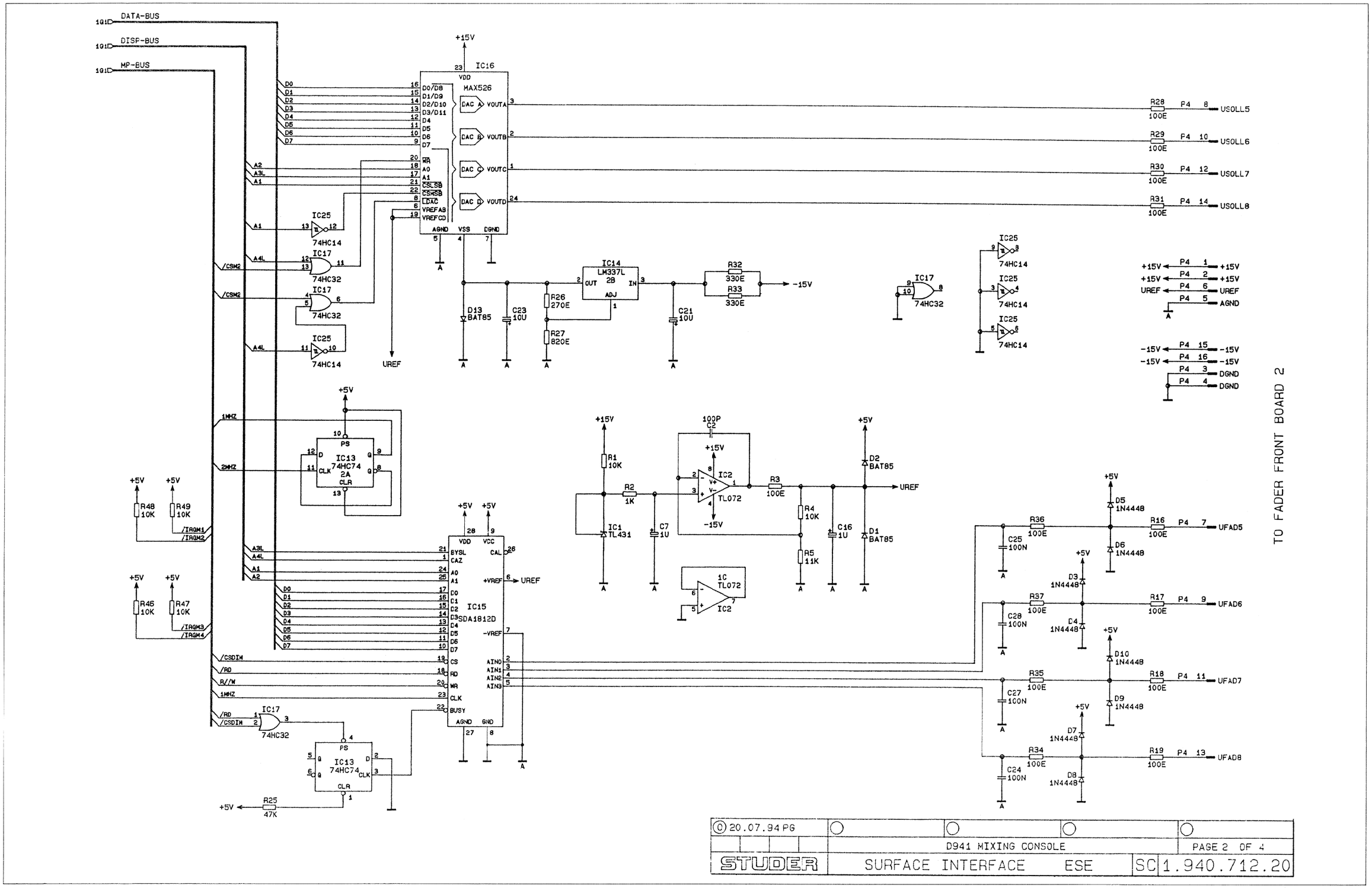


SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

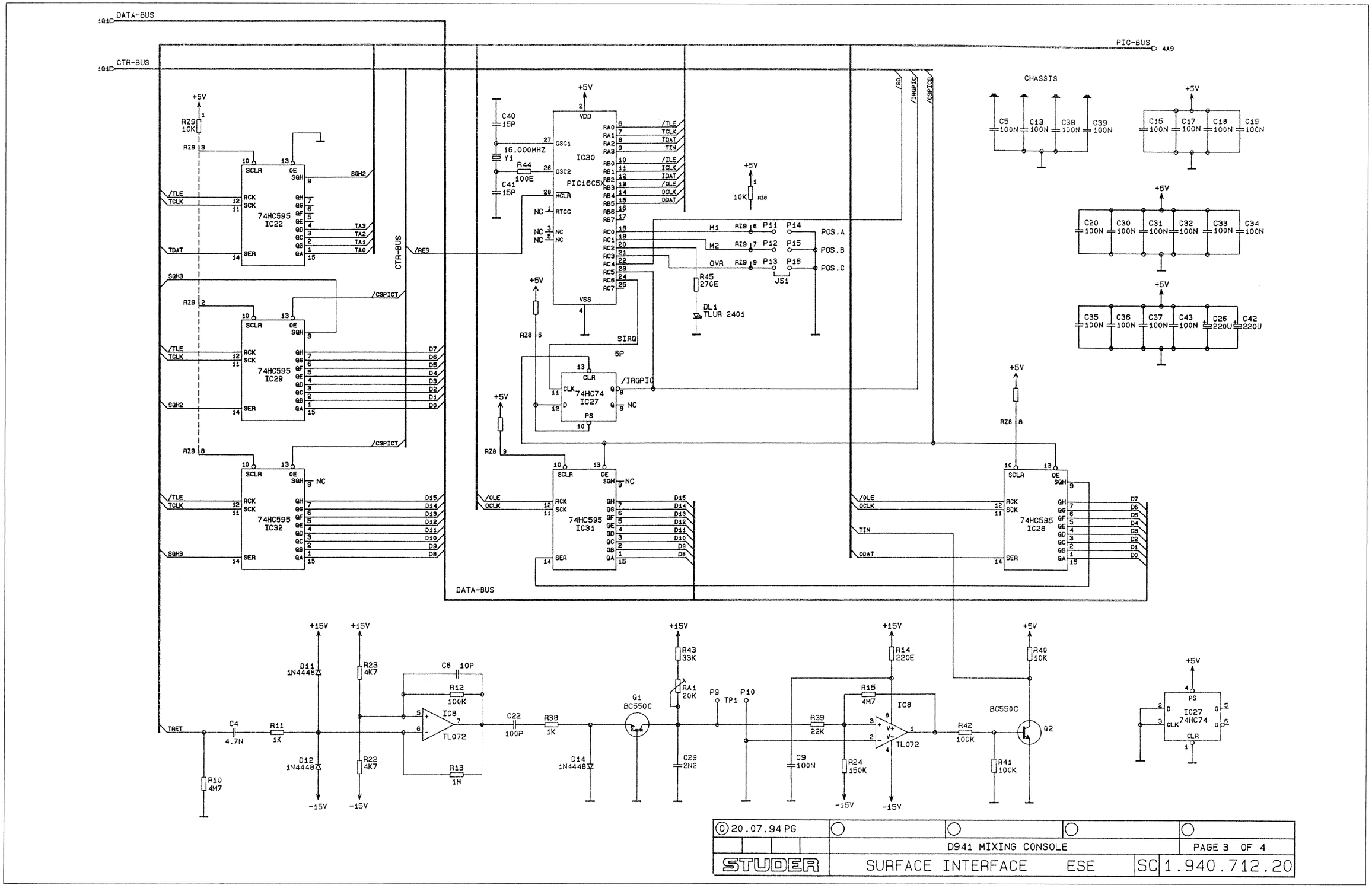
Surface Interface 1.940.712.20



Surface Interface 1.940.712.20

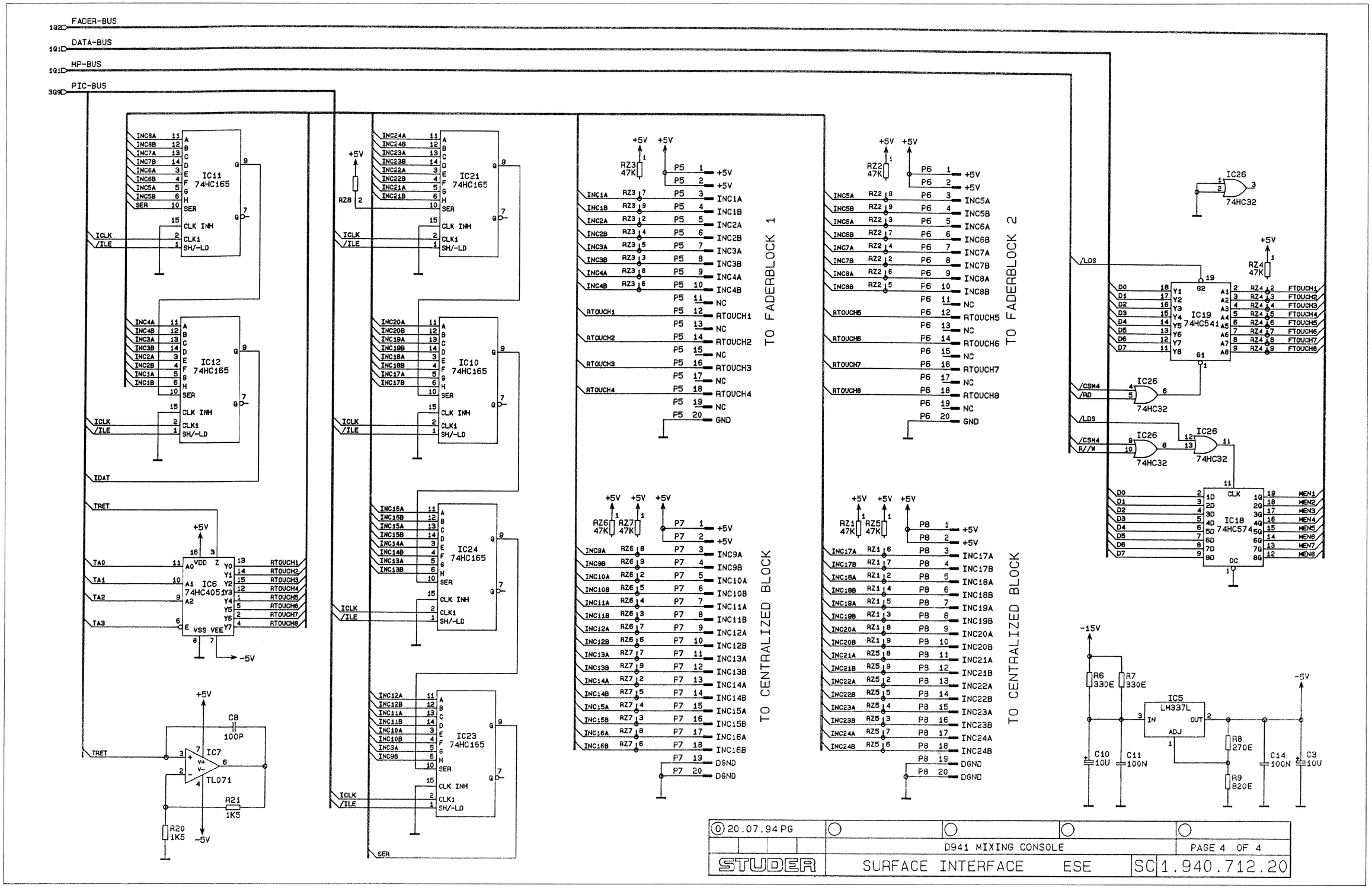


Surface Interface 1.940.712.20



⓪ 20.07.94 PG				
	D941 MIXING CONSOLE			PAGE 3 OF 4
STUDER	SURFACE INTERFACE ESE		SC	1.940.712.20

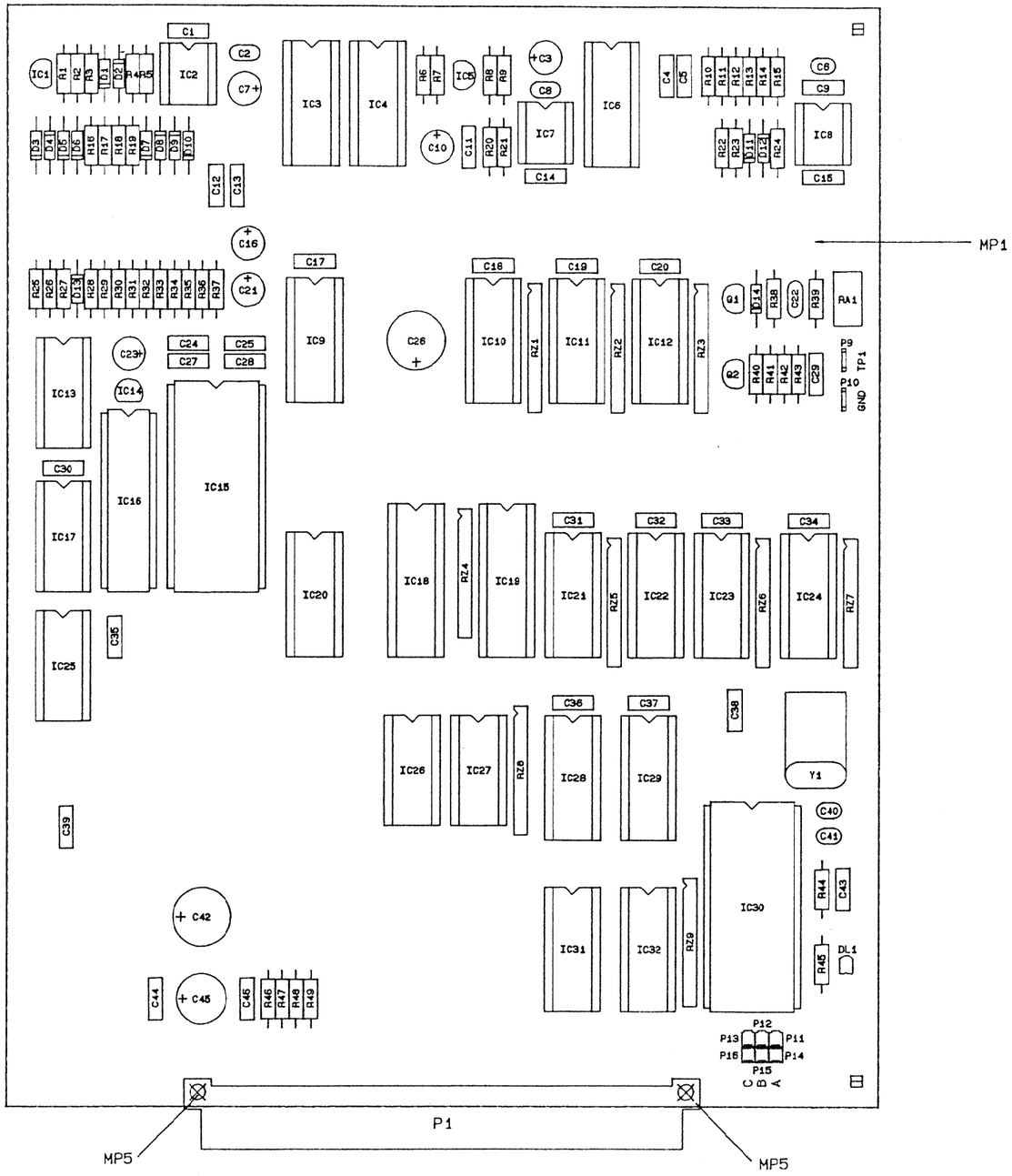
Surface Interface 1.940.712.20



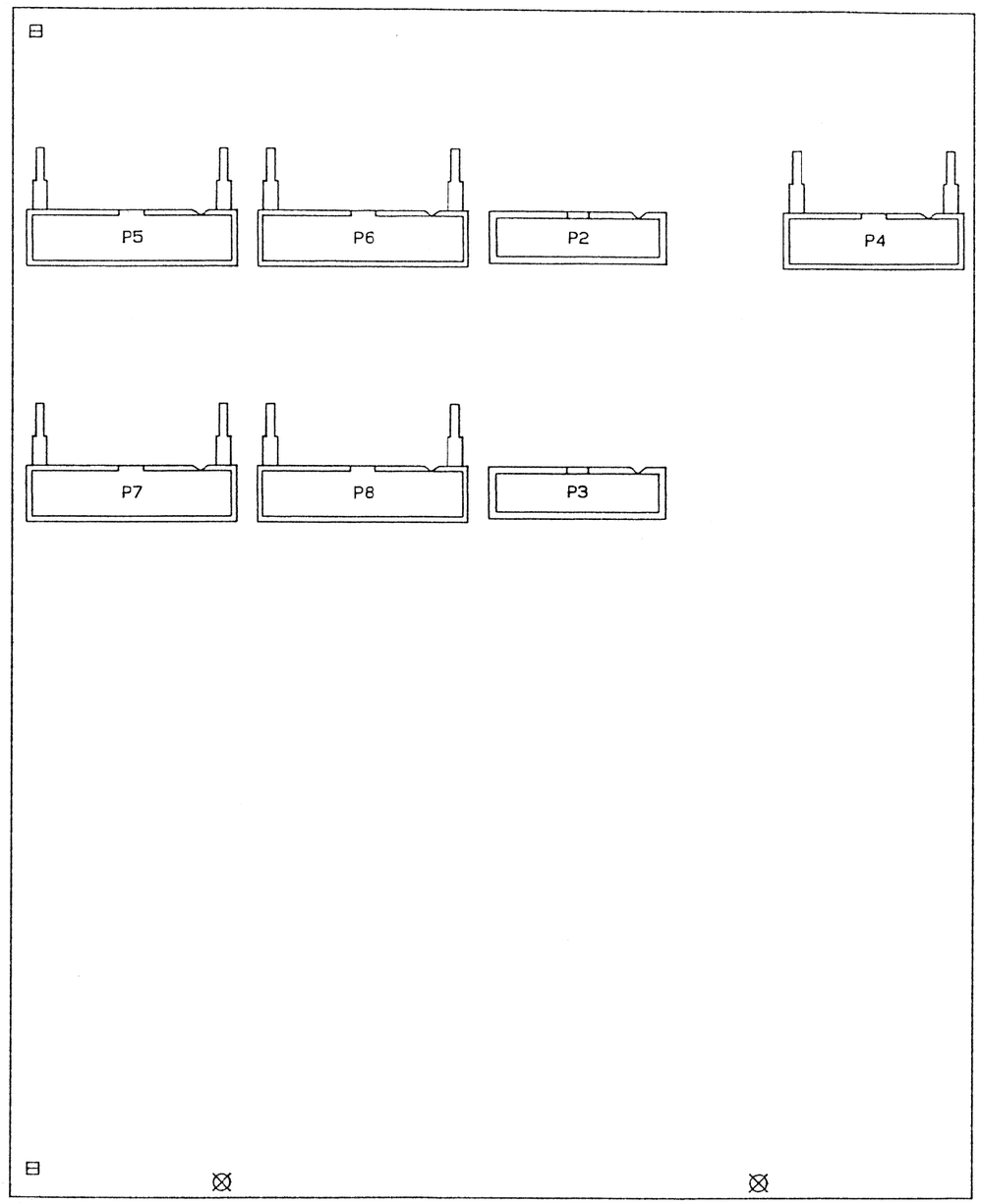
0 20.07.94 PG				
		D941 MIXING CONSOLE		PAGE 4 OF 4
STUDER	SURFACE INTERFACE ESE		SC	1.940.712.20

Surface Interface 1.940.712.20

Component side



Solder side



0	20.07.94	PG			
IND	DATUM	GEZ.	GEPR.	GES.	
	BLATT 1 VON 1				
STUDER	SURFACE INTERFACE ESE		BP	1.940.712.20	

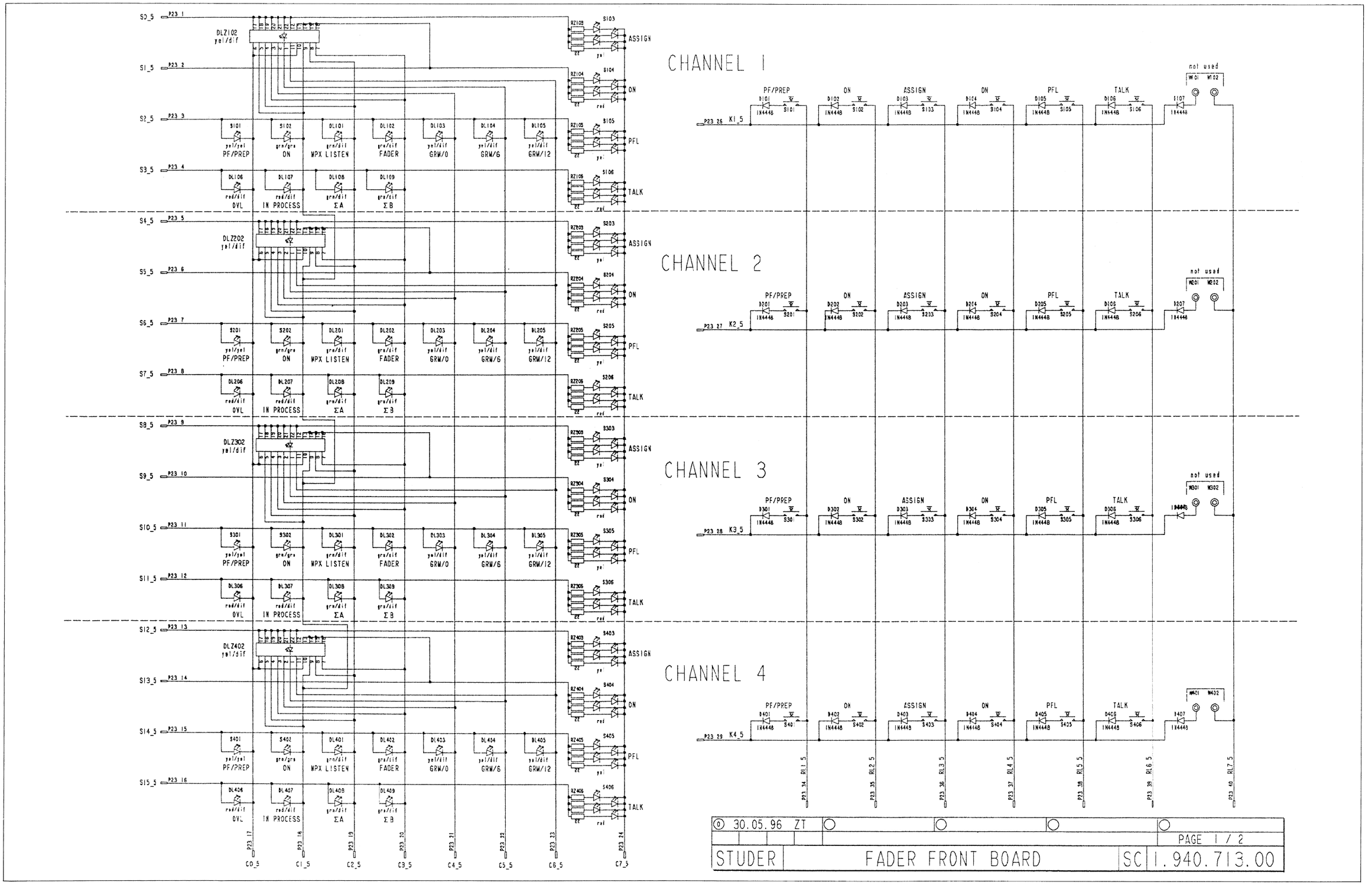
Surface Interface 1.940.712.20

Idx.	Pos.	Part No	Qty.	Type/Val.	Description
0	C 1	59.06.0104		100n	PETP, 10%, 63V
0	C 2	59.34.4101		100p	CER 63V, 5%, N750
0	C 3	59.22.5100		10u	EL 35V, 20%, rad RM5
0	C 4	59.06.0472		4n7	PETP, 10%, 63V
0	C 5	59.06.0104		100n	PETP, 10%, 63V
0	C 6	59.34.1100		10p	CER 63V, 5%, NP 0
0	C 7	59.22.8109		1u	EL 50V, 20%, rad RM5
0	C 8	59.34.4101		100p	CER 63V, 5%, N750
0	C 9	59.06.0104		100n	PETP, 10%, 63V
0	C 10	59.22.5100		10u	EL 35V, 20%, rad RM5
0	C 11	59.06.0104		100n	PETP, 10%, 63V
0	C 12	59.06.0104		100n	PETP, 10%, 63V
0	C 13	59.06.0104		100n	PETP, 10%, 63V
0	C 14	59.06.0104		100n	PETP, 10%, 63V
0	C 15	59.06.0104		100n	PETP, 10%, 63V
0	C 16	59.22.8109		1u	EL 50V, 20%, rad RM5
0	C 17	59.06.0104		100n	PETP, 10%, 63V
0	C 18	59.06.0104		100n	PETP, 10%, 63V
0	C 19	59.06.0104		100n	PETP, 10%, 63V
0	C 20	59.06.0104		100n	PETP, 10%, 63V
0	C 21	59.22.5100		10u	EL 35V, 20%, rad RM5
0	C 22	59.34.2101		100p	CER 63V, 5%, N150
0	C 23	59.22.5100		10u	EL 35V, 20%, rad RM5
0	C 24	59.06.0104		100n	PETP, 10%, 63V
0	C 25	59.06.0104		100n	PETP, 10%, 63V
0	C 26	59.22.4221		220u	EL 16V, 20%, rad RM5
0	C 27	59.06.0104		100n	PETP, 10%, 63V
0	C 28	59.06.0104		100n	PETP, 10%, 63V
0	C 29	59.06.0222		2n2	PETP, 10%, 63V
0	C 30	59.06.0104		100n	PETP, 10%, 63V
0	C 31	59.06.0104		100n	PETP, 10%, 63V
0	C 32	59.06.0104		100n	PETP, 10%, 63V
0	C 33	59.06.0104		100n	PETP, 10%, 63V
0	C 34	59.06.0104		100n	PETP, 10%, 63V
0	C 35	59.06.0104		100n	PETP, 10%, 63V
0	C 36	59.06.0104		100n	PETP, 10%, 63V
0	C 37	59.06.0104		100n	PETP, 10%, 63V
0	C 38	59.06.0104		100n	PETP, 10%, 63V
0	C 39	59.06.0104		100n	PETP, 10%, 63V
0	C 40	59.34.1150		15p	CER 63V, 5%, NP 0
0	C 41	59.34.1150		15p	CER 63V, 5%, NP 0
0	C 42	59.22.4221		220u	EL 16V, 20%, rad RM5
0	C 43	59.06.0104		100n	PETP, 10%, 63V
0	C 44	59.06.0104		100n	PETP, 10%, 63V
0	C 45	59.22.8470		47u	EL 63V, 20%, rad RM5
0	C 46	59.06.0104		100n	PETP, 10%, 63V
0	D 1	50.04.0127		BAT85	D BAT 85
0	D 2	50.04.0127		BAT85	D BAT 85
0	D 3	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 4	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 5	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 6	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 10	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 12	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 13	50.04.0127		BAT85	D BAT 85
0	D 14	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	DL 1	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	IC 1	50.10.0106		TL431	IC TL 431 CLP,
0	IC 2	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 3	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 4	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 5	50.10.0109		LM337L	IC LM 337 LZ,
0	IC 6	50.17.4051			IC ... 74 HC 4051 ., ,A
0	IC 7	50.09.0103		TL071	IC TL 071 CP, ,A
0	IC 8	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 9	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 10	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 11	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 12	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 13	50.17.1074		74HC74	IC ... 74 HC 74 ., ,A
0	IC 14	50.10.0109		LM337L	IC LM 337 LZ,
0	IC 15	50.19.0204			IC ADS 7803 BP ,A
0	IC 16	not used			
0	IC 17	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 18	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 19	50.17.1541		74HC541	IC ... 74 HC 541 ., ,A
0	IC 20	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 21	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 22	50.17.1595		74HC595	IC ... 74 HC 595 ., ,A
0	IC 23	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 24	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 25	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 26	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 27	50.17.1074		74HC74	IC ... 74 HC 74 ., ,A
0	IC 28	50.17.1595		74HC595	IC ... 74 HC 595 ., ,A
0	IC 29	50.17.1595		74HC595	IC ... 74 HC 595 ., ,A
0	IC 30	50.16.0301			IC PIC 16 C 57-HS/P ,A
					PIC 16 C 57-HS/P SW940712 (1.940.930.20)
0	IC 31	50.17.1595		74HC595	IC ... 74 HC 595 ., ,A
0	IC 32	50.17.1595		74HC595	IC ... 74 HC 595 ., ,A
0	JS 1	54.01.0021		Jumper	0.63 * 0.63mm
0	MP 1	1.940.712.11	1 pce		SURFACE INTERFACE PCB /!\
0	MP 2	1.940.712.04	1 pce		NR.-ETIKETTE 5 * 20
0	MP 3	43.01.0108	1 pce	Label	ESE-WARNSCHILD
0	MP 4	1.101.001.20	1 pce	Label	TEXT-ETIK. 5*20 HARDWARE -20
0	MP 5	28.99.0119	2 pce		ROHRNIETE D 2.5*0.15* 9
0	MP 6	65.99.0167	10 mm	Tape	POLYURH. KLEBBAND WS. 9* 3
0	P 1	54.11.2004		64-P	P EU-B 2 * 32
0	P 2	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 3	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 4	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 5	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 6	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 7	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 8	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 9	54.02.0320		1p	Flatpin, 2.8*0.8mm
0	P 10	54.02.0320		1p	Flatpin, 2.8*0.8mm
0	P 11	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 12	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 13	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 14	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 15	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 16	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	Q 1	50.03.0407		BC550C	BC 550 C
0	Q 2	50.03.0407		BC550C	BC 550 C
0	R 1	57.11.3103		10k	MF, 1%, 0207
0	R 2	57.11.3102		1k0	MF, 1%, 0207
0	R 3	57.11.3101		100R	MF, 1%, 0207
0	R 4	57.11.3103		10k	MF, 1%, 0207
0	R 5	57.11.3113		11k	MF, 1%, 0207
0	R 6	57.11.3331		330R	MF, 1%, 0207
0	R 7	57.11.3331		330R	MF, 1%, 0207
0	R 8	57.11.3271		270R	MF, 1%, 0207
0	R 9	57.11.3821		820R	MF, 1%, 0207
0	R 10	57.11.5475		4M7	MF, 5%, 0207
0	R 11	57.11.3102		1k0	MF, 1%, 0207
0	R 12	57.11.3104		100k	MF, 1%, 0207
0	R 13	57.11.3105		1M0	MF, 1%, 0207
0	R 14	57.11.3221		220R	MF, 1%, 0207
0	R 15	57.11.5475		4M7	MF, 5%, 0207
0	R 16	57.11.3101		100R	MF, 1%, 0207
0	R 17	57.11.3101		100R	MF, 1%, 0207
0	R 18	57.11.3101		100R	MF, 1%, 0207
0	R 19	57.11.3101		100R	MF, 1%, 0207
0	R 20	57.11.3152		1k5	MF, 1%, 0207
0	R 21	57.11.3152		1k5	MF, 1%, 0207
0	R 22	57.11.3472		4k7	MF, 1%, 0207
0	R 23	57.11.3472		4k7	MF, 1%, 0207
0	R 24	57.11.3154		150k	MF, 1%, 0207
0	R 25	57.11.3473		47k	MF, 1%, 0207
0	R 26	57.11.3271		270R	MF, 1%, 0207
0	R 27	57.11.3821		820R	MF, 1%, 0207
0	R 28	57.11.3101		100R	MF, 1%, 0207
0	R 29	57.11.3101		100R	MF, 1%, 0207
0	R 30	57.11.3101		100R	MF, 1%, 0207
0	R 31	57.11.3101		100R	MF, 1%, 0207
0	R 32	57.11.3331		330R	MF, 1%, 0207
0	R 33	57.11.3331		330R	MF, 1%, 0207
0	R 34	57.11.3101		100R	MF, 1%, 0207
0	R 35	57.11.3101		100R	MF, 1%, 0207
0	R 36	57.11.3101		100R	MF, 1%, 0207
0	R 37	57.11.3101		100R	MF, 1%, 0207
0	R 38	57.11.3102		1k0	MF, 1%, 0207
0	R 39	57.11.3223		22k	MF, 1%, 0207
0	R 40	57.11.3103		10k	MF, 1%, 0207
0	R 41	57.11.3104		100k	MF, 1%, 0207
0	R 42	57.11.3104		100k	MF, 1%, 0207
0	R 43	57.11.3333		33k	MF, 1%, 0207
0	R 44	57.11.3101		100R	MF, 1%, 0207
0	R 45	57.11.3271		270R	MF, 1%, 0207
0	R 46	57.11.3103		10k	MF, 1%, 0207
0	R 47	57.11.3103		10k	MF, 1%, 0207
0	R 48	57.11.3103		10k	MF, 1%, 0207
0	R 49	57.11.3103		10k	MF, 1%, 0207
0	RA 1	58.01.9203		20k	Cermet, 10%, 0.5W, vertical
0	RZ 1	57.86.4473		47k	RZ 8 * 47 K, 2%, SIP 9
0	RZ 2	57.86.4473		47k	RZ 8 * 47 K, 2%, SIP 9
0	RZ 3	57.86.4473		47k	RZ 8 * 47 K, 2%, SIP 9
0	RZ 4	57.86.4473		47k	RZ 8 * 47 K, 2%, SIP 9
0	RZ 5	57.86.4473		47k	RZ 8 * 47 K, 2%, SIP 9
0	RZ 6	57.86.4473		47k	RZ 8 * 47 K, 2%, SIP 9
0	RZ 7	57.86.4473		47k	RZ 8 * 47 K, 2%, SIP 9
0	RZ 8	57.86.4103		10k	RZ 8 * 10 K, 2%, SIP 9
0	RZ 9	57.86.4103		10k	RZ 8 * 10 K, 2%, SIP 9
0	XIC 15	53.03.0173		28p	DIL 0.6", lot, gerade
0	XIC 30	53.03.0173		28p	DIL 0.6", lot, gerade
0	Y 1	89.01.1009		16.000MHz	Y 16.000 MHZ, HC 49/U

End of List

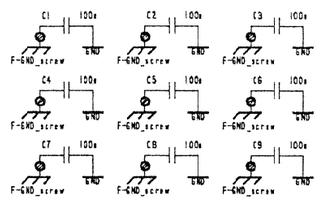
Comments:

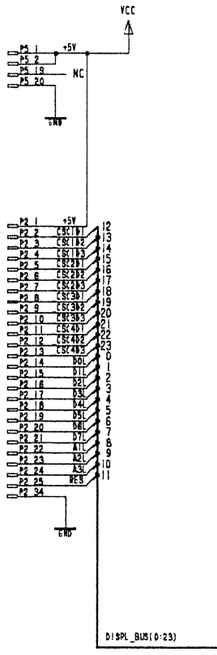
Fader Front Board 1.940.713.00



0 30.05.96 ZT					PAGE 1 / 2
STUDER	FADER FRONT BOARD			SC	1.940.713.00

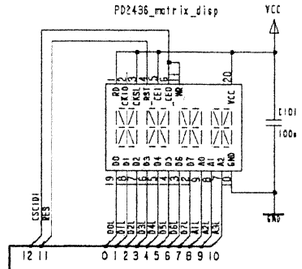
Fader Front Board 1.940.713.00



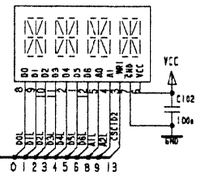


CHANNEL 1

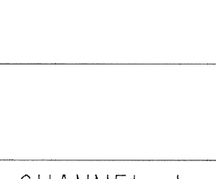
DLZ101
PD2436_matrix_disp



DLZ104
DLR1414_matrix_disp

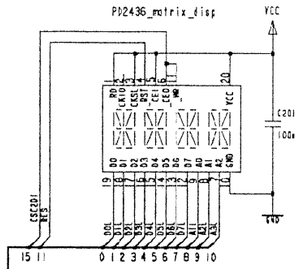


DLZ105
DLR1414_matrix_disp

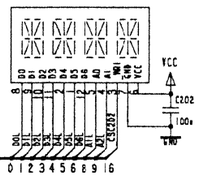


CHANNEL 2

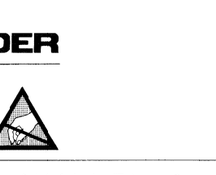
DLZ201
PD2436_matrix_disp



DLZ204
DLR1414_matrix_disp

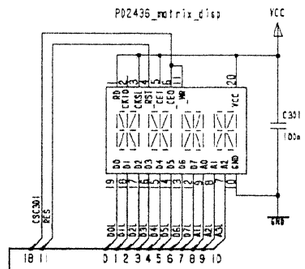


DLZ205
DLR1414_matrix_disp

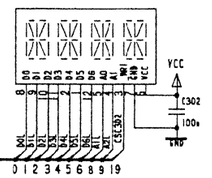


CHANNEL 3

DLZ301
PD2436_matrix_disp



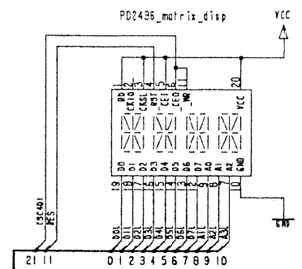
DLZ304
DLR1414_matrix_disp



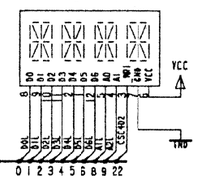
DLZ305
DLR1414_matrix_disp

CHANNEL 4

DLZ401
PD2436_matrix_disp

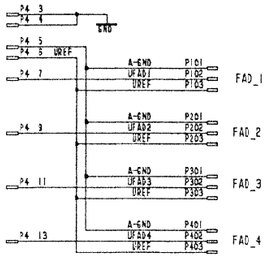


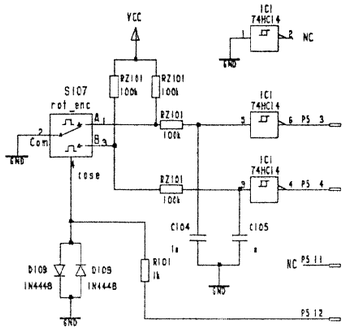
DLZ404
DLR1414_matrix_disp

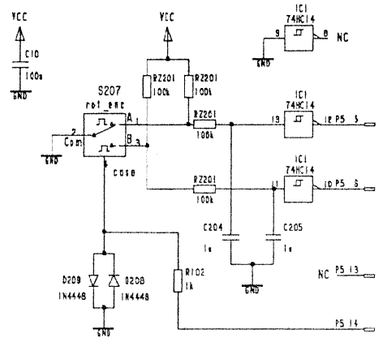


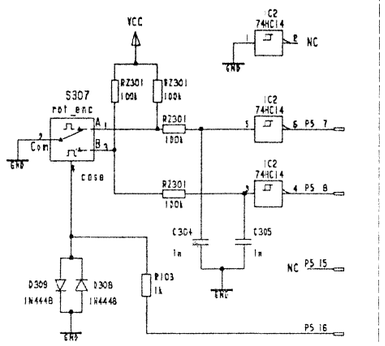
DLZ405
DLR1414_matrix_disp

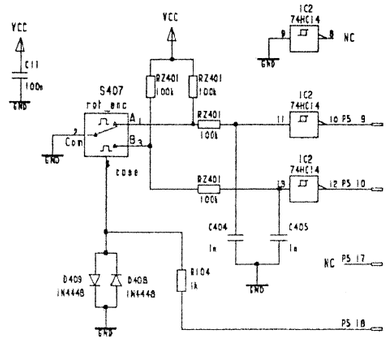
FADER CONNECTOR





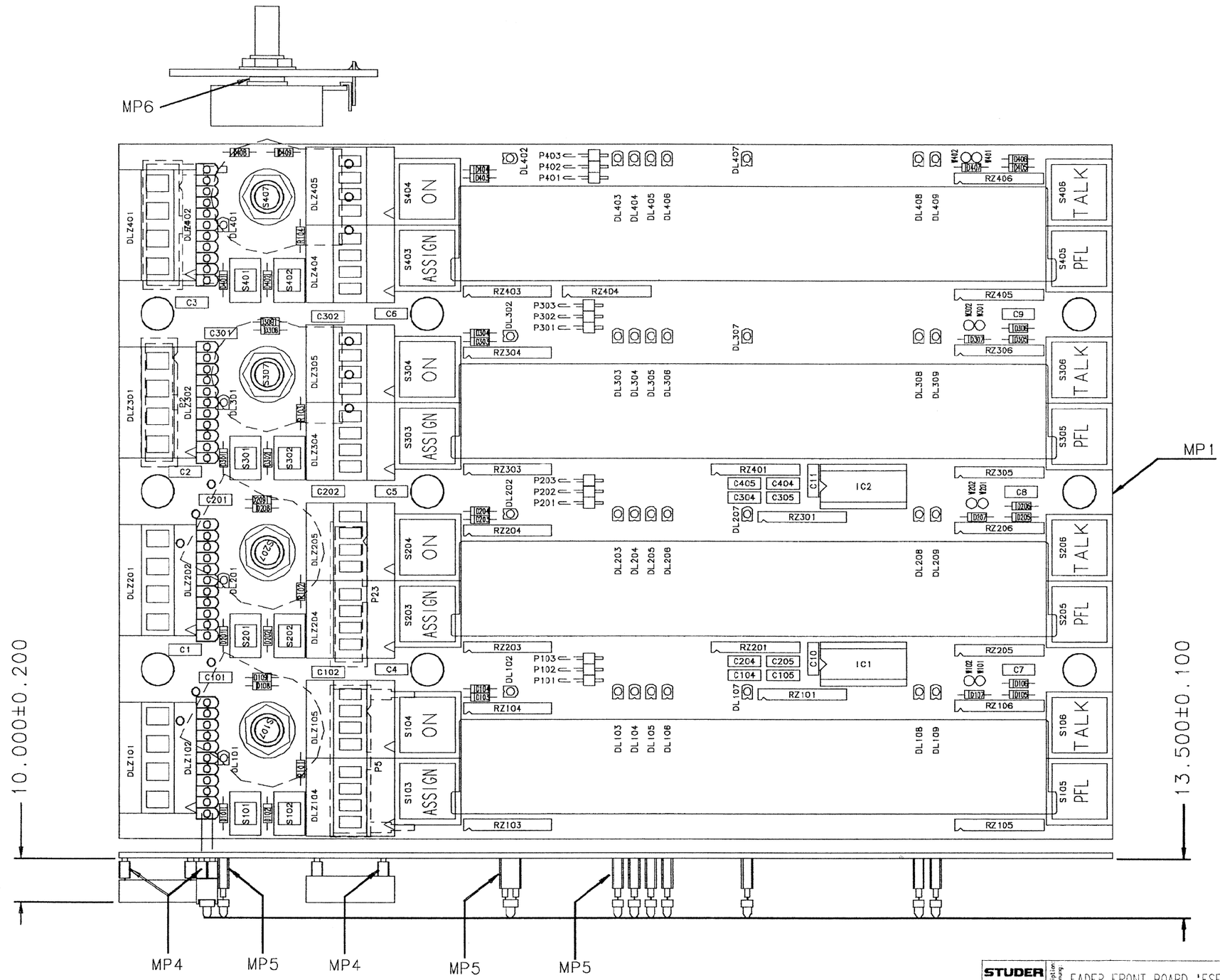






⓪ 30.05.96 ZT					PAGE 2 / 2
STUDER	FADER FRONT BOARD		SC	1.940.713.00	

Fader Front Board 1.940.713.00



Edition / Ausgabe	Modification / Aenderung				
	.	.	.	.	1
	.	.	.	.	2
	.	.	.	.	3
	30.05.96	ZT			4
	Date / Datum	Visa / Sez.	Checked / Gepr.	Seen / Ges.	Index

Copy to / Kopie fuer: .

STUDER REGENSDORF — Description / Benennung: FADER FRONT BOARD 'ESE' — Number / Nummer: 1.940.713.00

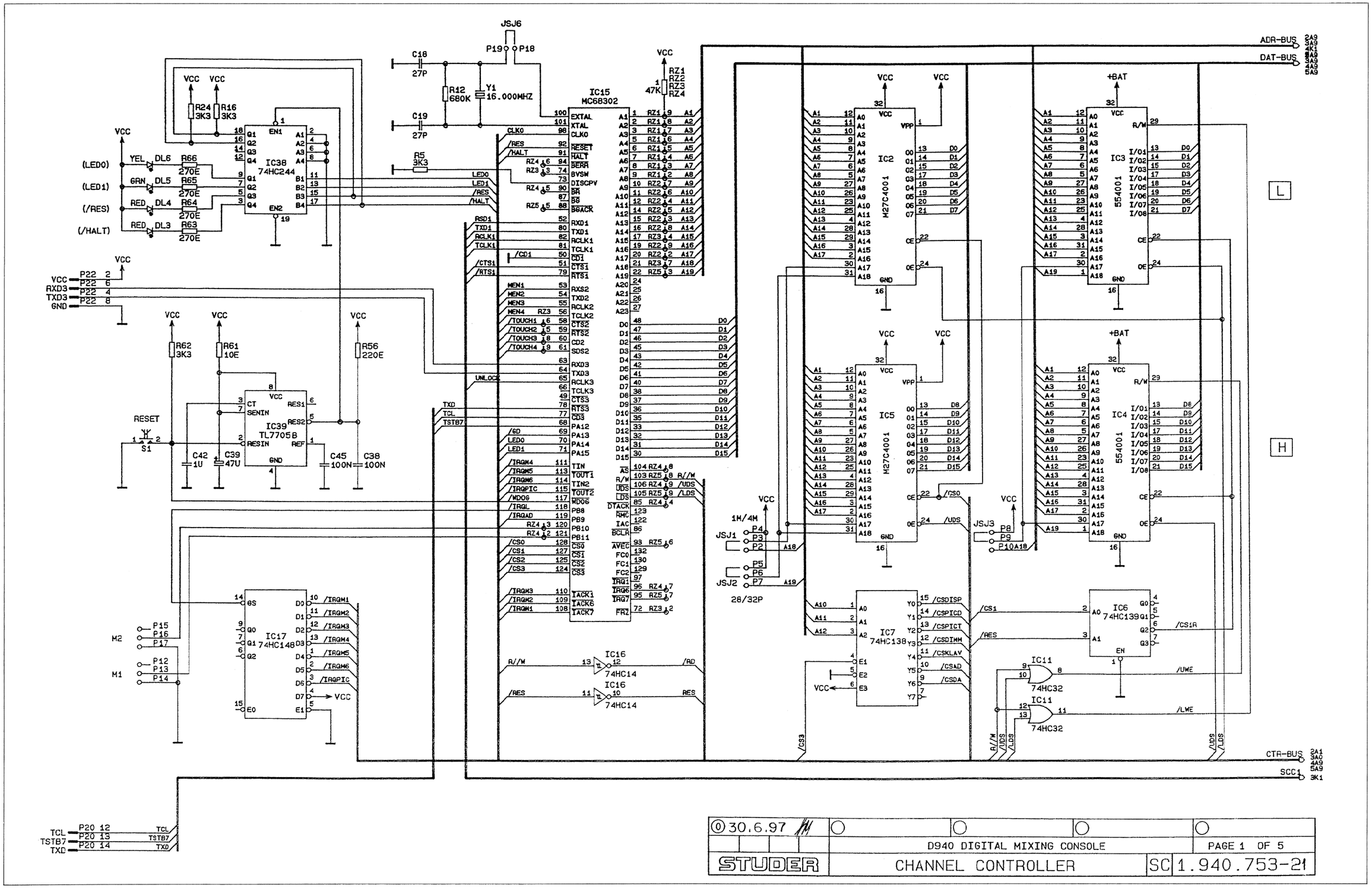
Fader Front Board 1.940.713.00

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.06.0104		100n	PETP, 10%, 63V
0	C 2	59.06.0104		100n	PETP, 10%, 63V
0	C 3	59.06.0104		100n	PETP, 10%, 63V
0	C 4	59.06.0104		100n	PETP, 10%, 63V
0	C 5	59.06.0104		100n	PETP, 10%, 63V
0	C 6	59.06.0104		100n	PETP, 10%, 63V
0	C 7	59.06.0104		100n	PETP, 10%, 63V
0	C 8	59.06.0104		100n	PETP, 10%, 63V
0	C 9	59.06.0104		100n	PETP, 10%, 63V
0	C 10	59.06.0104		100n	PETP, 10%, 63V
0	C 11	59.06.0104		100n	PETP, 10%, 63V
0	C 101	59.06.0104		100n	PETP, 10%, 63V
0	C 102	59.06.0104		100n	PETP, 10%, 63V
0	C 104	59.06.0102		1n0	PETP, 10%, 63V
0	C 105	59.06.0102		1n0	PETP, 10%, 63V
0	C 201	59.06.0104		100n	PETP, 10%, 63V
0	C 202	59.06.0104		100n	PETP, 10%, 63V
0	C 204	59.06.0102		1n0	PETP, 10%, 63V
0	C 205	59.06.0102		1n0	PETP, 10%, 63V
0	C 301	59.06.0104		100n	PETP, 10%, 63V
0	C 302	59.06.0104		100n	PETP, 10%, 63V
0	C 304	59.06.0102		1n0	PETP, 10%, 63V
0	C 305	59.06.0102		1n0	PETP, 10%, 63V
0	C 404	59.06.0102		1n0	PETP, 10%, 63V
0	C 405	59.06.0102		1n0	PETP, 10%, 63V
0	D 101	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 102	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 103	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 104	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 105	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 106	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 107	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 108	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 109	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 201	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 202	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 203	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 204	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 205	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 206	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 207	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 208	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 209	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 301	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 302	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 303	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 304	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 305	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 306	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 307	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 308	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 309	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 401	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 402	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 403	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 404	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 405	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 406	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 407	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 408	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 409	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	DL 101	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 102	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 103	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 104	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 105	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 106	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 107	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 108	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 109	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 201	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 202	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 203	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 204	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 205	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 206	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 207	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 208	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 209	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 301	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 302	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 303	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 304	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 305	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 306	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 307	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 308	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 309	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 401	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 402	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 403	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 404	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 405	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 406	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 407	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 408	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 409	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DLZ 101	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 102	50.04.2812			DLZ 11*D GB
0	DLZ 104	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 105	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 201	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 202	50.04.2812			DLZ 11*D GB
0	DLZ 204	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 205	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 301	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 302	50.04.2812			DLZ 11*D GB
0	DLZ 304	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 305	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 401	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 402	50.04.2812			DLZ 11*D GB
0	DLZ 404	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 405	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	IC 1	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 2	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	MP 1	1.940.711.11	1 pce		FADER FRONT PCB /!\
0	MP 2	43.01.0108	1 pce	Label	ESE-WARNSCHILD
0	MP 3	1.940.713.04	1 pce		NR.-ETIKETTE 5 * 20
0	MP 4	53.03.0213	264 pc	1p	XIC SINGLE, IN-LINE 1PIN=1STK
0	MP 5	53.03.0240	36 pcs		XLED SINGLE LINE, 2 POL. PRINT
0	MP 6	1.010.091.23	4 pcs		DISTANZSCHEIBE D 9.0/12* 1.2
0	P 2	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 4	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 5	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 23	54.16.0540		40p	P 1/40", 40 P, AU, PRINT
0	P 101	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 102	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 103	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 201	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 202	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 203	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 301	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 302	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 303	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 401	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 402	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	P 403	54.11.0125		1p	P STIFT,WINKEL 1 PIN=1 STK.
0	R 101	57.10.1102		1k0	MF, 1%, 0204
0	R 102	57.10.1102		1k0	MF, 1%, 0204
0	R 103	57.10.1102		1k0	MF, 1%, 0204
0	R 104	57.10.1102		1k0	MF, 1%, 0204
0	RZ 101	57.88.2104		4*100k	2%, SIP 8
0	RZ 103	57.88.2220		4*22R	2%, SIP 8
0	RZ 104	57.88.2220		4*22R	2%, SIP 8
0	RZ 105	57.88.2220		4*22R	2%, SIP 8
0	RZ 106	57.88.2220		4*22R	2%, SIP 8
0	RZ 201	57.88.2104		4*100k	2%, SIP 8
0	RZ 203	57.88.2220		4*22R	2%, SIP 8
0	RZ 204	57.88.2220		4*22R	2%, SIP 8
0	RZ 205	57.88.2220		4*22R	2%, SIP 8
0	RZ 206	57.88.2220		4*22R	2%, SIP 8
0	RZ 301	57.88.2104		4*100k	2%, SIP 8
0	RZ 303	57.88.2220		4*22R	2%, SIP 8
0	RZ 304	57.88.2220		4*22R	2%, SIP 8
0	RZ 305	57.88.2220		4*22R	2%, SIP 8
0	RZ 306	57.88.2220		4*22R	2%, SIP 8
0	RZ 401	57.88.2104		4*100k	2%, SIP 8
0	RZ 403	57.88.2220		4*22R	2%, SIP 8
0	RZ 404	57.88.2220		4*22R	2%, SIP 8
0	RZ 405	57.88.2220		4*22R	2%, SIP 8
0	RZ 406	57.88.2220		4*22R	2%, SIP 8
0	S 101	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 102	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 103	55.15.0744		1*a	S TASTE 1*A, 12MM, GB/GB
0	S 104	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
0	S 105	55.15.0744		1*a	S TASTE 1*A, 12MM, GB/GB
0	S 106	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
0	S 107	1.940.751.02			ROTARY ENCODER
0	S 201	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 202	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 203	55.15.0744		1*a	S TASTE 1*A, 12MM, GB/GB
0	S 204	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
0	S 205	55.15.0744		1*a	S TASTE 1*A, 12MM, GB/GB
0	S 206	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
0	S 207	1.940.751.02			ROTARY ENCODER
0	S 301	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 302	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 303	55.15.0744		1*a	S TASTE 1*A, 12MM, GB/GB
0	S 304	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
0	S 305	55.15.0744		1*a	S TASTE 1*A, 12MM, GB/GB
0	S 306	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
0	S 307	1.940.751.02			ROTARY ENCODER
0	S 401	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 402	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 403	55.15.0744		1*a	S TASTE 1*A, 12MM, GB/GB
0	S 404	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
0	S 405	55.15.0744		1*a	S TASTE 1*A, 12MM, GB/GB
0	S 406	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
0	S 407	1.940.751.02			ROTARY ENCODER
0	W 101	not used		1-P	MP RAST LOETKONTAKT D 1.3
0	W 102	not used		1-P	MP RAST LOETKONTAKT D 1.3
0	W 201	not used		1-P	MP RAST LOETKONTAKT D 1.3
0	W 202	not used		1-P	MP RAST LOETKONTAKT D 1.3
0	W 301	not used		1-P	MP RAST LOETKONTAKT D 1.3
0	W 302	not used		1-P	MP RAST LOETKONTAKT D 1.3
0	W 401	not used		1-P	MP RAST LOETKONTAKT D 1.3
0	W 402	not used		1-P	MP RAST LOETKONTAKT D 1.3

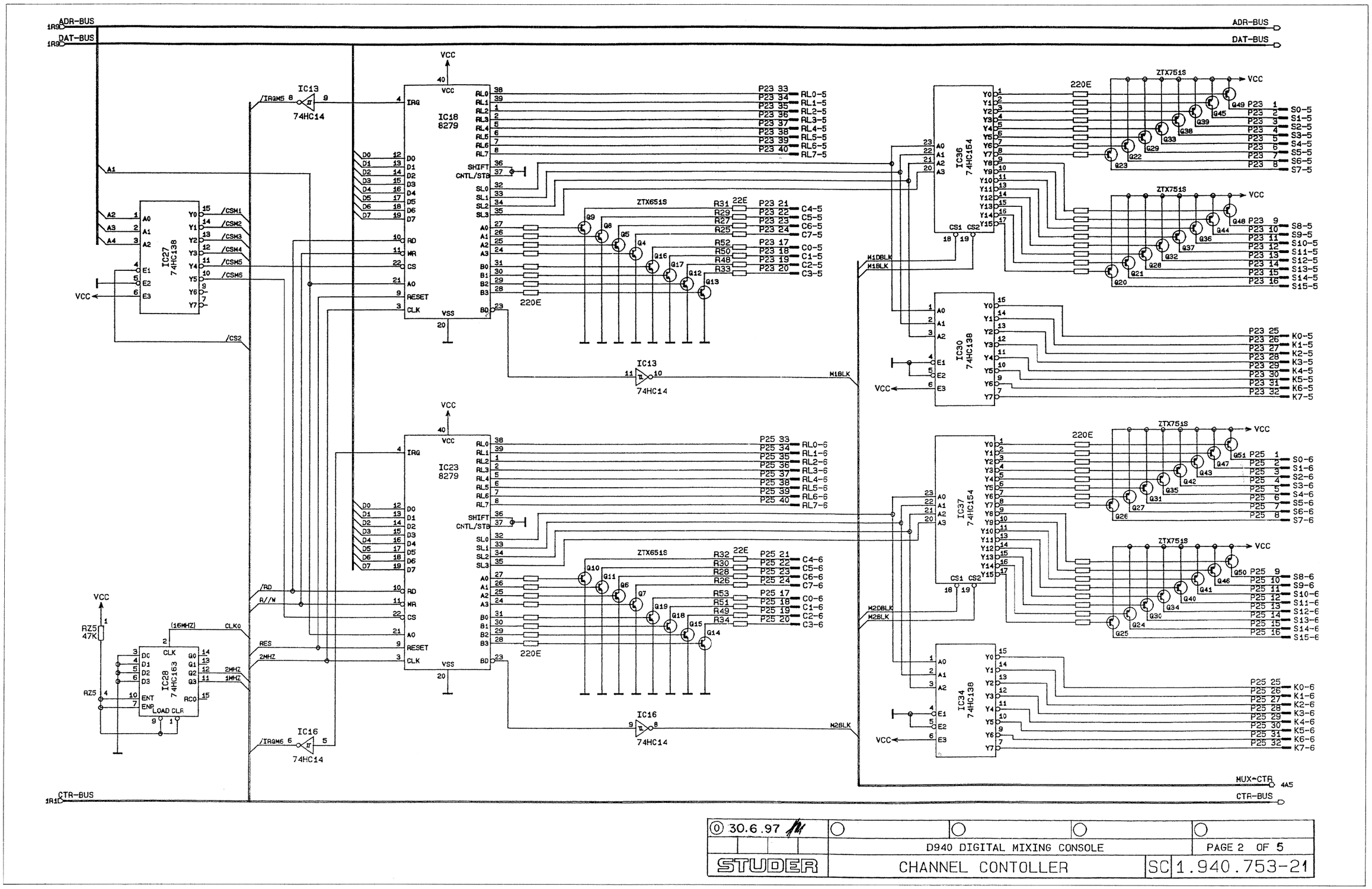
End of List

Comments:

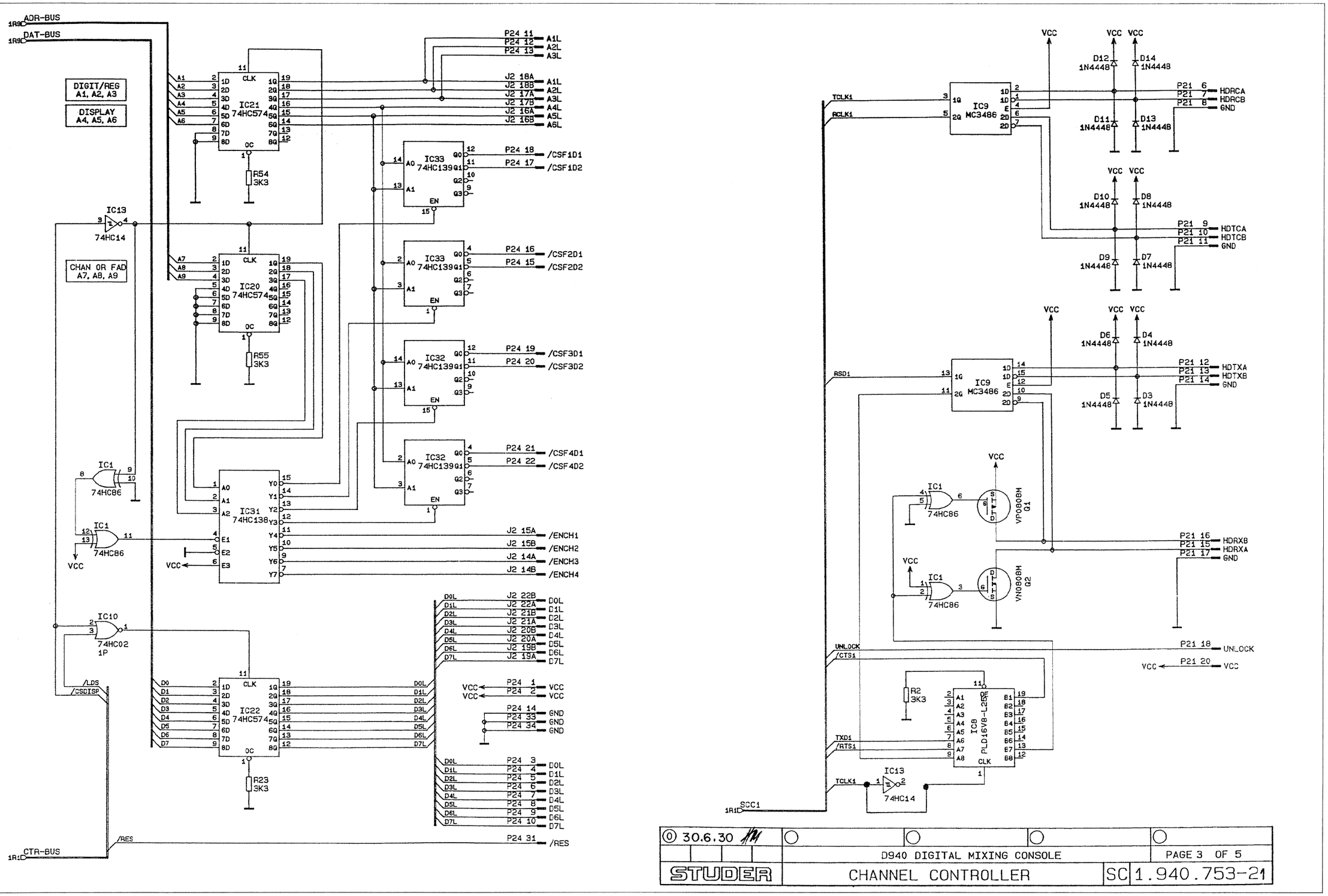
Channel Controller Board 1.940.753.21
Channel Controller Board 1.940.756.21
Channel Controller Board 1.940.764.21



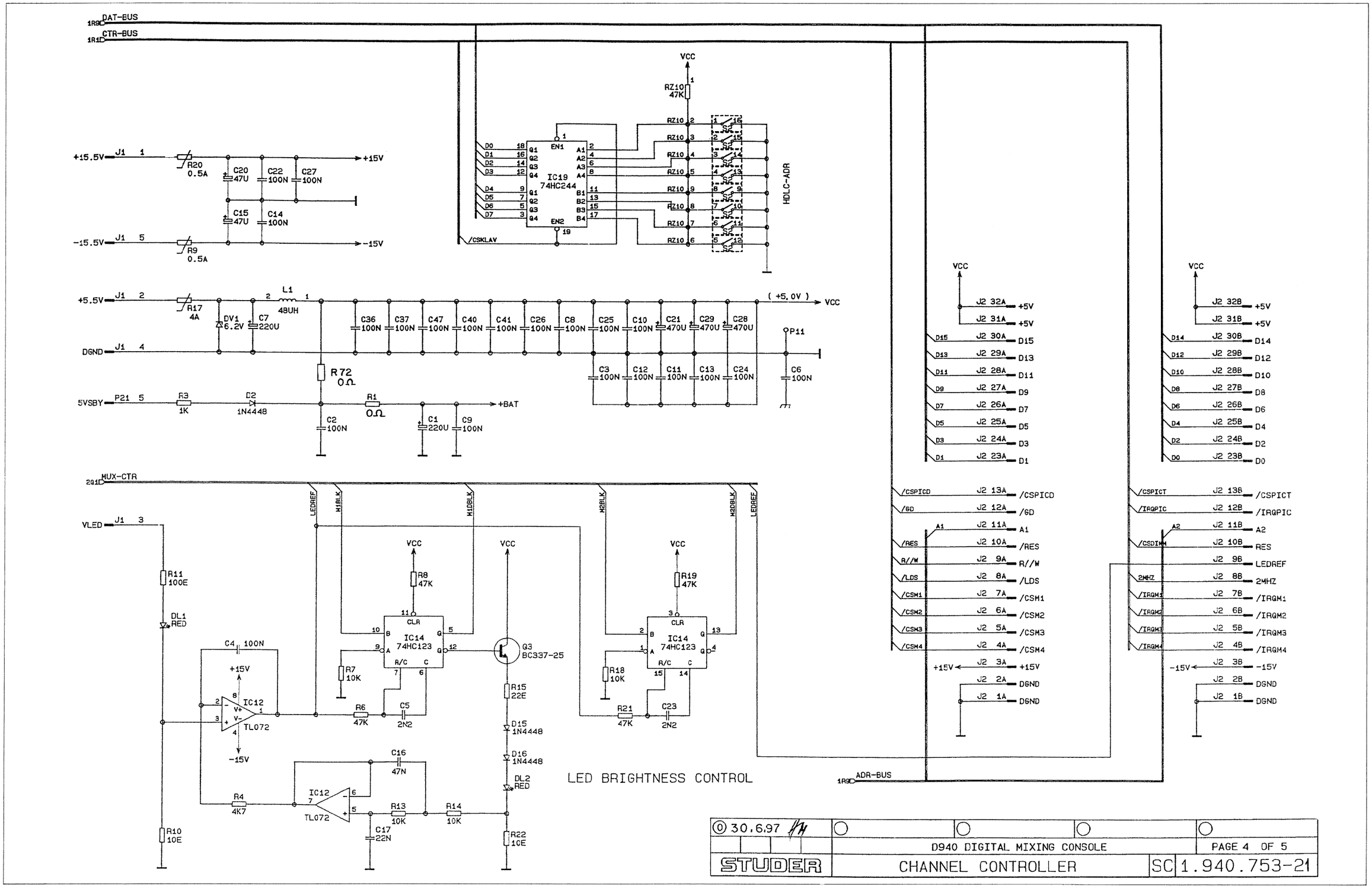
⓪ 30.6.97					
STUDER	D940 DIGITAL MIXING CONSOLE				PAGE 1 OF 5
	CHANNEL CONTROLLER			SC	1.940.753-21


ADR-BUS
DAT-BUS
CTR-BUS
MUX-CTR
IC13
74HC14
IC16
74HC14
IC18
8279
IC23
8279
IC27
74HC138
IC28
74HC163
IC30
74HC138
IC34
74HC138
IC36
74HC154
IC37
74HC154
ZTX651S
ZTX751S
220E
VCC
/CS1
/CS2
/CS3
/CS4
/CS5
/CS6
/RD
R//W
RES
2MHZ
1MHZ
(16MHZ)
CLK0
IRQM5
IRQM6
SHIFT
CNTL/STB
M1DBLK
M1BLK
M2DBLK
M2BLK
RZ5
47K
RL0-5
RL1-5
RL2-5
RL3-5
RL4-5
RL5-5
RL6-5
RL7-5
RL0-6
RL1-6
RL2-6
RL3-6
RL4-6
RL5-6
RL6-6
RL7-6
C4-5
C5-5
C6-5
C7-5
C0-5
C1-5
C2-5
C3-5
C4-6
C5-6
C6-6
C7-6
C0-6
C1-6
C2-6
C3-6
S0-5
S1-5
S2-5
S3-5
S4-5
S5-5
S6-5
S7-5
S8-5
S9-5
S10-5
S11-5
S12-5
S13-5
S14-5
S15-5
S0-6
S1-6
S2-6
S3-6
S4-6
S5-6
S6-6
S7-6
S8-6
S9-6
S10-6
S11-6
S12-6
S13-6
S14-6
S15-6
K0-5
K1-5
K2-5
K3-5
K4-5
K5-5
K6-5
K7-5
K0-6
K1-6
K2-6
K3-6
K4-6
K5-6
K6-6
K7-6
30.6.97
D940 DIGITAL MIXING CONSOLE
PAGE 2 OF 5
STUDER
CHANNEL CONTOLLER
SC 1.940.753-21

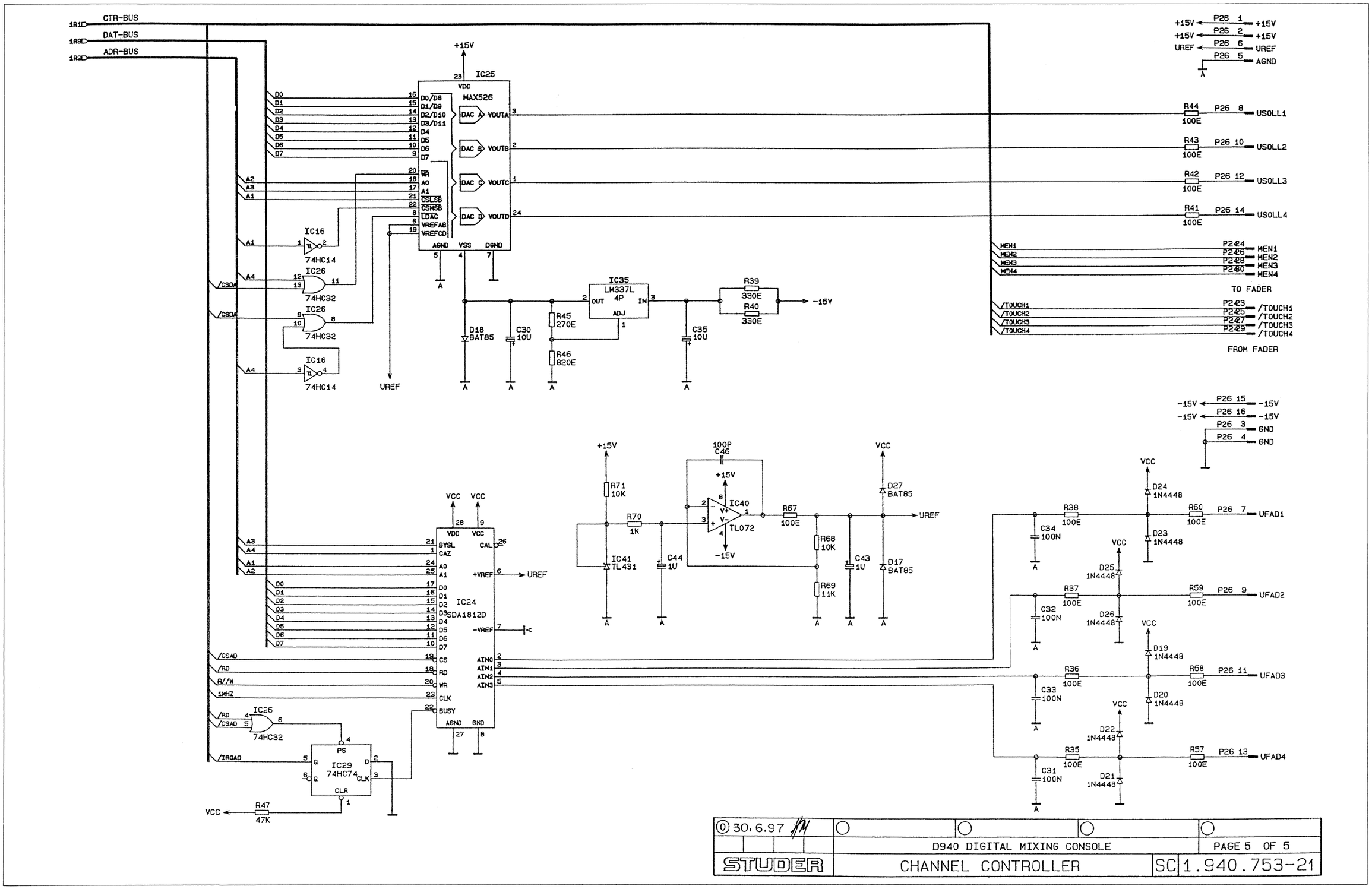
Channel Controller Board 1.940.753.21
Channel Controller Board 1.940.756.21
Channel Controller Board 1.940.764.21



⓪ 30.6.30				
STUDER	D940 DIGITAL MIXING CONSOLE			PAGE 3 OF 5
	CHANNEL CONTROLLER		SC	1.940.753-21


DAT-BUS
CTR-BUS
VCC
RZ10 47K
IC19 74HC244
HDLC-ADR
/CSKLAV
+15.5V J1 1
R20 0.5A
C20 47U
C22 100N
C27 100N
C15 47U
C14 100N
-15.5V J1 5
R9 0.5A
+15V
-15V
+5.5V J1 2
R17 4A
L1 48UH
DV1 6.2V
C7 220U
(+5.0V)
DGND J1 4
P11
C6 100N
R72 0Ω
5VSBY P21 5
R3 1K
D2 1N4448
R1 0Ω
+BAT
C2 100N
C1 220U
C9 100N
C36 100N
C37 100N
C47 100N
C40 100N
C41 100N
C26 100N
C8 100N
C25 100N
C10 100N
C21 470U
C29 470U
C28 470U
C3 100N
C12 100N
C11 100N
C13 100N
C24 100N
MUX-CTR
VLED J1 3
R11 100E
DL1 RED
R10 10E
LEDREF
M1BLK
M1DBLK
M2BLK
M2DBLK
R8 47K
R19 47K
IC14 74HC123
CLR
R/C
R7 10K
R18 10K
Q3 BC337-25
R15 22E
D15 1N4448
D16 1N4448
DL2 RED
R22 10E
C4 100N
IC12 TL072
R6 47K
C5 2N2
R21 47K
C23 2N2
C16 47N
R4 4K7
R13 10K
R14 10K
C17 22N
LED BRIGHTNESS CONTROL
ADR-BUS
J2 32A +5V
J2 31A +5V
J2 30A D15
J2 29A D13
J2 28A D11
J2 27A D9
J2 26A D7
J2 25A D5
J2 24A D3
J2 23A D1
J2 13A /CSPICD
J2 12A /GD
J2 11A A1
J2 10A /RES
J2 9A R//W
J2 8A /LDS
J2 7A /CSM1
J2 6A /CSM2
J2 5A /CSM3
J2 4A /CSM4
J2 3A +15V
J2 2A DGND
J2 1A DGND
J2 32B +5V
J2 31B +5V
J2 30B D14
J2 29B D12
J2 28B D10
J2 27B D8
J2 26B D6
J2 25B D4
J2 24B D2
J2 23B D0
J2 13B /CSPICT
J2 12B /IRQPIC
J2 11B A2
J2 10B RES
J2 9B LEDREF
J2 8B 2MHZ
J2 7B /IRQM1
J2 6B /IRQM2
J2 5B /IRQM3
J2 4B /IRQM4
J2 3B -15V
J2 2B DGND
J2 1B DGND
0 30.6.97
D940 DIGITAL MIXING CONSOLE
PAGE 4 OF 5
STUDER
CHANNEL CONTROLLER
SC 1.940.753-21

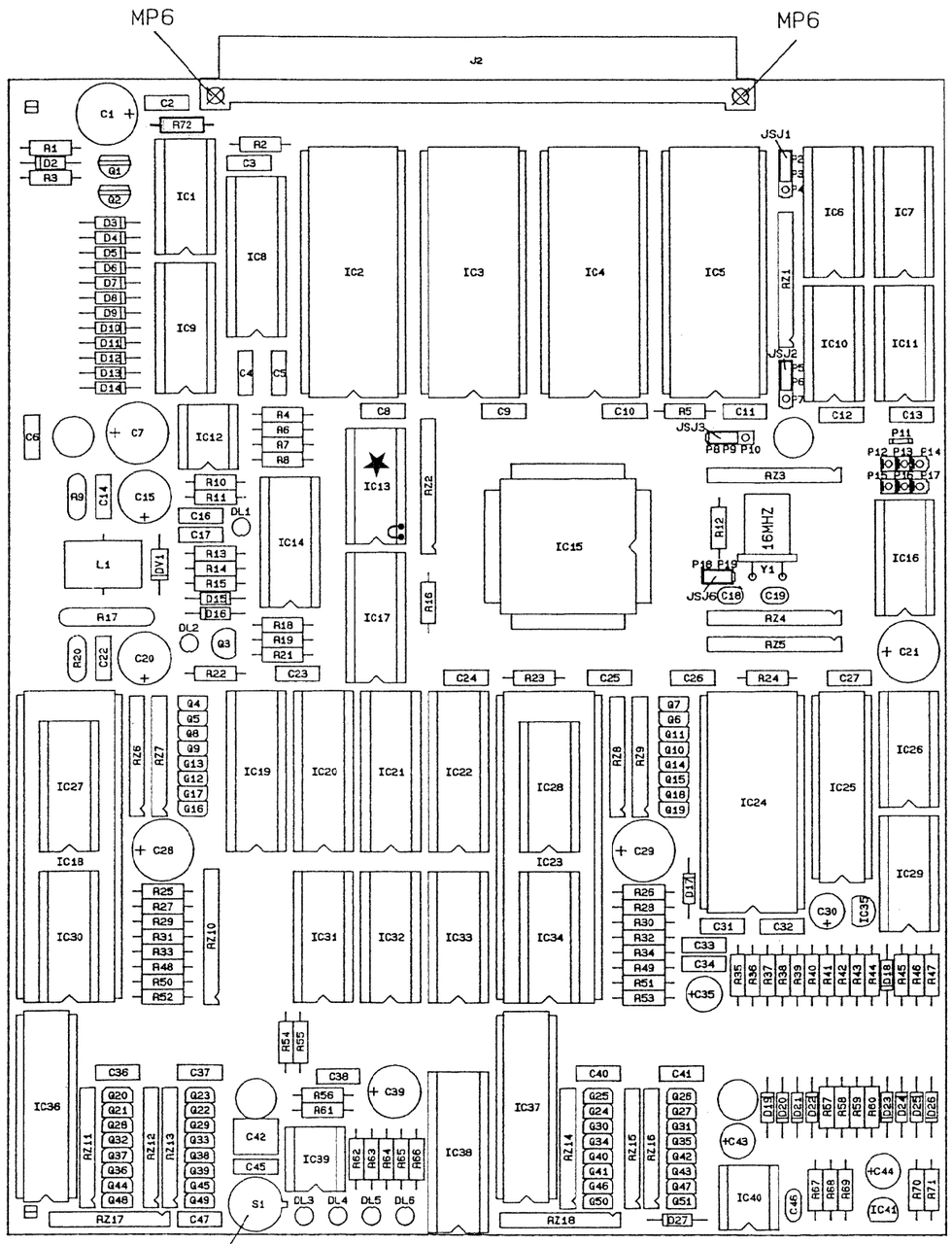
Channel Controller Board 1.940.753.21
Channel Controller Board 1.940.756.21
Channel Controller Board 1.940.764.21



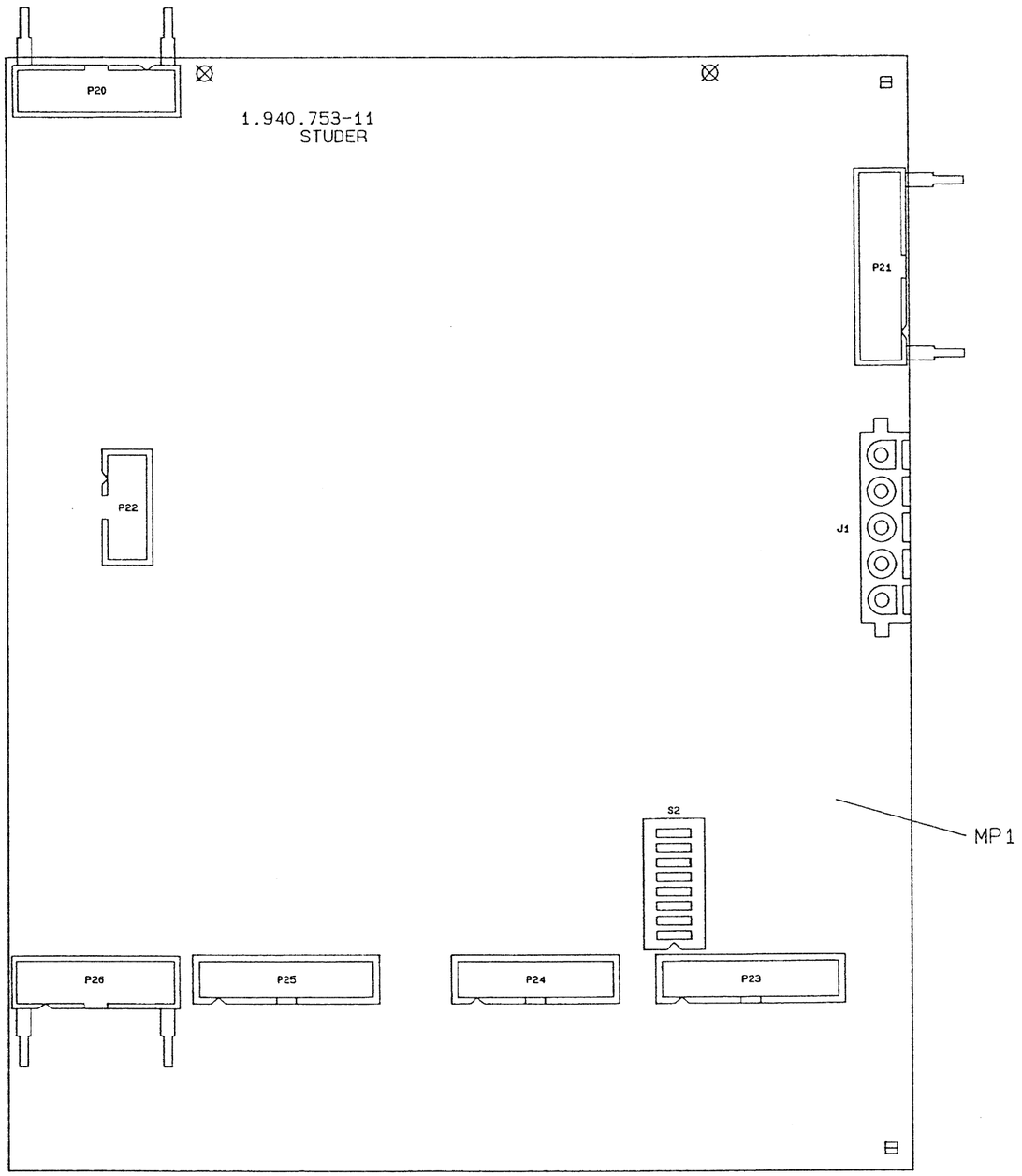
30.6.97				
	D940 DIGITAL MIXING CONSOLE			PAGE 5 OF 5
STUDER	CHANNEL CONTROLLER		SC	1.940.753-21

STUDER

Channel Controller Board 1.940.753.21
Channel Controller Board 1.940.756.21
Channel Controller Board 1.940.764.21



Component side



Solder side

⓪	30.6.97	RB			
IND	DATUM	GEZ.	GEPR.	GES	
	BLATT 1 VON 1				

STUDER	CHANNEL CONTROLLER	BP	1.940.753-21

Channel Controller Board 1.940.753.21

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.22.5221		220u	EL 25V, 20%, RM5
0	C 2	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 3	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 4	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 5	59.06.5222		2n2	PETP, 63V, 5%, RM5
0	C 6	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 7	59.22.5221		220u	EL 25V, 20%, RM5
0	C 8	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 9	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 10	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 11	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 12	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 13	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 14	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 15	59.22.6470		47u	EL 40V, 20%, RM5
0	C 16	59.06.5473		47n	PETP, 63V, 5%, RM5
0	C 17	59.06.5223		22n	PETP, 63V, 5%, RM5
0	C 18	59.34.2270		27p	CER 63V, 5%, N150
0	C 19	59.34.2270		27p	CER 63V, 5%, N150
0	C 20	59.22.6470		47u	EL 40V, 20%, RM5
0	C 21	59.22.3471		470u	EL 10V, 20%, RM5
0	C 22	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 23	59.06.5222		2n2	PETP, 63V, 5%, RM5
0	C 24	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 25	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 26	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 27	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 28	59.22.3471		470u	EL 10V, 20%, RM5
0	C 29	59.22.3471		470u	EL 10V, 20%, RM5
0	C 30	59.22.6100		10u	EL 35V, 20%, RM5
0	C 31	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 32	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 33	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 34	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 35	59.22.6100		10u	EL 35V, 20%, RM5
0	C 36	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 37	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 38	59.06.5104		100n	PETP, 63V, 5%, RM5
0	C 39	59.22.6470		47u	EL 40V, 20%, RM5
0	C 40	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 41	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 42	59.06.5105		1u0	PETP, 50V, 5%, RM5
0	C 43	59.22.8109		1u	EL 50V, 20%, RM5
0	C 44	59.22.8109		1u	EL 50V, 20%, RM5
0	C 45	59.06.5104		100n	PETP, 63V, 5%, RM5
0	C 46	59.34.4101		100p	CER 63V, 5%, N750
0	C 47	59.06.0104		100n	PETP, 63V, 10%, RM5
0	D 2	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 3	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 4	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 5	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 6	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 10	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 12	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 13	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 14	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 15	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 16	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 17	50.04.0127		BAT85	200mA, Schottky
0	D 18	50.04.0127		BAT85	200mA, Schottky
0	D 19	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 20	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 21	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 22	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 23	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 24	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 25	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 26	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 27	50.04.0127		BAT85	200mA, Schottky
0	DL 1	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 2	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 3	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 4	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 5	50.04.2131		LG3360	DL LG 3360 , GN DIFF
0	DL 6	50.04.2130		LY3360	DL LY 3360 , GB DIFF
0	DV 1	50.04.1511		6V2	Zener, 5%, 1.3W, DO-41
0	IC 1	50.17.1086		74HC86	IC ... 74 HC 86 ., ,A
0	IC 2	1.940.935.20			SW940750 HDLC-EPROM ,A
					50.14.2009
0	IC 3	50.14.1010		TC551001-85	SRAM 128K * 8, 85ns
0	IC 4	50.14.1010		TC551001-85	SRAM 128K * 8, 85ns
0	IC 5	1.940.935.20			SW940750 HDLC-EPROM ,A
					50.14.2009
0	IC 6	50.17.1139		74HC139	IC ... 74 HC 139 ., ,A
0	IC 7	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 8	50.18.0100		PLD16V8	16 V 8 D - 25 LP
0	IC 9	50.15.0104		MC3486	IC MC 3486 P, DS 3486 N,
0	IC 10	50.17.1002		74HC02	IC ... 74 HC 02 ., ,A
0	IC 11	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 12	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 13	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 14	50.17.1123		74HC123	IC ... 74 HC 123 ., ,A
0	IC 15	50.63.0100		MC68302	IC MC 68 302 FC 16 C ,A
0	IC 16	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 17	50.17.1148		74HC148	IC ... 74 HC 148 ., ,A
1	IC 18	50.16.0703		8279	IC TMP 82 C 79 P-2
0	IC 19	50.17.1244		74HC244	IC ... 74 HC 244 ., ,A
0	IC 20	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 21	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 22	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
1	IC 23	50.16.0703		8279	IC TMP 82 C 79 P-2
0	IC 24	50.19.0204			IC ADS 7803 BP ,A
0	IC 25	50.19.0113		MAX526D	D/A Converter 12 Bit
0	IC 26	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 27	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 28	50.17.1163		74HC163	IC ... 74 HC 163 ., ,A
0	IC 29	50.17.1074		74HC74	IC ... 74 HC 74 ., ,A
0	IC 30	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 31	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 32	50.17.1139		74HC139	IC ... 74 HC 139 ., ,A
0	IC 33	50.17.1139		74HC139	IC ... 74 HC 139 ., ,A
0	IC 34	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 35	50.10.0109		LM337L	IC LM 337 LZ,
0	IC 36	50.17.1154		74HC154	4-to16 Line driver, DIP 24-300
0	IC 37	50.17.1154		74HC154	4-to16 Line driver, DIP 24-300
0	IC 38	50.17.1244		74HC244	IC ... 74 HC 244 ., ,A
0	IC 39	50.11.0157		TL7705B	IC TL 7705 BCP,
0	IC 40	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 41	50.10.0106		TL431	IC TL 431 CLP,
0	J 1	54.25.0005		5p	Buchse, 16A, vertikal, PCB
0	J 2	54.11.2010		64p	EU-Q 2*32p
0	JSJ 1	54.01.0021		Jumper	0.63 * 0.63mm
0	JSJ 2	54.01.0021		Jumper	0.63 * 0.63mm
0	JSJ 3	54.01.0021		Jumper	0.63 * 0.63mm
0	JSJ 6	54.01.0021		Jumper	0.63 * 0.63mm
0	L 1	62.03.0010		48uH	2A Toroid Chocke
0	MP 1	1.940.753.11	1 pce		CHANNEL CONTROLLER PCB /I\
0	MP 2	1.940.753.04	1 pce		NR.-ETIKETTE 5 * 20
0	MP 3	1.101.001.20	1 pce	Label	TEXT-ETIK. 5*20 HARDWARE -20
0	MP 4	43.01.0108	1 pce	Label	ESE-WARNSCHILD
0	MP 5	1.010.015.50	1 pce	Spacer	ISOLIER-SCHEIBE ZU T0 5
0	MP 6	28.99.0119	2 pcs		ROHRNIETE D 2.5*0.15* 9
0	P 2	54.01.0020		1p	Pin 0.63*0.63
0	P 3	54.01.0020		1p	Pin 0.63*0.63
0	P 4	54.01.0020		1p	Pin 0.63*0.63
0	P 5	54.01.0020		1p	Pin 0.63*0.63
0	P 6	54.01.0020		1p	Pin 0.63*0.63
0	P 7	54.01.0020		1p	Pin 0.63*0.63
0	P 8	54.01.0020		1p	Pin 0.63*0.63
0	P 9	54.01.0020		1p	Pin 0.63*0.63
0	P 10	54.01.0020		1p	Pin 0.63*0.63
0	P 11	54.02.0320		1p	Flatpin, 2.8*0.8mm
0	P 12	54.01.0020		1p	Pin 0.63*0.63
0	P 13	54.01.0020		1p	Pin 0.63*0.63
0	P 14	54.01.0020		1p	Pin 0.63*0.63
0	P 15	54.01.0020		1p	Pin 0.63*0.63
0	P 16	54.01.0020		1p	Pin 0.63*0.63
0	P 17	54.01.0020		1p	Pin 0.63*0.63
0	P 18	54.01.0020		1p	Pin 0.63*0.63
0	P 19	54.01.0020		1p	Pin 0.63*0.63
0	P 20	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 21	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 22	54.14.2001		10p	1/20" Au, gerade, ohne Verrieg
0	P 23	54.16.0540		40p	P 1/40", 40 P, AU, PRINT
0	P 24	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 25	54.16.0540		40p	P 1/40", 40 P, AU, PRINT
0	P 26	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	Q 1	50.03.1554		VP0808M	VP 0808 M
0	Q 2	50.03.1505		VN0808M	VN 0808 M, ZVN 0106 A
0	Q 3	50.43.0340			Q BC 337-25,
0	Q 4	50.03.0523		ZTX651	ZTX 651

Channel Controller Board 1.940.753.21

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	Q 5	50.03.0523		ZTX651	ZTX 651
0	Q 6	50.03.0523		ZTX651	ZTX 651
0	Q 7	50.03.0523		ZTX651	ZTX 651
0	Q 8	50.03.0523		ZTX651	ZTX 651
0	Q 9	50.03.0523		ZTX651	ZTX 651
0	Q 10	50.03.0523		ZTX651	ZTX 651
0	Q 11	50.03.0523		ZTX651	ZTX 651
0	Q 12	50.03.0523		ZTX651	ZTX 651
0	Q 13	50.03.0523		ZTX651	ZTX 651
0	Q 14	50.03.0523		ZTX651	ZTX 651
0	Q 15	50.03.0523		ZTX651	ZTX 651
0	Q 16	50.03.0523		ZTX651	ZTX 651
0	Q 17	50.03.0523		ZTX651	ZTX 651
0	Q 18	50.03.0523		ZTX651	ZTX 651
0	Q 19	50.03.0523		ZTX651	ZTX 651
0	Q 20	50.03.0352		ZTX751S	ZTX 751 S
0	Q 21	50.03.0352		ZTX751S	ZTX 751 S
0	Q 22	50.03.0352		ZTX751S	ZTX 751 S
0	Q 23	50.03.0352		ZTX751S	ZTX 751 S
0	Q 24	50.03.0352		ZTX751S	ZTX 751 S
0	Q 25	50.03.0352		ZTX751S	ZTX 751 S
0	Q 26	50.03.0352		ZTX751S	ZTX 751 S
0	Q 27	50.03.0352		ZTX751S	ZTX 751 S
0	Q 28	50.03.0352		ZTX751S	ZTX 751 S
0	Q 29	50.03.0352		ZTX751S	ZTX 751 S
0	Q 30	50.03.0352		ZTX751S	ZTX 751 S
0	Q 31	50.03.0352		ZTX751S	ZTX 751 S
0	Q 32	50.03.0352		ZTX751S	ZTX 751 S
0	Q 33	50.03.0352		ZTX751S	ZTX 751 S
0	Q 34	50.03.0352		ZTX751S	ZTX 751 S
0	Q 35	50.03.0352		ZTX751S	ZTX 751 S
0	Q 36	50.03.0352		ZTX751S	ZTX 751 S
0	Q 37	50.03.0352		ZTX751S	ZTX 751 S
0	Q 38	50.03.0352		ZTX751S	ZTX 751 S
0	Q 39	50.03.0352		ZTX751S	ZTX 751 S
0	Q 40	50.03.0352		ZTX751S	ZTX 751 S
0	Q 41	50.03.0352		ZTX751S	ZTX 751 S
0	Q 42	50.03.0352		ZTX751S	ZTX 751 S
0	Q 43	50.03.0352		ZTX751S	ZTX 751 S
0	Q 44	50.03.0352		ZTX751S	ZTX 751 S
0	Q 45	50.03.0352		ZTX751S	ZTX 751 S
0	Q 46	50.03.0352		ZTX751S	ZTX 751 S
0	Q 47	50.03.0352		ZTX751S	ZTX 751 S
0	Q 48	50.03.0352		ZTX751S	ZTX 751 S
0	Q 49	50.03.0352		ZTX751S	ZTX 751 S
0	Q 50	50.03.0352		ZTX751S	ZTX 751 S
0	Q 51	50.03.0352		ZTX751S	ZTX 751 S
0	R 1	57.11.3000		0R0	MF, 0207
0	R 2	57.11.3332		3k3	MF, 1%, 0207
0	R 3	57.11.3102		1k0	MF, 1%, 0207
0	R 4	57.11.3472		4k7	MF, 1%, 0207
0	R 5	57.11.3332		3k3	MF, 1%, 0207
0	R 6	57.11.3473		47k	MF, 1%, 0207
0	R 7	57.11.3103		10k	MF, 1%, 0207
0	R 8	57.11.3473		47k	MF, 1%, 0207
0	R 9	57.92.7013		0.5A	POLY- PTC, 60V
0	R 10	57.11.3100		10R	MF, 1%, 0207
0	R 11	57.11.3101		100R	MF, 1%, 0207
0	R 12	57.11.3684		680k	MF, 1%, 0207
0	R 13	57.11.3103		10k	MF, 1%, 0207
0	R 14	57.11.3103		10k	MF, 1%, 0207
0	R 15	57.11.3220		22R	MF, 1%, 0207
0	R 16	57.11.3332		3k3	MF, 1%, 0207
0	R 17	57.92.7058		4.0A	POLY- PTC, 30V
0	R 18	57.11.3103		10k	MF, 1%, 0207
0	R 19	57.11.3473		47k	MF, 1%, 0207
0	R 20	57.92.7013		0.5A	POLY- PTC, 60V
0	R 21	57.11.3473		47k	MF, 1%, 0207
0	R 22	57.11.3100		10R	MF, 1%, 0207
0	R 23	57.11.3332		3k3	MF, 1%, 0207
0	R 24	57.11.3332		3k3	MF, 1%, 0207
0	R 25	57.11.3220		22R	MF, 1%, 0207
0	R 26	57.11.3220		22R	MF, 1%, 0207
0	R 27	57.11.3220		22R	MF, 1%, 0207
0	R 28	57.11.3220		22R	MF, 1%, 0207
0	R 29	57.11.3220		22R	MF, 1%, 0207
0	R 30	57.11.3220		22R	MF, 1%, 0207
0	R 31	57.11.3220		22R	MF, 1%, 0207
0	R 32	57.11.3220		22R	MF, 1%, 0207
0	R 33	57.11.3220		22R	MF, 1%, 0207
0	R 34	57.11.3220		22R	MF, 1%, 0207
0	R 35	57.11.3101		100R	MF, 1%, 0207
0	R 36	57.11.3101		100R	MF, 1%, 0207
0	R 37	57.11.3101		100R	MF, 1%, 0207
0	R 38	57.11.3101		100R	MF, 1%, 0207
0	R 39	57.11.3331		330R	MF, 1%, 0207

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 40	57.11.3331		330R	MF, 1%, 0207
0	R 41	57.11.3101		100R	MF, 1%, 0207
0	R 42	57.11.3101		100R	MF, 1%, 0207
0	R 43	57.11.3101		100R	MF, 1%, 0207
0	R 44	57.11.3101		100R	MF, 1%, 0207
0	R 45	57.11.3271		270R	MF, 1%, 0207
0	R 46	57.11.3821		820R	MF, 1%, 0207
0	R 47	57.11.3473		47k	MF, 1%, 0207
0	R 48	57.11.3220		22R	MF, 1%, 0207
0	R 49	57.11.3220		22R	MF, 1%, 0207
0	R 50	57.11.3220		22R	MF, 1%, 0207
0	R 51	57.11.3220		22R	MF, 1%, 0207
0	R 52	57.11.3220		22R	MF, 1%, 0207
0	R 53	57.11.3220		22R	MF, 1%, 0207
0	R 54	57.11.3332		3k3	MF, 1%, 0207
0	R 55	57.11.3332		3k3	MF, 1%, 0207
0	R 56	57.11.3221		220R	MF, 1%, 0207
0	R 57	57.11.3101		100R	MF, 1%, 0207
0	R 58	57.11.3101		100R	MF, 1%, 0207
0	R 59	57.11.3101		100R	MF, 1%, 0207
0	R 60	57.11.3101		100R	MF, 1%, 0207
0	R 61	57.11.3100		10R	MF, 1%, 0207
0	R 62	57.11.3332		3k3	MF, 1%, 0207
0	R 63	57.11.3271		270R	MF, 1%, 0207
0	R 64	57.11.3271		270R	MF, 1%, 0207
0	R 65	57.11.3271		270R	MF, 1%, 0207
0	R 66	57.11.3271		270R	MF, 1%, 0207
0	R 67	57.11.3101		100R	MF, 1%, 0207
0	R 68	57.11.3103		10k	MF, 1%, 0207
0	R 69	57.11.3113		11k	MF, 1%, 0207
0	R 70	57.11.3102		1k0	MF, 1%, 0207
0	R 71	57.11.3103		10k	MF, 1%, 0207
0	R 72	57.11.3000		0R0	MF, 0207
0	RZ 1	57.88.4473		8*47k	2%, SIP 9
0	RZ 2	57.88.4473		8*47k	2%, SIP 9
0	RZ 3	57.88.4473		8*47k	2%, SIP 9
0	RZ 4	57.88.4473		8*47k	2%, SIP 9
0	RZ 5	57.88.4473		8*47k	2%, SIP 9
0	RZ 6	57.88.2221		4*220R	2%, SIP 8
0	RZ 7	57.88.2221		4*220R	2%, SIP 8
0	RZ 8	57.88.2221		4*220R	2%, SIP 8
0	RZ 9	57.88.2221		4*220R	2%, SIP 8
0	RZ 10	57.88.4473		8*47k	2%, SIP 9
0	RZ 11	57.88.2221		4*220R	2%, SIP 8
0	RZ 12	57.88.2221		4*220R	2%, SIP 8
0	RZ 13	57.88.2221		4*220R	2%, SIP 8
0	RZ 14	57.88.2221		4*220R	2%, SIP 8
0	RZ 15	57.88.2221		4*220R	2%, SIP 8
0	RZ 16	57.88.2221		4*220R	2%, SIP 8
0	RZ 17	57.88.2221		4*220R	2%, SIP 8
0	RZ 18	57.88.2221		4*220R	2%, SIP 8
0	S 1	55.03.0122		1*a	S 1 TASTE, 1*A, PRINT,IMPULS
0	S 2	55.01.0166		8*a	SZ , 8*A, DIL
0	XIC 2	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 3	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 4	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 5	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 8	53.03.0165		20p	DIL 0.3", löt, gerade
0	XIC 9	53.03.0168		16p	DIL 0.3", löt, gerade
0	XIC 18	53.03.0218		1p	single-in-line
0	XIC 23	53.03.0218		1p	single-in-line
0	XIC 24	53.03.0173		28p	DIL 0.6", löt, gerade
0	XIC 25	53.03.0182		24p	DIL 0.3", löt, gerade
0	Y 1	89.01.1009		16.000MHz	16.000 000 MHz, HC 49/U

End of List

Comments:

Process of 8279 has been changed to CMOS technology

Channel Controller Board 1.940.756.21

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.22.5221		220u	EL 25V, 20%, RM5
0	C 2	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 3	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 4	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 5	59.06.5222		2n2	PETP, 63V, 5%, RM5
0	C 6	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 7	59.22.5221		220u	EL 25V, 20%, RM5
0	C 8	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 9	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 10	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 11	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 12	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 13	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 14	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 15	59.22.6470		47u	EL 40V, 20%, RM5
0	C 16	59.06.5473		47n	PETP, 63V, 5%, RM5
0	C 17	59.06.5223		22n	PETP, 63V, 5%, RM5
0	C 18	59.34.2270		27p	CER 63V, 5%, N150
0	C 19	59.34.2270		27p	CER 63V, 5%, N150
0	C 20	59.22.6470		47u	EL 40V, 20%, RM5
0	C 21	59.22.3471		470u	EL 10V, 20%, RM5
0	C 22	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 23	59.06.5222		2n2	PETP, 63V, 5%, RM5
0	C 24	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 25	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 26	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 27	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 28	59.22.3471		470u	EL 10V, 20%, RM5
0	C 29	59.22.3471		470u	EL 10V, 20%, RM5
0	C 30	59.22.6100		10u	EL 35V, 20%, RM5
0	C 31	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 32	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 33	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 34	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 35	59.22.6100		10u	EL 35V, 20%, RM5
0	C 36	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 37	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 38	59.06.5104		100n	PETP, 63V, 5%, RM5
0	C 39	59.22.6470		47u	EL 40V, 20%, RM5
0	C 40	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 41	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 42	59.06.5105		1u0	PETP, 50V, 5%, RM5
0	C 43	59.22.8109		1u	EL 50V, 20%, RM5
0	C 44	59.22.8109		1u	EL 50V, 20%, RM5
0	C 45	59.06.5104		100n	PETP, 63V, 5%, RM5
0	C 46	59.34.4101		100p	CER 63V, 5%, N750
0	C 47	59.06.0104		100n	PETP, 63V, 10%, RM5
0	D 2	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 3	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 4	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 5	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 6	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 10	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 12	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 13	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 14	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 15	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 16	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 17	50.04.0127		BAT85	200mA, Schottky
0	D 18	50.04.0127		BAT85	200mA, Schottky
0	D 19	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 20	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 21	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 22	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 23	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 24	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 25	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 26	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 27	50.04.0127		BAT85	200mA, Schottky
0	DL 1	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 2	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 3	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 4	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 5	50.04.2131		LG3360	DL LG 3360 , GN DIFF
0	DL 6	50.04.2130		LY3360	DL LY 3360 , GB DIFF
0	DV 1	50.04.1511		6V2	Zener, 5%, 1.3W, DO-41
0	IC 1	50.17.1086		74HC86	IC ... 74 HC 86 ., ,A
0	IC 2	50.14.2009		27C1001	EPROM 128K * 8
					SW HDLC EPROM 1.941.710.xx
0	IC 3	50.14.1010		TC551001-85	SRAM 128K * 8, 85ns
0	IC 4	50.14.1010		TC551001-85	SRAM 128K * 8, 85ns
0	IC 5	50.14.2009		27C1001	EPROM 128K * 8
					SW HDLC EPROM 1.941.710.xx
0	IC 6	50.17.1139		74HC139	IC ... 74 HC 139 ., ,A
0	IC 7	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 8	50.18.0100		PLD16V8	16 V 8 D - 25 LP
					DIP20, SW753 HDLC-GAL (1.940.915.20)
0	IC 9	50.15.0104		MC3486	IC MC 3486 P, DS 3486 N,
0	IC 10	50.17.1002		74HC02	IC ... 74 HC 02 ., ,A
0	IC 11	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 12	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 13	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
					SEE COMMENT
0	IC 14	50.17.1123		74HC123	IC ... 74 HC 123 ., ,A
0	IC 15	50.63.0100		MC68302	IC MC 68 302 FC 16 C ,A
0	IC 16	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 17	50.17.1148		74HC148	IC ... 74 HC 148 ., ,A
0	IC 18	50.16.0111		8279	IC IP 8279-5, ID 8279-5,
0	IC 19	50.17.1244		74HC244	IC ... 74 HC 244 ., ,A
0	IC 20	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 21	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 22	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 23	50.16.0111		8279	IC IP 8279-5, ID 8279-5,
0	IC 24	50.19.0204		ADS7832	
0	IC 25	50.19.0113		MAX526D	D/A Converter 12 Bit
0	IC 26	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 27	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 28	50.17.1163		74HC163	IC ... 74 HC 163 ., ,A
0	IC 29	50.17.1074		74HC74	IC ... 74 HC 74 ., ,A
0	IC 30	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 31	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 32	50.17.1139		74HC139	IC ... 74 HC 139 ., ,A
0	IC 33	50.17.1139		74HC139	IC ... 74 HC 139 ., ,A
0	IC 34	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 35	50.10.0109		LM337L	IC LM 337 LZ,
0	IC 36	50.17.1154		74HC154	4-to16 Line driver, DIP 24-300
0	IC 37	50.17.1154		74HC154	4-to16 Line driver, DIP 24-300
0	IC 38	50.17.1244		74HC244	IC ... 74 HC 244 ., ,A
0	IC 39	50.11.0157		TL7705B	IC TL 7705 BCP,
0	IC 40	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 41	50.10.0106		TL431	IC TL 431 CLP,
0	J 1	54.25.0005		5p	Buchse, 16A, vertikal, PCB
0	J 2	54.11.0130	32 pcs	2p	P STIFT,2R WNKL 2 PIN=1 STK.
0	JSJ 1	54.01.0021		Jumper	0.63 * 0.63mm
0	JSJ 2	54.01.0021		Jumper	0.63 * 0.63mm
0	JSJ 3	54.01.0021		Jumper	0.63 * 0.63mm
0	JSJ 6	54.01.0021		Jumper	0.63 * 0.63mm
0	L 1	62.03.0010		48uH	2A Toroid Chocke
0	MP 1	1.940.753.11	1 mp		CHANNEL CONTROLLER PCB /I\
0	MP 2	1.940.753.04	1 mp		NR.-ETIKETTE 5 * 20
0	MP 3	1.101.001.20	1 mp	Label	TEXT-ETIK. 5*20 HARDWARE -20
0	MP 4	43.01.0108	1 mp	Label	ESE-WARNSCHILD
0	MP 5	1.010.015.50	1 mp	Spacer	ISOLIER-SCHEIBE ZU T0 5
0	MP 6	not used	2 mp		ROHRNIETE D 2.5*0.15* 9
0	P 2	54.01.0020		1p	Pin 0.63*0.63
0	P 3	54.01.0020		1p	Pin 0.63*0.63
0	P 4	54.01.0020		1p	Pin 0.63*0.63
0	P 5	54.01.0020		1p	Pin 0.63*0.63
0	P 6	54.01.0020		1p	Pin 0.63*0.63
0	P 7	54.01.0020		1p	Pin 0.63*0.63
0	P 8	54.01.0020		1p	Pin 0.63*0.63
0	P 9	54.01.0020		1p	Pin 0.63*0.63
0	P 10	54.01.0020		1p	Pin 0.63*0.63
0	P 11	54.02.0320		1p	Flatpin, 2.8*0.8mm
0	P 12	54.01.0020		1p	Pin 0.63*0.63
0	P 13	54.01.0020		1p	Pin 0.63*0.63
0	P 14	54.01.0020		1p	Pin 0.63*0.63
0	P 15	54.01.0020		1p	Pin 0.63*0.63
0	P 16	54.01.0020		1p	Pin 0.63*0.63
0	P 17	54.01.0020		1p	Pin 0.63*0.63
0	P 18	54.01.0020		1p	Pin 0.63*0.63
0	P 19	54.01.0020		1p	Pin 0.63*0.63
0	P 20	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 21	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 22	54.14.2001		10p	1/20" Au, gerade, ohne Verrieg
0	P 23	54.16.0540		40p	P 1/40", 40 P, AU, PRINT
0	P 24	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 25	54.16.0540		40p	P 1/40", 40 P, AU, PRINT
0	P 26	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	Q 1	50.03.1554		VP0808M	VP 0808 M
0	Q 2	50.03.1505		VN0808M	VN 0808 M, ZVN 0108 A

Channel Controller Board 1.940.756.21

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	Q 3	50.43.0340			Q BC 337-25,
0	Q 4	50.03.0523		ZTX651	ZTX 651
0	Q 5	50.03.0523		ZTX651	ZTX 651
0	Q 6	50.03.0523		ZTX651	ZTX 651
0	Q 7	50.03.0523		ZTX651	ZTX 651
0	Q 8	50.03.0523		ZTX651	ZTX 651
0	Q 9	50.03.0523		ZTX651	ZTX 651
0	Q 10	50.03.0523		ZTX651	ZTX 651
0	Q 11	50.03.0523		ZTX651	ZTX 651
0	Q 12	50.03.0523		ZTX651	ZTX 651
0	Q 13	50.03.0523		ZTX651	ZTX 651
0	Q 14	50.03.0523		ZTX651	ZTX 651
0	Q 15	50.03.0523		ZTX651	ZTX 651
0	Q 16	50.03.0523		ZTX651	ZTX 651
0	Q 17	50.03.0523		ZTX651	ZTX 651
0	Q 18	50.03.0523		ZTX651	ZTX 651
0	Q 19	50.03.0523		ZTX651	ZTX 651
0	Q 20	50.03.0352		ZTX751S	ZTX 751 S
0	Q 21	50.03.0352		ZTX751S	ZTX 751 S
0	Q 22	50.03.0352		ZTX751S	ZTX 751 S
0	Q 23	50.03.0352		ZTX751S	ZTX 751 S
0	Q 24	50.03.0352		ZTX751S	ZTX 751 S
0	Q 25	50.03.0352		ZTX751S	ZTX 751 S
0	Q 26	50.03.0352		ZTX751S	ZTX 751 S
0	Q 27	50.03.0352		ZTX751S	ZTX 751 S
0	Q 28	50.03.0352		ZTX751S	ZTX 751 S
0	Q 29	50.03.0352		ZTX751S	ZTX 751 S
0	Q 30	50.03.0352		ZTX751S	ZTX 751 S
0	Q 31	50.03.0352		ZTX751S	ZTX 751 S
0	Q 32	50.03.0352		ZTX751S	ZTX 751 S
0	Q 33	50.03.0352		ZTX751S	ZTX 751 S
0	Q 34	50.03.0352		ZTX751S	ZTX 751 S
0	Q 35	50.03.0352		ZTX751S	ZTX 751 S
0	Q 36	50.03.0352		ZTX751S	ZTX 751 S
0	Q 37	50.03.0352		ZTX751S	ZTX 751 S
0	Q 38	50.03.0352		ZTX751S	ZTX 751 S
0	Q 39	50.03.0352		ZTX751S	ZTX 751 S
0	Q 40	50.03.0352		ZTX751S	ZTX 751 S
0	Q 41	50.03.0352		ZTX751S	ZTX 751 S
0	Q 42	50.03.0352		ZTX751S	ZTX 751 S
0	Q 43	50.03.0352		ZTX751S	ZTX 751 S
0	Q 44	50.03.0352		ZTX751S	ZTX 751 S
0	Q 45	50.03.0352		ZTX751S	ZTX 751 S
0	Q 46	50.03.0352		ZTX751S	ZTX 751 S
0	Q 47	50.03.0352		ZTX751S	ZTX 751 S
0	Q 48	50.03.0352		ZTX751S	ZTX 751 S
0	Q 49	50.03.0352		ZTX751S	ZTX 751 S
0	Q 50	50.03.0352		ZTX751S	ZTX 751 S
0	Q 51	50.03.0352		ZTX751S	ZTX 751 S
0	R 1	57.11.3000		0R0	MF, 0207
0	R 2	57.11.3332		3k3	MF, 1%, 0207
0	R 3	57.11.3102		1k0	MF, 1%, 0207
0	R 4	57.11.3472		4k7	MF, 1%, 0207
0	R 5	57.11.3332		3k3	MF, 1%, 0207
0	R 6	57.11.3473		47k	MF, 1%, 0207
0	R 7	57.11.3103		10k	MF, 1%, 0207
0	R 8	57.11.3473		47k	MF, 1%, 0207
0	R 9	57.92.7013		0.5A	POLY- PTC, 60V
0	R 10	57.11.3100		10R	MF, 1%, 0207
0	R 11	57.11.3101		100R	MF, 1%, 0207
0	R 12	57.11.3684		680k	MF, 1%, 0207
0	R 13	57.11.3103		10k	MF, 1%, 0207
0	R 14	57.11.3103		10k	MF, 1%, 0207
0	R 15	57.11.3220		22R	MF, 1%, 0207
0	R 16	57.11.3332		3k3	MF, 1%, 0207
0	R 17	57.92.7058		4.0A	POLY- PTC, 30V
0	R 18	57.11.3103		10k	MF, 1%, 0207
0	R 19	57.11.3473		47k	MF, 1%, 0207
0	R 20	57.92.7013		0.5A	POLY- PTC, 60V
0	R 21	57.11.3473		47k	MF, 1%, 0207
0	R 22	57.11.3100		10R	MF, 1%, 0207
0	R 23	57.11.3332		3k3	MF, 1%, 0207
0	R 24	57.11.3332		3k3	MF, 1%, 0207
0	R 25	57.11.3220		22R	MF, 1%, 0207
0	R 26	57.11.3220		22R	MF, 1%, 0207
0	R 27	57.11.3220		22R	MF, 1%, 0207
0	R 28	57.11.3220		22R	MF, 1%, 0207
0	R 29	57.11.3220		22R	MF, 1%, 0207
0	R 30	57.11.3220		22R	MF, 1%, 0207
0	R 31	57.11.3220		22R	MF, 1%, 0207
0	R 32	57.11.3220		22R	MF, 1%, 0207
0	R 33	57.11.3220		22R	MF, 1%, 0207
0	R 34	57.11.3220		22R	MF, 1%, 0207
0	R 35	57.11.3101		100R	MF, 1%, 0207
0	R 36	57.11.3101		100R	MF, 1%, 0207
0	R 37	57.11.3101		100R	MF, 1%, 0207
0	R 38	57.11.3101		100R	MF, 1%, 0207
0	R 39	57.11.3331		330R	MF, 1%, 0207
0	R 40	57.11.3331		330R	MF, 1%, 0207
0	R 41	57.11.3101		100R	MF, 1%, 0207
0	R 42	57.11.3101		100R	MF, 1%, 0207
0	R 43	57.11.3101		100R	MF, 1%, 0207
0	R 44	57.11.3101		100R	MF, 1%, 0207
0	R 45	57.11.3271		270R	MF, 1%, 0207
0	R 46	57.11.3821		820R	MF, 1%, 0207
0	R 47	57.11.3473		47k	MF, 1%, 0207
0	R 48	57.11.3220		22R	MF, 1%, 0207
0	R 49	57.11.3220		22R	MF, 1%, 0207
0	R 50	57.11.3220		22R	MF, 1%, 0207
0	R 51	57.11.3220		22R	MF, 1%, 0207
0	R 52	57.11.3220		22R	MF, 1%, 0207
0	R 53	57.11.3220		22R	MF, 1%, 0207
0	R 54	57.11.3332		3k3	MF, 1%, 0207
0	R 55	57.11.3332		3k3	MF, 1%, 0207
0	R 56	57.11.3221		220R	MF, 1%, 0207
0	R 57	57.11.3101		100R	MF, 1%, 0207
0	R 58	57.11.3101		100R	MF, 1%, 0207
0	R 59	57.11.3101		100R	MF, 1%, 0207
0	R 60	57.11.3101		100R	MF, 1%, 0207
0	R 61	57.11.3100		10R	MF, 1%, 0207
0	R 62	57.11.3332		3k3	MF, 1%, 0207
0	R 63	57.11.3271		270R	MF, 1%, 0207
0	R 64	57.11.3271		270R	MF, 1%, 0207
0	R 65	57.11.3271		270R	MF, 1%, 0207
0	R 66	57.11.3271		270R	MF, 1%, 0207
0	R 67	57.11.3101		100R	MF, 1%, 0207
0	R 68	57.11.3103		10k	MF, 1%, 0207
0	R 69	57.11.3113		11k	MF, 1%, 0207
0	R 70	57.11.3102		1k0	MF, 1%, 0207
0	R 71	57.11.3103		10k	MF, 1%, 0207
0	R 72	57.11.3000		0R0	MF, 0207
0	RZ 1	57.88.4473		8*47k	2%, SIP 9
0	RZ 2	57.88.4473		8*47k	2%, SIP 9
0	RZ 3	57.88.4473		8*47k	2%, SIP 9
0	RZ 4	57.88.4473		8*47k	2%, SIP 9
0	RZ 5	57.88.4473		8*47k	2%, SIP 9
0	RZ 6	57.88.2221		4*220R	2%, SIP 8
0	RZ 7	57.88.2221		4*220R	2%, SIP 8
0	RZ 8	57.88.2221		4*220R	2%, SIP 8
0	RZ 9	57.88.2221		4*220R	2%, SIP 8
0	RZ 10	57.88.4473		8*47k	2%, SIP 9
0	RZ 11	57.88.2221		4*220R	2%, SIP 8
0	RZ 12	57.88.2221		4*220R	2%, SIP 8
0	RZ 13	57.88.2221		4*220R	2%, SIP 8
0	RZ 14	57.88.2221		4*220R	2%, SIP 8
0	RZ 15	57.88.2221		4*220R	2%, SIP 8
0	RZ 16	57.88.2221		4*220R	2%, SIP 8
0	RZ 17	57.88.2221		4*220R	2%, SIP 8
0	RZ 18	57.88.2221		4*220R	2%, SIP 8
0	S 1	55.03.0122		1*a	S 1 TASTE, 1*A, PRINT,IMPULS
0	S 2	55.01.0168		8*a	SZ , 8*A, DIL
0	XIC 2	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 3	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 4	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 5	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 8	53.03.0165		20p	DIL 0.3", löt, gerade
0	XIC 9	53.03.0168		16p	DIL 0.3", löt, gerade
0	XIC 18	53.03.0218		1p	single-in-line
0	XIC 23	53.03.0218		1p	single-in-line
0	XIC 24	53.03.0173		28p	DIL 0.6", löt, gerade
0	XIC 25	53.03.0182		24p	DIL 0.3", löt, gerade
0	Y 1	89.01.1009		16.000MHz	16.000 000 MHz, HC 49/U

End of List

Comments

IC13:
BEFORE INSERT, CUT PIN 2 .
CONNECT PIN 1 AND PIN 2 ON SOLDERING SIDE.

Channel Controller Board 1.940.764.21

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.22.5221		220u	EL 25V, 20%, RM5
0	C 2	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 3	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 4	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 5	59.06.5222		2n2	PETP, 63V, 5%, RM5
0	C 6	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 7	59.22.5221		220u	EL 25V, 20%, RM5
0	C 8	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 9	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 10	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 11	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 12	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 13	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 14	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 15	59.22.6470		47u	EL 40V, 20%, RM5
0	C 16	59.06.5473		47n	PETP, 63V, 5%, RM5
0	C 17	59.06.5223		22n	PETP, 63V, 5%, RM5
0	C 18	59.34.2270		27p	CER 63V, 5%, N150
0	C 19	59.34.2270		27p	CER 63V, 5%, N150
0	C 20	59.22.6470		47u	EL 40V, 20%, RM5
0	C 21	59.22.3471		470u	EL 10V, 20%, RM5
0	C 22	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 23	59.06.5222		2n2	PETP, 63V, 5%, RM5
0	C 24	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 25	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 26	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 27	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 28	59.22.3471		470u	EL 10V, 20%, RM5
0	C 29	59.22.3471		470u	EL 10V, 20%, RM5
0	C 30	59.22.6100		10u	EL 35V, 20%, RM6
0	C 31	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 32	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 33	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 34	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 35	59.22.6100		10u	EL 35V, 20%, RM5
0	C 36	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 37	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 38	59.06.5104		100n	PETP, 63V, 5%, RM5
0	C 39	59.22.6470		47u	EL 40V, 20%, RM5
0	C 40	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 41	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 42	59.06.5105		1u0	PETP, 50V, 5%, RM5
0	C 43	59.22.8109		1u	EL 50V, 20%, RM5
0	C 44	59.22.8109		1u	EL 50V, 20%, RM5
0	C 45	59.06.5104		100n	PETP, 63V, 5%, RM5
0	C 46	59.34.4101		100p	CER 63V, 5%, N750
0	C 47	59.06.0104		100n	PETP, 63V, 10%, RM5
0	D 2	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 3	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 4	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 5	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 6	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 10	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 12	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 13	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 14	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 15	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 16	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 17	50.04.0127		BAT85	200mA, Schottky
0	D 18	50.04.0127		BAT85	200mA, Schottky
0	D 19	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 20	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 21	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 22	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 23	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 24	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 25	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 26	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 27	50.04.0127		BAT85	200mA, Schottky
0	DL 1	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 2	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 3	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 4	50.04.2129		LS3360	DL LS 3360 , RT DIFF
0	DL 5	50.04.2131		LG3360	DL LG 3360 , GN DIFF
0	DL 6	50.04.2130		LY3360	DL LY 3360 , GB DIFF
0	DV 1	50.04.1511		6V2	Zener, 5%, 1.3W, DO-41
0	IC 1	50.17.1086		74HC86	IC ... 74 HC 86 ., ,A
0	IC 2	50.14.2009		27C1001	EPROM 128K * 8
					SW HDLC EPROM 1.941.760.xx
0	IC 3	50.14.1010		TC551001-85	SRAM 128K * 8, 85ns
0	IC 4	50.14.1010		TC551001-85	SRAM 128K * 8, 85ns
0	IC 5	50.14.2009		27C1001	EPROM 128K * 8
					SW HDLC EPROM 1.941.760.xx
0	IC 6	50.17.1139		74HC139	IC ... 74 HC 139 ., ,A
0	IC 7	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 8	50.18.0100		PLD16V8	16 V 8 D - 25 LP
					DIP20, SW753 HDLC-GAL (1.940.915.20)
0	IC 9	50.15.0104		MC3486	IC MC 3486 P, DS 3486 N,
0	IC 10	50.17.1002		74HC02	IC ... 74 HC 02 ., ,A
0	IC 11	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 12	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 13	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
					SEE COMMENT
0	IC 14	50.17.1123		74HC123	IC ... 74 HC 123 ., ,A
0	IC 15	50.63.0100		MC68302	IC MC 68 302 FC 16 C ,A
0	IC 16	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 17	50.17.1148		74HC148	IC ... 74 HC 148 ., ,A
0	IC 18	50.16.0111		8279	IC IP 8279-5, ID 8279-5,
0	IC 19	50.17.1244		74HC244	IC ... 74 HC 244 ., ,A
0	IC 20	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 21	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 22	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 23	50.16.0111		8279	IC IP 8279-5, ID 8279-5,
0	IC 24	50.19.0204		ADS7832	
0	IC 25	50.19.0113		MAX526D	D/A Converter 12 Bit
0	IC 26	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 27	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 28	50.17.1163		74HC163	IC ... 74 HC 163 ., ,A
0	IC 29	50.17.1074		74HC74	IC ... 74 HC 74 ., ,A
0	IC 30	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 31	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 32	50.17.1139		74HC139	IC ... 74 HC 139 ., ,A
0	IC 33	50.17.1139		74HC139	IC ... 74 HC 139 ., ,A
0	IC 34	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 35	50.10.0109		LM337L	IC LM 337 LZ,
0	IC 36	50.17.1154		74HC154	4-to16 Line driver, DIP 24-300
0	IC 37	50.17.1154		74HC154	4-to16 Line driver, DIP 24-300
0	IC 38	50.17.1244		74HC244	IC ... 74 HC 244 ., ,A
0	IC 39	50.11.0157		TL7705B	IC TI. 7705 BCP,
0	IC 40	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 41	50.10.0106		TL431	IC TL 431 CLP,
0	J 1	54.25.0005		5p	Buchse, 16A, vertikal, PCB
0	J 2	54.11.2010		64p	EU-Q 2*32p
0	JSJ 1	54.01.0021		Jumper	0.63 * 0.63mm
0	JSJ 2	54.01.0021		Jumper	0.63 * 0.63mm
0	JSJ 3	54.01.0021		Jumper	0.63 * 0.63mm
0	JSJ 6	54.01.0021		Jumper	0.63 * 0.63mm
0	L 1	62.03.0010		48uH	2A Toroid Chocke
0	MP 1	1.940.753.11	1 mp		CHANNEL CONTROLLER PCB /I\
0	MP 2	1.940.753.04	1 mp		NR.-ETIKETTE 5 * 20
0	MP 3	1.101.001.20	1 mp	Label	TEXT-ETIK. 5*20 HARDWARE -20
0	MP 4	43.01.0108	1 mp	Label	ESE-WARNSCHILD
0	MP 5	1.010.015.50	1 mp	Spacer	ISOLIER-SCHEIBE ZU T0 5
0	MP 6	28.99.0119	2 mp		ROHRNIETE D 2.5*0.15* 9
0	P 2	54.01.0020		1p	Pin 0.63*0.63
0	P 3	54.01.0020		1p	Pin 0.63*0.63
0	P 4	54.01.0020		1p	Pin 0.63*0.63
0	P 5	54.01.0020		1p	Pin 0.63*0.63
0	P 6	54.01.0020		1p	Pin 0.63*0.63
0	P 7	54.01.0020		1p	Pin 0.63*0.63
0	P 8	54.01.0020		1p	Pin 0.63*0.63
0	P 9	54.01.0020		1p	Pin 0.63*0.63
0	P 10	54.01.0020		1p	Pin 0.63*0.63
0	P 11	54.02.0320		1p	Flatpin, 2.8*0.8mm
0	P 12	54.01.0020		1p	Pin 0.63*0.63
0	P 13	54.01.0020		1p	Pin 0.63*0.63
0	P 14	54.01.0020		1p	Pin 0.63*0.63
0	P 15	54.01.0020		1p	Pin 0.63*0.63
0	P 16	54.01.0020		1p	Pin 0.63*0.63
0	P 17	54.01.0020		1p	Pin 0.63*0.63
0	P 18	54.01.0020		1p	Pin 0.63*0.63
0	P 19	54.01.0020		1p	Pin 0.63*0.63
0	P 20	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 21	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 22	54.14.2001		10p	1/20" Au, gerade, ohne Verrieg
0	P 23	54.16.0540		40p	P 1/40", 40 P, AU, PRINT
0	P 24	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 25	54.16.0540		40p	P 1/40", 40 P, AU, PRINT
0	P 26	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	Q 1	50.03.1554		VP0808M	VP 0808 M
0	Q 2	50.03.1505		VN0808M	VN 0808 M, ZVN 0108 A

Channel Controller Board 1.940.764.21

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	Q 3	50.43.0340			Q BC 337-25,
0	Q 4	50.03.0523		ZTX651	ZTX 651
0	Q 5	50.03.0523		ZTX651	ZTX 651
0	Q 6	50.03.0523		ZTX651	ZTX 651
0	Q 7	50.03.0523		ZTX651	ZTX 651
0	Q 8	50.03.0523		ZTX651	ZTX 651
0	Q 9	50.03.0523		ZTX651	ZTX 651
0	Q 10	50.03.0523		ZTX651	ZTX 651
0	Q 11	50.03.0523		ZTX651	ZTX 651
0	Q 12	50.03.0523		ZTX651	ZTX 651
0	Q 13	50.03.0523		ZTX651	ZTX 651
0	Q 14	50.03.0523		ZTX651	ZTX 651
0	Q 15	50.03.0523		ZTX651	ZTX 651
0	Q 16	50.03.0523		ZTX651	ZTX 651
0	Q 17	50.03.0523		ZTX651	ZTX 651
0	Q 18	50.03.0523		ZTX651	ZTX 651
0	Q 19	50.03.0523		ZTX651	ZTX 651
0	Q 20	50.03.0352		ZTX751S	ZTX 751 S
0	Q 21	50.03.0352		ZTX751S	ZTX 751 S
0	Q 22	50.03.0352		ZTX751S	ZTX 751 S
0	Q 23	50.03.0352		ZTX751S	ZTX 751 S
0	Q 24	50.03.0352		ZTX751S	ZTX 751 S
0	Q 25	50.03.0352		ZTX751S	ZTX 751 S
0	Q 26	50.03.0352		ZTX751S	ZTX 751 S
0	Q 27	50.03.0352		ZTX751S	ZTX 751 S
0	Q 28	50.03.0352		ZTX751S	ZTX 751 S
0	Q 29	50.03.0352		ZTX751S	ZTX 751 S
0	Q 30	50.03.0352		ZTX751S	ZTX 751 S
0	Q 31	50.03.0352		ZTX751S	ZTX 751 S
0	Q 32	50.03.0352		ZTX751S	ZTX 751 S
0	Q 33	50.03.0352		ZTX751S	ZTX 751 S
0	Q 34	50.03.0352		ZTX751S	ZTX 751 S
0	Q 35	50.03.0352		ZTX751S	ZTX 751 S
0	Q 36	50.03.0352		ZTX751S	ZTX 751 S
0	Q 37	50.03.0352		ZTX751S	ZTX 751 S
0	Q 38	50.03.0352		ZTX751S	ZTX 751 S
0	Q 39	50.03.0352		ZTX751S	ZTX 751 S
0	Q 40	50.03.0352		ZTX751S	ZTX 751 S
0	Q 41	50.03.0352		ZTX751S	ZTX 751 S
0	Q 42	50.03.0352		ZTX751S	ZTX 751 S
0	Q 43	50.03.0352		ZTX751S	ZTX 751 S
0	Q 44	50.03.0352		ZTX751S	ZTX 751 S
0	Q 45	50.03.0352		ZTX751S	ZTX 751 S
0	Q 46	50.03.0352		ZTX751S	ZTX 751 S
0	Q 47	50.03.0352		ZTX751S	ZTX 751 S
0	Q 48	50.03.0352		ZTX751S	ZTX 751 S
0	Q 49	50.03.0352		ZTX751S	ZTX 751 S
0	Q 50	50.03.0352		ZTX751S	ZTX 751 S
0	Q 51	50.03.0352		ZTX751S	ZTX 751 S
0	R 1	57.11.3000		0R0	MF, 0207
0	R 2	57.11.3332		3k3	MF, 1%, 0207
0	R 3	57.11.3102		1k0	MF, 1%, 0207
0	R 4	57.11.3472		4k7	MF, 1%, 0207
0	R 5	57.11.3332		3k3	MF, 1%, 0207
0	R 6	57.11.3473		47k	MF, 1%, 0207
0	R 7	57.11.3103		10k	MF, 1%, 0207
0	R 8	57.11.3473		47k	MF, 1%, 0207
0	R 9	57.92.7013		0.5A	POLY- PTC, 60V
0	R 10	57.11.3100		10R	MF, 1%, 0207
0	R 11	57.11.3101		100R	MF, 1%, 0207
0	R 12	57.11.3684		680k	MF, 1%, 0207
0	R 13	57.11.3103		10k	MF, 1%, 0207
0	R 14	57.11.3103		10k	MF, 1%, 0207
0	R 15	57.11.3220		22R	MF, 1%, 0207
0	R 16	57.11.3332		3k3	MF, 1%, 0207
0	R 17	57.92.7058		4.0A	POLY- PTC, 30V
0	R 18	57.11.3103		10k	MF, 1%, 0207
0	R 19	57.11.3473		47k	MF, 1%, 0207
0	R 20	57.92.7013		0.5A	POLY- PTC, 60V
0	R 21	57.11.3473		47k	MF, 1%, 0207
0	R 22	57.11.3100		10R	MF, 1%, 0207
0	R 23	57.11.3332		3k3	MF, 1%, 0207
0	R 24	57.11.3332		3k3	MF, 1%, 0207
0	R 25	57.11.3220		22R	MF, 1%, 0207
0	R 26	57.11.3220		22R	MF, 1%, 0207
0	R 27	57.11.3220		22R	MF, 1%, 0207
0	R 28	57.11.3220		22R	MF, 1%, 0207
0	R 29	57.11.3220		22R	MF, 1%, 0207
0	R 30	57.11.3220		22R	MF, 1%, 0207
0	R 31	57.11.3220		22R	MF, 1%, 0207
0	R 32	57.11.3220		22R	MF, 1%, 0207
0	R 33	57.11.3220		22R	MF, 1%, 0207
0	R 34	57.11.3220		22R	MF, 1%, 0207
0	R 35	57.11.3101		100R	MF, 1%, 0207
0	R 36	57.11.3101		100R	MF, 1%, 0207
0	R 37	57.11.3101		100R	MF, 1%, 0207
0	R 38	57.11.3101		100R	MF, 1%, 0207
0	R 39	57.11.3331		330R	MF, 1%, 0207
0	R 40	57.11.3331		330R	MF, 1%, 0207
0	R 41	57.11.3101		100R	MF, 1%, 0207
0	R 42	57.11.3101		100R	MF, 1%, 0207
0	R 43	57.11.3101		100R	MF, 1%, 0207
0	R 44	57.11.3101		100R	MF, 1%, 0207
0	R 45	57.11.3271		270R	MF, 1%, 0207
0	R 46	57.11.3821		820R	MF, 1%, 0207
0	R 47	57.11.3473		47k	MF, 1%, 0207
0	R 48	57.11.3220		22R	MF, 1%, 0207
0	R 49	57.11.3220		22R	MF, 1%, 0207
0	R 50	57.11.3220		22R	MF, 1%, 0207
0	R 51	57.11.3220		22R	MF, 1%, 0207
0	R 52	57.11.3220		22R	MF, 1%, 0207
0	R 53	57.11.3220		22R	MF, 1%, 0207
0	R 54	57.11.3332		3k3	MF, 1%, 0207
0	R 55	57.11.3332		3k3	MF, 1%, 0207
0	R 56	57.11.3221		220R	MF, 1%, 0207
0	R 57	57.11.3101		100R	MF, 1%, 0207
0	R 58	57.11.3101		100R	MF, 1%, 0207
0	R 59	57.11.3101		100R	MF, 1%, 0207
0	R 60	57.11.3101		100R	MF, 1%, 0207
0	R 61	57.11.3100		10R	MF, 1%, 0207
0	R 62	57.11.3332		3k3	MF, 1%, 0207
0	R 63	57.11.3271		270R	MF, 1%, 0207
0	R 64	57.11.3271		270R	MF, 1%, 0207
0	R 65	57.11.3271		270R	MF, 1%, 0207
0	R 66	57.11.3271		270R	MF, 1%, 0207
0	R 67	57.11.3101		100R	MF, 1%, 0207
0	R 68	57.11.3103		10k	MF, 1%, 0207
0	R 69	57.11.3113		11k	MF, 1%, 0207
0	R 70	57.11.3102		1k0	MF, 1%, 0207
0	R 71	57.11.3103		10k	MF, 1%, 0207
0	R 72	57.11.3000		0R0	MF, 0207
0	RZ 1	57.88.4473		8*47k	2%, SIP 9
0	RZ 2	57.88.4473		8*47k	2%, SIP 9
0	RZ 3	57.88.4473		8*47k	2%, SIP 9
0	RZ 4	57.88.4473		8*47k	2%, SIP 9
0	RZ 5	57.88.4473		8*47k	2%, SIP 9
0	RZ 6	57.88.2221		4*220R	2%, SIP 8
0	RZ 7	57.88.2221		4*220R	2%, SIP 8
0	RZ 8	57.88.2221		4*220R	2%, SIP 8
0	RZ 9	57.88.2221		4*220R	2%, SIP 8
0	RZ 10	57.88.4473		8*47k	2%, SIP 9
0	RZ 11	57.88.2221		4*220R	2%, SIP 8
0	RZ 12	57.88.2221		4*220R	2%, SIP 8
0	RZ 13	57.88.2221		4*220R	2%, SIP 8
0	RZ 14	57.88.2221		4*220R	2%, SIP 8
0	RZ 15	57.88.2221		4*220R	2%, SIP 8
0	RZ 16	57.88.2221		4*220R	2%, SIP 8
0	RZ 17	57.88.2221		4*220R	2%, SIP 8
0	RZ 18	57.88.2221		4*220R	2%, SIP 8
0	S 1	55.03.0122		1*a	S 1 TASTE, 1*A, PRINT,IMPULS
0	S 2	55.01.0168		8*a	SZ , 8*A, DIL
0	XIC 2	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 3	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 4	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 5	53.03.0184		32p	DIL 0.6", löt, gerade
0	XIC 8	53.03.0165		20p	DIL 0.3", löt, gerade
0	XIC 9	53.03.0168		16p	DIL 0.3", löt, gerade
0	XIC 18	53.03.0218		1p	single-in-line
0	XIC 23	53.03.0218		1p	single-in-line
0	XIC 24	53.03.0173		28p	DIL 0.6", löt, gerade
0	XIC 25	53.03.0182		24p	DIL 0.3", löt, gerade
0	Y 1	89.01.1009		16.000MHz	16.000 000 MHz, HC 49/U

End of List

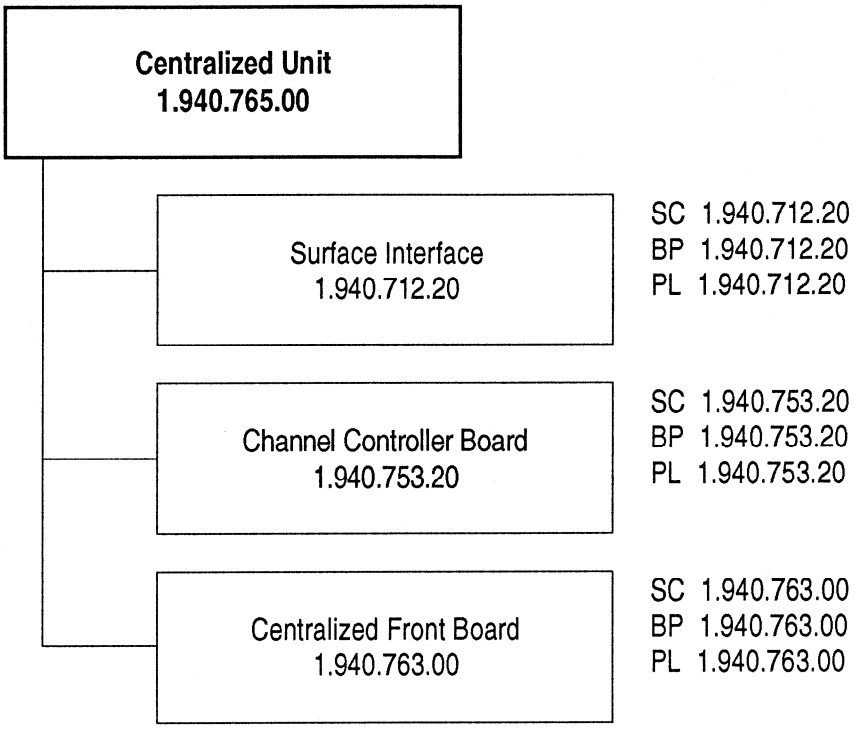
Comments

IC13:
BEFORE INSERT, CUT PIN 2.
CONNECT PIN 1 AND PIN 2 ON SOLDERING SIDE.

SCHEMATA / CIRCUIT DIAGRAMS

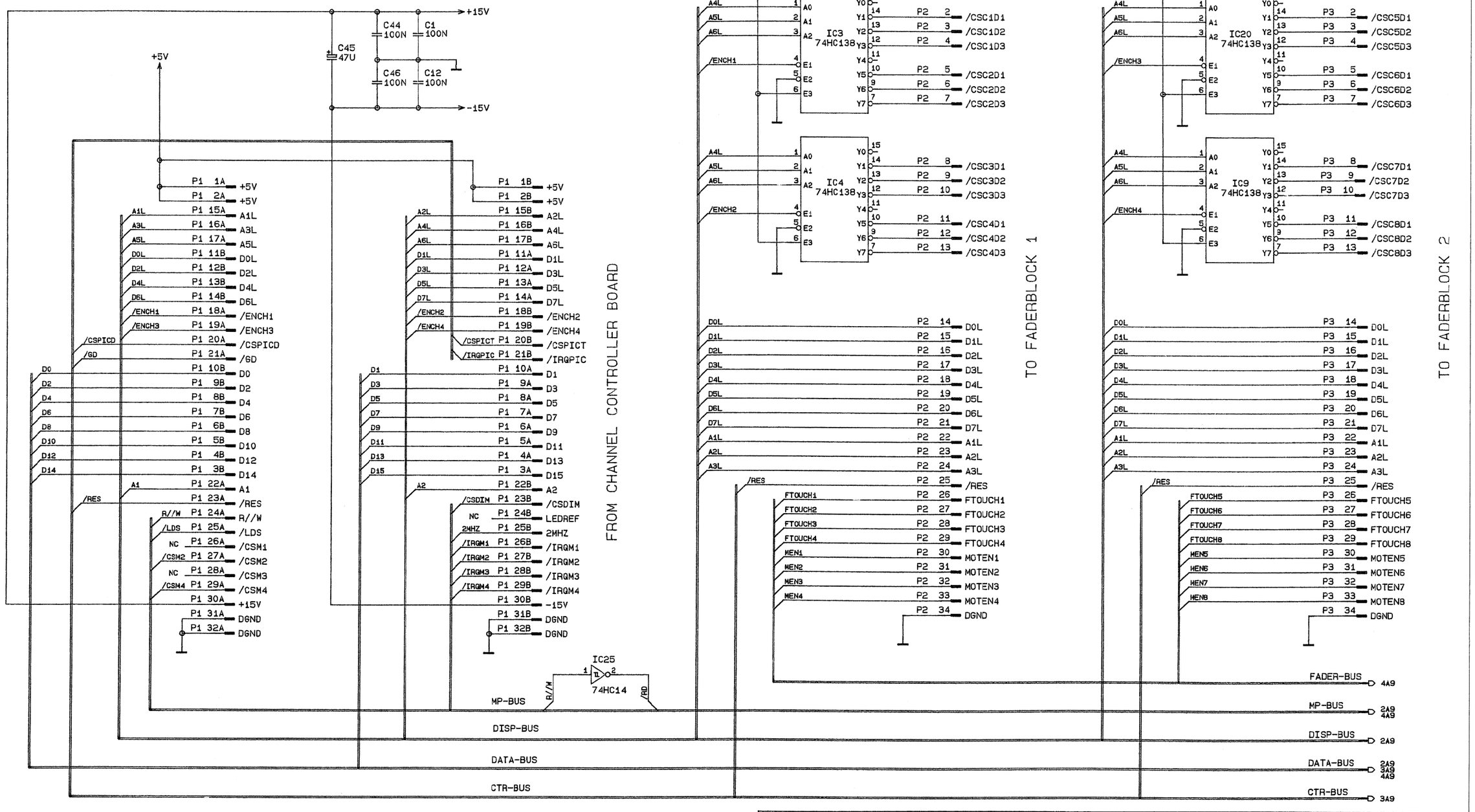
Centralized Unit

Centralized Unit 1.940.765.00

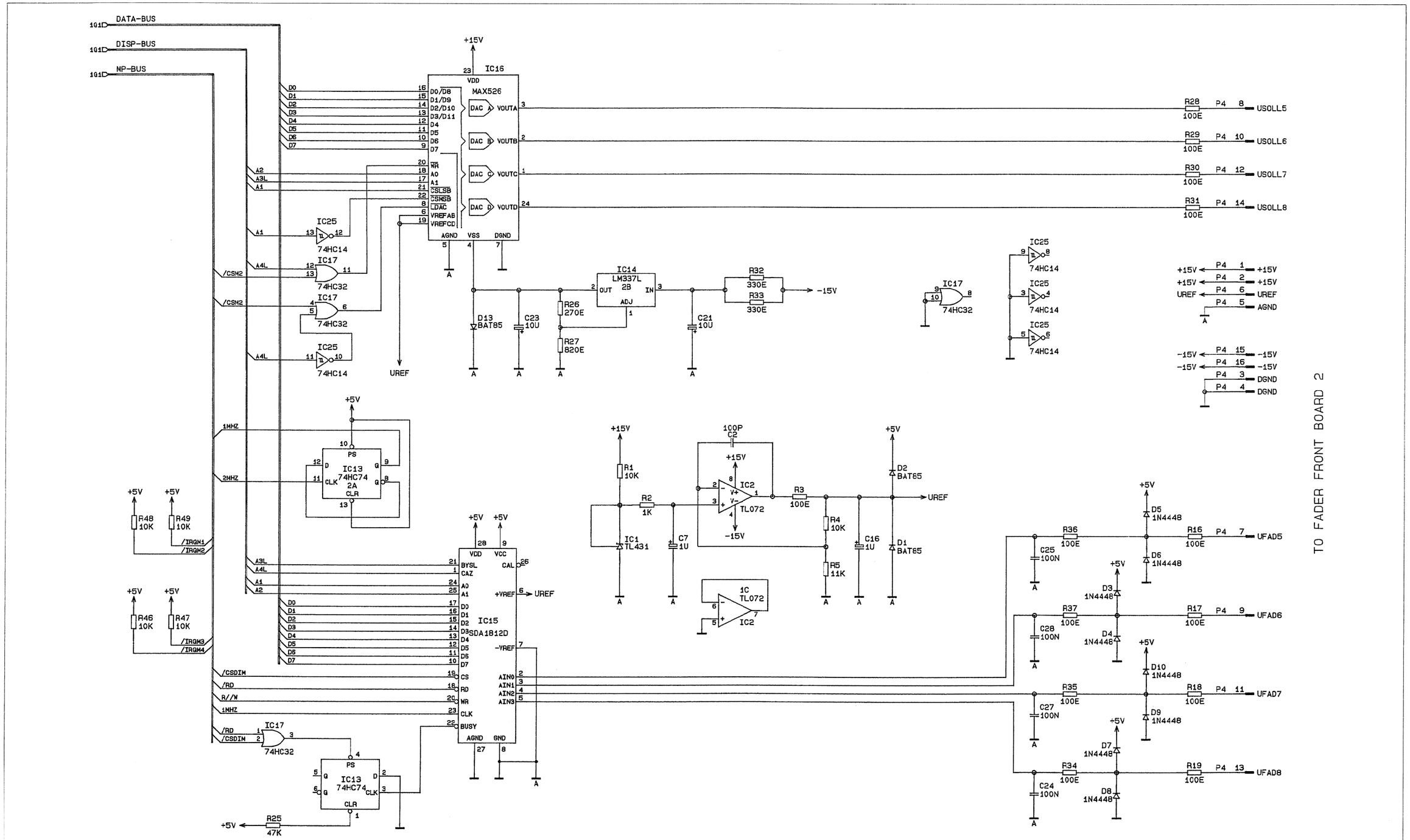


SC: Schema Circuit Diagram
BP: Bestückungsplan PCB Layout
PL: Positionsliste Positional List

Surface Interface 1.940.712.21

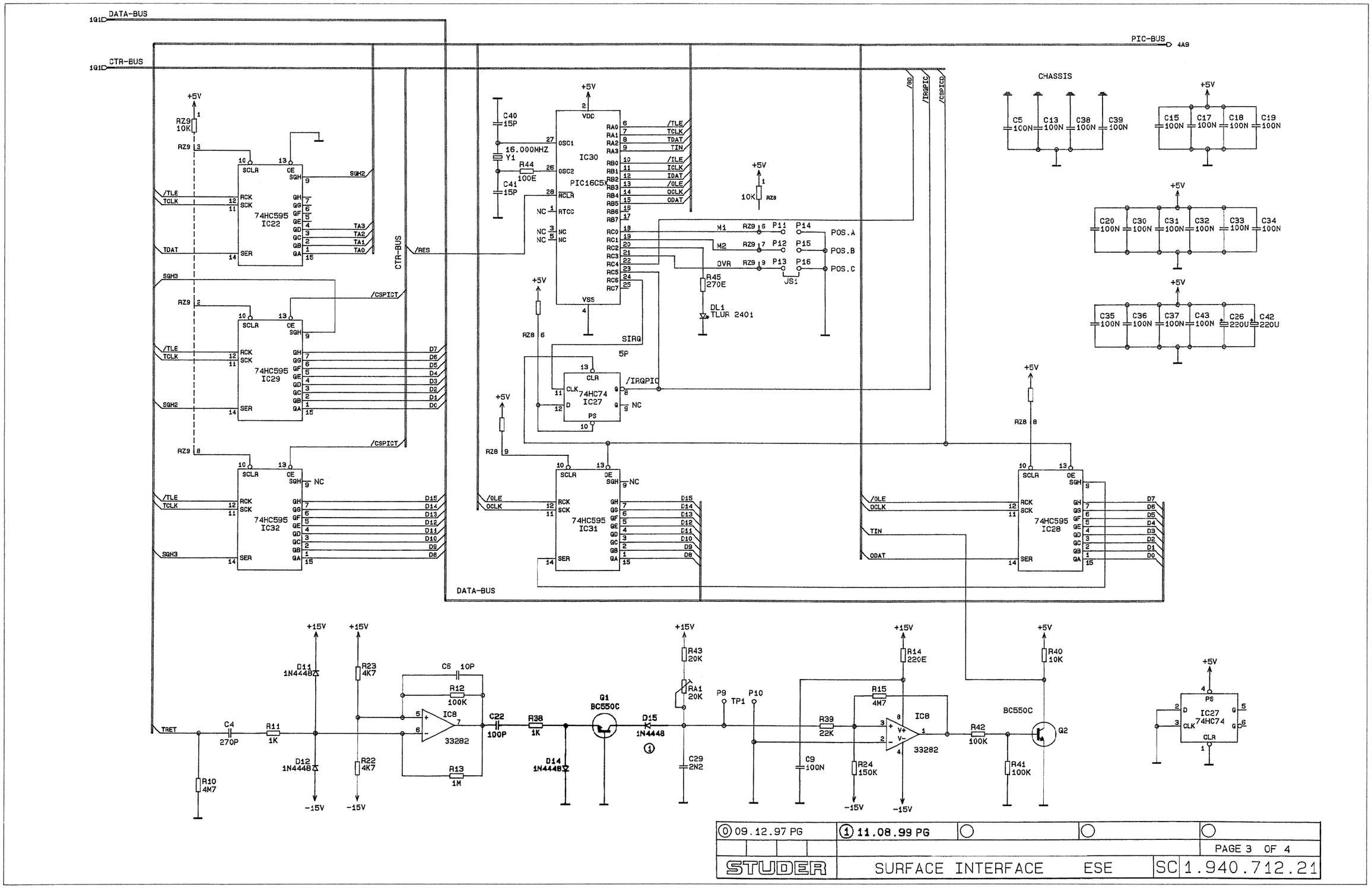


Surface Interface 1.940.712.21



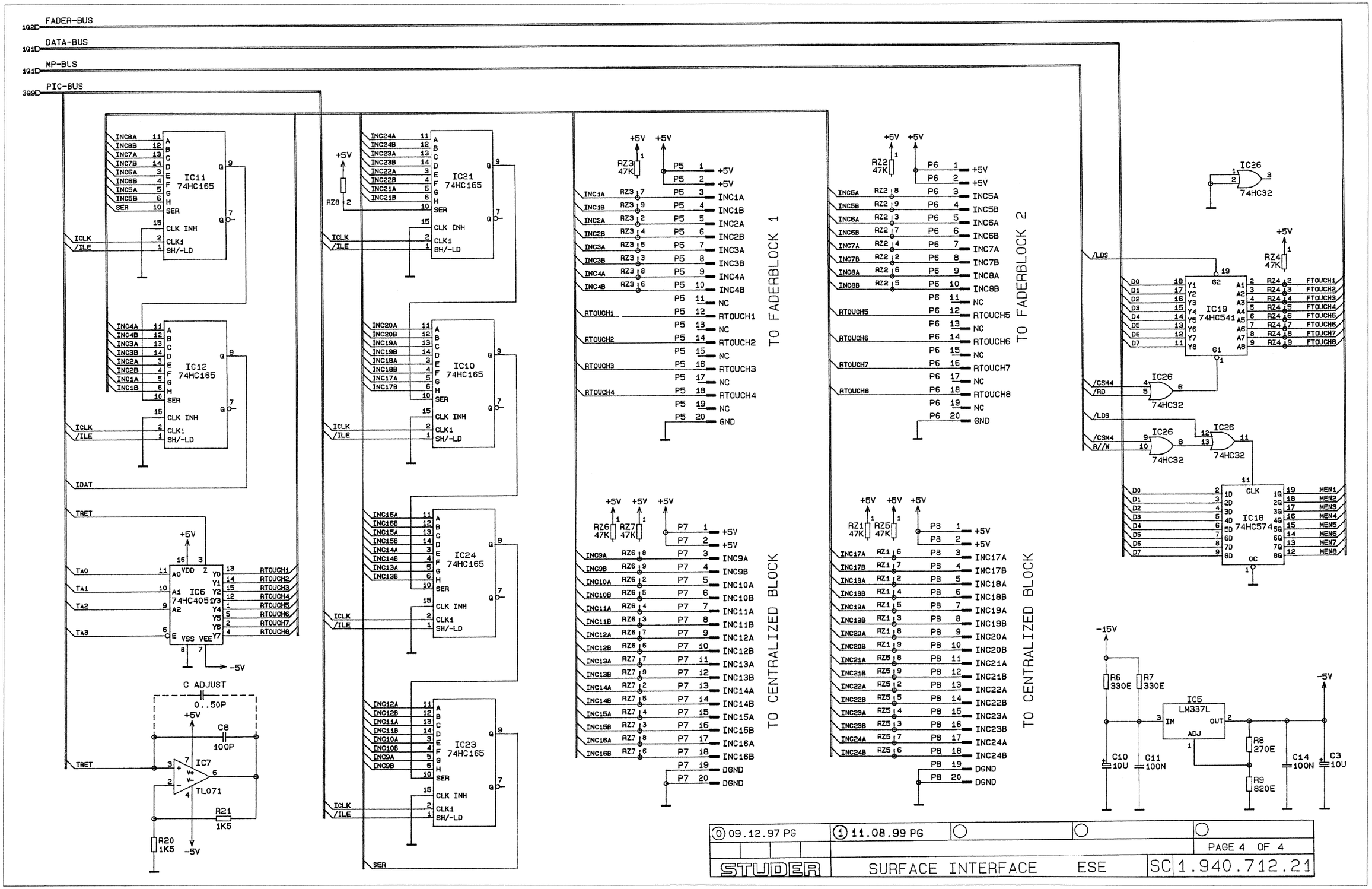
⓪ 09.12.97 PG	① 11.08.99 PG			
				PAGE 2 OF 4
STUDER	SURFACE INTERFACE ESE		SC	1.940.712.21

Surface Interface 1.940.712.21

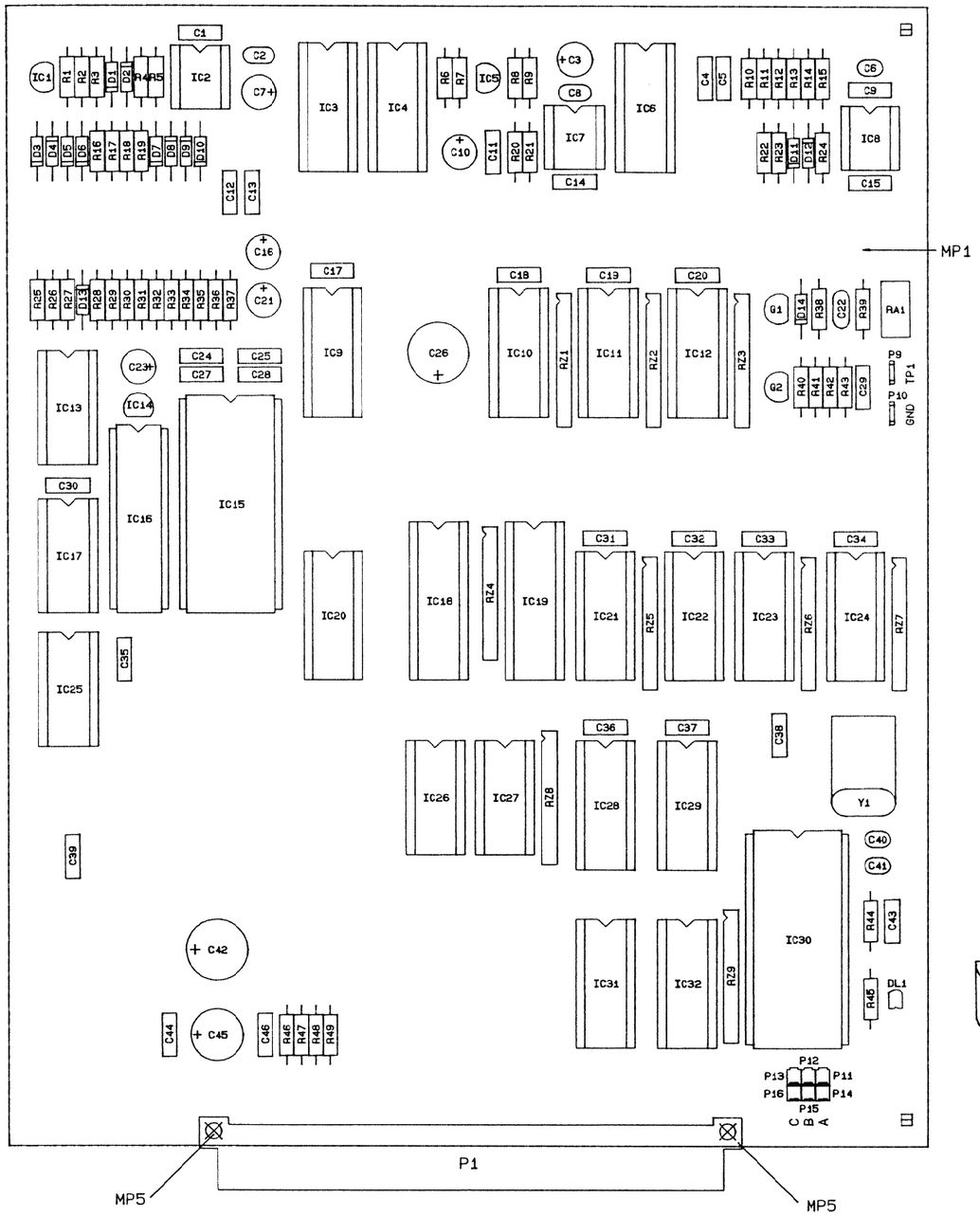


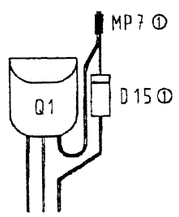
0 09.12.97 PG	1 11.08.99 PG			PAGE 3 OF 4
STUDER	SURFACE INTERFACE ESE		SC	1.940.712.21

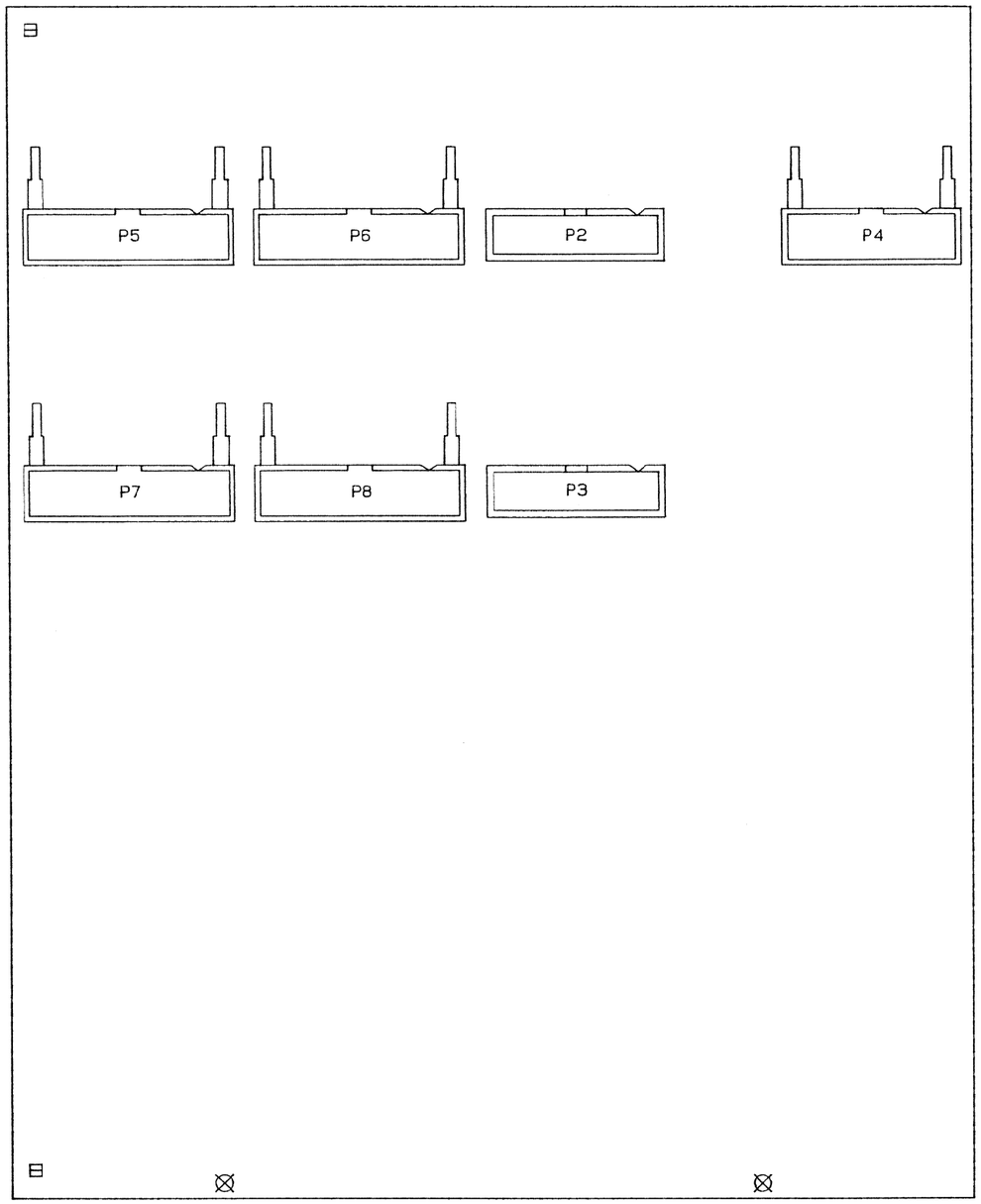
Surface Interface 1.940.712.21



Surface Interface 1.940.712.21







IND	DATUN	GEZ.	GEPR.	GES
①	11.08.99	PG		
⓪	09.12.97	PG		

BLATT 1 VON 1

STUDER SURFACE INTERFACE ESE

BP 1.940.712.21

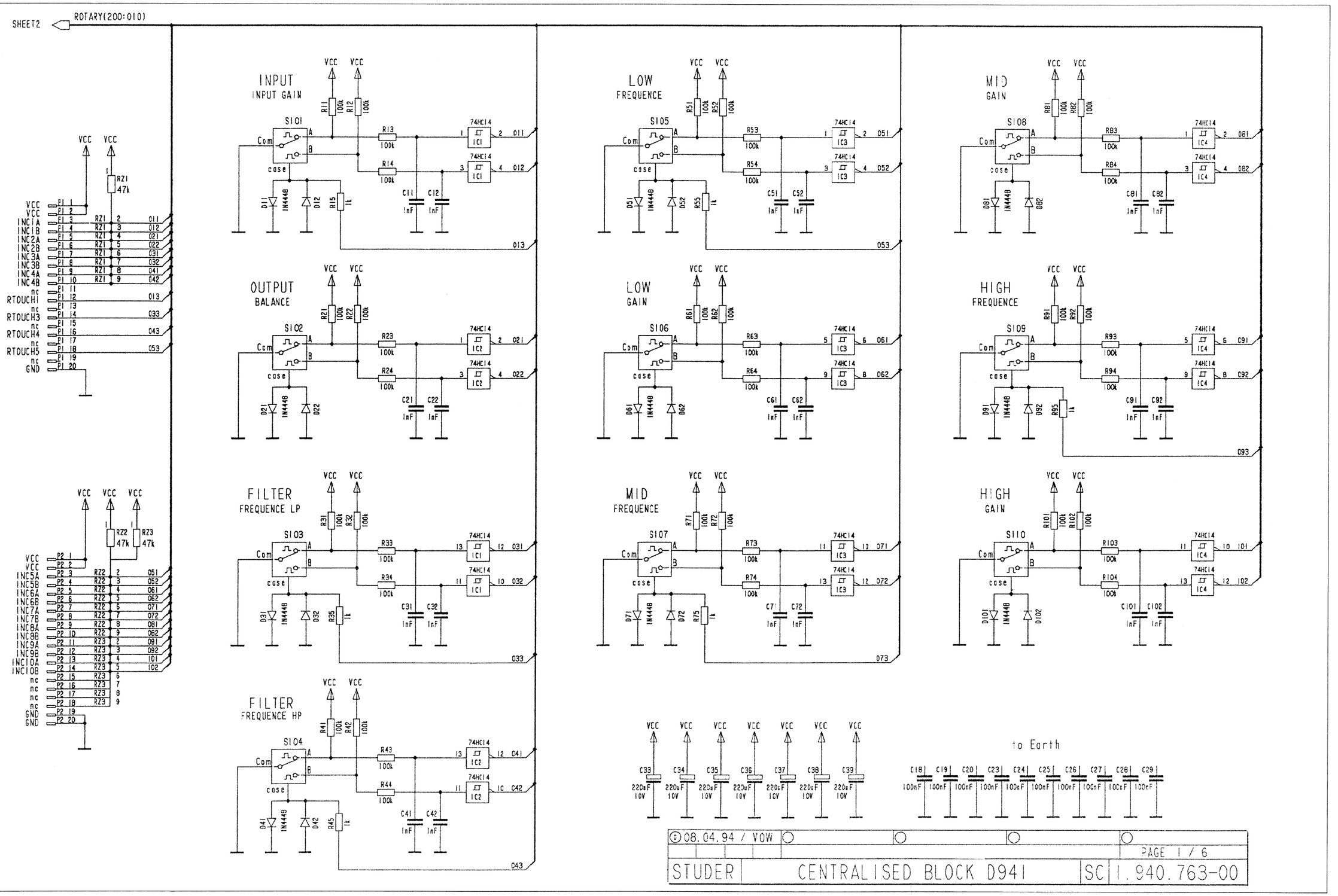
Surface Interface 1.940.712.21

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 2	59.34.4101		100p	CER 63V, 5%, N750
0	C 3	59.22.6100		10u	EL 35V, 20%, RM5
0	C 4	59.34.4271		270p	CER 63V, 5%, N750
0	C 5	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 6	59.34.1100		10p	CER 63V, 5%, NP 0
0	C 7	59.22.8109		1u	EL 50V, 20%, RM5
0	C 8	59.34.4101		100p	CER 63V, 5%, N750
					+ cap. 0..50pf parallel to C8 for adjustment
0	C 9	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 10	59.22.6100		10u	EL 35V, 20%, RM5
0	C 11	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 12	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 13	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 14	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 15	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 16	59.22.8109		1u	EL 50V, 20%, RM5
0	C 17	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 18	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 19	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 20	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 21	59.22.6100		10u	EL 35V, 20%, RM5
0	C 22	59.34.2101		100p	CER 63V, 5%, N150
0	C 23	59.22.6100		10u	EL 35V, 20%, RM5
0	C 24	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 25	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 26	59.22.4221		220u	EL 16V, 20%, RM5
0	C 27	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 28	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 29	59.06.0222		2n2	PETP, 63V, 10%, RM5
0	C 30	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 31	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 32	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 33	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 34	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 35	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 36	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 37	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 38	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 39	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 40	59.34.1150		15p	CER 63V, 5%, NP 0
0	C 41	59.34.1150		15p	CER 63V, 5%, NP 0
0	C 42	59.22.4221		220u	EL 16V, 20%, RM5
0	C 43	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 44	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 45	59.22.8470		47u	EL 63V, 20%, RM5
0	C 46	59.06.0104		100n	PETP, 63V, 10%, RM5
0	D 1	50.04.0127		BAT85	200mA, Schottky
0	D 2	50.04.0127		BAT85	200mA, Schottky
0	D 3	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 4	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 5	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 6	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 10	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 12	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 13	50.04.0127		BAT85	200mA, Schottky
0	D 14	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
1	D 15	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	DL 1	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	IC 1	50.10.0106		TL431	Shunt regulator
0	IC 2	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 3	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 4	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 5	50.10.0109		LM337L	Series regulator 100mA ...-37V
0	IC 6	50.17.4051			IC ... 74 HC 4051 ., ,A
0	IC 7	50.09.0103		TL071	IC TL 071 CP, ,A
0	IC 8	50.09.0127		MC33282	Dual Op-Amp BiFET DIP 8
0	IC 9	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 10	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 11	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 12	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 13	50.17.1074		74HC 74	IC ... 74 HC 74 ., ,A
0	IC 14	50.10.0109		LM337L	Series regulator 100mA ...-37V
0	IC 15	50.19.0204		ADS7832	A/D Converter 12bit 4ch mux
0	IC 16	not used		not used	not used
0	IC 17	50.17.1032		74HC 32	IC ... 74 HC 32 ., ,A
0	IC 18	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 19	50.17.1541		74HC541	Octal bus buffer
0	IC 20	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 21	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 22	50.17.1595		74HC595	IC ... 74 HC 595 ., ,A
0	IC 23	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 24	50.17.1165		74HC165	IC ... 74 HC 165 ., ,A
0	IC 25	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 26	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 27	50.17.1074		74HC74	IC ... 74 HC 74 ., ,A
0	IC 28	50.17.1595		74HC595	IC ... 74 HC 595 ., ,A
0	IC 29	50.17.1595		74HC595	IC ... 74 HC 595 ., ,A
0	IC 30	50.16.0301			IC PIC 16 C 57-HS/P ,A
0	IC 31	50.17.1595		74HC595	IC ... 74 HC 595 ., ,A
0	IC 32	50.17.1595		74HC595	IC ... 74 HC 595 ., ,A
0	JS 1	54.01.0021		Jumper	0.63 * 0.63mm
0	MP 1	1.940.712.11	1 pce		SURFACE INTERFACE PCB /!\
0	MP 2	1.940.712.04	1 pce		NR.-ETIKETTE 5 * 20
0	MP 3	43.01.0108	1 pce	Label	ESE-WARNSCHILD
0	MP 4	1.101.001.20	1 pce	Label	TEXT-ETIK. 5*20 HARDWARE -20
0	MP 5	28.95.0119	2 pce		ROHRNIETE D 2.5*0.15* 9
0	MP 6	65.95.0167	10 mm	Tape	POLYURH. KLEBBAND WS, 9* 3
1	MP 7	29.95.0134		1.8*5	Lötspirale Cu Sn
1	MP 8	43.10.0110		A	Revisions-Etikette 5mm h'blau
0	P 1	54.11.2004		64-P	P EU-B 2 * 32
0	P 2	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 3	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 4	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 5	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 6	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 7	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 8	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 9	54.02.0320		1p	Flatpin, 2.8*0.6mm
0	P 10	54.02.0320		1p	Flatpin, 2.8*0.6mm
0	P 11	54.11.0136		2*3p	Pin 0.63*0.63, RM2.54
0	P 12	not used		1p	Pin 0.63*0.63
					see P11
0	P 13	not used		1p	Pin 0.63*0.63
					see P11
0	P 14	not used		1p	Pin 0.63*0.63
					see P11
0	P 15	not used		1p	Pin 0.63*0.63
					see P11
0	P 16	not used		1p	Pin 0.63*0.63
					see P11
0	Q 1	50.03.0407		BC550C	BC 550 C
0	Q 2	50.03.0407		BC550C	BC 550 C
0	R 1	57.11.3103		10k	MF, 1%, 0207
0	R 2	57.11.3102		1k0	MF, 1%, 0207
0	R 3	57.11.3101		100R	MF, 1%, 0207
0	R 4	57.11.3103		10k	MF, 1%, 0207
0	R 5	57.11.3113		11k	MF, 1%, 0207
0	R 6	57.11.3331		330R	MF, 1%, 0207
0	R 7	57.11.3331		330R	MF, 1%, 0207
0	R 8	57.11.3271		270R	MF, 1%, 0207
0	R 9	57.11.3821		820R	MF, 1%, 0207
0	R 10	57.11.5475		4M7	MF, 5%, 0207
0	R 11	57.11.3102		1k0	MF, 1%, 0207
0	R 12	57.11.3104		100k	MF, 1%, 0207
0	R 13	57.11.3105		1M0	MF, 1%, 0207
0	R 14	57.11.3221		220R	MF, 1%, 0207
0	R 15	57.11.5475		4M7	MF, 5%, 0207
0	R 16	57.11.3101		100R	MF, 1%, 0207
0	R 17	57.11.3101		100R	MF, 1%, 0207
0	R 18	57.11.3101		100R	MF, 1%, 0207
0	R 19	57.11.3101		100R	MF, 1%, 0207
0	R 20	57.11.3152		1k5	MF, 1%, 0207
0	R 21	57.11.3152		1k5	MF, 1%, 0207
0	R 22	57.11.3472		4k7	MF, 1%, 0207
0	R 23	57.11.3472		4k7	MF, 1%, 0207
0	R 24	57.11.3154		150k	MF, 1%, 0207
0	R 25	57.11.3473		47k	MF, 1%, 0207
0	R 26	57.11.3271		270R	MF, 1%, 0207
0	R 27	57.11.3821		820R	MF, 1%, 0207
0	R 28	57.11.3101		100R	MF, 1%, 0207
0	R 29	57.11.3101		100R	MF, 1%, 0207
0	R 30	57.11.3101		100R	MF, 1%, 0207
0	R 31	57.11.3101		100R	MF, 1%, 0207
0	R 32	57.11.3331		330R	MF, 1%, 0207
0	R 33	57.11.3331		330R	MF, 1%, 0207
0	R 34	57.11.3101		100R	MF, 1%, 0207
0	R 35	57.11.3101		100R	MF, 1%, 0207
0	R 36	57.11.3101		100R	MF, 1%, 0207
0	R 37	57.11.3101		100R	MF, 1%, 0207
0	R 38	57.11.3102		1k0	MF, 1%, 0207
0	R 39	57.11.3223		22k	MF, 1%, 0207
0	R 40	57.11.3103		10k	MF, 1%, 0207
0	R 41	57.11.3104		100k	MF, 1%, 0207
0	R 42	57.11.3104		100k	MF, 1%, 0207
0	R 43	57.11.3203		20k	MF, 1%, 0207
0	R 44	57.11.3101		100R	MF, 1%, 0207
0	R 45	57.11.3271		270R	MF, 1%, 0207
0	R 46	57.11.3103		10k	MF, 1%, 0207
0	R 47	57.11.3103		10k	MF, 1%, 0207
0	R 48	57.11.3103		10k	MF, 1%, 0207
0	R 49	57.11.3103		10k	MF, 1%, 0207
0	RA 1	58.01.9203		20k	Cermet, 10%, 0.5W, vertical
0	RZ 1	57.88.4473		8*47k	2%, SIP 9
0	RZ 2	57.88.4473		8*47k	2%, SIP 9
0	RZ 3	57.88.4473		8*47k	2%, SIP 9
0	RZ 4	57.88.4473		8*47k	2%, SIP 9
0	RZ 5	57.88.4473		8*47k	2%, SIP 9
0	RZ 6	57.88.4473		8*47k	2%, SIP 9
0	RZ 7	57.88.4473		8*47k	2%, SIP 9
0	RZ 8	57.88.4103		8*10k	2%, SIP 9
0	RZ 9	57.88.4103		8*10k	2%, SIP 9
0	XIC 15	53.03.0173		28p	DIL 0.6", löt, gerade
0	XIC 30	53.03.0173		28p	DIL 0.6", löt, gerade
0	Y 1	89.01.1009		16.000MHz	16.000 000 MHz, HC 49/U

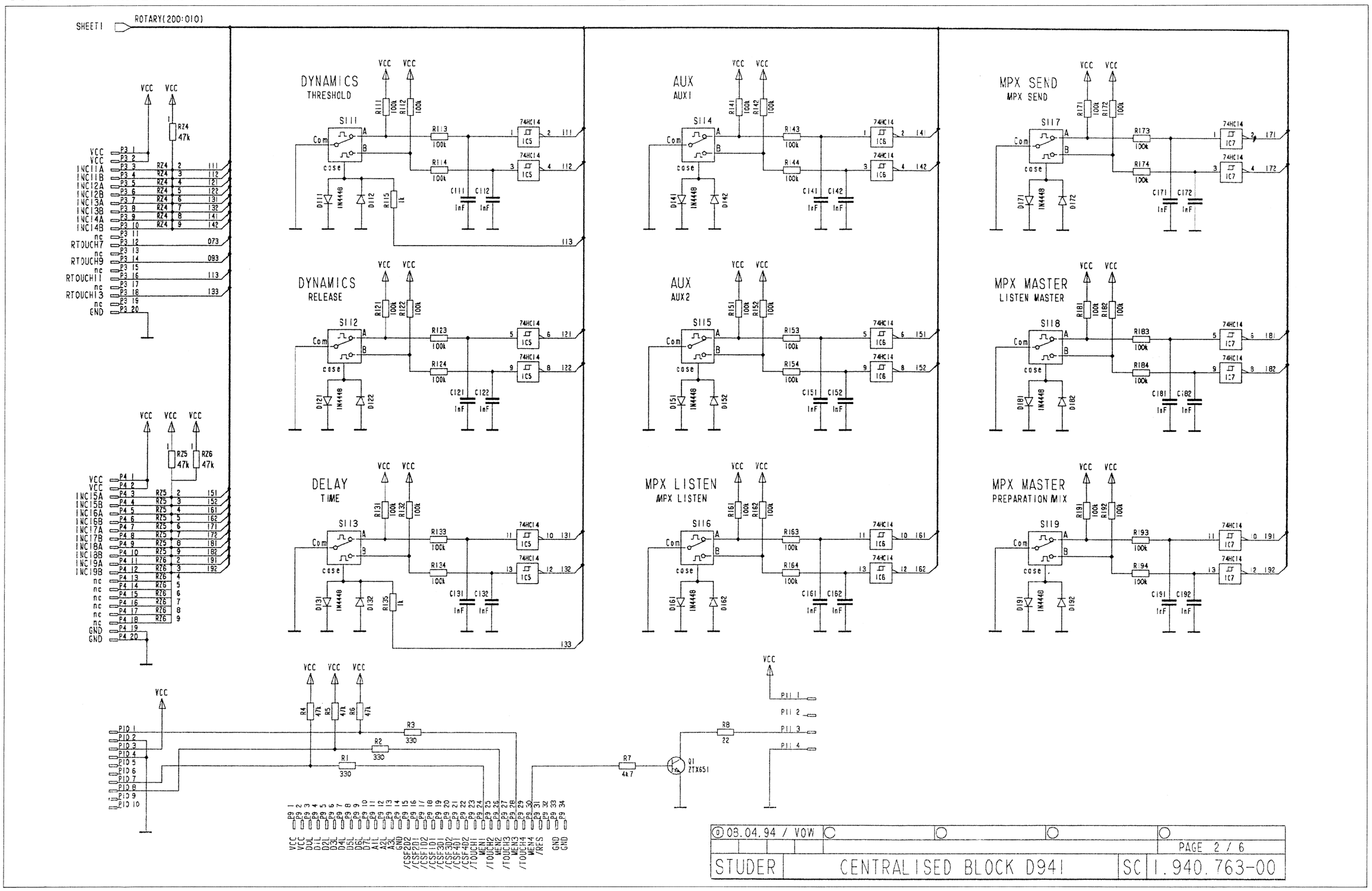
End of List

Comments

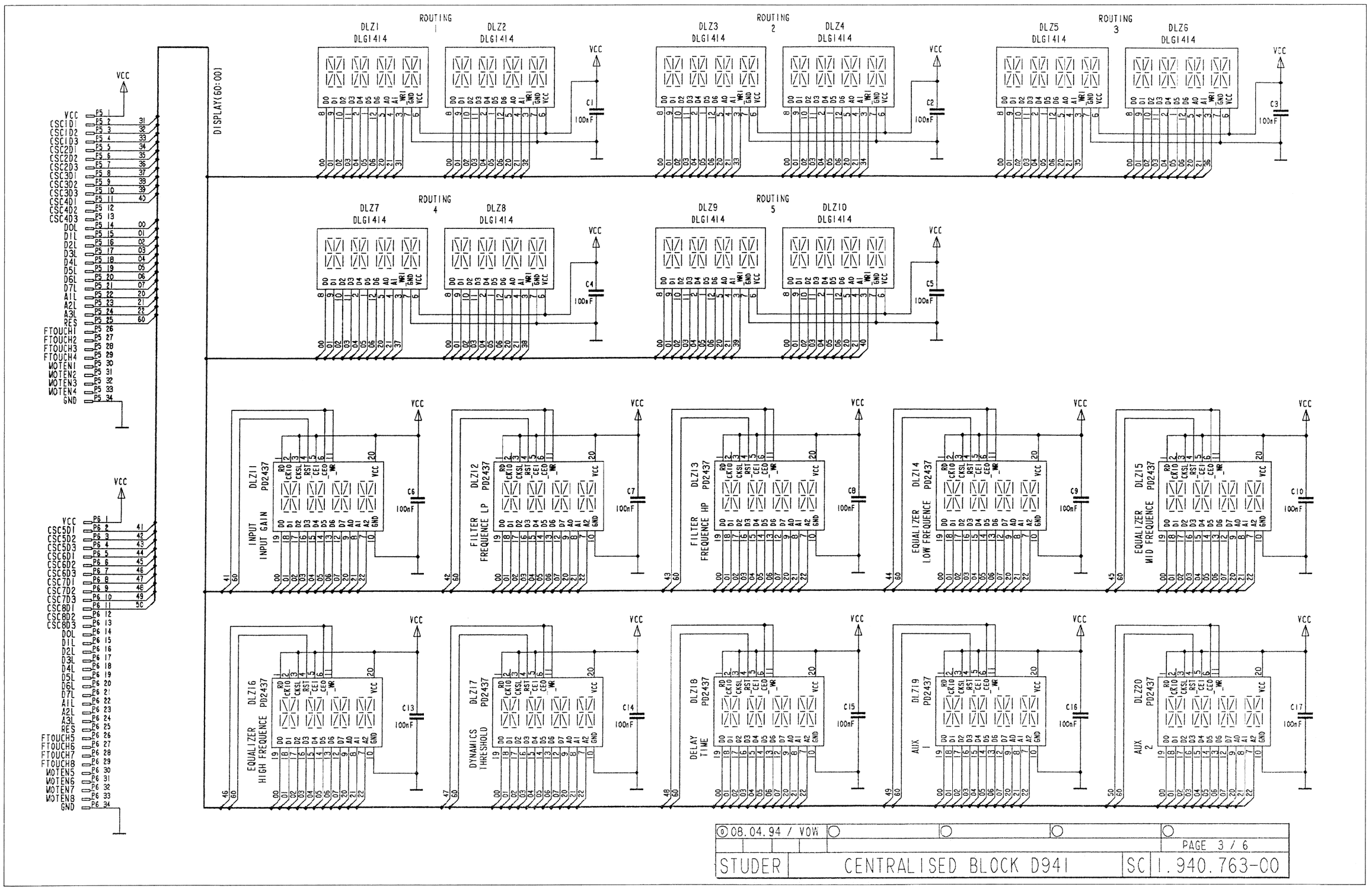
Centralized Front Board 1.940.763.00



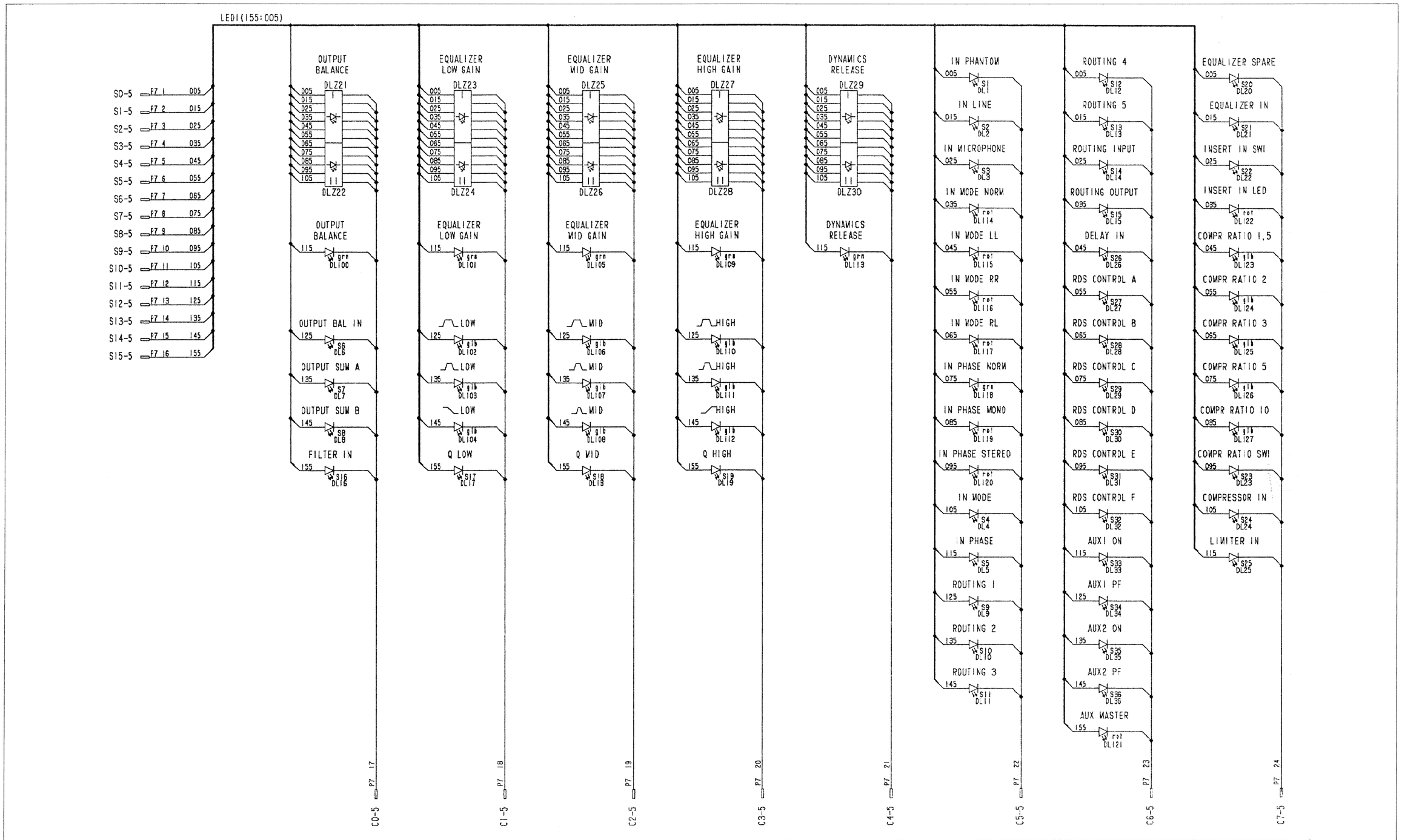
Centralized Front Board 1.940.763.00



Centralized Front Board 1.940.763.00

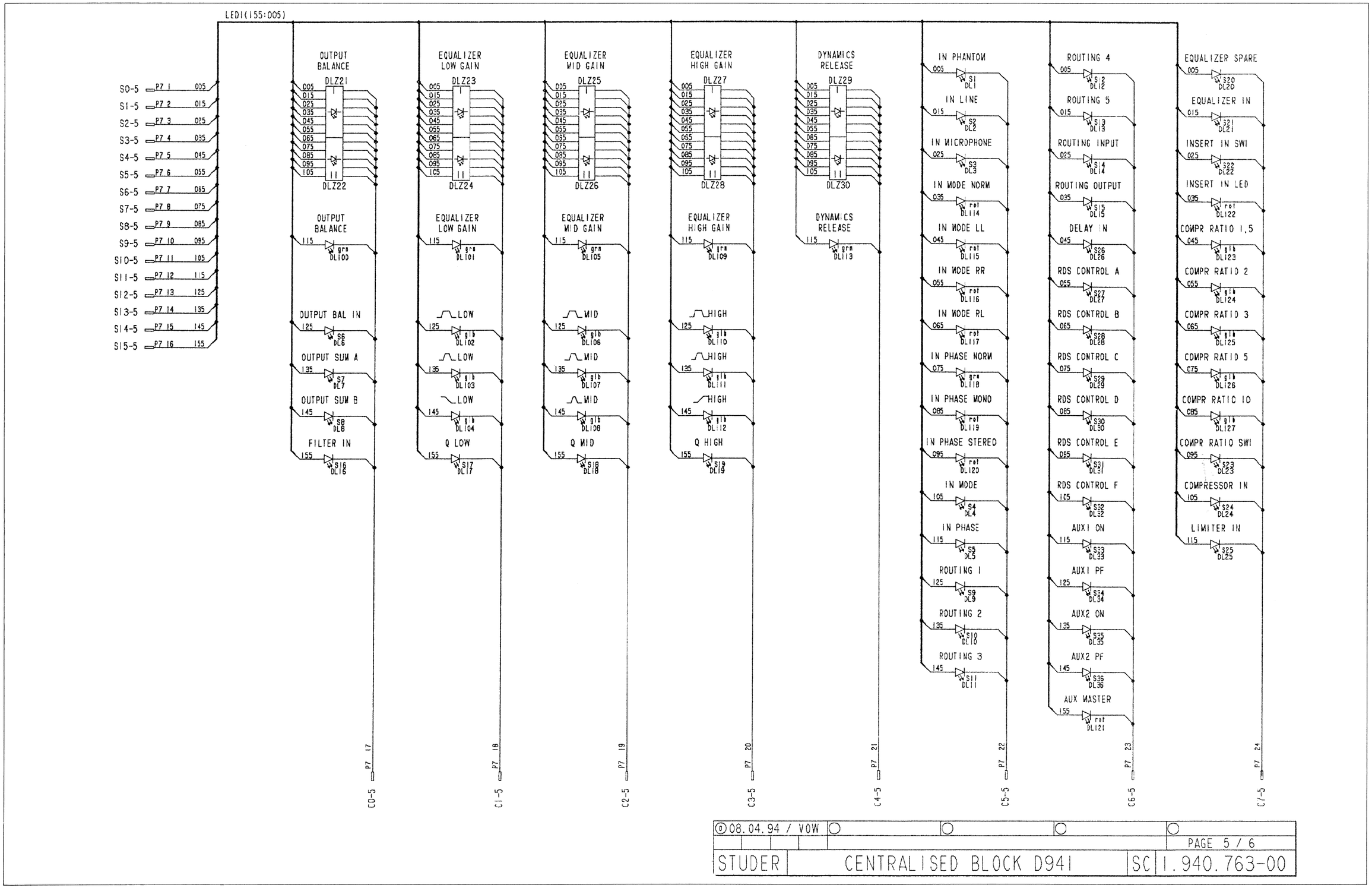


Centralized Front Board 1.940.763.00

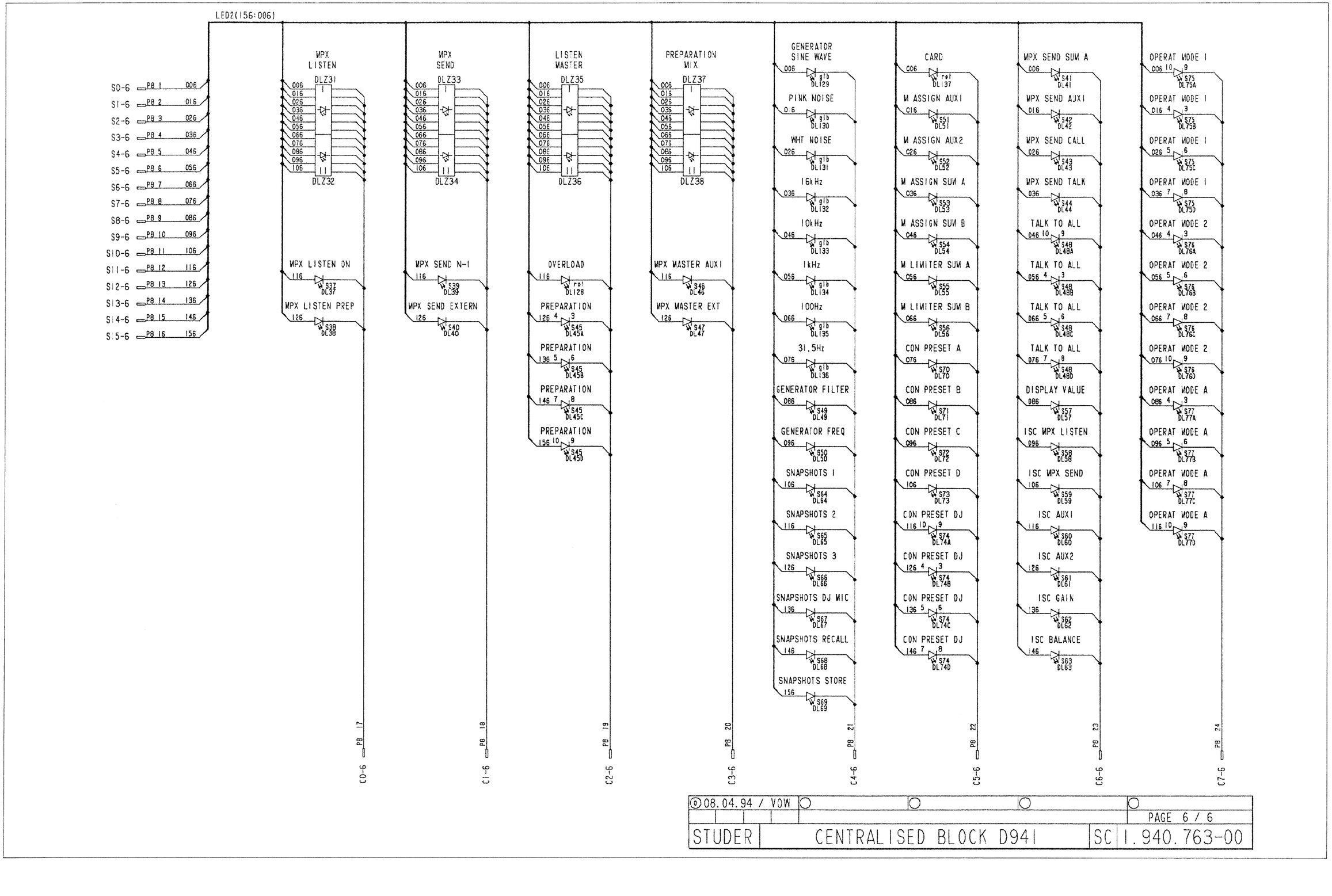


ⓐ 08.04.94 / VOW				PAGE 4 / 6
STUDER	CENTRALISED BLOCK D941		SC	1.940.763-00

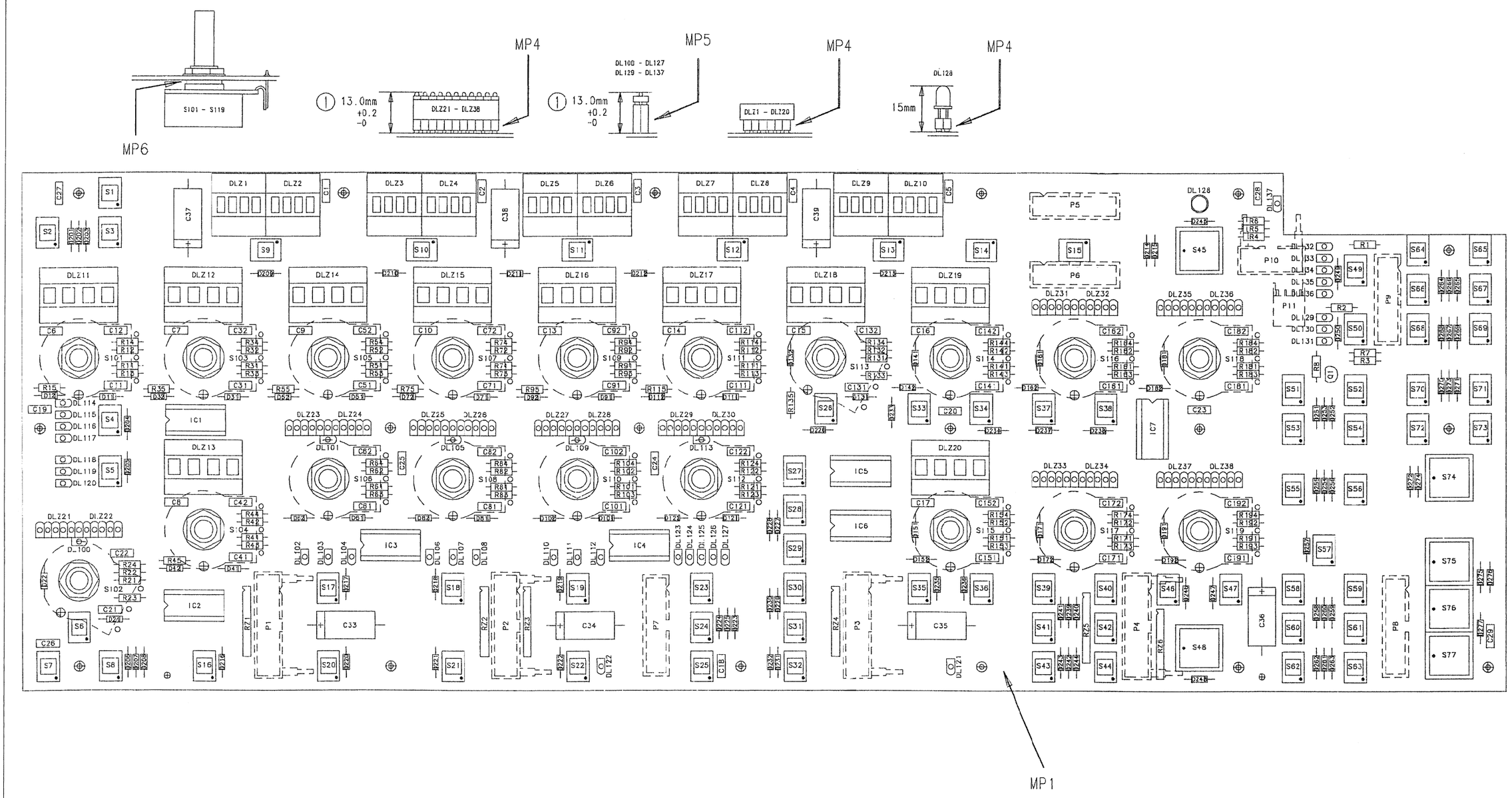
Centralized Front Board 1.940.763.00



Centralized Front Board 1.940.763.00



Centralized Front Board 1.940.763.00



Modification Aenderung					
			.	.	3
			.	.	2
	20.11.96	ZT		.	1
Edition Edition	30.04.96	PZ	.	.	0
	Date Datum	Visa Gez.	Checked Gepr.	Seen Ges.	Index

Copy to: Kopie fuer:

STUDER REGENSDORF

Description: Benennung: CENTRALIZED FRONT BOARD "ESE"

Number: Nummer: 1.940.763-00

Centralized Front Board 1.940.763.00

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 2	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 3	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 4	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 5	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 6	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 7	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 8	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 9	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 10	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 11	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 12	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 13	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 14	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 15	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 16	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 17	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 18	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 19	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 20	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 21	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 22	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 23	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 24	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 25	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 26	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 27	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 28	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 29	59.06.0104		100n	PETP, 63V, 10%, RM5
0	C 31	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 32	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 33	59.25.2221		220u	C-EL, 20%, 10V
0	C 34	59.25.2221		220u	C-EL, 20%, 10V
0	C 35	59.25.2221		220u	C-EL, 20%, 10V
0	C 36	59.25.2221		220u	C-EL, 20%, 10V
0	C 37	59.25.2221		220u	C-EL, 20%, 10V
0	C 38	59.25.2221		220u	C-EL, 20%, 10V
0	C 39	59.25.2221		220u	C-EL, 20%, 10V
0	C 41	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 42	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 51	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 52	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 61	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 62	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 71	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 72	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 81	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 82	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 91	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 92	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 101	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 102	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 111	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 112	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 121	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 122	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 131	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 132	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 141	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 142	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 151	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 152	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 161	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 162	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 171	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 172	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 181	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 182	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 191	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	C 192	59.06.0102		1n0	PETP, 63V, 10%, RM5
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 12	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 21	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 22	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 31	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 32	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 41	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 42	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 51	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 52	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 61	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 62	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 71	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 72	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 81	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 82	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	D 91	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 92	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 101	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 102	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 111	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 112	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 121	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 122	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 131	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 132	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 141	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 142	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 151	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 152	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 161	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 162	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 171	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 172	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 181	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 182	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 191	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 192	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 201	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 202	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 203	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 204	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 205	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 206	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 207	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 208	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 209	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 210	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 211	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 212	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 213	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 214	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 215	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 216	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 217	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 218	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 219	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 220	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 221	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 222	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 223	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 224	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 225	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 226	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 227	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 228	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 229	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 230	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 231	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 232	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 233	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 234	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 235	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 236	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 237	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 238	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 239	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 240	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 241	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 242	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 243	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 244	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 245	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 246	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 247	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 248	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 249	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 250	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 251	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 252	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 253	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 254	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 255	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 256	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 257	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 258	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 259	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 260	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 261	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 262	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 263	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 264	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 265	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	D 266	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 267	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 268	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 269	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 270	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 271	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 272	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 273	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 274	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 275	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 276	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 277	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	DL 100	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 101	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 102	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 103	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 104	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 105	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 106	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 107	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 108	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 109	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 110	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 111	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 112	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 113	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 114	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 115	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 116	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 117	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 118	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DL 119	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 120	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 121	50.04.2121		TLUR 2401	DL TLUR 2401 RT MATT
1	DL 122	not used		TLUR 2401	DL TLUR 2401 RT MATT
0	DL 123	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 124	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 125	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 126	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 127	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 128	50.04.2502		HLMP4700	DL HLMP - 4700 RT
0	DL 129	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 130	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 131	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 132	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 133	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 134	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 135	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 136	50.04.2133		TLUY 2401	DL TLUY 2401 GB MATT
0	DL 137	50.04.2132		TLUG 2401	DL TLUG 2401 GN MATT
0	DLZ 1	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 2	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 3	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 4	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 5	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 6	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 7	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 8	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 9	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 10	73.01.0406			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 11	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 12	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 13	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 14	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 15	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 16	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 17	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 18	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 19	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 20	73.01.0405			LED DOT MATR-DISP 4 DIG 5X7
0	DLZ 21	50.04.2812			DLZ 11*D GB
0	DLZ 22	not used		not used	not used
0	DLZ 23	50.04.2812			DLZ 11*D GB
0	DLZ 24	not used		not used	not used
0	DLZ 25	50.04.2812			DLZ 11*D GB
0	DLZ 26	not used		not used	not used
0	DLZ 27	50.04.2812			DLZ 11*D GB
0	DLZ 28	not used		not used	not used
0	DLZ 29	50.04.2812			DLZ 11*D GB
0	DLZ 30	not used		not used	not used
0	DLZ 31	50.04.2812			DLZ 11*D GB
0	DLZ 32	not used		not used	not used
0	DLZ 33	50.04.2812			DLZ 11*D GB
0	DLZ 34	not used		not used	not used
0	DLZ 35	50.04.2812			DLZ 11*D GB
0	DLZ 36	not used		not used	not used

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	DLZ 37	50.04.2812			DLZ 11*D GB
0	DLZ 38	not used		not used	not used
0	IC 1	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 2	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 3	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 4	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 5	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 6	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 7	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	MP 1	1.940.761.11	1 pce		CENTRALIZED FRONT PCB /I\
0	MP 2	43.01.0108	1 pce	Label	ESE-WARNSCHILD
0	MP 3	1.940.763.04	1 pce		NR.-ETIKETTE 5 * 20
0	MP 4	53.03.0218	518 pc	1p	XIC SINGLE, IN-LINE 1PIN=1STK
1	MP 5	53.03.0240	36 pcs		XLED SINGLE LINE, 2 POL. PRINT
0	MP 6	1.010.091.23	19 pcs		DISTANZSCHEIBE D 9.0/12* 1.2
0	P 1	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 2	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 3	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 4	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 5	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 6	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 7	54.16.0540		40p	P 1/40", 40 P, AU, PRINT
0	P 8	54.16.0540		40p	P 1/40", 40 P, AU, PRINT
0	P 9	54.16.0534		34p	P 1/40", 34 P, AU, PRINT
0	P 10	54.14.2101		10p	P STECKER 10 P,AU,VR,GERADE
2	P 11	54.12.0724		4p	Stecker winkel PCB
0	Q 1	50.03.0523		ZTX651	ZTX 651
0	R 1	57.11.3331		330R	MF, 1%, 0207
0	R 2	57.11.3331		330R	MF, 1%, 0207
0	R 3	57.11.3331		330R	MF, 1%, 0207
0	R 4	57.11.3473		47k	MF, 1%, 0207
0	R 5	57.11.3473		47k	MF, 1%, 0207
0	R 6	57.11.3473		47k	MF, 1%, 0207
0	R 7	57.11.3472		4k7	MF, 1%, 0207
0	R 8	57.11.3220		22R	MF, 1%, 0207
0	R 11	57.11.3104		100k	MF, 1%, 0207
0	R 12	57.11.3104		100k	MF, 1%, 0207
0	R 13	57.11.3104		100k	MF, 1%, 0207
0	R 14	57.11.3104		100k	MF, 1%, 0207
0	R 15	57.11.3102		1k0	MF, 1%, 0207
0	R 21	57.11.3104		100k	MF, 1%, 0207
0	R 22	57.11.3104		100k	MF, 1%, 0207
0	R 23	57.11.3104		100k	MF, 1%, 0207
0	R 24	57.11.3104		100k	MF, 1%, 0207
0	R 31	57.11.3104		100k	MF, 1%, 0207
0	R 32	57.11.3104		100k	MF, 1%, 0207
0	R 33	57.11.3104		100k	MF, 1%, 0207
0	R 34	57.11.3104		100k	MF, 1%, 0207
0	R 35	57.11.3102		1k0	MF, 1%, 0207
0	R 41	57.11.3104		100k	MF, 1%, 0207
0	R 42	57.11.3104		100k	MF, 1%, 0207
0	R 43	57.11.3104		100k	MF, 1%, 0207
0	R 44	57.11.3104		100k	MF, 1%, 0207
0	R 45	57.11.3102		1k0	MF, 1%, 0207
0	R 51	57.11.3104		100k	MF, 1%, 0207
0	R 52	57.11.3104		100k	MF, 1%, 0207
0	R 53	57.11.3104		100k	MF, 1%, 0207
0	R 54	57.11.3104		100k	MF, 1%, 0207
0	R 55	57.11.3102		1k0	MF, 1%, 0207
0	R 61	57.11.3104		100k	MF, 1%, 0207
0	R 62	57.11.3104		100k	MF, 1%, 0207
0	R 63	57.11.3104		100k	MF, 1%, 0207
0	R 64	57.11.3104		100k	MF, 1%, 0207
0	R 71	57.11.3104		100k	MF, 1%, 0207
0	R 72	57.11.3104		100k	MF, 1%, 0207
0	R 73	57.11.3104		100k	MF, 1%, 0207
0	R 74	57.11.3104		100k	MF, 1%, 0207
0	R 75	57.11.3102		1k0	MF, 1%, 0207
0	R 81	57.11.3104		100k	MF, 1%, 0207
0	R 82	57.11.3104		100k	MF, 1%, 0207
0	R 83	57.11.3104		100k	MF, 1%, 0207
0	R 84	57.11.3104		100k	MF, 1%, 0207
0	R 91	57.11.3104		100k	MF, 1%, 0207
0	R 92	57.11.3104		100k	MF, 1%, 0207
0	R 93	57.11.3104		100k	MF, 1%, 0207
0	R 94	57.11.3104		100k	MF, 1%, 0207
0	R 95	57.11.3102		1k0	MF, 1%, 0207
0	R 101	57.11.3104		100k	MF, 1%, 0207
0	R 102	57.11.3104		100k	MF, 1%, 0207
0	R 103	57.11.3104		100k	MF, 1%, 0207
0	R 104	57.11.3104		100k	MF, 1%, 0207
0	R 111	57.11.3104		100k	MF, 1%, 0207

Centralized Front Board 1.940.763.00

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 112	57.11.3104		100k	MF, 1%, 0207
0	R 113	57.11.3104		100k	MF, 1%, 0207
0	R 114	57.11.3104		100k	MF, 1%, 0207
0	R 115	57.11.3102		1k0	MF, 1%, 0207
0	R 121	57.11.3104		100k	MF, 1%, 0207
0	R 122	57.11.3104		100k	MF, 1%, 0207
0	R 123	57.11.3104		100k	MF, 1%, 0207
0	R 124	57.11.3104		100k	MF, 1%, 0207
0	R 131	57.11.3104		100k	MF, 1%, 0207
0	R 132	57.11.3104		100k	MF, 1%, 0207
0	R 133	57.11.3104		100k	MF, 1%, 0207
0	R 134	57.11.3104		100k	MF, 1%, 0207
0	R 135	57.11.3102		1k0	MF, 1%, 0207
0	R 141	57.11.3104		100k	MF, 1%, 0207
0	R 142	57.11.3104		100k	MF, 1%, 0207
0	R 143	57.11.3104		100k	MF, 1%, 0207
0	R 144	57.11.3104		100k	MF, 1%, 0207
0	R 151	57.11.3104		100k	MF, 1%, 0207
0	R 152	57.11.3104		100k	MF, 1%, 0207
0	R 153	57.11.3104		100k	MF, 1%, 0207
0	R 154	57.11.3104		100k	MF, 1%, 0207
0	R 161	57.11.3104		100k	MF, 1%, 0207
0	R 162	57.11.3104		100k	MF, 1%, 0207
0	R 163	57.11.3104		100k	MF, 1%, 0207
0	R 164	57.11.3104		100k	MF, 1%, 0207
0	R 171	57.11.3104		100k	MF, 1%, 0207
0	R 172	57.11.3104		100k	MF, 1%, 0207
0	R 173	57.11.3104		100k	MF, 1%, 0207
0	R 174	57.11.3104		100k	MF, 1%, 0207
0	R 181	57.11.3104		100k	MF, 1%, 0207
0	R 182	57.11.3104		100k	MF, 1%, 0207
0	R 183	57.11.3104		100k	MF, 1%, 0207
0	R 184	57.11.3104		100k	MF, 1%, 0207
0	R 191	57.11.3104		100k	MF, 1%, 0207
0	R 192	57.11.3104		100k	MF, 1%, 0207
0	R 193	57.11.3104		100k	MF, 1%, 0207
0	R 194	57.11.3104		100k	MF, 1%, 0207
0	RZ 1	57.88.4473		8*47k	2%, SIP 9
0	RZ 2	57.88.4473		8*47k	2%, SIP 9
0	RZ 3	57.88.4473		8*47k	2%, SIP 9
0	RZ 4	57.88.4473		8*47k	2%, SIP 9
0	RZ 5	57.88.4473		8*47k	2%, SIP 9
0	RZ 6	57.88.4473		8*47k	2%, SIP 9
0	S 1	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 2	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 3	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 4	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 5	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 6	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 7	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 8	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 9	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 10	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 11	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 12	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 13	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 14	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 15	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 16	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 17	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 18	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 19	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
3	S 20	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 21	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 22	not used		not used	not used
0	S 23	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 24	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 25	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 26	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 27	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 28	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 29	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 30	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 31	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 32	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 33	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 34	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 35	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 36	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 37	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 38	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 39	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 40	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 41	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 42	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	S 43	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 44	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 45	55.15.0744		1*a	S TASTE 1*A, 12MM, GB/GB
0	S 46	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 47	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 48	55.15.0755		1*a	S TASTE 1*A, 12MM, GN/GN
0	S 49	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 50	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 51	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 52	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 53	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 54	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 55	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 56	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 57	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 58	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 59	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 60	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 61	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 62	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 63	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 64	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 65	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 66	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 67	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 68	55.15.0655		1*a	S TASTE 1*A, 5MM, GN/GN
0	S 69	55.15.0622		1*a	S TASTE 1*A, 5MM, RT/RT
0	S 70	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 71	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 72	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 73	55.15.0644		1*a	S TASTE 1*A, 5MM, GB/GB
0	S 74	55.15.0744		1*a	S TASTE 1*A, 12MM, GB/GB
1	S 75	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
1	S 76	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
0	S 77	55.15.0722		1*a	S TASTE 1*A, 12MM, RT/RT
0	S 101	1.940.751.02			ROTARY ENCODER
0	S 102	1.940.751.02			ROTARY ENCODER
0	S 103	1.940.751.02			ROTARY ENCODER
0	S 104	1.940.751.02			ROTARY ENCODER
0	S 105	1.940.751.02			ROTARY ENCODER
0	S 106	1.940.751.02			ROTARY ENCODER
0	S 107	1.940.751.02			ROTARY ENCODER
0	S 108	1.940.751.02			ROTARY ENCODER
0	S 109	1.940.751.02			ROTARY ENCODER
0	S 110	1.940.751.02			ROTARY ENCODER
0	S 111	1.940.751.02			ROTARY ENCODER
0	S 112	1.940.751.02			ROTARY ENCODER
0	S 113	1.940.751.02			ROTARY ENCODER
0	S 114	1.940.751.02			ROTARY ENCODER
0	S 115	1.940.751.02			ROTARY ENCODER
0	S 116	1.940.751.02			ROTARY ENCODER
0	S 117	1.940.751.02			ROTARY ENCODER
0	S 118	1.940.751.02			ROTARY ENCODER
0	S 119	1.940.751.02			ROTARY ENCODER

End of List

Comments:

(01) S75 and S76 additional inserted
(02) P11 54.99.0185 changed to 54.12.0724

SCHEMATA / CIRCUIT DIAGRAMS

Monitor Units

CR Monitor Control Unit 1.990.420.00

CR Monitor Control Unit 1.990.420.00
- CR Monitor Switch Board 1.990.429.00

Studio Monitor Control Unit 1.990.430.00

Studio Monitor Control Unit 1.990.430.00
- Studio Monitor Switch Board 1.990.439.00

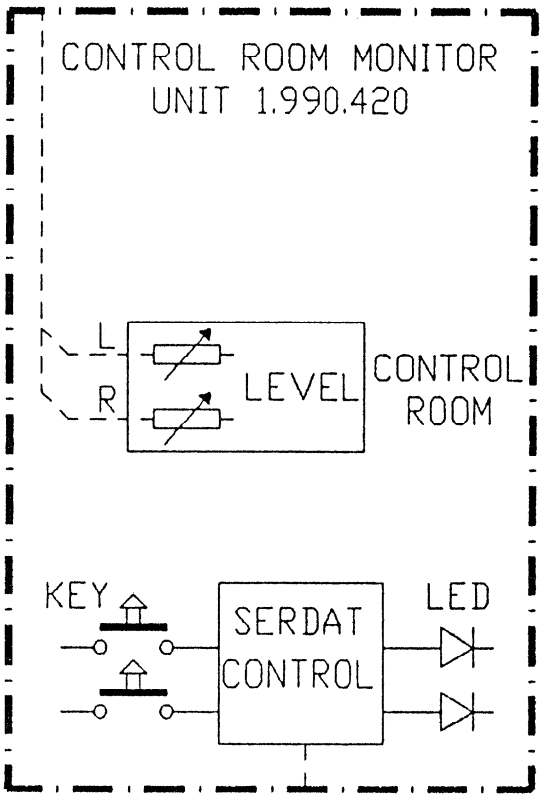
PFL/Talk Back Headphone Unit 1.990.440.00

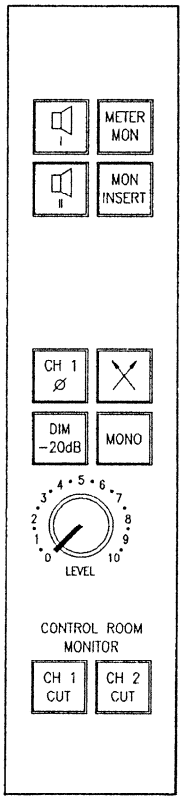
PFL/Talk Back Headphone Unit 1.990.440.00
- PFL/Talk Back Switch Board 1.990.449.00

Source Selector Unit 1.990.490.00

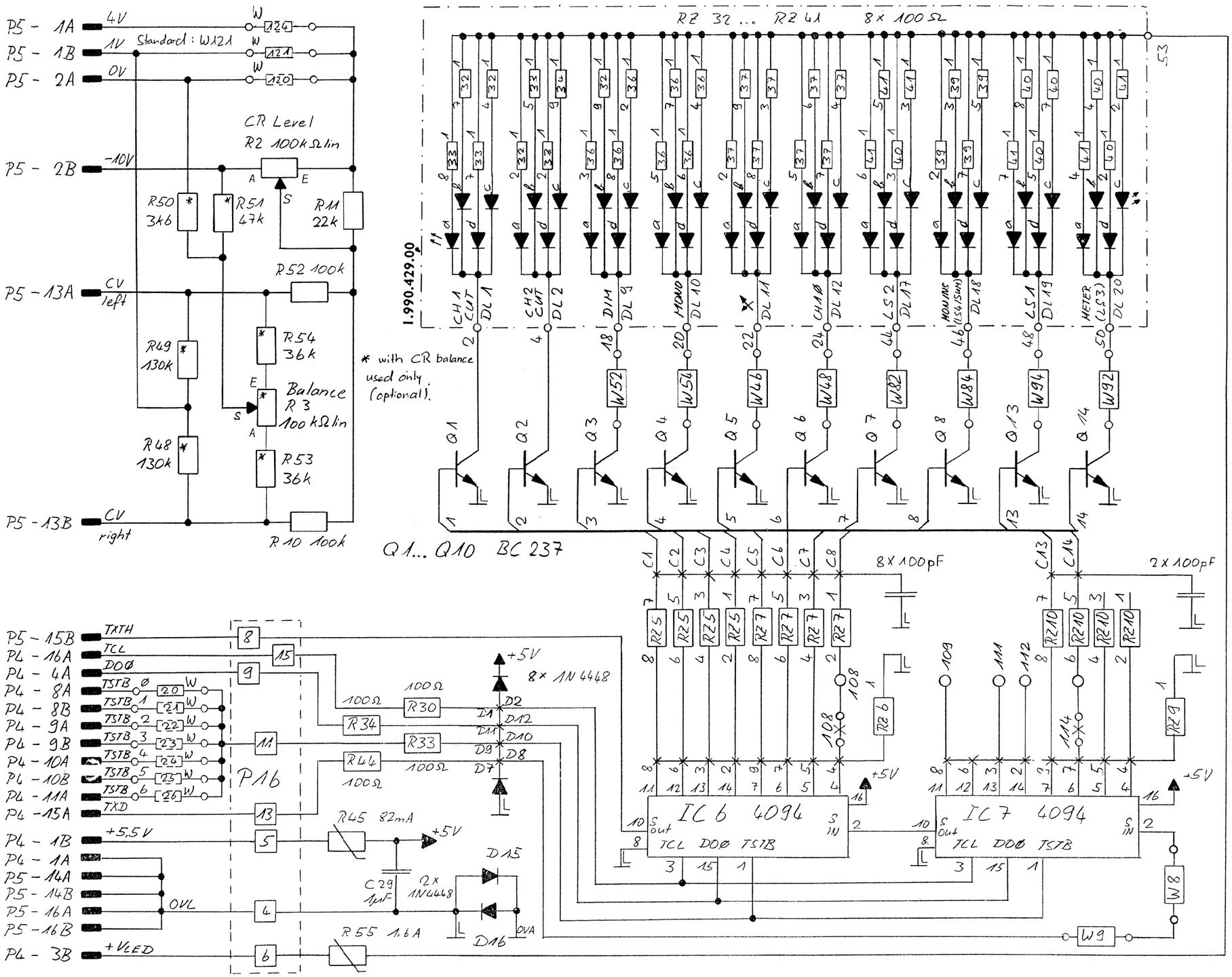
Source Selector Unit 1.990.498.00
- Source Selector Switch Board 1.990.499.00

CR Monitor Control Unit 1.990.420.00



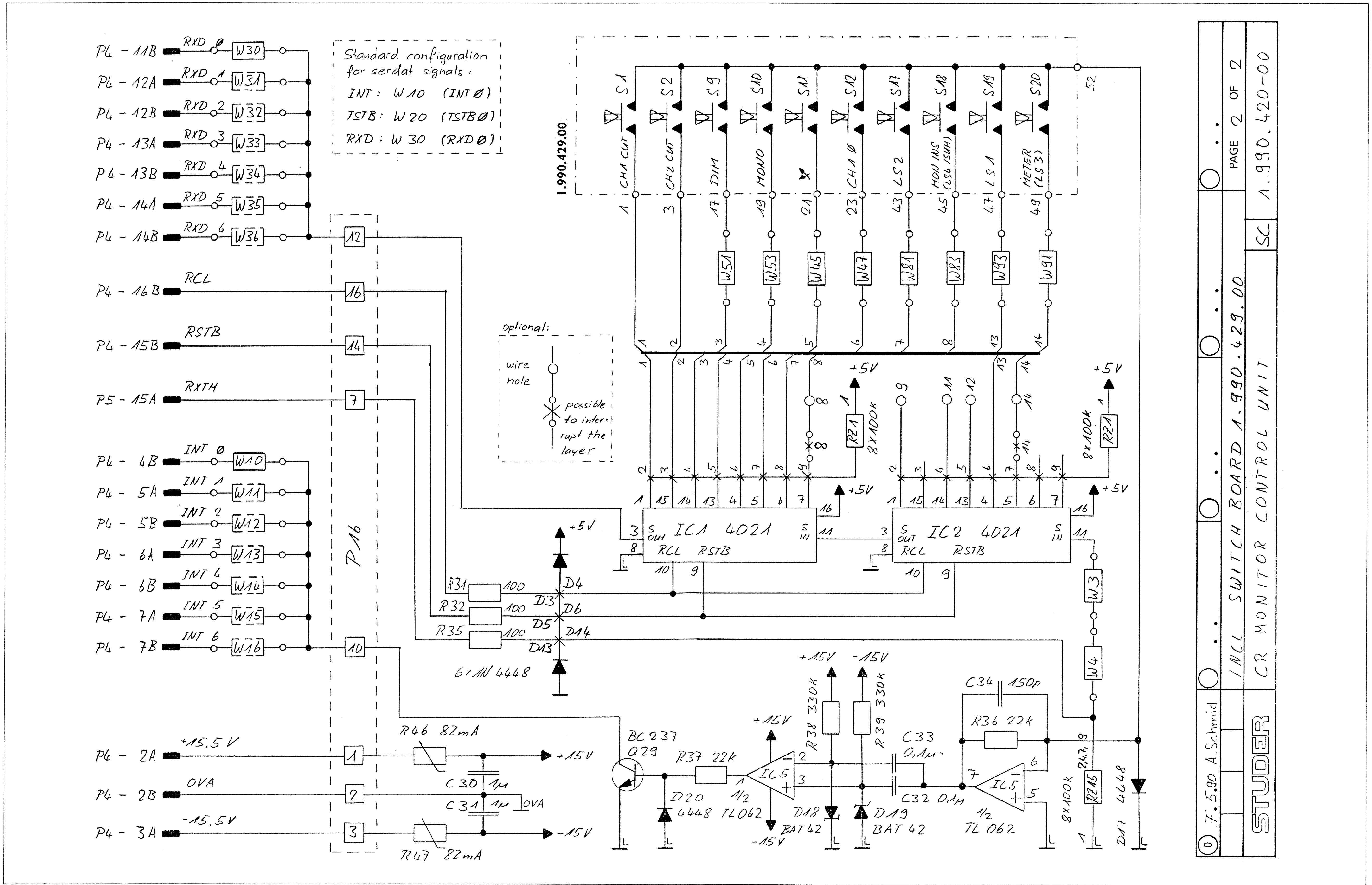


CR Monitor Control Unit 1.990.420.00
- CR Monitor Switch Board 1.990.429.00

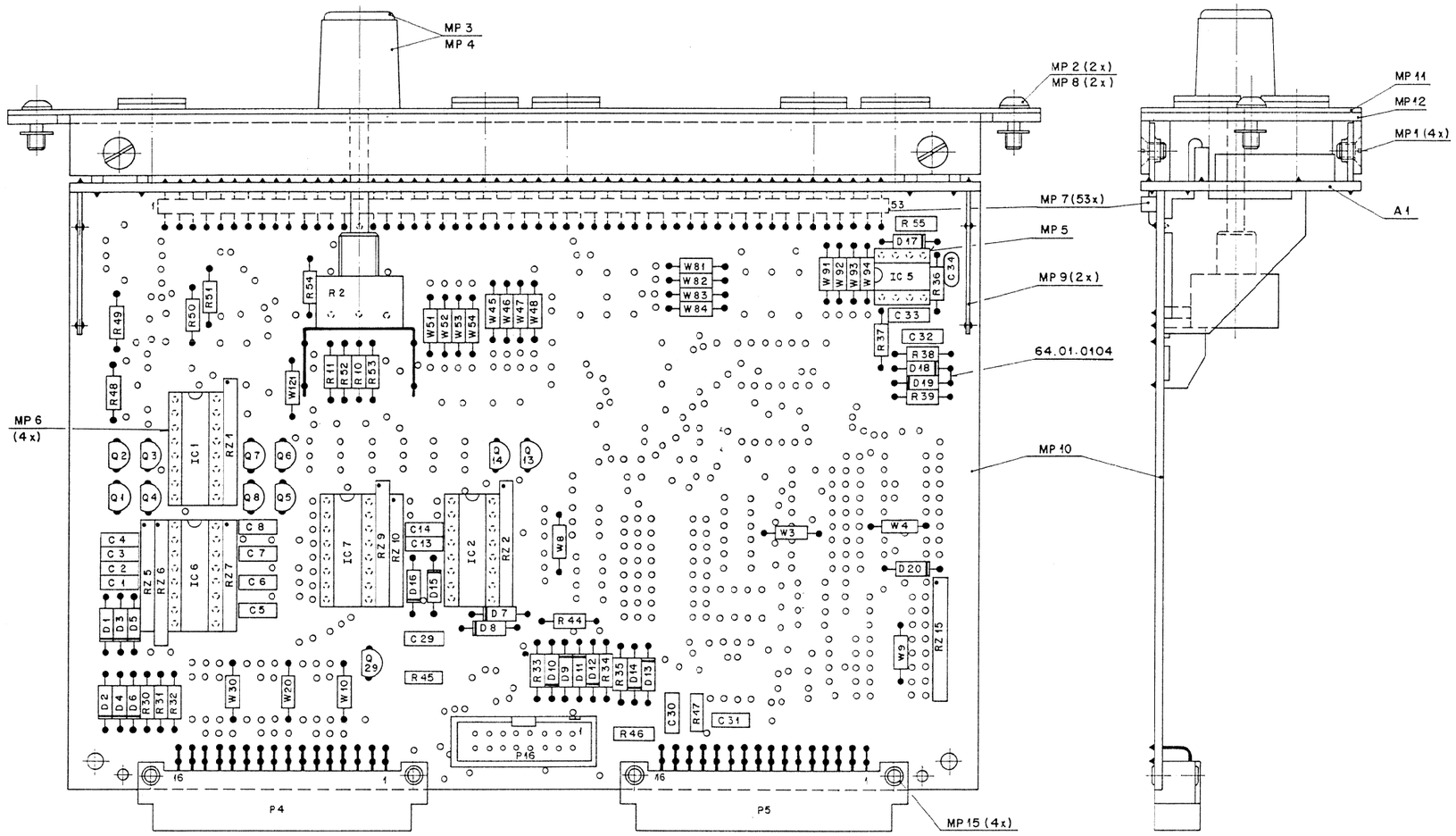


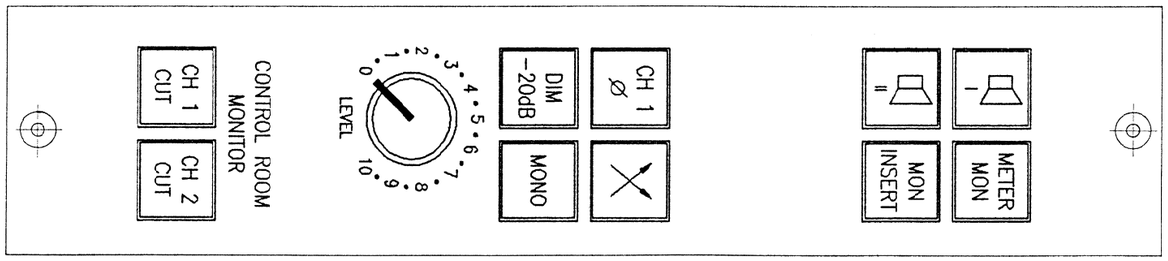
0	7.590	A.Schmid	STUDER	CR MONITOR CONTROL UNIT INCL. SWITCH BOARD 1.990.429.00 SC 1.990.420-00 PAGE 1 OF 2

CR Monitor Control Unit 1.990.420.00
- CR Monitor Switch Board 1.990.429.00



CR Monitor Control Unit 1.990.420.00





STUDER REGENSDORF ZÜRICH	Benennung: CR MONITOR CONTROL UNIT ESE				Änderung	
					Ausgabe	
					Datum	24.4.90
					Ges.	Sch
					Gepr.	
					Ges.	
					Index	
	Kopie für:					
	Nummer: 1.990.420-00					

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
A	1	1.990.429.00	CR MONITOR SWITCH BOARD	
C	1	59.34.4101	100 pF CE	
C	2	59.34.4101	100 pF CE	
C	3	59.34.4101	100 pF CE	
C	4	59.34.4101	100 pF CE	
C	5	59.34.4101	100 pF CE	
C	6	59.34.4101	100 pF CE	
C	7	59.34.4101	100 pF CE	
C	8	59.34.4101	100 pF CE	
C	13	59.34.4101	100 pF CE	
C	14	59.34.4101	100 pF CE	
C	29	59.06.0104	100 nF PE	
C	30	59.06.0104	100 nF PE	
C	31	59.06.0104	100 nF PE	
C	32	59.06.0104	100 nF PE	
C	33	59.06.0104	100 nF PE	
C	34	59.34.7151	150 pF CE	
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	50.04.0125	1N4448	
D	9	50.04.0125	1N4448	
D	10	50.04.0125	1N4448	
D	11	50.04.0125	1N4448	
D	12	50.04.0125	1N4448	
D	13	50.04.0125	1N4448	
D	14	50.04.0125	1N4448	
D	15	50.04.0125	1N4448	
D	16	50.04.0125	1N4448	
D	17	50.04.0125	1N4448	
D	18	50.04.0127	BAT 42	
D	19	50.04.0127	BAT 42	
D	20	50.04.0125	1N4448	
IC	1	50.07.1021	CD4021	8-bit static shift register
IC	2	50.07.1021	CD4021	8-bit static shift register
IC	5	50.09.0119	TL 062	J FET dual op. amp.
IC	6	50.07.0018	CD4094	shift and store bus register
IC	7	50.07.0018	CD4094	shift and store bus register
MP	1	21.01.2352	4 pcs	S-Schr. M3*4
MP	2	24.16.3023	2 pcs	Wellensicherung 3mm
MP	3	42.01.0233	1 pcs	Knebelknopf D15/4 grau
MP	4	42.01.0257	1 pcs	Deckel hellgrau
MP	5	53.03.0166	1 pcs	IC-Socket 8-pol
MP	6	53.03.0168	4 pcs	IC-Socket 16-pol
MP	7	54.11.0125	53 pcs	Stiftenleiste winkel
MP	8	1.010.022.21	2 pcs	Linsenschraube IS M3*8
MP	9	1.990.100.01	2 pcs	Querprintstuetze
MP	10	1.990.420.11	1 pcs	CR-MONITOR PCB
MP	11	1.990.420.01	1 pcs	Frontschild CR-MONITOR CONTROL
MP	12	1.990.490.02	1 pcs	Traeger Source Selector
MP	13	1.990.420.04	1 pcs	Studer-Nr-Etikette 10*20
MP	14	43.01.0108	1 pcs	ESE-Schild
MP	15	28.99.0119	4 pcs	Rohrniete D2.5*0.15*10
Q	1	50.03.0436	BC 237	
Q	2	50.03.0436	BC 237	
Q	3	50.03.0436	BC 237	
Q	4	50.03.0436	BC 237	
Q	5	50.03.0436	BC 237	
Q	6	50.03.0436	BC 237	
Q	7	50.03.0436	BC 237	
Q	8	50.03.0436	BC 237	
Q	13	50.03.0436	BC 237	
Q	14	50.03.0436	BC 237	
Q	29	50.03.0436	BC 237	
P	1	. . 0	not used	see MP
P	2	54.14.2002	16 pin	PCB ribbon connector
P	4	54.11.2013	2*16 pin	eurocard-connector
P	5	54.11.2013	2*16 pin	eurocard-connector
R	2	1.010.039.58	100 k	Poti 20% lin (only used without balance)
R	3	. . 0	not used	used in balance version only (1.010.032-58)
R	10	57.11.3104	100 kOhm 1% MF	
R	11	57.11.3223	22 kOhm 1% MF	
R	30	57.11.3101	100 Ohm 1% MF	
R	31	57.11.3101	100 Ohm 1% MF	
R	32	57.11.3101	100 Ohm 1% MF	
R	33	57.11.3101	100 Ohm 1% MF	
R	34	57.11.3101	100 Ohm 1% MF	
R	35	57.11.3101	100 Ohm 1% MF	
R	36	57.11.3223	22 kOhm 1% MF	
R	37	57.11.3223	22 kOhm 1% MF	
R	38	57.11.3334	330 kOhm 1% MF	
R	39	57.11.3334	330 kOhm 1% MF	
R	44	57.11.3101	100 Ohm 1% MF	
R	45	57.92.1820	82 mA	PTC 42 Ohm
R	46	57.92.1820	82 mA	PTC 42 Ohm
R	47	57.92.1820	82 mA	PTC 42 Ohm
R	48	. . 0	not used	used in balance version only (57113134)

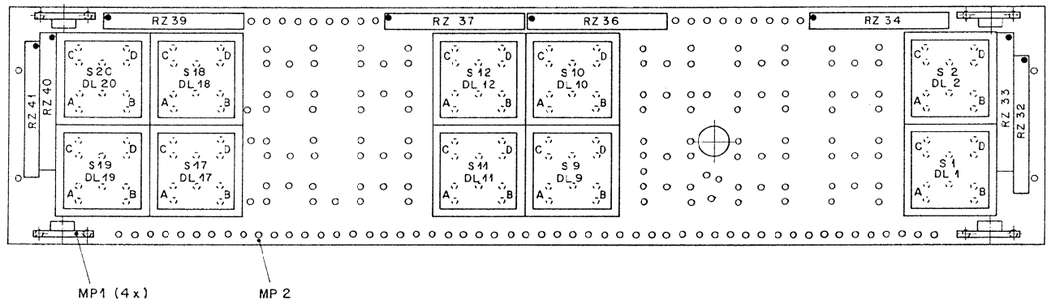
CR Monitor Control Unit 1.990.420.00

Ad	..POS..	...REF.No...			DESCRIPTION.....MANUFACTURER
	R....49	. . 0	not used		used in balance version only (57113134)
	R....50	. . 0	not used		used in balance version only (57113362)
	R....51	. . 0	not used		used in balance version only (57113473)
	R....52	57.11.3104	100 kOhm	1% MF	
	R....53	. . 0	not used		used in balance version only (57113363)
	R....54	. . 0	not used		used in balance version only (57113363)
	R....55	57.92.7016	1.6 A		R-PTC 0.22 Ohm
	W.....3	57.11.3000	0 Ohm		wire bridge RXTH to IC 2
	W.....4	57.11.3000	0 Ohm		wire bridge RXTH to W 3
	W.....8	57.11.3000	0 Ohm		wire bridge TXD to IC 7
	W.....9	57.11.3000	0 Ohm		wire bridge TXD to W 8
	W....10	57.11.3000	0 Ohm		wire bridge SERDAT #0 (INT 0)
	W....11	. . 0	not used		wire bridge SERDAT #1 INT 1 57113000
	W....12	. . 0	not used		wire bridge SERDAT #2 INT 2 57113000
	W....13	. . 0	not used		wire bridge SERDAT #3 INT 3 57113000
	W....14	. . 0	not used		wire bridge SERDAT #4 INT 4 57113000
	W....15	. . 0	not used		wire bridge SERDAT #5 INT 5 57113000
	W....16	. . 0	not used		wire bridge SERDAT #6 INT 6 57113000
	W....20	57.11.3000	0 Ohm		wire bridge SERDAT #0 (TSTB 0)
	W....21	. . 0	not used		wire bridge SERDAT #1 TSTB 1 57113000
	W....22	. . 0	not used		wire bridge SERDAT #2 TSTB 2 57113000
	W....23	. . 0	not used		wire bridge SERDAT #3 TSTB 3 57113000
	W....24	. . 0	not used		wire bridge SERDAT #4 TSTB 4 57113000
	W....25	. . 0	not used		wire bridge SERDAT #5 TSTB 5 57113000
	W....26	. . 0	not used		wire bridge SERDAT #6 TSTB 6 57113000
	W....30	57.11.3000	0 Ohm		wire bridge SERDAT #0 (RXD 0)
	W....31	. . 0	not used		wire bridge SERDAT #1 RXD 1 57113000
	W....32	. . 0	not used		wire bridge SERDAT #2 RXD 2 57113000
	W....33	. . 0	not used		wire bridge SERDAT #3 RXD 3 57113000
	W....34	. . 0	not used		wire bridge SERDAT #4 RXD 4 57113000
	W....35	. . 0	not used		wire bridge SERDAT #5 RXD 5 57113000
	W....36	. . 0	not used		wire bridge SERDAT #6 RXD 6 57113000
	W....45	57.11.3000	0 Ohm		wire bridge
	W....46	57.11.3000	0 Ohm		wire bridge
	W....47	57.11.3000	0 Ohm		wire bridge
	W....48	57.11.3000	0 Ohm		wire bridge
	W....51	57.11.3000	0 Ohm		wire bridge
	W....52	57.11.3000	0 Ohm		wire bridge
	W....53	57.11.3000	0 Ohm		wire bridge
	W....54	57.11.3000	0 Ohm		wire bridge
	W....81	57.11.3000	0 Ohm		wire bridge
	W....82	57.11.3000	0 Ohm		wire bridge
	W....83	57.11.3000	0 Ohm		wire bridge
	W....84	57.11.3000	0 Ohm		wire bridge
	W....91	57.11.3000	0 Ohm		wire bridge
	W....92	57.11.3000	0 Ohm		wire bridge
	W....93	57.11.3000	0 Ohm		wire bridge
	W....94	57.11.3000	0 Ohm		wire bridge
	W...120	. . 0	not used		used only for CR LEVEL -100dB...+0dB
	W...121	57.11.3000	0 Ohm		wire bridge CR LEVEL -100dB...+10dB
	W...124	. . 0	not used		only used for CR LEVEL -100dB...+40dB
	RZ....1	57.88.4104	100 kOhm	2%	resistor-network
	RZ....2	57.88.4104	100 kOhm	2%	resistor-network
	RZ....5	57.88.2682	6.8 kOhm	2%	resistor-network
	RZ....6	57.88.4104	100 kOhm	2%	resistor-network
	RZ....7	57.88.2682	6.8 kOhm	2%	resistor-network
	RZ....9	57.88.4104	100 kOhm	2%	resistor-network
	RZ...10	57.88.2682	6.8 kOhm	2%	resistor-network
	RZ...15	57.88.4104	100 kOhm	2%	resistor-network

CE=Ceramic, PE=Polyester
MF=Metal Film

1.990.420.00 CR MONITOR CONTROL UNIT SCA90/12/0500

CR Monitor Switch Board 1.990.429.00



Änderung						③
						②
						①
Ausgabe	6.3.90	WW	SCA	W		⓪
	Datum	Gez.	Gepr.	Gen.		Index

Kopie für:

STUDER REGENSDORF ZÜRICH	Benennung: CR MONITOR SWITCH BOARD	Nummer: 1.990.429-00

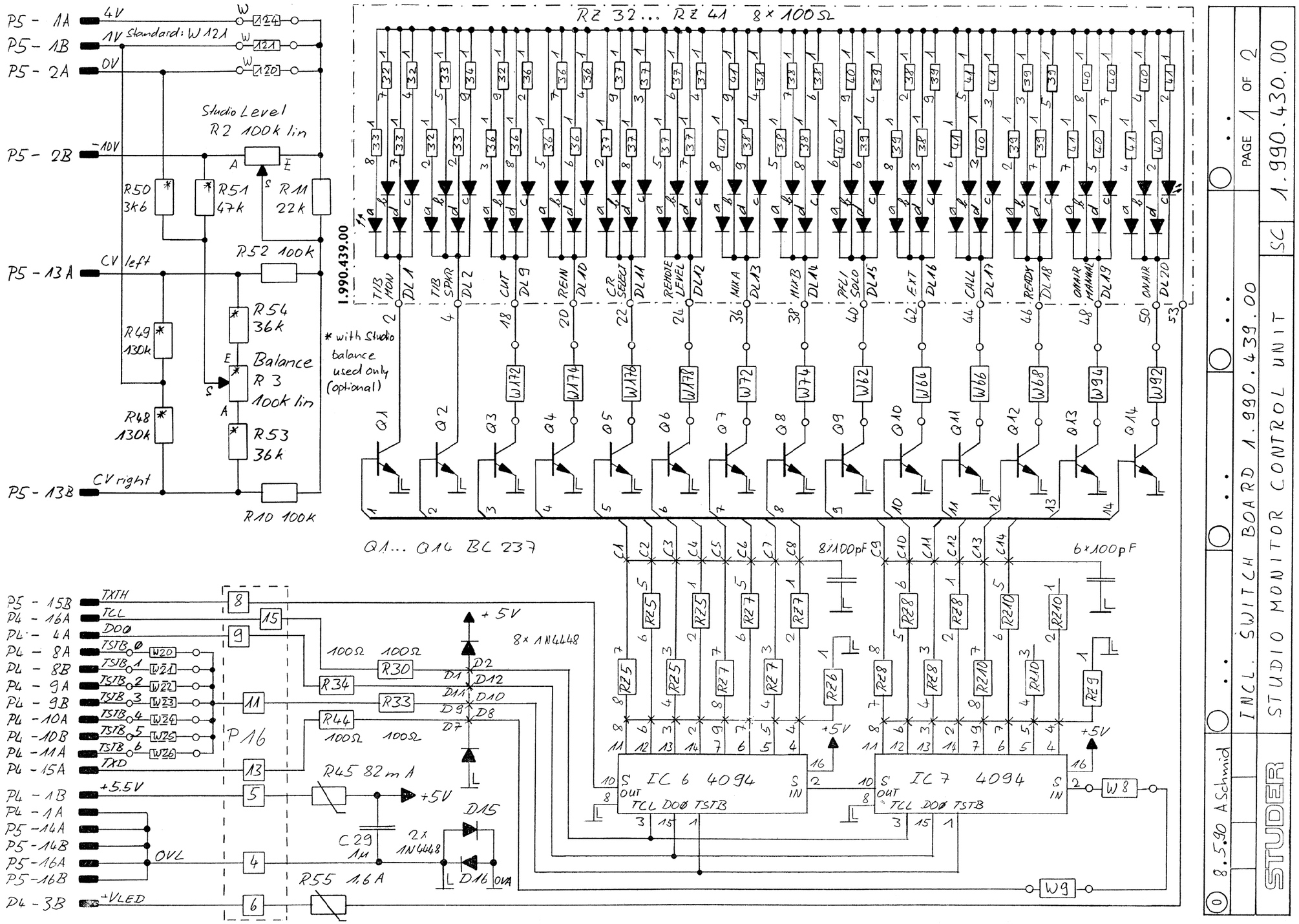
Ad	..POS..	...REF.No...			DESCRIPTION.....MANUFACTURER
	DL....1	. . 0	not used		see S 01
	DL....2	. . 0	not used		see S 02
	DL....9	. . 0	not used		see S 09
	DL...10	. . 0	not used		see S 10
	DL...11	. . 0	not used		see S 11
	DL...12	. . 0	not used		see S 12
	DL...17	. . 0	not used		see S 17
	DL...18	. . 0	not used		see S 18
	DL...19	. . 0	not used		see S 19
	DL...20	. . 0	not used		see S 20
	MP....1	1.990.100.05	4 pcs		Querprinthalter
	MP....2	1.990.429.11	1 pcs		CR MONITOR SWITCH PCB
	MP....3	1.990.429.04	1 pcs		Nr-Etikette
	S.....1	55.15.0702			Taste 1*A,12mm RT/Trans CH I CUT
	S.....2	55.15.0702			Taste 1*A,12mm RT/Trans CH II CUT
	S.....9	55.15.0722			Taste 1*A,12mm RT/RT DIM - 20dB
	S....10	55.15.0705			Taste 1*A,12mm GN/Trans MONO
	S....11	55.15.0705			Taste 1*A,12mm GN/Trans Kanalvert.
	S....12	55.15.0705			Taste 1*A,12mm GN/Trans CH I Phase
	S....17	55.15.0704			Taste 1*A,12mm GB/Trans speaker ALT.
	S....18	55.15.0704			Taste 1*A,12mm GB/Trans speaker MINI
	S....19	55.15.0704			Taste 1*A,12mm GB/Trans speaker I
	S....20	55.15.0704			Taste 1*A,12mm GB/Trans speaker II
	RZ...32	57.88.4101	100 Ohm	2% ,8*	
	RZ...33	57.88.4101	100 Ohm	2% ,8*	
	RZ...34	57.88.4101	100 Ohm	2% ,8*	
	RZ...35	57.88.4101	100 Ohm	2% ,8*	
	RZ...37	57.88.4101	100 Ohm	2% ,8*	
	RZ...39	57.88.4101	100 Ohm	2% ,8*	
	RZ...40	57.88.4101	100 Ohm	2% ,8*	
	RZ...41	57.88.4101	100 Ohm	2% ,8*	

CER=Ceramic, PE=Polyester
MF=Metal Film, PMG=Cermet

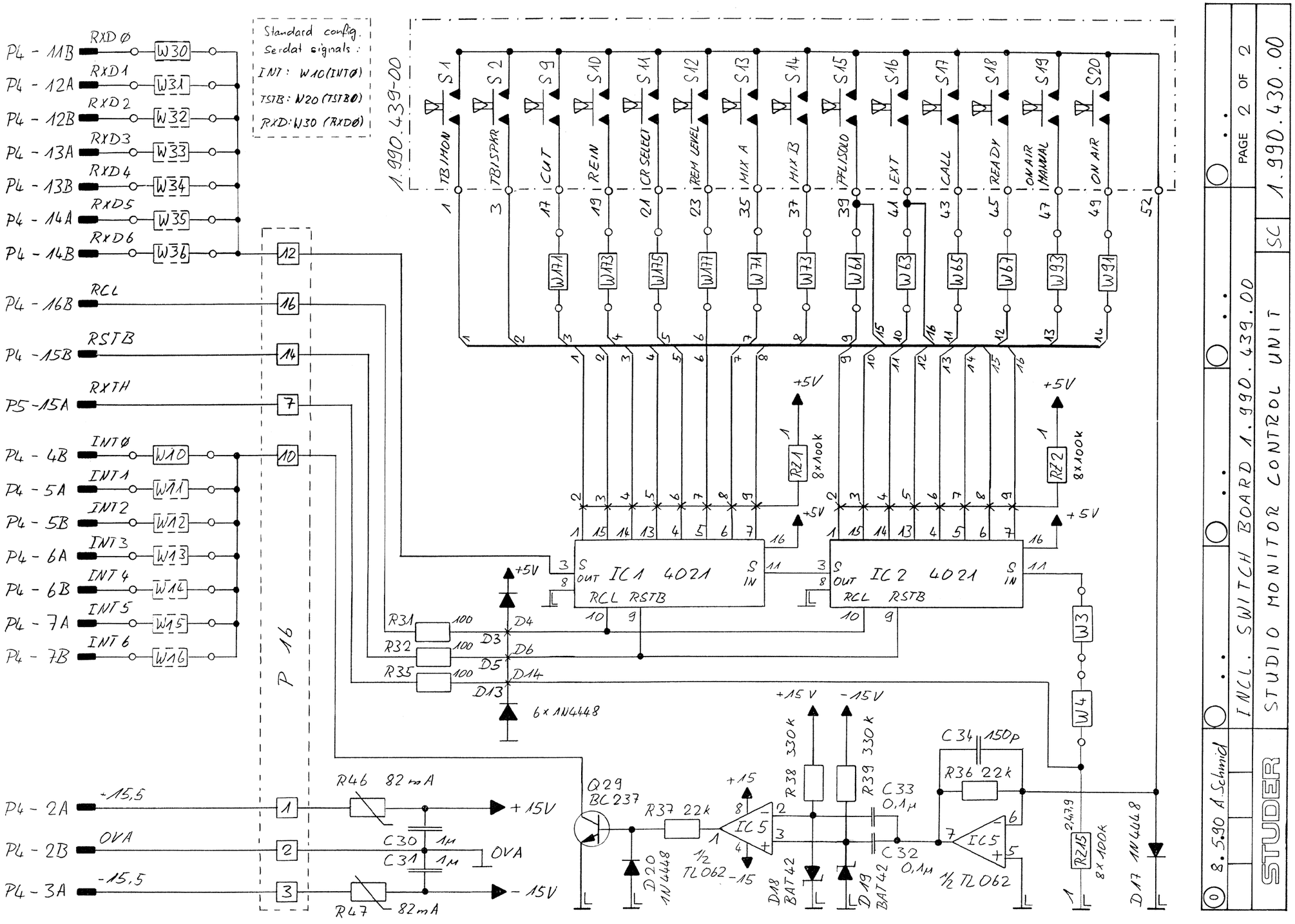
MANUFACTURER: Ex=Exar, NEC=Nippon Electric Corp., Ph=Philips, Ra=Raytheon, Sig=Signetics, St=Studer.

1.990.429.00 CR MONITOR SWITCH BOARD SCA88/12/1600

Studio Monitor Control Unit 1.990.430.00
- Studio Monitor Switch Board 1.990.439.00



Studio Monitor Control Unit 1.990.430.00
- Studio Monitor Switch Board 1.990.439.00

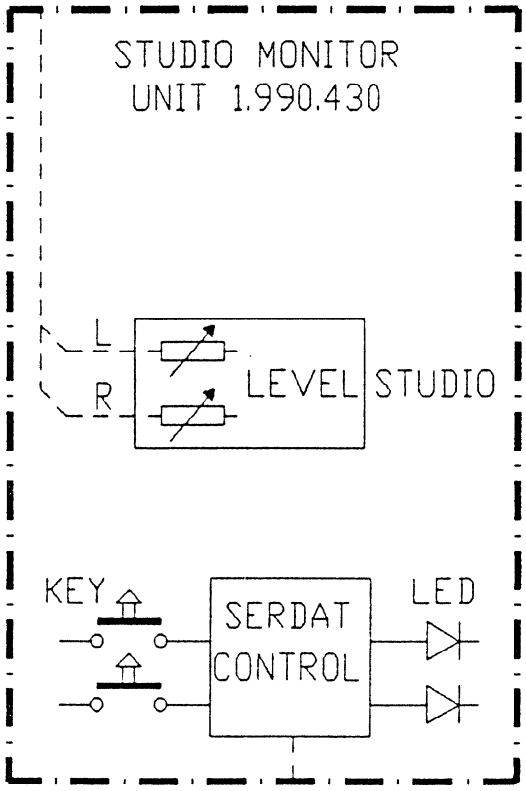


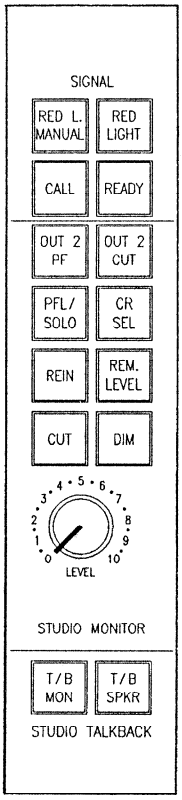
8.590 A.Schmid	INCL. SWITCH BOARD 1.990.439.00	SC	1.990.430.00
	STUDIO MONITOR CONTROL UNIT	PAGE 2 OF 2	
STUDER			

Pin Location List
CR Monitor Control Unit 1.990.420.00

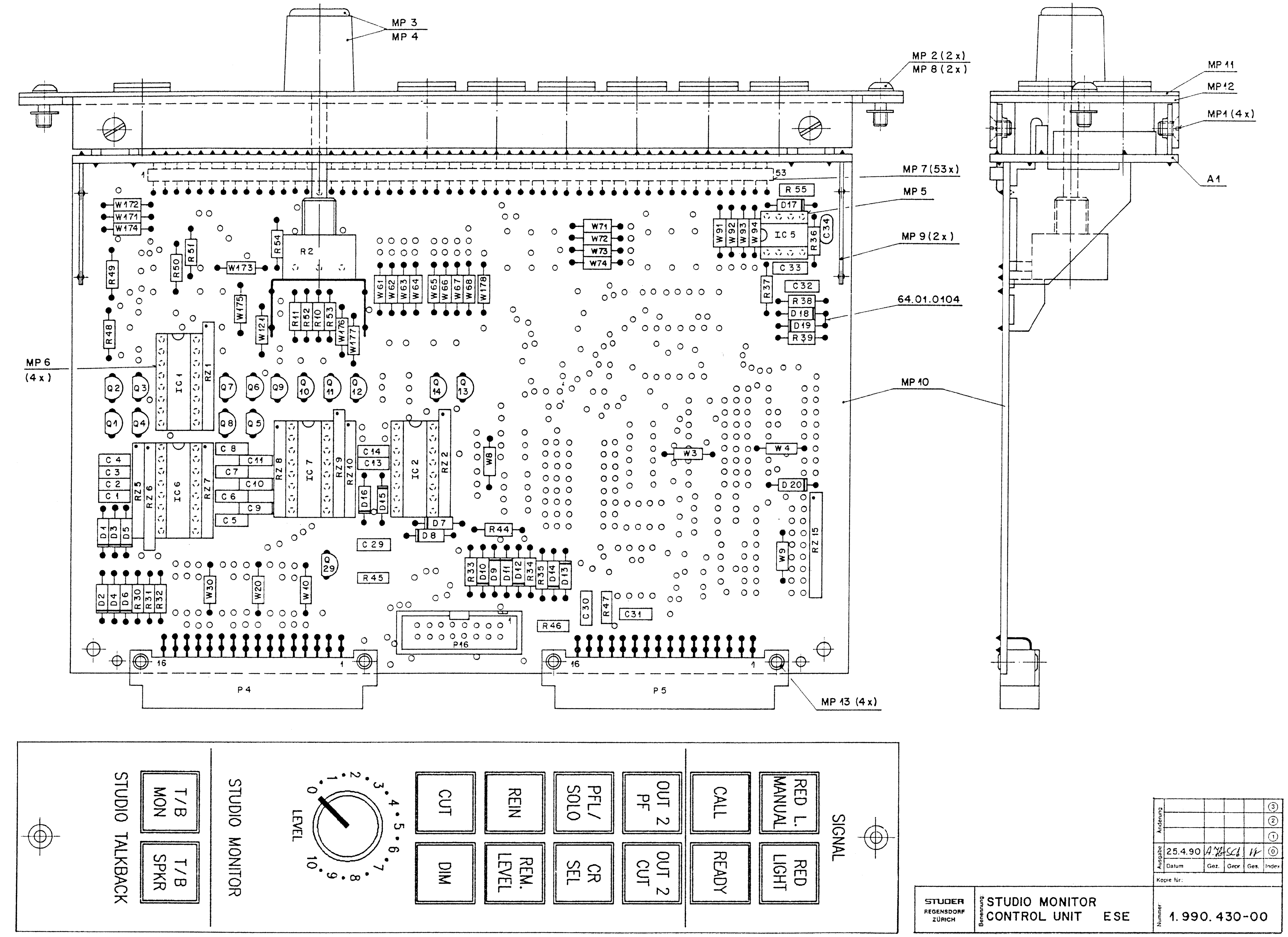
P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC	
P4	01A	0V-L	GROUND SIGN (LOGIC)	B	
P4	01B	+ 5.5V	+ SUPPLY	B	
P4	02A	+ 15.5V	+ SUPPLY	B	
P4	02B	0V-A	GROUND AUDIO	B	
P4	03A	- 15.5V	- SUPPLY	B	
P4	03B	+3..4V LED	LED SUPPLY VARIABLE +3...4V	B	
P4	04A	DO 0	DATA OUT 0 (ENABLE)		
P4	04B	INT 0	INTERUPT 0		
P4	05A	INT 1	INTERUPT 1		
P4	05B	INT 2	INTERUPT 2		
P4	06A	INT 3	INTERUPT 3		
P4	06B	INT 4	INTERUPT 4		
P4	07A	INT 5	INTERUPT 5		
P4	07B	INT 6	INTERUPT 6		
P4	08A	TSTB 0	TRANSMIT STROBE 0		
P4	08B	TSTB 1	TRANSMIT STROBE 1		
P4	09A	TSTB 2	TRANSMIT STROBE 2		
P4	09B	TSTB 3	TRANSMIT STROBE 3		
P4	10A	TSTB 4	TRANSMIT STROBE 4		
P4	10B	TSTB 5	TRANSMIT STROBE 5		
P4	11A	TSTB 6	TRANSMIT STROBE 6		
P4	11B	RXD 0	RECEIVE DATA 0		
P4	12A	RXD 1	RECEIVE DATA 1		
P4	12B	RXD 2	RECEIVE DATA 2		
P4	13A	RXD 3	RECEIVE DATA 3		
P4	13B	RXD 4	RECEIVE DATA 4		
P4	14A	RXD 5	RECEIVE DATA 5		
P4	14B	RXD 6	RECEIVE DATA 6		
P4	15A	TXD	TRANSMIT DATA		
P4	15B	RSTB	RECEIVE STROBE		
P4	16A	TCL	TRANSMIT CLOCK		
P4	16B	RCL	RECEIVE CLOCK		
P5	01A	+4V	CONTROL VOLTAGE VCA		
P5	01B	+1V	CONTROL VOLTAGE VCA		
P5	02A	0V	CONTROL VOLTAGE VCA		
P5	02B	-10V	CONTROL VOLTAGE VCA		
P5	03A	-	N.C.		
P5	03B	-	N.C.		
P5	04A	-	N.C.		
P5	04B	-	N.C.		
P5	05A	-	N.C.		
P5	05B	-	N.C.		
P5	06A	-	N.C.		
P5	06B	-	N.C.		
P5	07A	-	N.C.		
P5	07B	-	N.C.		
P5	08A	-	N.C.		
P5	08B	-	N.C.		
P5	09A	-	N.C.		
P5	09B	-	N.C.		
P5	10A	-	N.C.		
P5	10B	-	N.C.		
P5	11A	-	N.C.		
P5	11B	-	N.C.		
P5	12A	-	N.C.		
P5	12B	-	N.C.		
P5	13A	CV-CR-L	CTRL.VOLTAGE CR LEVEL LEFT		
P5	13B	CV-CR-R	CTRL.VOLTAGE CR LEVEL RIGHT		
P5	14	0V-L	GROUND SIGN (LOGIC)	B	X X
P5	15A	RXTH	RECEIVE DATA THROUGH		
P5	15B	TXTH	TRANSMIT DATA THROUGH		
P5	16	0V-L	GROUND SIGN (LOGIC)	B	X X

Studio Monitor Control Unit 1.990.430.00





Studio Monitor Control Unit 1.990.430.00



Ad	..POS..	...REF.No...	DESCRIPTION		....MANUFACTURER
	A.....1	1.990.439.00		STUDIO MONITOR SWITCH BOARD	
	C.....1	59.34.4101	100 pF	CE	
	C.....2	59.34.4101	100 pF	CE	
	C.....3	59.34.4101	100 pF	CE	
	C.....4	59.34.4101	100 pF	CE	
	C.....5	59.34.4101	100 pF	CE	
	C.....6	59.34.4101	100 pF	CE	
	C.....7	59.34.4101	100 pF	CE	
	C.....8	59.34.4101	100 pF	CE	
	C.....9	59.34.4101	100 pF	CE	
	C....10	59.34.4101	100 pF	CE	
	C....11	59.34.4101	100 pF	CE	
	C....12	59.34.4101	100 pF	CE	
	C....13	59.34.4101	100 pF	CE	
	C....14	59.34.4101	100 pF	CE	
	C....29	59.06.0104	100 nF	PE	
	C....30	59.06.0104	100 nF	PE	
	C....31	59.06.0104	100 nF	PE	
	C....32	59.06.0104	100 nF	PE	
	C....33	59.06.0104	100 nF	PE	
	C....34	59.34.7151	150 pF	CE	
	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	50.04.0125	1N4448		
	D.....9	50.04.0125	1N4448		
	D....10	50.04.0125	1N4448		
	D....11	50.04.0125	1N4448		
	D....12	50.04.0125	1N4448		
	D....13	50.04.0125	1N4448		
	D....14	50.04.0125	1N4448		
	D....15	50.04.0125	1N4448		
	D....16	50.04.0125	1N4448		
	D....17	50.04.0125	1N4448		
	D....18	50.04.0127	BAT 42		
	D....19	50.04.0127	BAT 42		
	D....20	50.04.0125	1N4448		
	IC....1	50.07.1021	CD4021	8-bit static shift register	
	IC....2	50.07.1021	CD4021	8-bit static shift register	
	IC....5	50.09.0119	TL 062	J FET dual op. amp.	
	IC....6	50.07.0018	CD4094	shift and store bus register	
	IC....7	50.07.0018	CD4094	shift and store bus register	
	MP....1	21.01.2352	4 pcs	S-Schr. M3*4	
	MP....2	24.16.3023	2 pcs	Wellensicherung 3mm	
	MP....3	42.01.0233	1 pcs	Knebelknopf D15/4 grau	
	MP....4	42.01.0257	1 pcs	Deckel hellgrau	
	MP....5	53.03.0166	1 pcs	IC-Socket 8-pol	
	MP....6	53.03.0168	4 pcs	IC-Socket 16-pol	
	MP....7	54.11.0125	53 pcs	Stiftenleiste winkel	
	MP....8	1.010.022.21	2 pcs	Linsenschraube IS M3*8	
	MP....9	1.990.100.01	2 pcs	Querprintstuetze	
	MP...10	1.990.420.11	1 pcs	CR-MONITOR PCB	
	MP...11	1.990.430.01	1 pcs	Frontschild STUDIO MONITOR CONTROL	
	MP...12	1.990.490.02	1 pcs	Traeger Source Selector	
	MP...13	28.99.0119	4 pcs	Rohrniete D 2.5*0.15*10	
	MP...14	43.01.0108	1 pcs	ESE-Schild	
	MP...15	1.990.430.04	1 pcs	Studer-Nr-Etikette 10*20	
	Q.....1	50.03.0436	BC 237		
	Q.....2	50.03.0436	BC 237		
	Q.....3	50.03.0436	BC 237		
	Q.....4	50.03.0436	BC 237		
	Q.....5	50.03.0436	BC 237		
	Q.....6	50.03.0436	BC 237		
	Q.....7	50.03.0436	BC 237		
	Q.....8	50.03.0436	BC 237		
	Q.....9	50.03.0436	BC 237		
	Q....10	50.03.0436	BC 237		
	Q....11	50.03.0436	BC 237		
	Q....12	50.03.0436	BC 237		
	Q....13	50.03.0436	BC 237		
	Q....14	50.03.0436	BC 237		
	Q....29	50.03.0436	BC 237		
	P.....1	. . 0	not used	see MP 7	
	P.....2	54.14.2002	16 pin	PCB ribbon connector	
	P.....4	54.11.2013	2*16 pin	eurocard-connector	
	P.....5	54.11.2013	2*16 pin	eurocard-connector	
	R.....2	1.010.039.58	100 k	Poti 20% lin (only used without balance)	
	R.....3	. . 0	not used	used in balance version only (1.010.032-56)	
	R....10	57.11.3104	100 kOhm	1% MF	
	R....11	57.11.3223	22 kOhm	1% MF	
	R....30	57.11.3101	100 Ohm	1% MF	
	R....31	57.11.3101	100 Ohm	1% MF	
	R....32	57.11.3101	100 Ohm	1% MF	
	R....33	57.11.3101	100 Ohm	1% MF	
	R....34	57.11.3101	100 Ohm	1% MF	
	R....35	57.11.3101	100 Ohm	1% MF	
	R....36	57.11.3223	22 kOhm	1% MF	
	R....37	57.11.3223	22 kOhm	1% MF	

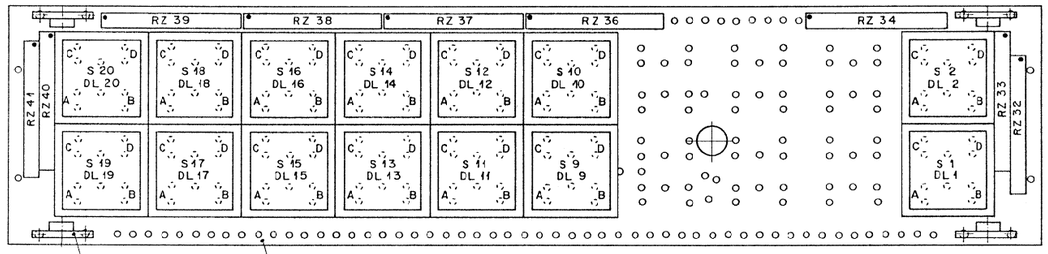
Studio Monitor Control Unit 1.990.430.00

Ad	..POS..	...REF.No...	DESCRIPTION			MANUFACTURER
	R....38	57.11.3334	330 kOhm	1%	MF	
	R....39	57.11.3334	330 kOhm	1%	MF	
	R....44	57.11.3101	100 Ohm	1%	MF	
	R....45	57.92.1820	82 mA	PTC 42 Ohm		
	R....46	57.92.1820	82 mA	PTC 42 Ohm		
	R....47	57.92.1820	82 mA	PTC 42 Ohm		
	R....48	. . 0	not used	used in balance version only (57113134)		
	R....49	. . 0	not used	used in balance version only (57113134)		
	R....50	. . 0	not used	used in balance version only (57113362)		
	R....51	. . 0	not used	used in balance version only (57113473)		
	R....52	57.11.3104	100 kOhm	1%	MF	
	R....53	. . 0	not used	used in balance version only (57113363)		
	R....54	. . 0	not used	used in balance version only (57113363)		
	R....55	57.92.7016	1.6 A	R-PTC 0.22 Ohm		
	W.....3	57.11.3000	0 Ohm	wire bridge RXTH to IC 2		
	W.....4	57.11.3000	0 Ohm	wire bridge RXTH to W 3		
	W.....8	57.11.3000	0 Ohm	wire bridge TXD to IC 7		
	W.....9	57.11.3000	0 Ohm	wire bridge TXD to W 8		
	W....10	57.11.3000	0 Ohm	wire bridge SERDAT #0 (INT 0)		
	W....11	. . 0	not used	wire bridge SERDAT #1 INT 1 57113000		
	W....12	. . 0	not used	wire bridge SERDAT #2 INT 2 57113000		
	W....13	. . 0	not used	wire bridge SERDAT #3 INT 3 57113000		
	W....14	. . 0	not used	wire bridge SERDAT #4 INT 4 57113000		
	W....15	. . 0	not used	wire bridge SERDAT #5 INT 5 57113000		
	W....16	. . 0	not used	wire bridge SERDAT #6 INT 6 57113000		
	W....20	57.11.3000	0 Ohm	wire bridge SERDAT #0 (TSTB 0)		
	W....21	. . 0	not used	wire bridge SERDAT #1 TSTB 1 57113000		
	W....22	. . 0	not used	wire bridge SERDAT #2 TSTB 2 57113000		
	W....23	. . 0	not used	wire bridge SERDAT #3 TSTB 3 57113000		
	W....24	. . 0	not used	wire bridge SERDAT #4 TSTB 4 57113000		
	W....25	. . 0	not used	wire bridge SERDAT #5 TSTB 5 57113000		
	W....26	. . 0	not used	wire bridge SERDAT #6 TSTB 6 57113000		
	W....30	57.11.3000	0 Ohm	wire bridge SERDAT #0 (RXD 0)		
	W....31	. . 0	not used	wire bridge SERDAT #1 RXD 1 57113000		
	W....32	. . 0	not used	wire bridge SERDAT #2 RXD 2 57113000		
	W....33	. . 0	not used	wire bridge SERDAT #3 RXD 3 57113000		
	W....34	. . 0	not used	wire bridge SERDAT #4 RXD 4 57113000		
	W....35	. . 0	not used	wire bridge SERDAT #5 RXD 5 57113000		
	W....36	. . 0	not used	wire bridge SERDAT #6 RXD 6 57113000		
	W....61	57.11.3000	0 Ohm	wire bridge		
	W....62	57.11.3000	0 Ohm	wire bridge		
	W....63	57.11.3000	0 Ohm	wire bridge		
	W....64	57.11.3000	0 Ohm	wire bridge		
	W....65	57.11.3000	0 Ohm	wire bridge		
	W....66	57.11.3000	0 Ohm	wire bridge		
	W....67	57.11.3000	0 Ohm	wire bridge		
	W....68	57.11.3000	0 Ohm	wire bridge		
	W....71	57.11.3000	0 Ohm	wire bridge		
	W....72	57.11.3000	0 Ohm	wire bridge		
	W....73	57.11.3000	0 Ohm	wire bridge		
	W....74	57.11.3000	0 Ohm	wire bridge		
	W....91	57.11.3000	0 Ohm	wire bridge		
	W....92	57.11.3000	0 Ohm	wire bridge		
	W....93	57.11.3000	0 Ohm	wire bridge		
	W....94	57.11.3000	0 Ohm	wire bridge		
	W...171	57.11.3000	0 Ohm	wire bridge		
	W...172	57.11.3000	0 Ohm	wire bridge		
	W...173	57.11.3000	0 Ohm	wire bridge		
	W...174	57.11.3000	0 Ohm	wire bridge		
	W...175	57.11.3000	0 Ohm	wire bridge		
	W...176	57.11.3000	0 Ohm	wire bridge		
	W...177	57.11.3000	0 Ohm	wire bridge		
	W...178	57.11.3000	0 Ohm	wire bridge		
	W...120	. . 0	not used	used only for CR LEVEL -100dB...+0dB		
	W...121	57.11.3000	0 Ohm	wire bridge CR LEVEL -100dB...+10dB		
	W...124	. . 0	not used	only used for CR LEVEL -100dB...+40dB		
	RZ....1	57.88.4104	100 kOhm	2%	resistor-network	
	RZ....2	57.88.4104	100 kOhm	2%	resistor-network	
	RZ....5	57.88.2682	6.8 kOhm	2%	resistor-network	
	RZ....6	57.88.4104	100 kOhm	2%	resistor-network	
	RZ....7	57.88.2682	6.8 kOhm	2%	resistor-network	
	RZ....8	57.88.2682	6.8 kOhm	2%	resistor-network	
	RZ....9	57.88.4104	100 kOhm	2%	resistor-network	
	RZ...10	57.88.2682	6.8 kOhm	2%	resistor-network	
	RZ...15	57.88.4104	100 kOhm	2%	resistor-network	

CE=Ceramic, PE=Polyester
MF=Metal Film

1.990.430.00 STUDIO MONITOR CONTROL UNIT SCA90/12/0500

Studio Monitor Switch Board 1.990.439.00



Änderung					
Ausgabe	6.3.90				
	Datum	Gez.	Gepr.	Ges.	Index

Kopie für:

STUDER REGENSDORF ZÜRICH | Benennung: STUDIO MONITOR SWITCH BOARD | Nummer: 1.990.439-00

Ad	..POS..	...REF.No...	DESCRIPTION			MANUFACTURER
	DL....1	. . 0	not used	see S 01		
	DL....2	. . 0	not used	see S 02		
	DL....9	. . 0	not used	see S 09		
	DL...10	. . 0	not used	see S 10		
	DL...11	. . 0	not used	see S 11		
	DL...12	. . 0	not used	see S 12		
	DL...13	. . 0	not used	see S 13		
	DL...14	. . 0	not used	see S 14		
	DL...15	. . 0	not used	see S 15		
	DL...16	. . 0	not used	see S 16		
	DL...17	. . 0	not used	see S 17		
	DL...18	. . 0	not used	see S 18		
	DL...19	. . 0	not used	see S 19		
	DL...20	. . 0	not used	see S 20		
	MP....1	1.990.100.05	4 pcs	Querprinthalter		
	MP....2	1.990.429.11	1 pcs	CR MONITOR SWITCH PCB		
	MP....3	1.990.439.04	1 pcs	Nr-Etikette 5*20		
	S.....1	55.15.0722		Taste 1*A,12mm RT/RT	T/B MON	
	S.....2	55.15.0722		Taste 1*A,12mm RT/RT	T/B SPKR	
	S.....9	55.15.0702		Taste 1*A,12mm RT/Trans	CUT	
	S....10	55.15.0705		Taste 1*A,12mm GN/Trans	REIN	
	S....11	55.15.0704		Taste 1*A,12mm GB/Trans	CR SELECT	
	S....12	55.15.0705		Taste 1*A,12mm GN/Trans	REMOTE LEVEL	
	S....13	55.15.0704		Taste 1*A,12mm GB/Trans	MIX A	
	S....14	55.15.0704		Taste 1*A,12mm GB/Trans	MIX B	
	S....15	55.15.0704		Taste 1*A,12mm GB/Trans	PFL/SOLO	
	S....16	55.15.0704		Taste 1*A,12mm GB/Trans	EXT.	
	S....17	55.15.0704		Taste 1*A,12mm GB/Trans	CALL	
	S....18	55.15.0705		Taste 1*A,12mm GN/Trans	READY	
	S....19	55.15.0702		Taste 1*A,12mm RT/Trans	ON AIR MANUAL	
	S....20	55.15.0722		Taste 1*A,12mm RT/RT	ON AIR	
	RZ...32	57.88.4101	100 Ohm	2% ,8*		
	RZ...33	57.88.4101	100 Ohm	2% ,8*		
	RZ...34	57.88.4101	100 Ohm	2% ,8*		
	RZ...36	57.88.4101	100 Ohm	2% ,8*		
	RZ...37	57.88.4101	100 Ohm	2% ,8*		
	RZ...38	57.88.4101	100 Ohm	2% ,8*		
	RZ...39	57.88.4101	100 Ohm	2% ,8*		
	RZ...40	57.88.4101	100 Ohm	2% ,8*		
	RZ...41	57.88.4101	100 Ohm	2% ,8*		

CER=Ceramic, PE=Polyester
MF=Metal Film, PMG=Cermet

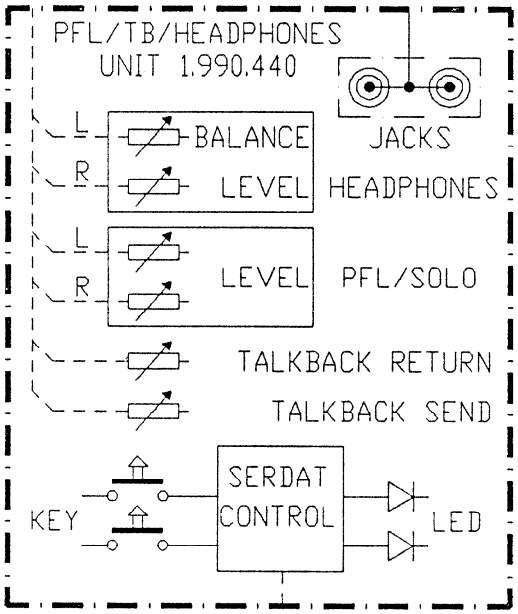
MANUFACTURER: Ex=Exar, MEC=Nippon Electric Corp., Ph=Philips,
Sig=Signetics, St=Studer.

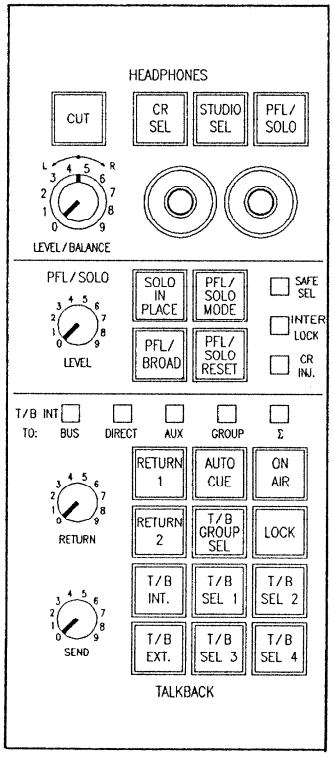
1.990.439.00 STUDIO MONITOR SWITCH BOARD SCA89/07/0500

Pin Location List
Studio Monitor Control Unit 1.990.430.00

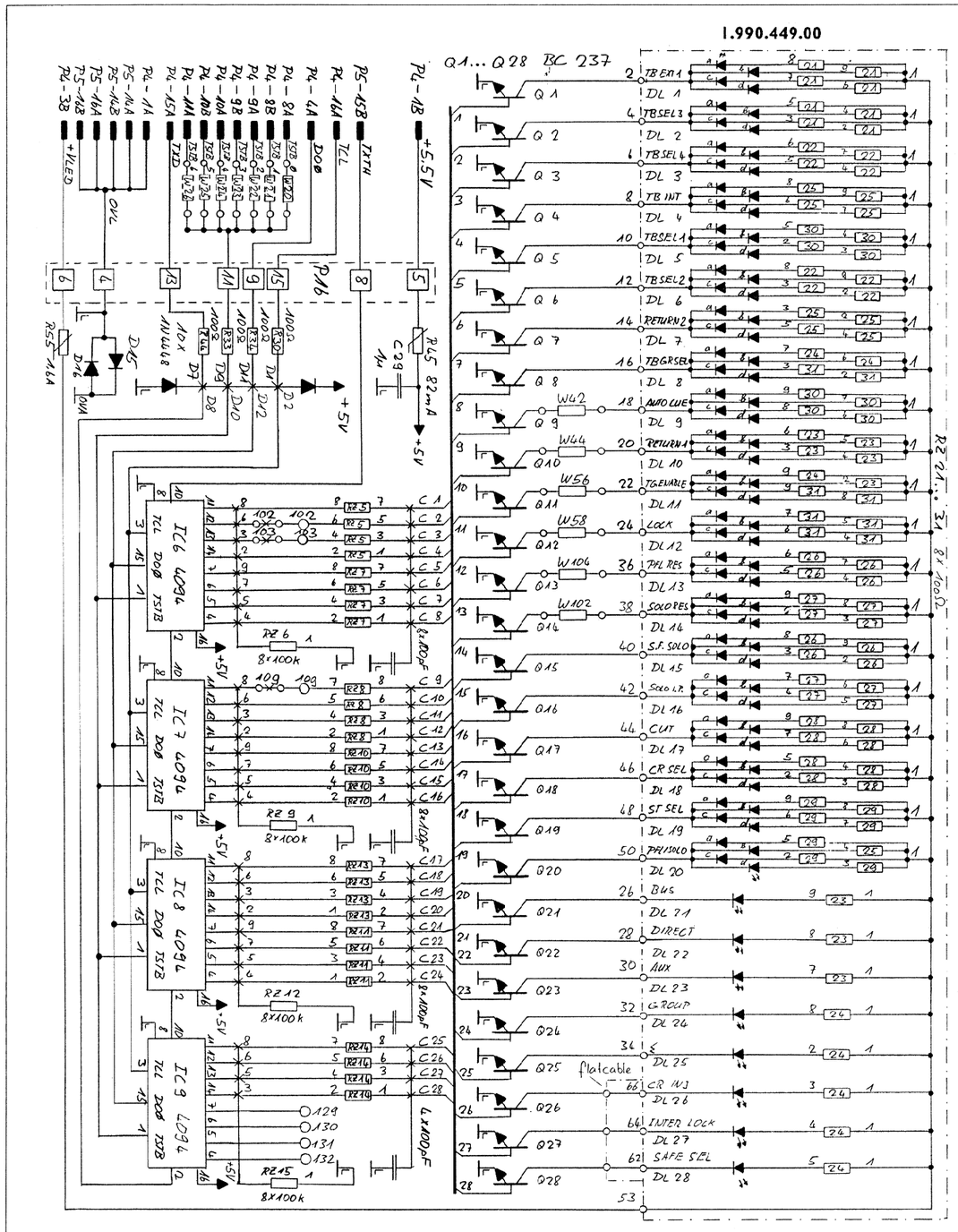
P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC	
P4	01A	0V-L	GROUND SIGN (LOGIC)	B	
P4	01B	+ 5.5V	+ SUPPLY	B	
P4	02A	+ 15.5V	+ SUPPLY	B	
P4	02B	0V-A	GROUND AUDIO	B	
P4	03A	- 15.5V	- SUPPLY	B	
P4	03B	+3..4V LED	LED SUPPLY VARIABLE +3...4V	B	
P4	04A	DO 0	DATA OUT.0 (ENABLE)		
P4	04B	INT 0	INTERUPT 0		
P4	05A	INT 1	INTERUPT 1		
P4	05B	INT 2	INTERUPT 2		
P4	06A	INT 3	INTERUPT 3		
P4	06B	INT 4	INTERUPT 4		
P4	07A	INT 5	INTERUPT 5		
P4	07B	INT 6	INTERUPT 6		
P4	08A	TSTB 0	TRANSMIT STROBE 0		
P4	08B	TSTB 1	TRANSMIT STROBE 1		
P4	09A	TSTB 2	TRANSMIT STROBE 2		
P4	09B	TSTB 3	TRANSMIT STROBE 3		
P4	10A	TSTB 4	TRANSMIT STROBE 4		
P4	10B	TSTB 5	TRANSMIT STROBE 5		
P4	11A	TSTB 6	TRANSMIT STROBE 6		
P4	11B	RXD 0	RECEIVE DATA 0		
P4	12A	RXD 1	RECEIVE DATA 1		
P4	12B	RXD 2	RECEIVE DATA 2		
P4	13A	RXD 3	RECEIVE DATA 3		
P4	13B	RXD 4	RECEIVE DATA 4		
P4	14A	RXD 5	RECEIVE DATA 5		
P4	14B	RXD 6	RECEIVE DATA 6		
P4	15A	TXD	TRANSMIT DATA		
P4	15B	RSTB	RECEIVE STROBE		
P4	16A	TCL	TRANSMIT CLOCK		
P4	16B	RCL	RECEIVE CLOCK		
P5	01A	+4V	CONTROL VOLTAGE VCA		
P5	01B	+1V	CONTROL VOLTAGE VCA		
P5	02A	0V	CONTROL VOLTAGE VCA		
P5	02B	-10V	CONTROL VOLTAGE VCA		
P5	03A	-	N.C.		
P5	03B	-	N.C.		
P5	04A	-	N.C.		
P5	04B	-	N.C.		
P5	05A	-	N.C.		
P5	05B	-	N.C.		
P5	06A	-	N.C.		
P5	06B	-	N.C.		
P5	07A	-	N.C.		
P5	07B	-	N.C.		
P5	08A	-	N.C.		
P5	08B	-	N.C.		
P5	09A	-	N.C.		
P5	09B	-	N.C.		
P5	10A	-	N.C.		
P5	10B	-	N.C.		
P5	11A	-	N.C.		
P5	11B	-	N.C.		
P5	12A	-	N.C.		
P5	12B	-	N.C.		
P5	13A	CV-STUDIO-L	CTRL.VOLT.STUDIO LEVEL LEFT		
P5	13B	CV-STUDIO-R	CTRL.VOLT.STUDIO LEVEL RIGHT		
P5	14	0V-L	GROUND SIGN (LOGIC)	B	X X
P5	15A	RXTH	RECEIVE DATA THROUGH		
P5	15B	TXTH	TRANSMIT DATA THROUGH		
P5	16	0V-L	GROUND SIGN (LOGIC)	B	X X

PFL / Talk Back / Headphone Unit 1.990.440.00

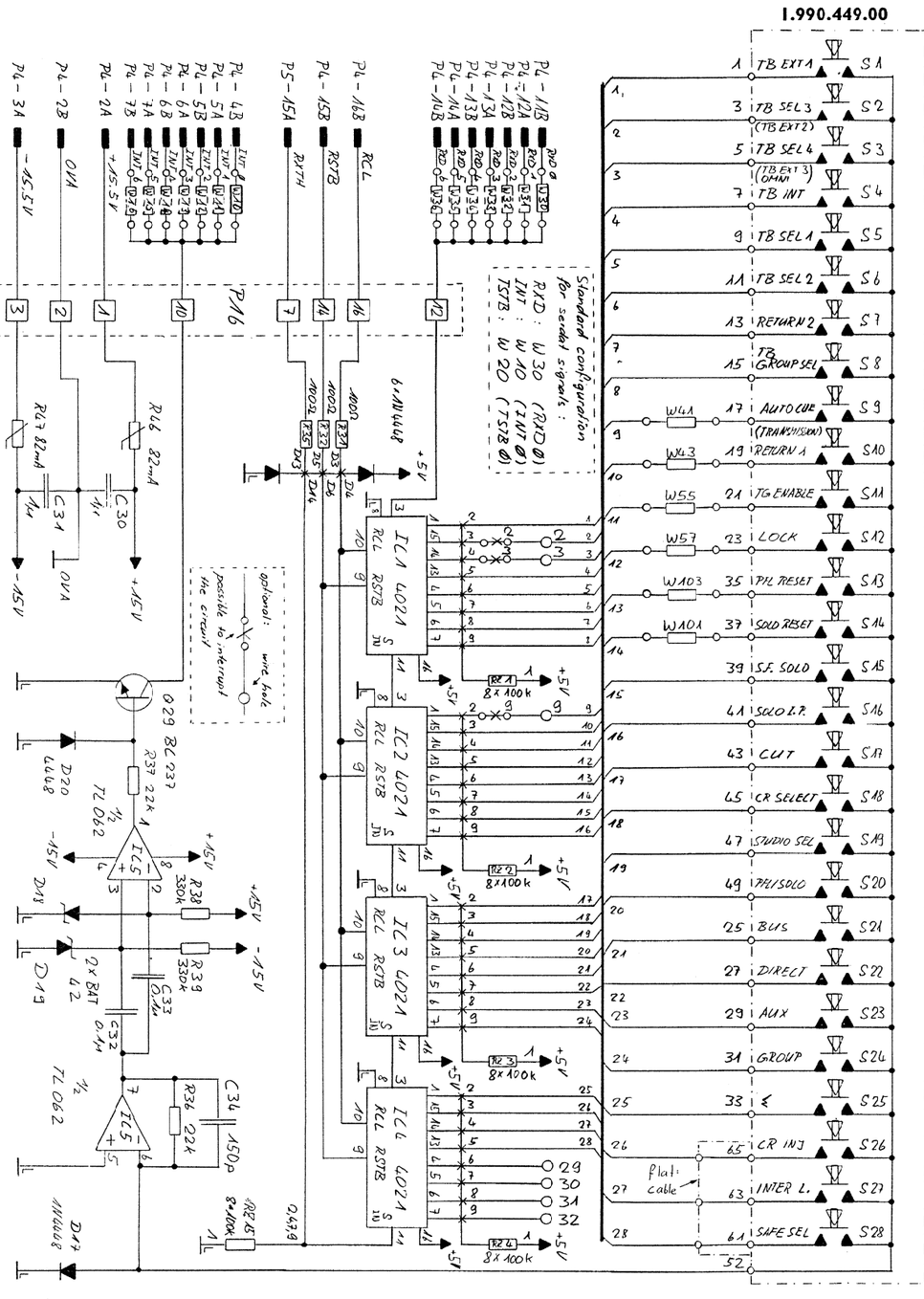




PFL / Talk Back / Headphone Unit 1.990.440.00
- PFL / TB / Headphone Switch Board 1.990.449.00

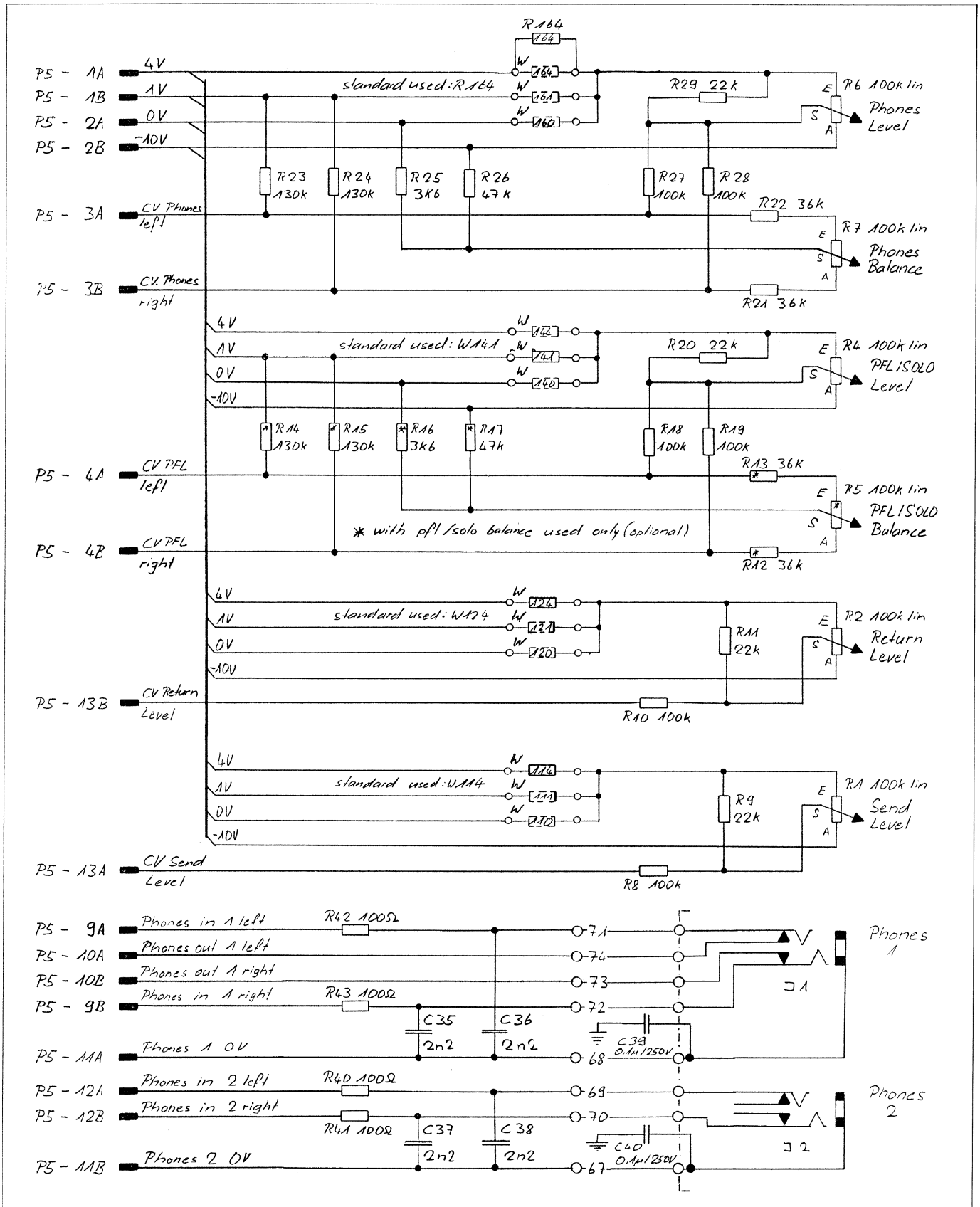


0 15.5.90 A.Schmid	..	..	..	..
	INCL SWITCH BOARD 1.990.449.00			PAGE 1 OF 3
STUDER	PFL/TB/HEADPHONE UNIT		SC	1.990.440.00



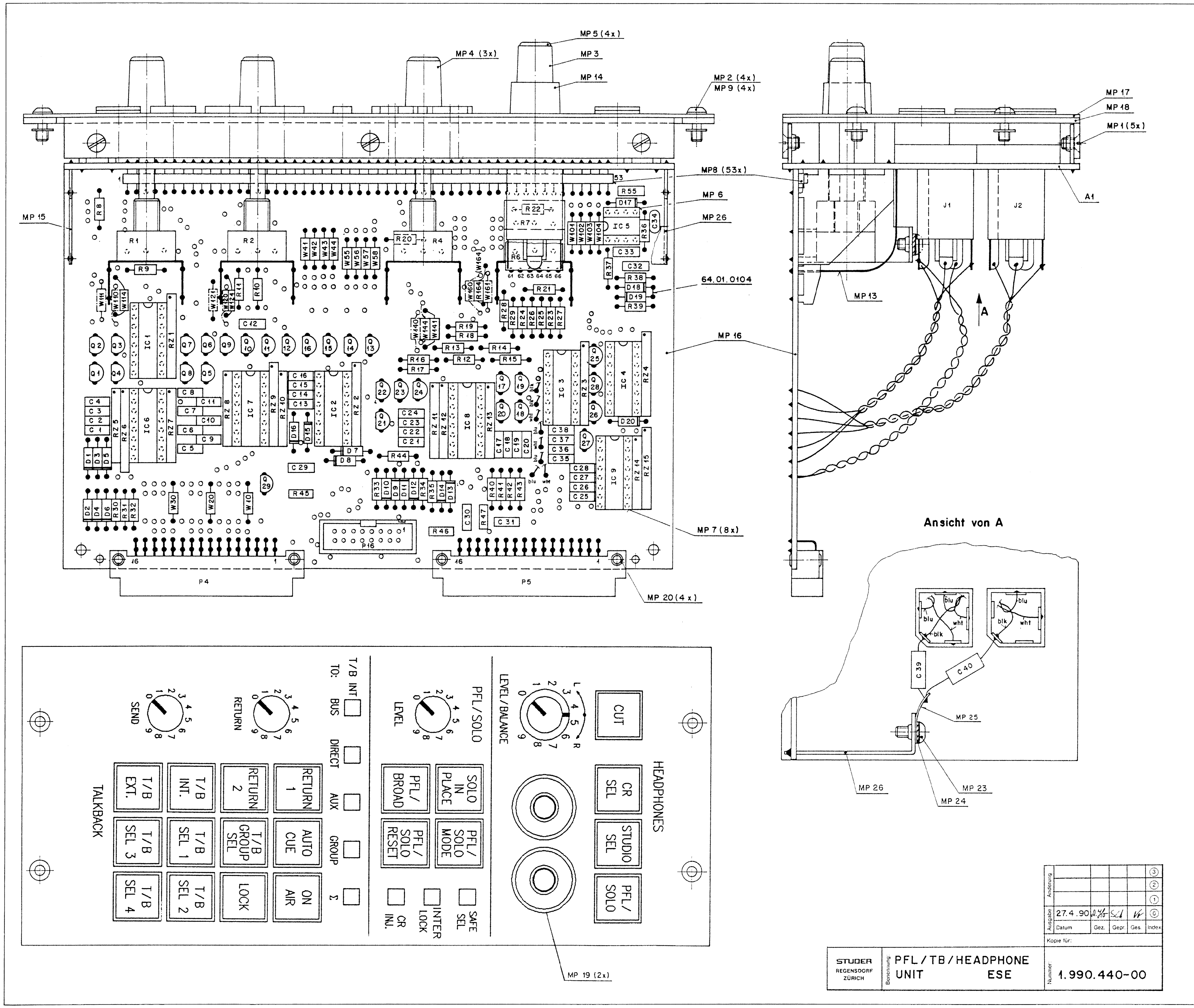
0 15.5.90 A.Schmid	..	..	..	..
	INCL. SWITCH BOARD 1.990.449.00			PAGE 2 OF 3
STUDER	PFL/TB/HEADPHONE UNIT		SC	1.990.440.00

PFL / Talk Back / Headphone Unit 1.990.440.00
- PFL / TB / Headphone Switch Board 1.990.449.00



D 19.4.90 A.Schmid	17.1.90	. .	. .	. .
				PAGE 3 OF 3
STUDER	PFL/TB/HEADPHONE UNIT		SC	1.990.440.00

PFL / Talk Back / Headphone Unit 1.990.440.00



Ad	..POS..	...REF.No...	DESCRIPTION		...MANUFACTURER
	A.....1	1.990.449.00		PFL/TB/PHONES SWITCH BOARD	
	C.....1	59.34.4101	100 pF	CE	
	C.....2	59.34.4101	100 pF	CE	
	C.....3	59.34.4101	100 pF	CE	
	C.....4	59.34.4101	100 pF	CE	
	C.....5	59.34.4101	100 pF	CE	
	C.....6	59.34.4101	100 pF	CE	
	C.....7	59.34.4101	100 pF	CE	
	C.....8	59.34.4101	100 pF	CE	
	C.....9	59.34.4101	100 pF	CE	
	C....10	59.34.4101	100 pF	CE	
	C....11	59.34.4101	100 pF	CE	
	C....12	59.34.4101	100 pF	CE	
	C....13	59.34.4101	100 pF	CE	
	C....14	59.34.4101	100 pF	CE	
	C....15	59.34.4101	100 pF	CE	
	C....16	59.34.4101	100 pF	CE	
	C....17	59.34.4101	100 pF	CE	
	C....18	59.34.4101	100 pF	CE	
	C....19	59.34.4101	100 pF	CE	
	C....20	59.34.4101	100 pF	CE	
	C....21	59.34.4101	100 pF	CE	
	C....22	59.34.4101	100 pF	CE	
	C....23	59.34.4101	100 pF	CE	
	C....24	59.34.4101	100 pF	CE	
	C....25	59.34.4101	100 pF	CE	
	C....26	59.34.4101	100 pF	CE	
	C....27	59.34.4101	100 pF	CE	
	C....28	59.34.4101	100 pF	CE	
	C....29	59.06.0104	100 nF	PE	
	C....30	59.06.0104	100 nF	PE	
	C....31	59.06.0104	100 nF	PE	
	C....32	59.06.0104	100 nF	PE	
	C....33	59.06.0104	100 nF	PE	
	C....34	59.34.7151	150 pF	CE	
	C....35	59.06.0222	2.2 nF	PE	
	C....36	59.06.0222	2.2 nF	PE	
	C....37	59.06.0222	2.2 nF	PE	
	C....38	59.06.0222	2.2 nF	PE	
	C....39	59.03.2104	0.1 uF	MPETP 10% 160/250V	
	C....40	59.03.2104	0.1 uF	MPETP 10% 160/250V	
	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	50.04.0125	1N4448		
	D.....9	50.04.0125	1N4448		
	D....10	50.04.0125	1N4448		
	D....11	50.04.0125	1N4448		
	D....12	50.04.0125	1N4448		
	D....13	50.04.0125	1N4448		
	D....14	50.04.0125	1N4448		
	D....15	50.04.0125	1N4448		
	D....16	50.04.0125	1N4448		
	D....17	50.04.0125	1N4448		
	D....18	50.04.0127	BAT 42		
	D....19	50.04.0127	BAT 42		
	D....20	50.04.0125	1N4448		
	IC....1	50.07.1021	CD4021	8-bit static shift register	
	IC....2	50.07.1021	CD4021	8-bit static shift register	
	IC....3	50.07.1021	CD4021	8-bit static shift register	
	IC....4	50.07.1021	CD4021	8-bit static shift register	
	IC....5	50.09.0119	TL 062	J FET dual op. amp.	
	IC....6	50.07.0018	CD4094	shift and store bus register	
	IC....7	50.07.0018	CD4094	shift and store bus register	
	IC....8	50.07.0018	CD4094	shift and store bus register	
	IC....9	50.07.0018	CD4094	shift and store bus register	
	J.....1	54.24.0103	6.3 mm	3 pol-Klinke 6.3mm	
	J.....2	54.24.0103	6.3 mm	3 pol-Klinke 6.3mm	
	MP....1	21.01.2352	5 pcs	S-Schr. M3*4	
	MP....2	24.16.3023	4 pcs	Wellensicherung 3mm	
	MP....3	42.01.0203	1 pcs	Knopf grau D 10/4	
	MP....4	42.01.0228	3 pcs	Knebelknopf grau D 10/4	
	MP....5	42.01.0250	4 pcs	Deckel flach hellgrau	
	MP....6	53.03.0166	1 pcs	IC-Socket 8-pol	
	MP....7	53.03.0168	8 pcs	IC-Socket 16-pol	
	MP....8	54.11.0125	53 pcs	Stiftleiste winkel	
	MP....9	1.010.022.21	4 pcs	Linsenrundschrauben M3*8 IS	
	MP...10	1.010.210.64	2 pcs	Litze 120mm schwarz mit 1 Rastloetn.	
	MP...11	1.010.216.64	3 pcs	Litze 120mm blau mit 1 Rastloetn.	
	MP...12	1.010.219.64	3 pcs	Litze 120mm weiss mit 1 Rastloetn.	
	MP...13	64.03.0505	1 pcs	Flachkabel konf. 22,5A-6 pol	
	MP...14	1.912.000.03	1 pcs	Drehring D 6.2/13	
	MP...15	1.990.100.01	1 pcs	Querprintstuetze	
	MP...16	1.990.420.11	1 pcs	CR-MONITOR PCB	
	MP...17	1.990.440.01	1 pcs	Frontschild PFL/TB/PHONES CONTROL	
	MP...18	1.990.440.02	1 pcs	Traeger PFL/TB/PHONES CONTROL	
	MP...19	1.990.440.03	2 pcs	Fuehrungsbuchse Jack	
	MP...20	28.99.0119	4 pcs	Rohrniete D 2.5*0.15*10	
	MP...21	43.01.0108	1 pcs	ESE-Schild	
	MP...22	1.990.440.04	1 pcs	Studer-Nr-Etikette	
	MP...23	21.51.8354	1 pcs	LS-Schraube Innensechskant M3*6	
	MP...24	24.16.2030	1 pcs	Faecherscheibe M3	

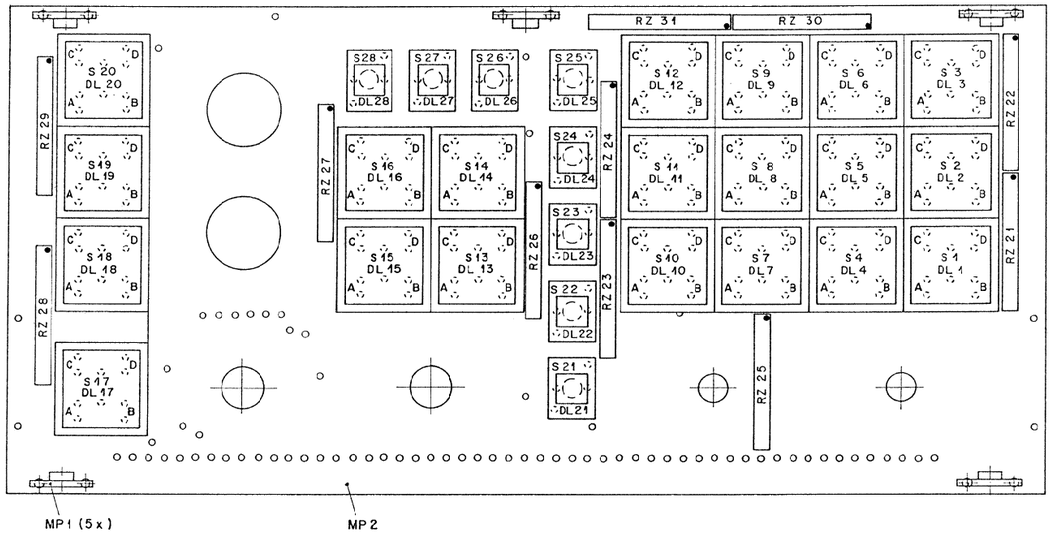
PFL / Talk Back / Headphone Unit 1.990.440.00

Ad	..POS..	...REF.No...	DESCRIPTION.....MANUFACTURER
	MP...25	29.26.1022	1 pcs Loetoese M3
	MP...26	1.990.100.03	1 pcs Querprintstuetze rechts
	Q.....1	50.03.0436	BC 237
	Q.....2	50.03.0436	BC 237
	Q.....3	50.03.0436	BC 237
	Q.....4	50.03.0436	BC 237
	Q.....5	50.03.0436	BC 237
	Q.....6	50.03.0436	BC 237
	Q.....7	50.03.0436	BC 237
	Q.....8	50.03.0436	BC 237
	Q.....9	50.03.0436	BC 237
	Q....10	50.03.0436	BC 237
	Q....11	50.03.0436	BC 237
	Q....12	50.03.0436	BC 237
	Q....13	50.03.0436	BC 237
	Q....14	50.03.0436	BC 237
	Q....15	50.03.0436	BC 237
	Q....16	50.03.0436	BC 237
	Q....17	50.03.0436	BC 237
	Q....18	50.03.0436	BC 237
	Q....19	50.03.0436	BC 237
	Q....20	50.03.0436	BC 237
	Q....21	50.03.0436	BC 237
	Q....22	50.03.0436	BC 237
	Q....23	50.03.0436	BC 237
	Q....24	50.03.0436	BC 237
	Q....25	50.03.0436	BC 237
	Q....26	50.03.0436	BC 237
	Q....27	50.03.0436	BC 237
	Q....28	50.03.0436	BC 237
	Q....29	50.03.0436	BC 237
	P.....1	. . 0	not used see MP 8
	P.....2	54.14.2002	16 pin PCB ribbon connector
	P.....4	54.11.2013	2*16 pin eurocard-connector
	P.....5	54.11.2013	2*16 pin eurocard-connector
	R.....1	1.010.027.58	100 kOhm Poti 20% lin SEND LEVEL
	R.....2	1.010.027.58	100 kOhm Poti 20% lin RETURN LEVEL
	R.....4	1.010.027.58	100 kOhm Poti used only in version without balance
	R.....5	. . 0	not used used only in balance version(1.010.032-58)
	R.....6	1.010.032.58	100 kOhm Poti incl. R7 (100k lin) PHONES LEVEL/BAL
	R.....7	. . 0	not used see R 6
	R.....8	57.11.3104	100 kOhm 1% MF
	R.....9	57.11.3223	22 kOhm 1% MF
	R....10	57.11.3104	100 kOhm 1% MF
	R....11	57.11.3223	22 kOhm 1% MF
	R....12	. . 0	not used used only in balance version (57113363)
	R....13	. . 0	not used used only in balance version (57113363)
	R....14	. . 0	not used used only in balance version (57113134)
	R....15	. . 0	not used used only in balance version (57113134)
	R....16	. . 0	not used used only in balance version (57113362)
	R....17	. . 0	not used used only in balance version (57113473)
	R....18	57.11.3104	100 kOhm 1% MF
	R....19	57.11.3104	100 kOhm 1% MF
	R....20	57.11.3223	22 kOhm 1% MF
	R....21	57.11.3363	36 kOhm 1% MF
	R....22	57.11.3363	36 kOhm 1% MF
	R....23	57.11.3134	130 kOhm 1% MF
	R....24	57.11.3134	130 kOhm 1% MF
	R....25	57.11.3362	3.6 kOhm 1% MF
	R....26	57.11.3473	47 kOhm 1% MF
	R....27	57.11.3104	100 kOhm 1% MF
	R....28	57.11.3104	100 kOhm 1% MF
	R....29	57.11.3223	22 kOhm 1% MF
	R....30	57.11.3101	100 Ohm 1% MF
	R....31	57.11.3101	100 Ohm 1% MF
	R....32	57.11.3101	100 Ohm 1% MF
	R....33	57.11.3101	100 Ohm 1% MF
	R....34	57.11.3101	100 Ohm 1% MF
	R....35	57.11.3101	100 Ohm 1% MF
	R....36	57.11.3223	22 kOhm 1% MF
	R....37	57.11.3223	22 kOhm 1% MF
	R....38	57.11.3334	330 kOhm 1% MF
	R....39	57.11.3334	330 kOhm 1% MF
	R....40	57.11.3101	100 Ohm 1% MF
	R....41	57.11.3101	100 Ohm 1% MF
	R....42	57.11.3101	100 Ohm 1% MF
	R....43	57.11.3101	100 Ohm 1% MF
	R....44	57.11.3101	100 Ohm 1% MF
	R....45	57.92.1820	82 mA PTC 42 Ohm
	R....46	57.92.1820	82 mA PTC 42 Ohm
	R....47	57.92.1820	82 mA PTC 42 Ohm
	R....55	57.92.7016	1.60 A R-PTC 0.14 Ohm
	R...164	57.11.3682	6.8 kOhm 1% MF PHONES LEVEL -100dB...+31d8
	W....10	57.11.3000	0 Ohm wire bridge SERDAT #0 (INT 0)
	W....11	. . 0	not used wire bridge SERDAT #1 INT 1 57113000
	W....12	. . 0	not used wire bridge SERDAT #2 INT 2 57113000
	W....13	. . 0	not used wire bridge SERDAT #3 INT 3 57113000
	W....14	. . 0	not used wire bridge SERDAT #4 INT 4 57113000
	W....15	. . 0	not used wire bridge SERDAT #5 INT 5 57113000
	W....16	. . 0	not used wire bridge SERDAT #6 INT 6 57113000
	W....20	57.11.3000	0 Ohm wire bridge SERDAT #0 (TSTB 0)
	W....21	. . 0	not used wire bridge SERDAT #1 TSTB 1 57113000
	W....22	. . 0	not used wire bridge SERDAT #2 TSTB 2 57113000
	W....23	. . 0	not used wire bridge SERDAT #3 TSTB 3 57113000
	W....24	. . 0	not used wire bridge SERDAT #4 TSTB 4 57113000
	W....25	. . 0	not used wire bridge SERDAT #5 TSTB 5 57113000
	W....26	. . 0	not used wire bridge SERDAT #6 TSTB 6 57113000
	W....30	57.11.3000	0 Ohm wire bridge SERDAT #0 (RXD 0)
	W....31	. . 0	not used wire bridge SERDAT #1 RXD 1 57113000
	W....32	. . 0	not used wire bridge SERDAT #2 RXD 2 57113000
	W....33	. . 0	not used wire bridge SERDAT #3 RXD 3 57113000
	W....34	. . 0	not used wire bridge SERDAT #4 RXD 4 57113000
	W....35	. . 0	not used wire bridge SERDAT #5 RXD 5 57113000
	W....36	. . 0	not used wire bridge SERDAT #6 RXD 6 57113000
	W....41	57.11.3000	0 Ohm Bridge
	W....42	57.11.3000	0 Ohm Bridge
	W....43	57.11.3000	0 Ohm Bridge
	W....44	57.11.3000	0 Ohm Bridge
	W....55	57.11.3000	0 Ohm Bridge
	W....56	57.11.3000	0 Ohm Bridge
	W....57	57.11.3000	0 Ohm Bridge
	W....58	57.11.3000	0 Ohm Bridge
	W...101	57.11.3000	0 Ohm Bridge
	W...102	57.11.3000	0 Ohm Bridge
	W...103	57.11.3000	0 Ohm Bridge
	W...104	57.11.3000	0 Ohm Bridge
	W...110	. . 0	not used used only for SEND LEVEL -100dB...+ 0dB
	W...111	. . 0	not used used only for SEND LEVEL -100dB...+10dB
	W...114	57.11.3000	0 Ohm wire bridge SEND LEVEL -100dB...+40dB
	W...120	. . 0	not used used only for RETURN LEVEL -100dB...+ 0dB
	W...121	. . 0	not used used only for RETURN LEVEL -100dB...+10dB
	W...124	57.11.3000	0 Ohm wire bridge RETURN LEVEL -100dB...+40dB
	W...140	. . 0	not used used only for PFL LEVEL -100dB...+ 0dB
	W...141	57.11.3000	0 Ohm wire bridge PFL LEVEL -100dB...+10dB
	W...144	. . 0	not used used only for PFL LEVEL -100dB...+40dB
	W...160	. . 0	not used used only for PHONES LEVEL -100dB...+ 0dB
	W...161	. . 0	not used used only for PHONES LEVEL -100dB...+10dB
	W...164	. . 0	not used used only for PHONES LEVEL -100dB...+40dB
	RZ....1	57.88.4104	100 kOhm 2% resistor-network
	RZ....2	57.88.4104	100 kOhm 2% resistor-network
	RZ....3	57.88.4104	100 kOhm 2% resistor-network
	RZ....4	57.88.4104	100 kOhm 2% resistor-network
	RZ....5	57.88.2682	6.8 kOhm 2% resistor-network
	RZ....6	57.88.4104	100 kOhm 2% resistor-network
	RZ....7	57.88.2682	6.8 kOhm 2% resistor-network
	RZ....8	57.88.2682	6.8 kOhm 2% resistor-network
	RZ....9	57.88.4104	100 kOhm 2% resistor-network
	RZ...10	57.88.2682	6.8 kOhm 2% resistor-network
	RZ...11	57.88.2682	6.8 kOhm 2% resistor-network
	RZ...12	57.88.4104	100 kOhm 2% resistor-network
	RZ...13	57.88.2682	6.8 kOhm 2% resistor-network
	RZ...14	57.88.2682	6.8 kOhm 2% resistor-network
	RZ...15	57.88.4104	100 kOhm 2% resistor-network

CER=Ceramic, PE=Polyester
MF=Metal Film

1.990.440.00 PFL/TB/HEADPHONE UNIT SCA90/12/1200

PFL / TB / Headphone Switch Board 1.990.449.00



Ad	..POS..	...REF.No...	DESCRIPTION.....MANUFACTURER
	DL....1	. . 0	not used see S 01
	DL....2	. . 0	not used see S 02
	DL....3	. . 0	not used see S 03
	DL....4	. . 0	not used see S 04
	DL....5	. . 0	not used see S 05
	DL....6	. . 0	not used see S 06
	DL....7	. . 0	not used see S 07
	DL....8	. . 0	not used see S 08
	DL....9	. . 0	not used see S 09
	DL...10	. . 0	not used see S 10
	DL...11	. . 0	not used see S 11
	DL...12	. . 0	not used see S 12
	DL...13	. . 0	not used see S 13
	DL...14	. . 0	not used see S 14
	DL...15	. . 0	not used see S 15
	DL...16	. . 0	not used see S 16
	DL...17	. . 0	not used see S 17
	DL...18	. . 0	not used see S 18
	DL...19	. . 0	not used see S 19
	DL...20	. . 0	not used see S 20
	DL...21	. . 0	not used see S 21
	DL...22	. . 0	not used see S 22
	DL...23	. . 0	not used see S 23
	DL...24	. . 0	not used see S 24
	DL...25	. . 0	not used see S 25
	DL...26	. . 0	not used see S 26
	DL...27	. . 0	not used see S 27
	DL...28	. . 0	not used see S 28
	MP....1	1.990.100.05	5 pcs Querprinthalter
	MP....2	1.990.449.11	1 pcs PFL/TB/PHONES SWITCH PCB
	MP....3	1.990.449.04	1 pcs Nr-Etikette
	S.....1	55.15.0722	Taste 1*A,12mm RT/RT T/B EXT 1
	S.....2	55.15.0702	Taste 1*A,12mm RT/Trans T/B SEL.3
	S.....3	55.15.0702	Taste 1*A,12mm RT/Trans T/B SEL.4
	S.....4	55.15.0722	Taste 1*A,12mm RT/RT T/B INT
	S.....5	55.15.0702	Taste 1*A,12mm RT/Trans T/B SEL.1
	S.....6	55.15.0702	Taste 1*A,12mm RT/Trans T/B SEL.2
	S.....7	55.15.0705	Taste 1*A,12mm GN/Trans RETURN 2
	S.....8	55.15.0705	Taste 1*A,12mm GN/Trans T/B GRUOP SELECT
	S.....9	55.15.0704	Taste 1*A,12mm GB/Trans AUTO CUE
	S....10	55.15.0705	Taste 1*A,12mm GN/Trans RETURN 1
	S....11	55.15.0722	Taste 1*A,12mm RT/RT TEST GEN ENABLE
	S....12	55.15.0704	Taste 1*A,12mm GB/Trans LOCK
	S....13	55.15.0705	Taste 1*A,12mm GN/Trans PFL RESET
	S....14	55.15.0704	Taste 1*A,12mm GB/Trans SOLO RESET
	S....15	55.15.0704	Taste 1*A,12mm GB/Trans S.F. SOLO
	S....16	55.15.0702	Taste 1*A,12mm RT/Trans SOLO IN PLACE
	S....17	55.15.0702	Taste 1*A,12mm RT/Trans CUT
	S....18	55.15.0704	Taste 1*A,12mm GB/Trans CR SELECT
	S....19	55.15.0704	Taste 1*A,12mm GB/Trans STUDIO SELECT
	S....20	55.15.0704	Taste 1*A,12mm GB/Trans PFL/SOLO
	S....21	55.15.0604	Taste 1*A, 5mm GB/Trans BUS
	S....22	55.15.0604	Taste 1*A, 5mm GB/Trans DIRECT
	S....23	55.15.0604	Taste 1*A, 5mm GB/Trans AUX
	S....24	55.15.0604	Taste 1*A, 5mm GB/Trans GROUP
	S....25	55.15.0604	Taste 1*A, 5mm GB/Trans Summe
	S....26	55.15.0602	Taste 1*A, 5mm RT/Trans CR INJ
	S....27	55.15.0602	Taste 1*A, 5mm RT/Trans INTER LOCK
	S....28	55.15.0605	Taste 1*A, 5mm GN/Trans SAFE SELECT
	RZ...21	57.88.4101	100 Ohm 2% ,8*
	RZ...22	57.88.4101	100 Ohm 2% ,8*
	RZ...23	57.88.4101	100 Ohm 2% ,8*
	RZ...24	57.88.4101	100 Ohm 2% ,8*
	RZ...25	57.88.4101	100 Ohm 2% ,8*
	RZ...26	57.88.4101	100 Ohm 2% ,8*
	RZ...27	57.88.4101	100 Ohm 2% ,8*
	RZ...28	57.88.4101	100 Ohm 2% ,8*
	RZ...29	57.88.4101	100 Ohm 2% ,8*
	RZ...30	57.88.4101	100 Ohm 2% ,8*
	RZ...31	57.88.4101	100 Ohm 2% ,8*

CER=Ceramic, PE=Polyester
MF=Metal Film, PMG=Cermet

MANUFACTURER: Ex=Exar, NEC=Nippon Electric Corp., Ph=Philips, Ra=Raytheon, Sig=Signetics, St=Studer.

1.990.449.00 PFL/TB/PHONES SWITCH BOARD SCA88/12/1600

Aenderung					
					③
					②
					①
Ausgabe	7.3.90	MH	SCA	MH	⓪
	Datum	Gez.	Gepr.	Ges.	Index

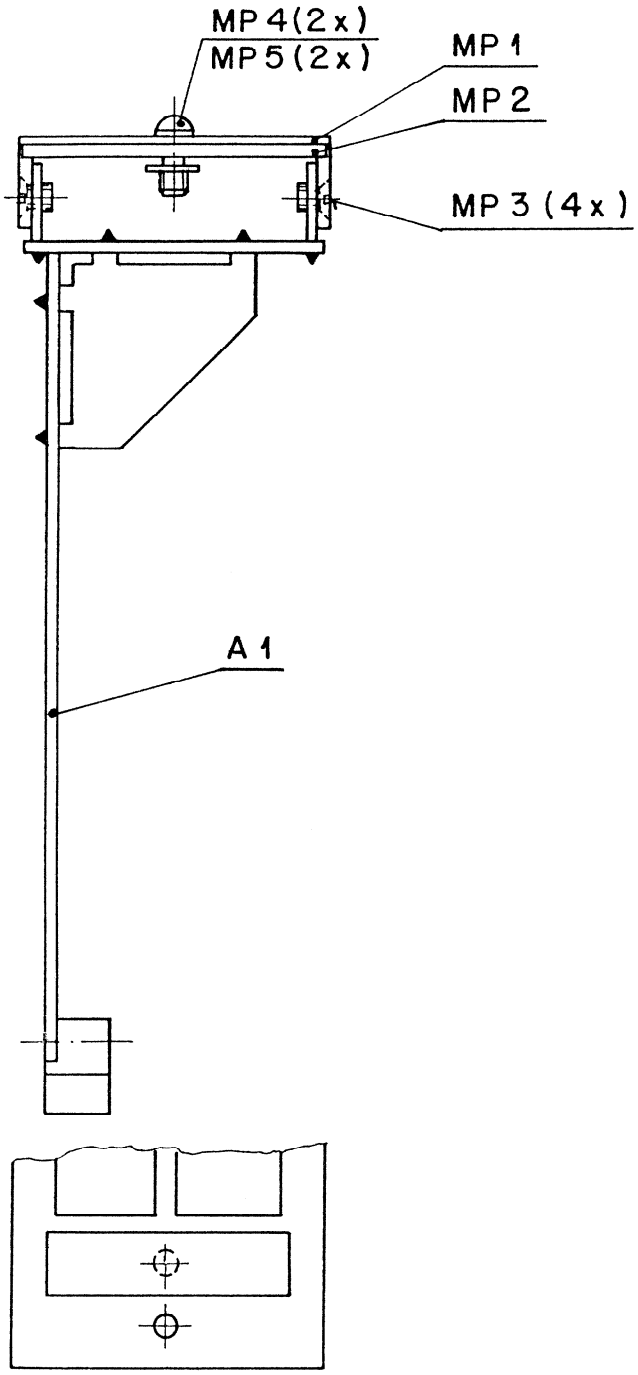
Kopie für:

STUDER REGENSDORF ZÜRICH	Benennung: PFL/TB/PHONES SWITCH BOARD	Nummer: 1.990.449-00

Pin Location List
PFL / Talk Back / Headphone Unit 1.990.440.00

P	NO	NAME	REMARK	B=BUS 0=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC
P4	01A	0V-L	GROUND SIGN (LOGIC)	B
P4	01B	+ 5.5V	+ SUPPLY	B
P4	02A	+ 15.5V	+ SUPPLY	B
P4	02B	0V-A	GROUND AUDIO	B
P4	03A	- 15.5V	- SUPPLY	B
P4	03B	+3..4V LED	LED SUPPLY VARIABLE +3...4V	B
P4	04A	DO 0	DATA OUT 0 (ENABLE)	
P4	04B	INT 0	INTERUPT 0	
P4	05A	INT 1	INTERUPT 1	
P4	05B	INT 2	INTERUPT 2	
P4	06A	INT 3	INTERUPT 3	
P4	06B	INT 4	INTERUPT 4	
P4	07A	INT 5	INTERUPT 5	
P4	07B	INT 6	INTERUPT 6	
P4	08A	TSTB 0	TRANSMIT STROBE 0	
P4	08B	TSTB 1	TRANSMIT STROBE 1	
P4	09A	TSTB 2	TRANSMIT STROBE 2	
P4	09B	TSTB 3	TRANSMIT STROBE 3	
P4	10A	TSTB 4	TRANSMIT STROBE 4	
P4	10B	TSTB 5	TRANSMIT STROBE 5	
P4	11A	TSTB 6	TRANSMIT STROBE 6	
P4	11B	RXD 0	RECEIVE DATA 0	
P4	12A	RXD 1	RECEIVE DATA 1	
P4	12B	RXD 2	RECEIVE DATA 2	
P4	13A	RXD 3	RECEIVE DATA 3	
P4	13B	RXD 4	RECEIVE DATA 4	
P4	14A	RXD 5	RECEIVE DATA 5	
P4	14B	RXD 6	RECEIVE DATA 6	
P4	15A	TXD	TRANSMIT DATA	
P4	15B	RSTB	RECEIVE STROBE	
P4	16A	TCL	TRANSMIT CLOCK	
P4	16B	RCL	RECEIVE CLOCK	
P5	01A	+4V	CONTROL VOLTAGE VCA	
P5	01B	+1V	CONTROL VOLTAGE VCA	
P5	02A	0V	CONTROL VOLTAGE VCA	
P5	02B	-10V	CONTROL VOLTAGE VCA	
P5	03A	CV-PHONES-L	CONTROL VOLTAGE HEADPHONE L	
P5	03B	CV-PHONES-R	CONTROL VOLTAGE HEADPHONE R	
P5	04A	CV-PFL-L	CONTROL VOLTAGE PFL LEFT	
P5	04B	CV-PFL-R	CONTROL VOLTAGE PFL RIGHT	
P5	05A	-	N.C.	
P5	05B	-	N.C.	
P5	06A	-	N.C.	
P5	06B	-	N.C.	
P5	07A	-	N.C.	
P5	07B	-	N.C.	
P5	08A	-	N.C.	
P5	08B	-	N.C.	
P5	09A	PHO.IN -1-L	PHONE INPUT 1 LEFT	
P5	09B	PHO.IN -1-R	PHONE INPUT 1 RIGHT	
P5	10A	PHO.OUT-1-L	PHONE OUTPUT 1 LEFT	
P5	10B	PHO.OUT-1-R	PHONE OUTPUT 1 RIGHT	
P5	11A	PHONE 1 0V	GROUND SIGN PHONE 1	
P5	11B	PHONE 2-0V	GROUND SIGN PHONE 2	
P5	12A	PHO.IN-2-L	INPUT PHONE 2 LEFT	
P5	12B	PHO.IN-2-R	INPUT PHONE 2 RIGHT	
P5	13A	CV-SEND	CTRL.VOLTAGE SEND LEVEL	
P5	13B	CV-RETURN	CTRL.VOLTAGE RETURN LEVEL	
P5	14	0V-L	GROUND SIGN (LOGIC)	
P5	15A	RXTH	RECEIVE DATA THROUGH	
P5	15B	TXTH	TRANSMIT DATA THROUGH	
P5	16	0V-L	GROUND SIGN (LOGIC)	

Source Selector Unit 1.990.490.00



Ad	..POS..	...REF.No...		DESCRIPTION.....MANUFACTURER
	A.....1	1.990.498.00		SOURCE SELECTOR
	MP....1	1.990.490.01	1 pcs	Frontschild SOURCE SELECTOR 20 PB
	MP....2	1.990.490.02	1 pcs	Traeger SOURCE SELECTOR
	MP....3	21.01.2352	4 pcs	S-Schr. M3*4
	MP....4	1.010.022.21	2 pcs	Linsenrundschr. IS M3*8
	MP....5	24.16.3023	2 pcs	Wellensicherung 3mm
	MP....6	1.990.490.04	1 pcs	Studer-Nr-Etikette 10*20

CER=Ceramic, PE=Polyester
MF=Metal Film, PMG=Cermet

MANUFACTURER: Ex=Exar, NEC=Nippon Electric Corp., Ph=Philips, Ra=Raytheon, Sig=Signetics, St=Studer.

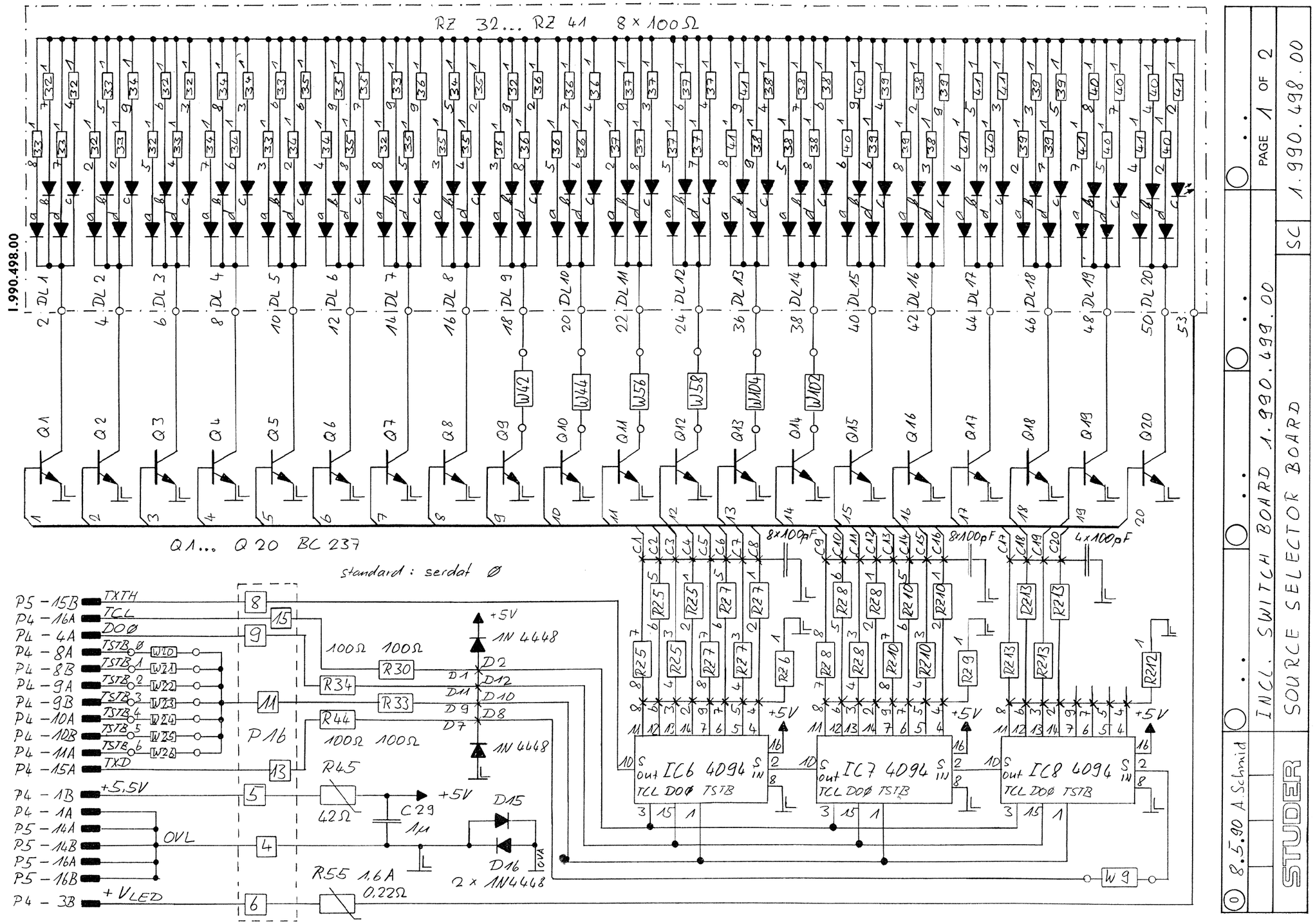
1.990.490.00 SOURCE SELECTOR UNIT 20 PB SCA88/11/3000

Anderung					(3)
					(2)
					(1)
Ausgabe	3.4.90	A.W.	SCA	W	(0)
	Datum	Gez	Gepr	Ges	Index

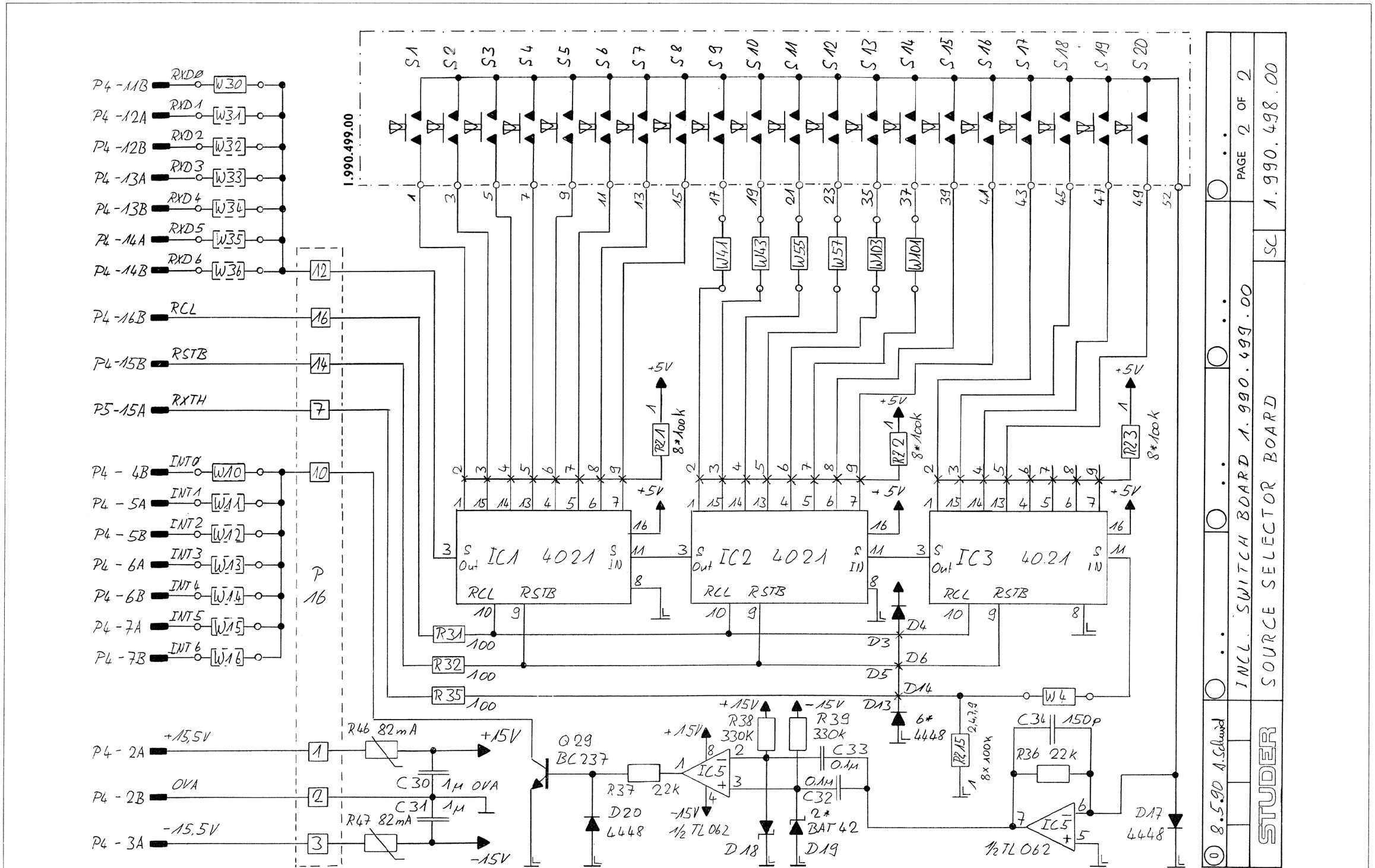
Kopie für

STUDER REGENSDORF ZÜRICH	Benennung: SOURCE SELECTOR UNIT 20 PB	Nummer: 1.990.490-00

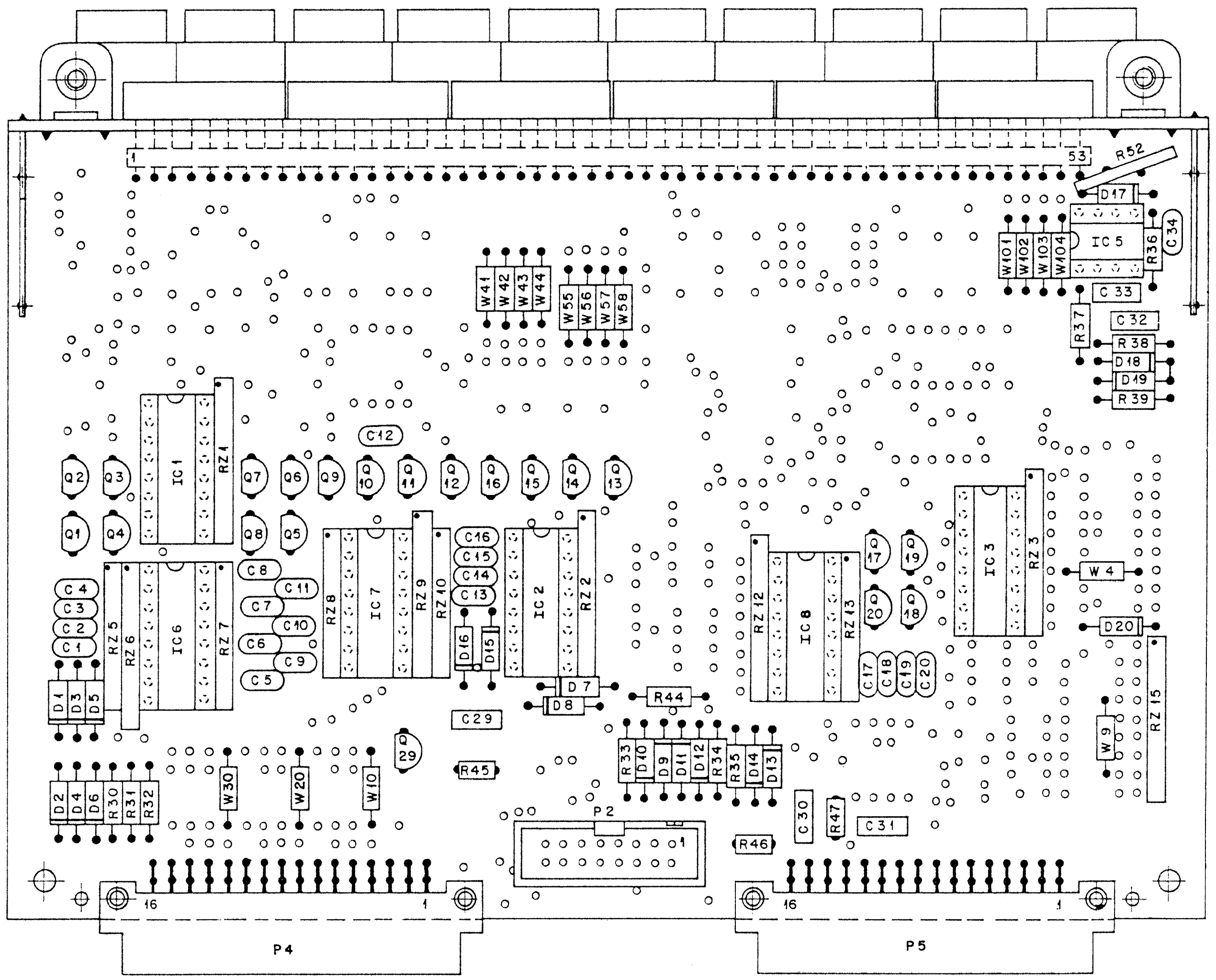
Source Selector Board 1.990.498.00
- Source Selector Switch Board 1.990.499.00



Source Selector Board 1.990.498.00
- Source Selector Switch Board 1.990.499.00



Source Selector Board 1.990.498.00



STUDER REGENSDORF ZÜRICH	SOURCE SELECTOR BOARD ESE	1.990.498-00

2.4.90 — Datum | Gez | Gepr | Ges | Index — Kopie für:

Ad	..POS..	...REF.No...	DESCRIPTION			MANUFACTURER
	A.....1	1.990.499.00		Source Selector Switch Board		
	C.....1	59.34.4101	100 pF	CE		
	C.....2	59.34.4101	100 pF	CE		
	C.....3	59.34.4101	100 pF	CE		
	C.....4	59.34.4101	100 pF	CE		
	C.....5	59.34.4101	100 pF	CE		
	C.....6	59.34.4101	100 pF	CE		
	C.....7	59.34.4101	100 pF	CE		
	C.....8	59.34.4101	100 pF	CE		
	C.....9	59.34.4101	100 pF	CE		
	C....10	59.34.4101	100 pF	CE		
	C....11	59.34.4101	100 pF	CE		
	C....12	59.34.4101	100 pF	CE		
	C....13	59.34.4101	100 pF	CE		
	C....14	59.34.4101	100 pF	CE		
	C....15	59.34.4101	100 pF	CE		
	C....16	59.34.4101	100 pF	CE		
	C....17	59.34.4101	100 pF	CE		
	C....18	59.34.4101	100 pF	CE		
	C....19	59.34.4101	100 pF	CE		
	C....20	59.34.4101	100 pF	CE		
	C....29	59.06.0104	100 nF	PE		
	C....30	59.06.0104	100 nF	PE		
	C....31	59.06.0104	100 nF	PE		
	C....32	59.06.0104	100 nF	PE		
	C....33	59.06.0104	100 nF	PE		
	C....34	59.34.7151	150 pF	CE		
	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	50.04.0125	1N4448			
	D.....9	50.04.0125	1N4448			
	D....10	50.04.0125	1N4448			
	D....11	50.04.0125	1N4448			
	D....12	50.04.0125	1N4448			
	D....13	50.04.0125	1N4448			
	D....14	50.04.0125	1N4448			
	D....15	50.04.0125	1N4448			
	D....16	50.04.0125	1N4448			
	D....17	50.04.0125	1N4448			
	D....18	50.04.0127	BAT 42			
	D....19	50.04.0127	BAT 42			
	D....20	50.04.0125	1N4448			
	IC....1	50.07.1021	CD4021	8-bit static shift register		
	IC....2	50.07.1021	CD4021	8-bit static shift register		
	IC....3	50.07.1021	CD4021	8-bit static shift register		
	IC....5	50.09.0119	TL 062	J FET dual op. amp.		
	IC....6	50.07.0018	CD4094	shift and store bus register		
	IC....7	50.07.0018	CD4094	shift and store bus register		
	IC....8	50.07.0018	CD4094	shift and store bus register		
	MP....1	53.03.0166	1 pcs	IC-Socket 8-pin		
	MP....2	53.03.0168	6 pcs	IC-Socket 16-pin		
	MP....3	54.11.0125	53 pcs	Stiftleiste Winkel RM 2.54		
	MP....4	1.990.100.01	2 pcs	Querprintstuetze		
	MP....5	1.990.420.11	1 pcs	CR MONITOR PCB		
	MP....6	28.99.0119	4 pcs	Rohrniete 2.5*0.1510		
	MP....7	43.01.0108	1 pcs	ESE-Schild		
	MP....8	1.990.498.04	1 pcs	Nr-Etikette		
	Q.....1	50.03.0436	BC237	uni npn		
	Q.....2	50.03.0436	BC237	uni npn		
	Q.....3	50.03.0436	BC237	uni npn		
	Q.....4	50.03.0436	BC237	uni npn		
	Q.....5	50.03.0436	BC237	uni npn		
	Q.....6	50.03.0436	BC237	uni npn		
	Q.....7	50.03.0436	BC237	uni npn		
	Q.....8	50.03.0436	BC237	uni npn		
	Q.....9	50.03.0436	BC237	uni npn		
	Q....10	50.03.0436	BC237	uni npn		
	Q....11	50.03.0436	BC237	uni npn		
	Q....12	50.03.0436	BC237	uni npn		
	Q....13	50.03.0436	BC237	uni npn		
	Q....14	50.03.0436	BC237	uni npn		
	Q....15	50.03.0436	BC237	uni npn		
	Q....16	50.03.0436	BC237	uni npn		
	Q....17	50.03.0436	BC237	uni npn		
	Q....18	50.03.0436	BC237	uni npn		
	Q....19	50.03.0436	BC237	uni npn		
	Q....20	50.03.0436	BC237	uni npn		
	Q....29	50.03.0436	BC237	uni npn		
	P.....1	. . 0	not used	see MP		
	P.....2	54.14.2002	16 pin	PCB ribbon-connector		
	P.....4	54.11.2013	2*16 pin	eurocard-connector		
	P.....5	54.11.2013	2*16 pin	eurocard-connector		
	R....30	57.11.3101	100 Ohm	1% MF		
	R....31	57.11.3101	100 Ohm	1% MF		
	R....32	57.11.3101	100 Ohm	1% MF		
	R....33	57.11.3101	100 Ohm	1% MF		
	R....34	57.11.3101	100 Ohm	1% MF		
	R....35	57.11.3101	100 Ohm	1% MF		
	R....36	57.11.3223	22 kOhm	1% MF		
	R....37	57.11.3223	22 kOhm	1% MF		
	R....38	57.11.3334	330 kOhm	1% MF		
	R....39	57.11.3334	330 kOhm	1% MF		
	R....44	57.11.3101	100 Ohm	1% MF		
	R....45	57.92.1820	82 mA	PTC 42 Ohm		
	R....46	57.92.1820	82 mA	PTC 42 Ohm		
	R....47	57.92.1820	82 mA	PTC 42 Ohm		
	R....55	57.92.7016	1.6 A	R-PTC 0.22 Ohm		
	W.....4	57.11.3000	0 Ohm	Bridge		
	W.....9	57.11.3000	0 Ohm	Bridge		
	W....10	57.11.3000	0 Ohm	Bridge	SERDAT #0 (INT 0)	
	W....11	. . 0	not used	wire bridge	SERDAT #1 INT 1	57113000
	W....12	. . 0	not used	wire bridge	SERDAT #2 INT 2	57113000
	W....13	. . 0	not used	wire bridge	SERDAT #3 INT 3	57113000
	W....14	. . 0	not used	wire bridge	SERDAT #4 INT 4	57113000
	W....15	. . 0	not used	wire bridge	SERDAT #5 INT 5	57113000
	W....16	. . 0	not used	wire bridge	SERDAT #6 INT 6	57113000
	W....20	57.11.3000	0 Ohm	wire bridge	SERDAT #0 (TSTB 0)	
	W....21	. . 0	not used	wire bridge	SERDAT #1 TSTB 1	57113000
	W....22	. . 0	not used	wire bridge	SERDAT #2 TSTB 2	57113000
	W....23	. . 0	not used	wire bridge	SERDAT #3 TSTB 3	57113000
	W....24	. . 0	not used	wire bridge	SERDAT #4 TSTB 4	57113000
	W....25	. . 0	not used	wire bridge	SERDAT #5 TSTB 5	57113000
	W....26	. . 0	not used	wire bridge	SERDAT #6 TSTB 6	57113000
	W....30	57.11.3000	0 Ohm	wire bridge	SERDAT #0 (RXD 0)	
	W....31	. . 0	not used	wire bridge	SERDAT #1 RXD 1	57113000
	W....32	. . 0	not used	wire bridge	SERDAT #2 RXD 2	57113000
	W....33	. . 0	not used	wire bridge	SERDAT #3 RXD 3	57113000
	W....34	. . 0	not used	wire bridge	SERDAT #4 RXD 4	57113000
	W....35	. . 0	not used	wire bridge	SERDAT #5 RXD 5	57113000
	W....36	. . 0	not used	wire bridge	SERDAT #6 RXD 6	57113000
	W....41	57.11.3000	0 Ohm	Bridge		
	W....42	57.11.3000	0 Ohm	Bridge		
	W....43	57.11.3000	0 Ohm	Bridge		
	W....44	57.11.3000	0 Ohm	Bridge		
	W....55	57.11.3000	0 Ohm	Bridge		
	W....56	57.11.3000	0 Ohm	Bridge		
	W....57	57.11.3000	0 Ohm	Bridge		
	W....58	57.11.3000	0 Ohm	Bridge		
	W...101	57.11.3000	0 Ohm	Bridge		
	W...102	57.11.3000	0 Ohm	Bridge		
	W...103	57.11.3000	0 Ohm	Bridge		
	W...104	57.11.3000	0 Ohm	Bridge		
	RZ....1	57.88.4104	100 kOhm	2% resistor-network		
	RZ....2	57.88.4104	100 kOhm	2% resistor-network		
	RZ....3	57.88.4104	100 kOhm	2% resistor-network		
	RZ....5	57.88.2682	6.8 kOhm	2% resistor-network		
	RZ....6	57.88.4104	100 kOhm	2% resistor-network		
	RZ....7	57.88.2682	6.8 kOhm	2% resistor-network		
	RZ....8	57.88.2682	6.8 kOhm	2% resistor-network		
	RZ....9	57.88.4104	100 kOhm	2% resistor-network		
	RZ...10	57.88.2682	6.8 kOhm	2% resistor-network		
	RZ...12	57.88.4104	100 kOhm	2% resistor-network		
	RZ...13	57.88.2682	6.8 kOhm	2% resistor-network		
	RZ...15	57.88.4104	100 kOhm	2% resistor-network		

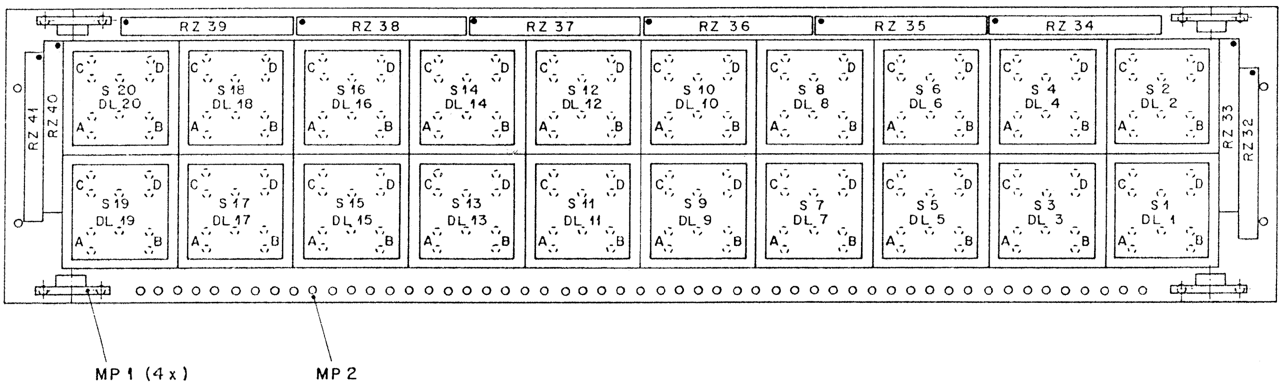
CER=Ceramic, PE=Polyester
MF=Metal Film, PMG=Cermet

MANUFACTURER: Ex=Exar, NEC=Nippon Electric Corp., Ph=Philips, Ra=Raytheon, Sig=Signetics, St=Studer.

1.990.498.00 SOURCE SELECTOR SCA90/04/2700

END

Source Selector Switch Board 1.990.499.00



Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	DL....1	. . 0	not used see S 01	
	DL....2	. . 0	not used see S 02	
	DL....3	. . 0	not used see S 03	
	DL....4	. . 0	not used see S 04	
	DL....5	. . 0	not used see S 05	
	DL....6	. . 0	not used see S 06	
	DL....7	. . 0	not used see S 07	
	DL....8	. . 0	not used see S 08	
	DL....9	. . 0	not used see S 09	
	DL...10	. . 0	not used see S 10	
	DL...11	. . 0	not used see S 11	
	DL...12	. . 0	not used see S 12	
	DL...13	. . 0	not used see S 13	
	DL...14	. . 0	not used see S 14	
	DL...15	. . 0	not used see S 15	
	DL...16	. . 0	not used see S 16	
	DL...17	. . 0	not used see S 17	
	DL...18	. . 0	not used see S 18	
	DL...19	. . 0	not used see S 19	
	DL...20	. . 0	not used see S 20	
	MP....1	1.990.429.11	1 pcs CR MONITOR SWITCH PCB	
	MP....2	1.990.100.05	4 pcs Querprintstuetze	
	MP....3	1.990.499.04	1 pcs Nr-Etikette	
	S.....1	55.15.0704	Taste 1*A,12mm gelb /trans	
	S.....2	55.15.0704	Taste 1*A,12mm gelb /trans	
	S.....3	55.15.0704	Taste 1*A,12mm gelb /trans	
	S.....4	55.15.0704	Taste 1*A,12mm gelb /trans	
	S.....5	55.15.0704	Taste 1*A,12mm gelb /trans	
	S.....6	55.15.0704	Taste 1*A,12mm gelb /trans	
	S.....7	55.15.0704	Taste 1*A,12mm gelb/trans	
	S.....8	55.15.0704	Taste 1*A,12mm gelb/trans	
	S.....9	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....10	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....11	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....12	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....13	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....14	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....15	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....16	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....17	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....18	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....19	55.15.0704	Taste 1*A,12mm gelb/trans	
	S....20	55.15.0704	Taste 1*A,12mm gelb/trans	
	RZ...32	57.88.4101	100 Ohm 2% ,8*	
	RZ...33	57.88.4101	100 Ohm 2% ,8*	
	RZ...34	57.88.4101	100 Ohm 2% ,8*	
	RZ...35	57.88.4101	100 Ohm 2% ,8*	
	RZ...36	57.88.4101	100 Ohm 2% ,8*	
	RZ...37	57.88.4101	100 Ohm 2% ,8*	
	RZ...38	57.88.4101	100 Ohm 2% ,8*	
	RZ...39	57.88.4101	100 Ohm 2% ,8*	
	RZ...40	57.88.4101	100 Ohm 2% ,8*	
	RZ...41	57.88.4101	100 Ohm 2% ,8*	

CER=Ceramic, PE=Polyester
MF=Metal Film, PMG=Cermet

MANUFACTURER: Ex=Exar, NEC=Nippon Electric Corp., Ph=Philips, Ra=Raytheon, Sig=Signetics, St=Studer.

1.990.499.00 SOURCE SELECTOR SWITCH BOARD SCA88/12/1800

Änderung / Ausgabe	Datum	Gez	Gepr.	Ges	Index
					3
					2
					1
	6.3.90	[signature]	[signature]	[signature]	0

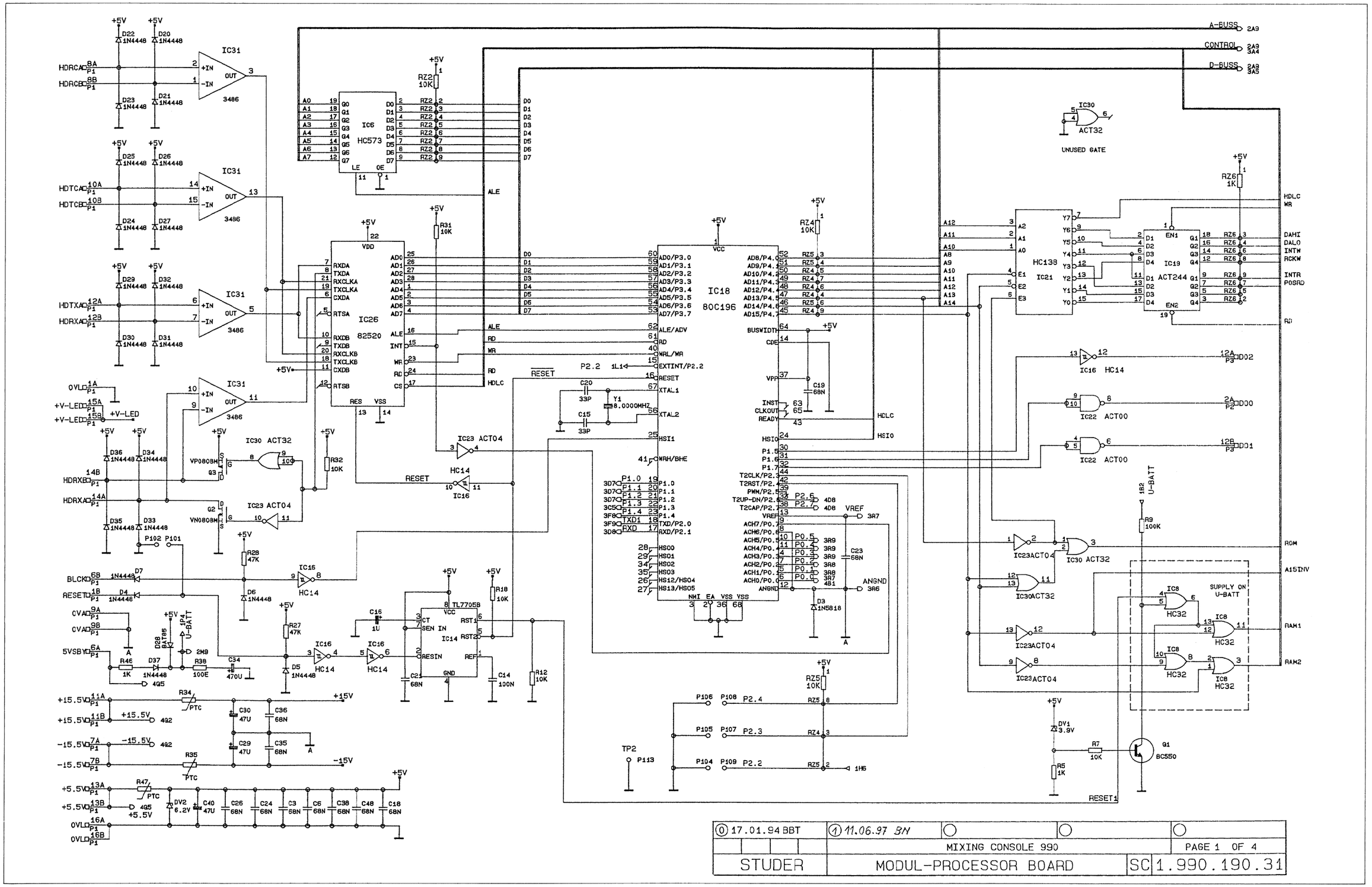
Kopie für

	Benennung	Nummer
STUDER REGENSDORF ZÜRICH	SOURCE SELECTOR SWITCH BOARD	1.990.499-00

SCHEMATA / CIRCUIT DIAGRAMS

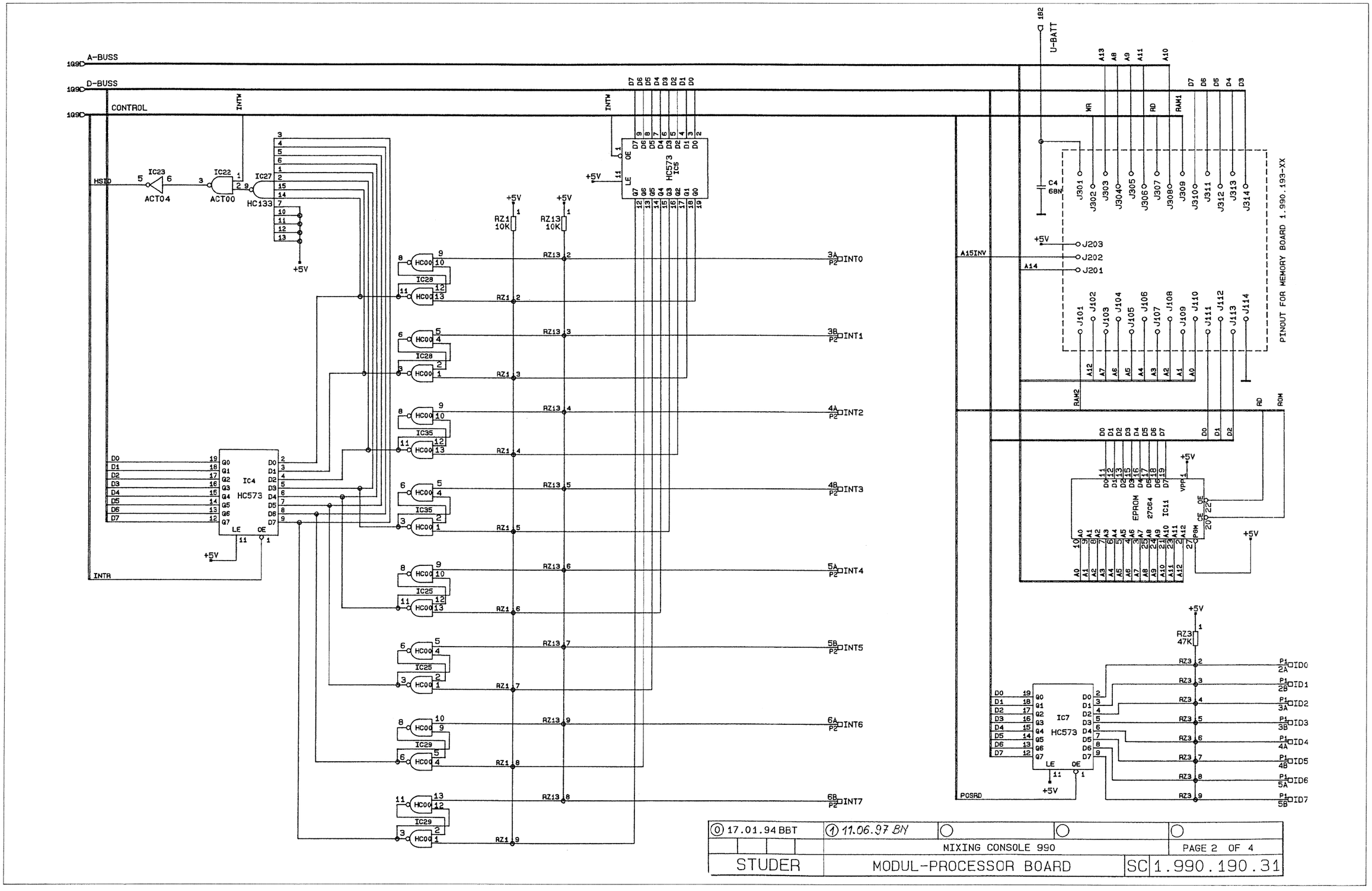
Processor and Interface Units

Modul Processor Board 1.990.190.31



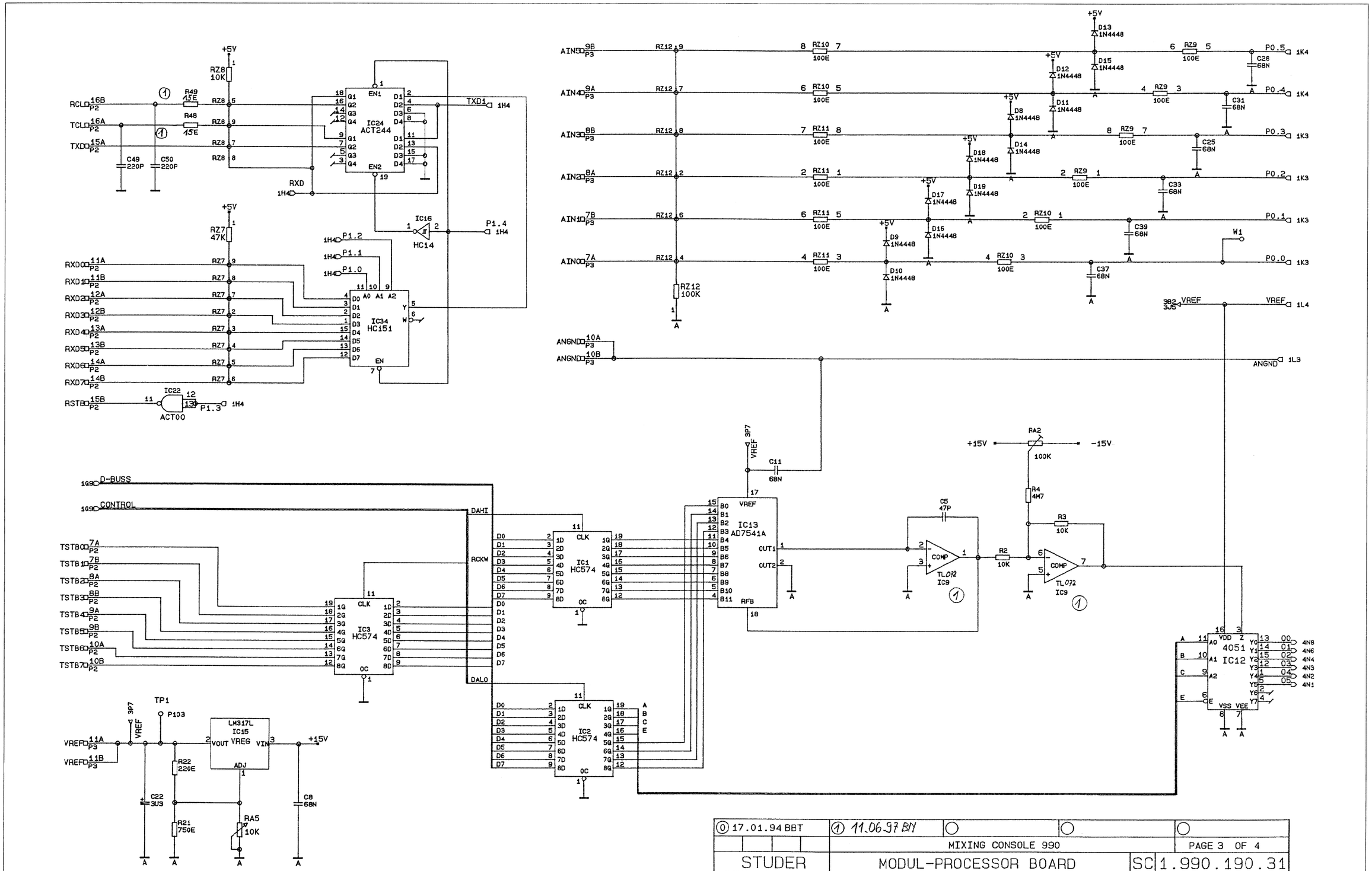
⓪ 17.01.94 BBT	① 11.06.97 SN			
	MIXING CONSOLE 990			PAGE 1 OF 4
STUDER	MODUL-PROCESSOR BOARD		SC	1.990.190.31

Modul Processor Board 1.990.190.31



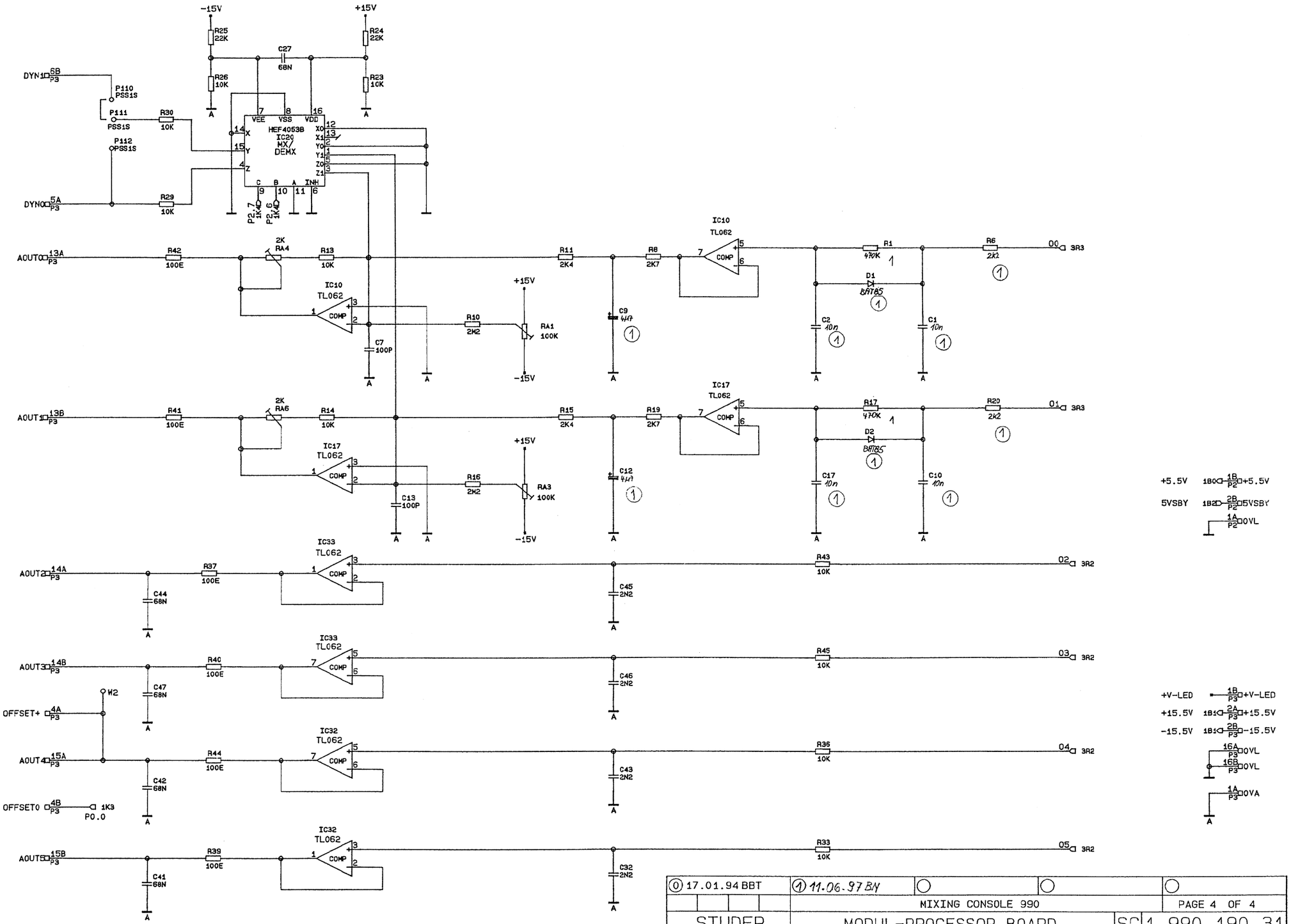
⓪ 17.01.94 BBT	① 11.06.97 BN			
	MIXING CONSOLE 990			PAGE 2 OF 4
STUDER	MODUL-PROCESSOR BOARD		SC	1.990.190.31

Modul Processor Board 1.990.190.31



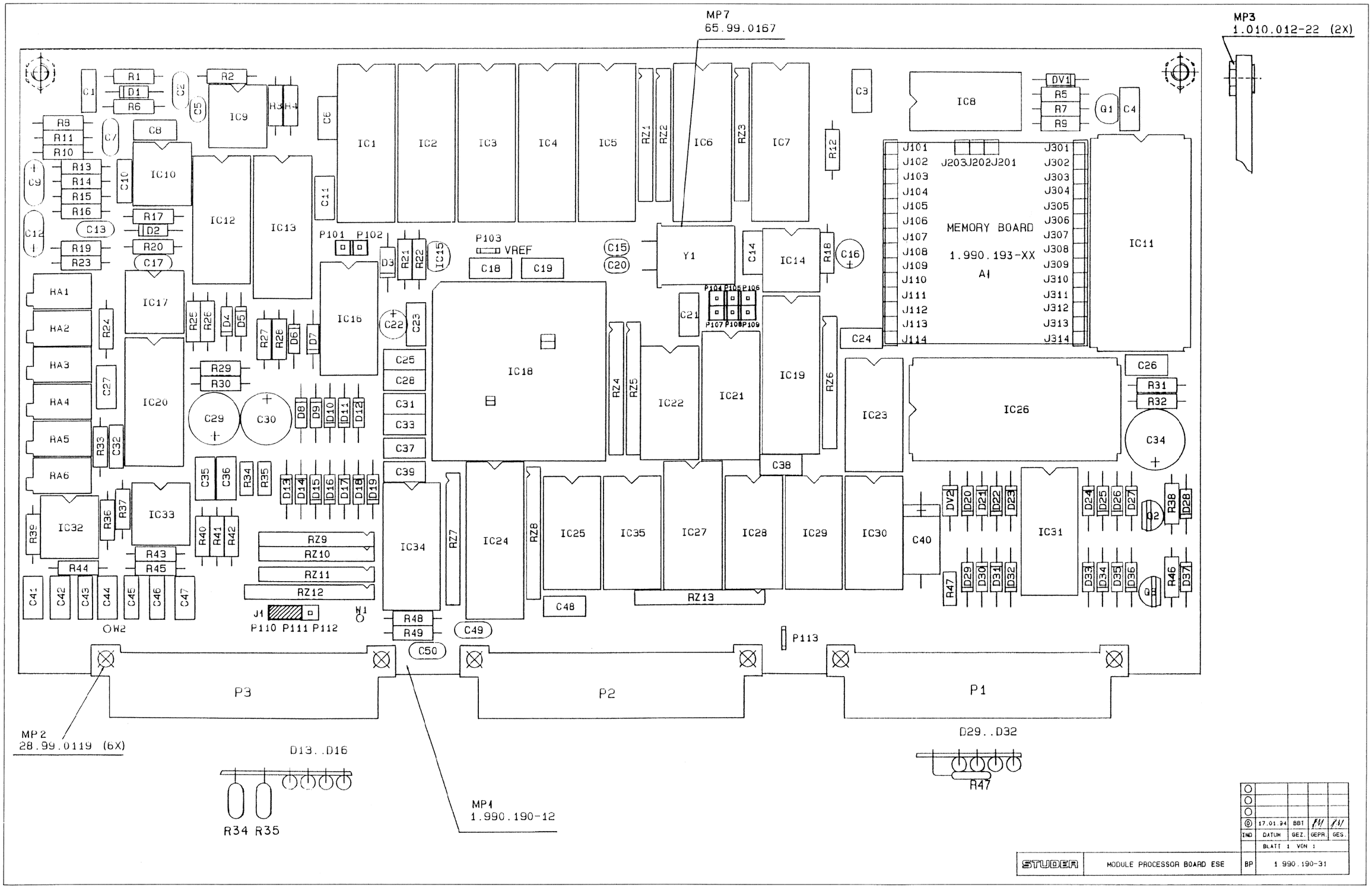
⓪ 17.01.94 BBT	① 11.06.97 BN	○	○	○
		MIXING CONSOLE 990		PAGE 3 OF 4
STUDER	MODUL-PROCESSOR BOARD		SC	1.990.190.31

Modul Processor Board 1.990.190.31



⓪ 17.01.94 BBT	① 11.06.97 BM			
	MIXING CONSOLE 990			PAGE 4 OF 4
STUDER	MODUL-PROCESSOR BOARD		SC	1.990.190.31

Modul Processor Board 1.990.190.31



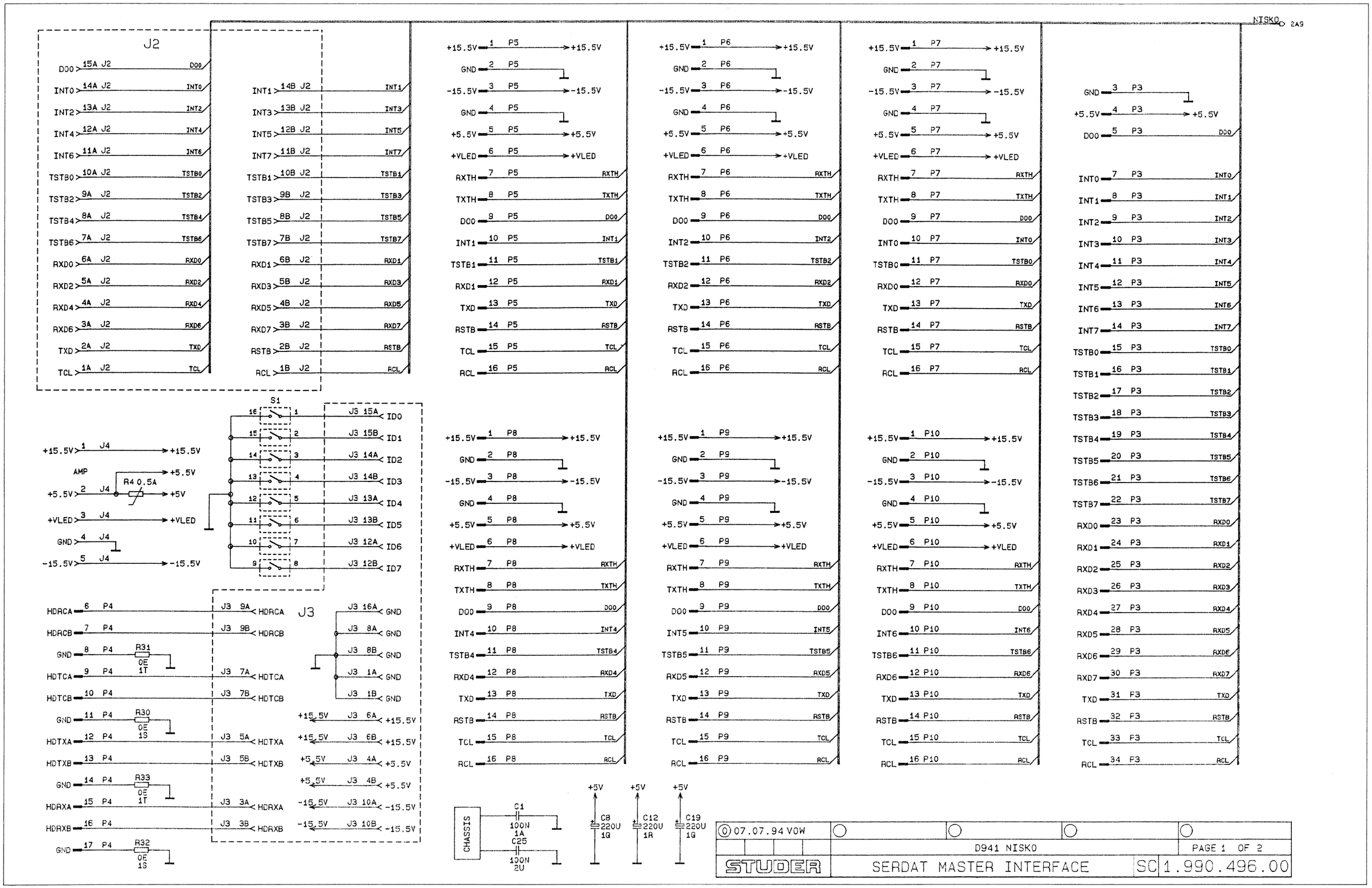
Modul Processor Board 1.990.190.31

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	A 1	1.990.193.00			MEMORY BOARD ,A
0	C 1	59.06.0222		2n2	C 2200 P , 10%, 63V , PETP
0	C 2	59.34.4221		220p	C 220 P , 5%, N750 , CER
0	C 3	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 4	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 5	59.34.2470		47p	C 47 P , 5%, N150 , CER
0	C 6	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 7	59.34.2101		100p	C 100 P , 5%, N150 , CER
0	C 8	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 9	59.26.2229		2u2	C 2.2 U , 20%, 16V , SAL
0	C 10	59.06.0222		2n2	C 2200 P , 10%, 63V , PETP
0	C 11	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 12	59.26.2229		2u2	C 2.2 U , 20%, 16V , SAL
0	C 13	59.34.2101		100p	C 100 P , 5%, N150 , CER
0	C 14	59.06.0104		100n	C .1 U , 10%, 63V , PETP
0	C 15	59.34.2330		33p	C 33 P , 5%, N150 , CER
0	C 16	59.30.6109		1u	C 1 U , 20%, 35V , TA
0	C 17	59.34.4221		220p	C 220 P , 5%, N750 , CER
0	C 18	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 19	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 20	59.34.2330		33p	C 33 P , 5%, N150 , CER
0	C 21	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 22	59.30.4339		3u3	C 3.3 U , 20%, 16V , TA
0	C 23	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 24	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 25	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 26	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 27	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 28	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 29	59.22.5470		47u	C 47 U ,-20%, 25V , EL
0	C 30	59.22.5470		47u	C 47 U ,-20%, 25V , EL
0	C 31	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 32	59.06.0222		2n2	C 2200 P , 10%, 63V , PETP
0	C 33	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 34	59.22.2471		470u	C 470 U ,-20%, 6.3V , EL
0	C 35	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 36	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 37	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 38	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 39	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 40	59.25.2470		47u	C 47 U ,-10%, 10V , EL
0	C 41	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 42	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 43	59.06.0222		2n2	C 2200 P , 10%, 63V , PETP
0	C 44	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 45	59.06.0222		2n2	C 2200 P , 10%, 63V , PETP
0	C 46	59.06.0222		2n2	C 2200 P , 10%, 63V , PETP
0	C 47	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 48	59.06.0683		68n	C .068 U , 10%, 63V , PETP
0	C 49	59.34.4221		220p	C 220 P , 5%, N750 , CER
0	C 50	59.34.4221		220p	C 220 P , 5%, N750 , CER
0	D 1	50.04.0125		1N4448	D 1N 4448, SI
0	D 2	50.04.0125		1N4448	D 1N 4448, SI
0	D 3	50.04.0512		1N5818	D 1N 5818, 1N 5819,
0	D 4	50.04.0125		1N4448	D 1N 4448, SI
0	D 5	50.04.0125		1N4448	D 1N 4448, SI
0	D 6	50.04.0125		1N4448	D 1N 4448, SI
0	D 7	50.04.0125		1N4448	D 1N 4448, SI
0	D 8	50.04.0125		1N4448	D 1N 4448, SI
0	D 9	50.04.0125		1N4448	D 1N 4448, SI
0	D 10	50.04.0125		1N4448	D 1N 4448, SI
0	D 11	50.04.0125		1N4448	D 1N 4448, SI
0	D 12	50.04.0125		1N4448	D 1N 4448, SI
0	D 13	50.04.0125		1N4448	D 1N 4448, SI
0	D 14	50.04.0125		1N4448	D 1N 4448, SI
0	D 15	50.04.0125		1N4448	D 1N 4448, SI
0	D 16	50.04.0125		1N4448	D 1N 4448, SI
0	D 17	50.04.0125		1N4448	D 1N 4448, SI
0	D 18	50.04.0125		1N4448	D 1N 4448, SI
0	D 19	50.04.0125		1N4448	D 1N 4448, SI
0	D 20	50.04.0125		1N4448	D 1N 4448, SI
0	D 21	50.04.0125		1N4448	D 1N 4448, SI
0	D 22	50.04.0125		1N4448	D 1N 4448, SI
0	D 23	50.04.0125		1N4448	D 1N 4448, SI
0	D 24	50.04.0125		1N4448	D 1N 4448, SI
0	D 25	50.04.0125		1N4448	D 1N 4448, SI
0	D 26	50.04.0125		1N4448	D 1N 4448, SI
0	D 27	50.04.0125		1N4448	D 1N 4448, SI
0	D 28	50.04.0127		BAT85	D BAT 85
0	D 29	50.04.0125		1N4448	D 1N 4448, SI
0	D 30	50.04.0125		1N4448	D 1N 4448, SI
0	D 31	50.04.0125		1N4448	D 1N 4448, SI
0	D 32	50.04.0125		1N4448	D 1N 4448, SI
0	D 33	50.04.0125		1N4448	D 1N 4448, SI
0	D 34	50.04.0125		1N4448	D 1N 4448, SI
0	D 35	50.04.0125		1N4448	D 1N 4448, SI
0	D 36	50.04.0125		1N4448	D 1N 4448, SI
0	D 37	50.04.0125		1N4448	D 1N 4448, SI
0	DV 1	50.04.1101		3.9V	D 3.9 V, 5%, .40W, Z,
0	DV 2	50.04.1511		6.2V	D 6.2 V, 5%, 1.0W, Z,
0	IC 1	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 2	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 3	50.17.1574		74HC574	IC ... 74 HC 574 ., ,A
0	IC 4	50.17.1573		74HC573	IC ... 74 HC 573 ., ,A
0	IC 5	50.17.1573		74HC573	IC ... 74 HC 573 ., ,A
0	IC 6	50.17.1573		74HC573	IC ... 74 HC 573 ., ,A
0	IC 7	50.17.1573		74HC573	IC ... 74 HC 573 ., ,A
0	IC 8	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 9	50.09.0119		TL062	IC TL 062 ACP ,A
0	IC 10	50.09.0119		TL062	IC TL 062 ACP ,A
0	IC 11	50.14.0155		27C64	IC NMC 27 C 64 Q 200 ,A (SW. 1.990.993.30)
0	IC 12	50.07.0051		4051	IC .. 4051 .. ,A
0	IC 13	50.19.0102		AD7541A	IC AD 7541 JN, MP 7523 JN ,A
0	IC 14	50.11.0157		TL7705B	IC TL 7705 BCP,
0	IC 15	50.10.0108		LM317L	IC LM 317 LZ,
0	IC 16	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 17	50.09.0119		TL062	IC TL 062 ACP ,A
0	IC 18	50.63.0003		80C196	IC N 80C 196 KB - 12 ,A
0	IC 19	50.17.7244		ACT244	IC .. 74 ACT 244 . ,A
0	IC 20	50.07.0015		HEF4053B	IC .. 4053 .. ,A
0	IC 21	50.17.1138		74HC138	IC ... 74 HC 138 ., ,A
0	IC 22	50.17.7000		ACT00	IC .. 74 ACT 00 . ,A
0	IC 23	50.17.7004		ACT04	IC .. 74 ACT 04 . ,A
0	IC 24	50.17.7244		ACT244	IC .. 74 ACT 244 . ,A
0	IC 25	50.17.1000		74HC00	IC ... 74 HC 00 ., ,A
0	IC 26	50.16.0153		82520	IC SAB 82520-P ,A
0	IC 27	50.17.1133		74HC133	IC ... 74 HC 133 ., ,A
0	IC 28	50.17.1000		74HC00	IC ... 74 HC 00 ., ,A
0	IC 29	50.17.1000		74HC00	IC ... 74 HC 00 ., ,A
0	IC 30	50.17.7032		ACT32	IC .. 74 ACT 32 . ,A
0	IC 31	50.15.0104		MC3486	IC MC 3486 P, DS 3486 N,
0	IC 32	50.09.0119		TL062	IC TL 062 ACP ,A
0	IC 33	50.09.0119		TL062	IC TL 062 ACP ,A
0	IC 34	50.17.1151		74HC151	IC ... 74 HC 151 ., ,A
0	IC 35	50.17.1000		74HC00	IC ... 74 HC 00 ., ,A
0	J 1	54.01.0021			J BRUECKE 2 *.63
0	J 101	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 102	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 103	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 104	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 105	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 106	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 107	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 108	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 109	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 110	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 111	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 112	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 113	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 114	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 201	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 202	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 203	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 301	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 302	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 303	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 304	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 305	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 306	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 307	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 308	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 309	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 310	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 311	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 312	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 313	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	J 314	53.03.0218		1-P	XIC SINGLE, IN-LINE 1PIN=1STK
0	MP 1	1.990.190.12			MODULE PROCESSOR PCB
0	MP 2	28.99.0119	6 pcs		ROHRNIETE D 2.5*0.15* 9
0	MP 3	1.010.012.22	2 pcs		NIETMUTTER SW 6 M 3 * 2
0	MP 4	1.101.001.31			TEXT-ETIK. 5*20 HARDWARE -31
0	MP 5	1.990.190.04			NR.-ETIKETTE 5 * 20
0	MP 6	43.01.0108			ESE-WARNSCHILD
0	MP 7	65.99.0167			POLYURH. KLEBBAND WS, 9* 3
0	P 1	54.11.2013		32-P	P EU-BK 2 * 16
0	P 2	54.11.2013		32-P	P EU-BK 2 * 16
0	P 3	54.11.2013		32-P	P EU-BK 2 * 16
0	P 101	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 102	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 103	54.02.0320		1-P	P FLACH, 2.8*0.8, GERADE
0	P 104	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 105	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 106	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 107	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 108	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 109	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 110	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 111	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 112	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	P 113	54.02.0320		1-P	P FLACH, 2.8*0.8, GERADE
0	Q 1	50.03.0407		BC550C	Q BC 550 C,
0	Q 2	50.03.1505		VN0808M	Q VN 0808 M, ZVN 0108 A, ,A
0	Q 3	50.03.1554		VP0808M	Q VP 0808 M ,A
0	R 1	57.11.3104		100k	R 100 K , 1%, 0207 , MF
0	R 2	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 3	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 4	57.11.5475		4M7	R 4.7 M , 5%, 0207 , MF
0	R 5	57.11.3102		1k	R 1 K , 1%, 0207 , MF
0	R 6	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 7	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 8	57.11.3272		2k7	R 2.7 K , 1%, 0207 , MF
0	R 9	57.11.3104		100k	R 100 K , 1%, 0207 , MF
0	R 10	57.11.5225		2M2	R 2.2 M , 5%, 0207 , MF
0	R 11	57.11.3242		2k4	R 2.4 K , 1%, 0207 , MF
0	R 12	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 13	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 14	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 15	57.11.3242		2k4	R 2.4 K , 1%, 0207 , MF
0	R 16	57.11.5225		2M2	R 2.2 M , 5%, 0207 , MF
0	R 17	57.11.3104		100k	R 100 K , 1%, 0207 , MF
0	R 18	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 19	57.11.3272		2k7	R 2.7 K , 1%, 0207 , MF
0	R 20	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 21	57.11.3751		750	R 750 , 1%, 0207 , MF
0	R 22	57.11.3221		220	R 220 , 1%, 0207 , MF
0	R 23	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 24	57.11.3223		22k	R 22 K , 1%, 0207 , MF
0	R 25	57.11.3223		22k	R 22 K , 1%, 0207 , MF
0	R 26	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 27	57.11.3473		47k	R 47 K , 1%, 0207 , MF
0	R 28	57.11.3473		47k	R 47 K , 1%, 0207 , MF
0	R 29	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 30	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 31	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 32	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 33	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 34	57.92.7014		0.65A	RT 650 MA ,POLY- PTC
0	R 35	57.92.7014		0.65A	RT 650 MA ,POLY- PTC
0	R 36	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 37	57.11.3101		100	R 100 , 1%, 0207 , MF
0	R 38	57.11.3101		100	R 100 , 1%, 0207 , MF
0	R 39	57.11.3101		100	R 100 , 1%, 0207 , MF
0	R 40	57.11.3101		100	R 100 , 1%, 0207 , MF
0	R 41	57.11.3101		100	R 100 , 1%, 0207 , MF
0	R 42	57.11.3101		100	R 100 , 1%, 0207 , MF
0	R 43	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 44	57.11.3101		100	R 100 , 1%, 0207 , MF
0	R 45	57.11.3103		10k	R 10 K , 1%, 0207 , MF
0	R 46	57.11.3102		1k	R 1 K , 1%, 0207 , MF
0	R 47	57.92.7014		0.65A	RT 650 MA ,POLY- PTC
0	R 48	57.11.3330		33	R 33 , 1%, 0207 , MF
0	R 49	57.11.3330		33	R 33 , 1%, 0207 , MF
0	RA 1	58.05.0104		100k	R 100 K , 10%, .5 W , PMG
0	RA 2	58.05.0104		100k	R 100 K , 10%, .5 W , PMG
0	RA 3	58.05.0104		100k	R 100 K , 10%, .5 W , PMG
0	RA 4	58.05.0202		2k	R 2 K , 10%, .5 W , PMG
0	RA 5	58.05.0103		10k	R 10 K , 10%, .5 W , PMG
0	RA 6	58.05.0202		2k	R 2 K , 10%, .5 W , PMG
0	RZ 1	57.88.4103		10k	RZ 8 * 10 K, 2%, SIP 9
0	RZ 2	57.88.4103		10k	RZ 8 * 10 K, 2%, SIP 9
0	RZ 3	57.88.4473		47k	RZ 8 * 47 K, 2%, SIP 9
0	RZ 4	57.88.4103		10k	RZ 8 * 10 K, 2%, SIP 9
0	RZ 5	57.88.4103		10k	RZ 8 * 10 K, 2%, SIP 9
0	RZ 6	57.88.4102		1k	RZ 8 * 1 K, 2%, SIP 9
0	RZ 7	57.88.4473		47k	RZ 8 * 47 K, 2%, SIP 9
0	RZ 8	57.88.4103		10k	RZ 8 * 10 K, 2%, SIP 9
0	RZ 9	57.88.2101		R 4*100R	RZ 4 * 100 , 2%, SIP 8
0	RZ 10	57.88.2101		R 4*100R	RZ 4 * 100 , 2%, SIP 8
0	RZ 11	57.88.2101		R 4*100R	RZ 4 * 100 , 2%, SIP 8
0	RZ 12	57.88.4104		100k	RZ 8 * 100 K, 2%, SIP 9
0	RZ 13	57.88.4103		10k	RZ 8 * 10 K, 2%, SIP 9
0	XIC 10	53.03.0166			XIC DIL 8-POL
0	XIC 11	53.03.0173			XIC DIL 28-POL,
0	XIC 12	53.03.0168			XIC DIL 16-POL
0	XIC 13	53.03.0175			XIC DIL 18-POL,
0	XIC 17	53.03.0166			XIC DIL 8-POL
0	XIC 18	53.03.2268			XIC PLCC 68 PIN
0	XIC 31	53.03.0168			XIC DIL 16-POL
0	Y 1	89.01.1008		8.0000MHz	Y 8.000 MHZ, HC 18/U

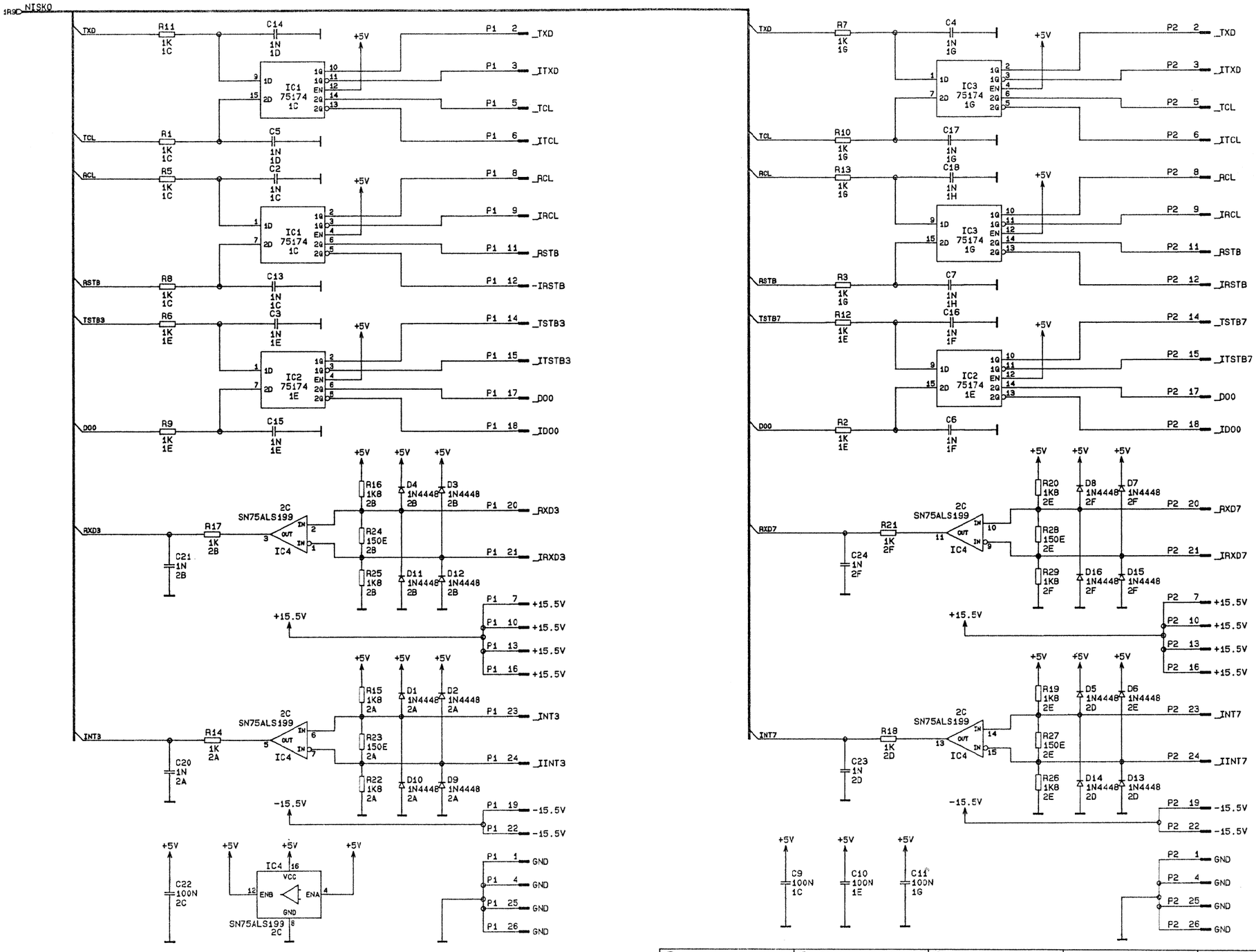
End of List

Comments

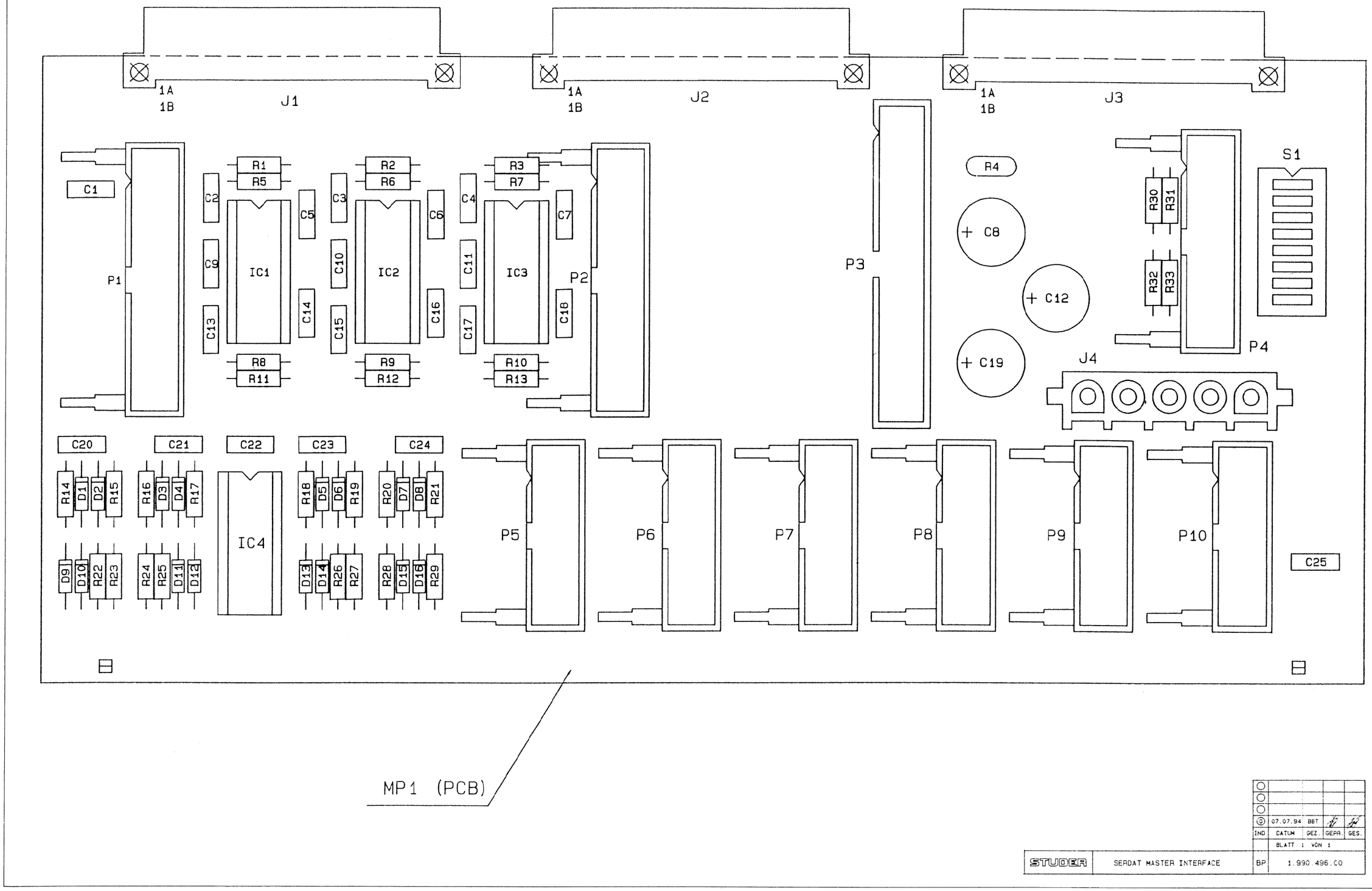
Serdat Master Interface 1.990.496.00



Serdat Master Interface 1.990.496.00



Serdat Master Interface 1.990.496.00



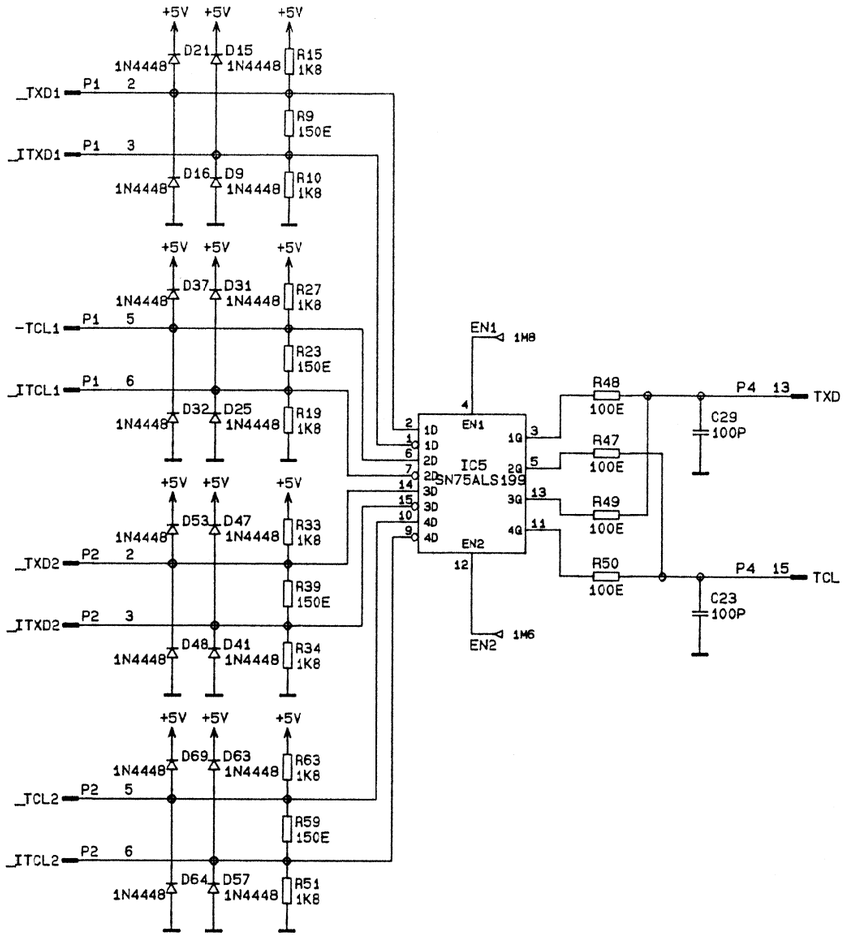
Serdat Master Interface 1.990.496.00

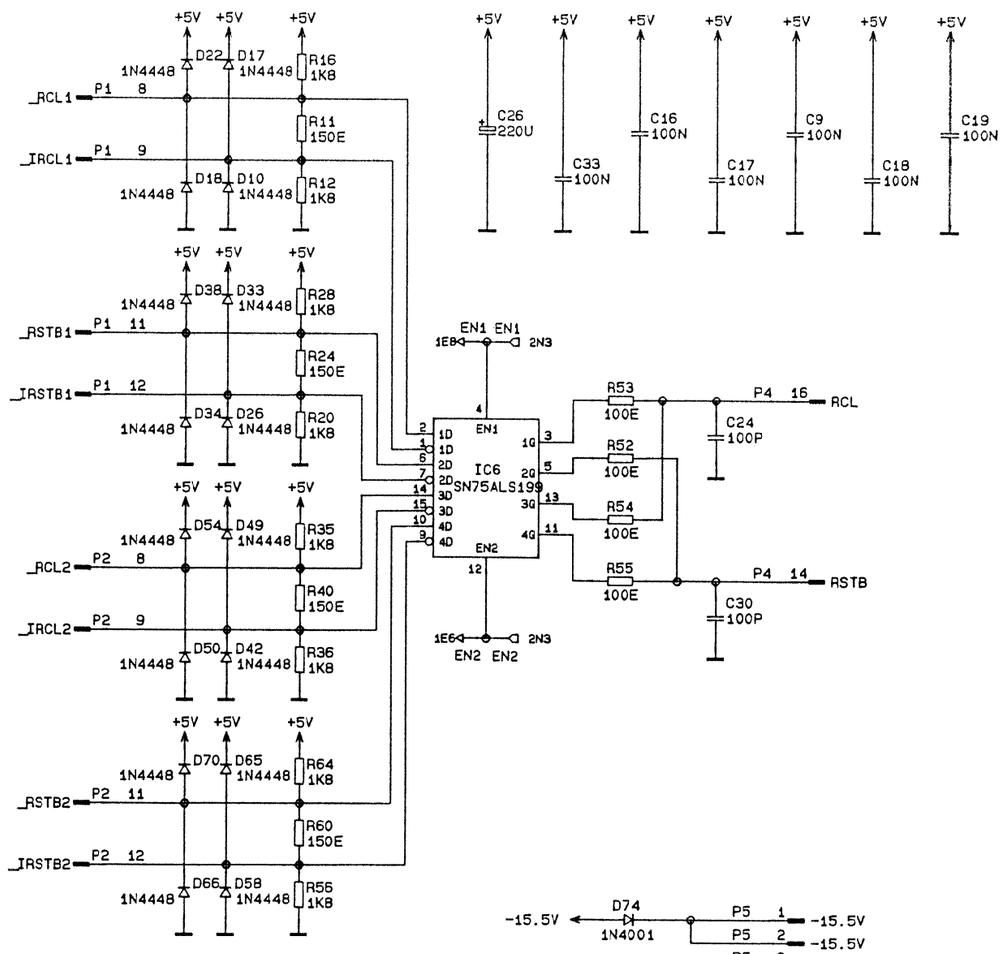
Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.06.0104		100n	PETP, 10%, 63V
0	C 2	. . .0			
0	C 3	. . .0			
0	C 4	. . .0			
0	C 5	. . .0			
0	C 6	. . .0			
0	C 7	. . .0			
0	C 8	59.22.4221		220u	EL 16V, 20%, rad RM5
0	C 9	59.06.0104		100n	PETP, 10%, 63V
0	C 10	59.06.0104		100n	PETP, 10%, 63V
0	C 11	59.06.0104		100n	PETP, 10%, 63V
0	C 12	59.22.4221		220u	EL 16V, 20%, rad RM5
0	C 13	. . .0			
0	C 14	. . .0			
0	C 15	. . .0			
0	C 16	. . .0			
0	C 17	. . .0			
0	C 18	. . .0			
0	C 19	59.22.4221		220u	EL 16V, 20%, rad RM5
0	C 20	. . .0			
0	C 21	. . .0			
0	C 22	59.06.0104		100n	PETP, 10%, 63V
0	C 23	. . .0			
0	C 24	. . .0			
0	C 25	59.06.0104		100n	PETP, 10%, 63V
0	D 1	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 2	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 3	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 4	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 5	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 6	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 10	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 12	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 13	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 14	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 15	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 16	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	IC 1	50.15.0121		75174	IC SN 75174 N
0	IC 2	50.15.0121		75174	IC SN 75174 N
0	IC 3	50.15.0121		75174	IC SN 75174 N
0	IC 4	50.15.0125		SN75ALS199	IC SN 75 ALS 199 N
0	J 1	54.11.2038			J EU-QK 2 * 16
0	J 2	54.11.2038			J EU-QK 2 * 16
0	J 3	54.11.2038			J EU-QK 2 * 16
0	J 4	54.25.0005		5p	J BUCHSE 5 POL 12 A AMP
0	MP 1	1.990.496.11	1 mp		SERDAT MASTER IF PCB /I\
0	MP 2	1.990.496.04	1 mp		NR.-ETIKETTE 5 * 20
0	MP 3	28.99.0119	6 mp		ROHRNIETE D 2.5*0.15* 9
0	P 1	54.14.2104		26p	P STECKER 26 P,AU,VR,GERADE
0	P 2	54.14.2104		26p	P STECKER 26 P,AU,VR,GERADE
0	P 3	54.14.2105		34p	P STECKER 34 P,AU,VR,GERADE
0	P 4	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE
0	P 5	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 6	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 7	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 8	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 9	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 10	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	R 1	57.11.3102		1k0	MF, 1%, 0207
0	R 2	57.11.3102		1k0	MF, 1%, 0207
0	R 3	57.11.3102		1k0	MF, 1%, 0207
0	R 4	57.92.7013		0.5A	POLY- PTC, 60V
0	R 5	57.11.3102		1k0	MF, 1%, 0207
0	R 6	57.11.3102		1k0	MF, 1%, 0207
0	R 7	57.11.3102		1k0	MF, 1%, 0207
0	R 8	57.11.3102		1k0	MF, 1%, 0207
0	R 9	57.11.3102		1k0	MF, 1%, 0207
0	R 10	57.11.3102		1k0	MF, 1%, 0207
0	R 11	57.11.3102		1k0	MF, 1%, 0207
0	R 12	57.11.3102		1k0	MF, 1%, 0207
0	R 13	57.11.3102		1k0	MF, 1%, 0207
0	R 14	57.11.3102		1k0	MF, 1%, 0207
0	R 15	57.11.3182		1k8	MF, 1%, 0207
0	R 16	57.11.3182		1k8	MF, 1%, 0207
0	R 17	57.11.3102		1k0	MF, 1%, 0207
0	R 18	57.11.3102		1k0	MF, 1%, 0207
0	R 19	57.11.3182		1k8	MF, 1%, 0207
0	R 20	57.11.3182		1k8	MF, 1%, 0207
0	R 21	57.11.3102		1k0	MF, 1%, 0207
0	R 22	57.11.3182		1k8	MF, 1%, 0207
0	R 23	57.11.3151		150R	MF, 1%, 0207
0	R 24	57.11.3151		150R	MF, 1%, 0207
0	R 25	57.11.3182		1k8	MF, 1%, 0207
0	R 26	57.11.3182		1k8	MF, 1%, 0207
0	R 27	57.11.3151		150R	MF, 1%, 0207
0	R 28	57.11.3151		150R	MF, 1%, 0207
0	R 29	57.11.3182		1k8	MF, 1%, 0207
0	R 30	57.11.3000		0R0	MF, 0207
0	R 31	57.11.3000		0R0	MF, 0207
0	R 32	57.11.3000		0R0	MF, 0207
0	R 33	57.11.3000		0R0	MF, 0207
0	S 1	55.01.0168		8*a	SZ , 8*A, DIL
0	XIC 1	53.03.0168		16p	DIL 0.3", löt, gerade
0	XIC 2	53.03.0168		16p	DIL 0.3", löt, gerade
0	XIC 3	53.03.0168		16p	DIL 0.3", löt, gerade
0	XIC 4	53.03.0168		16p	DIL 0.3", löt, gerade

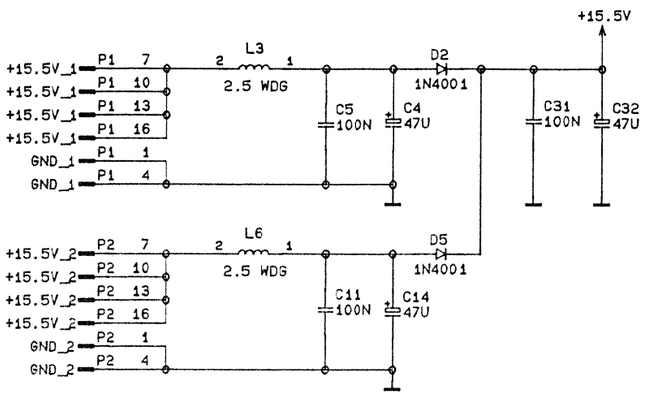
End of List

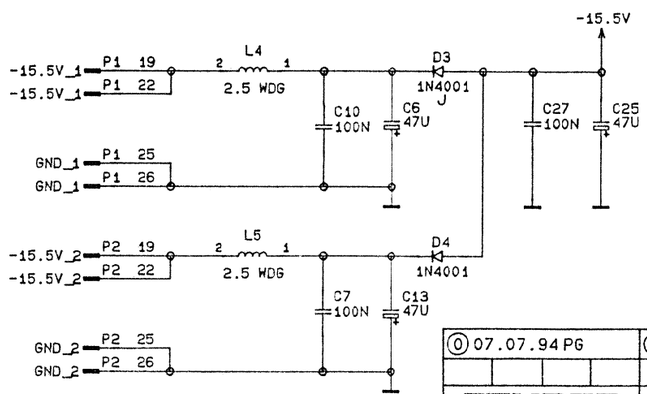
Comments:

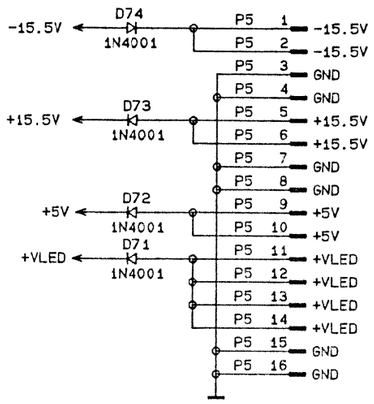
Serdat Slave Interface 1.990.497.00







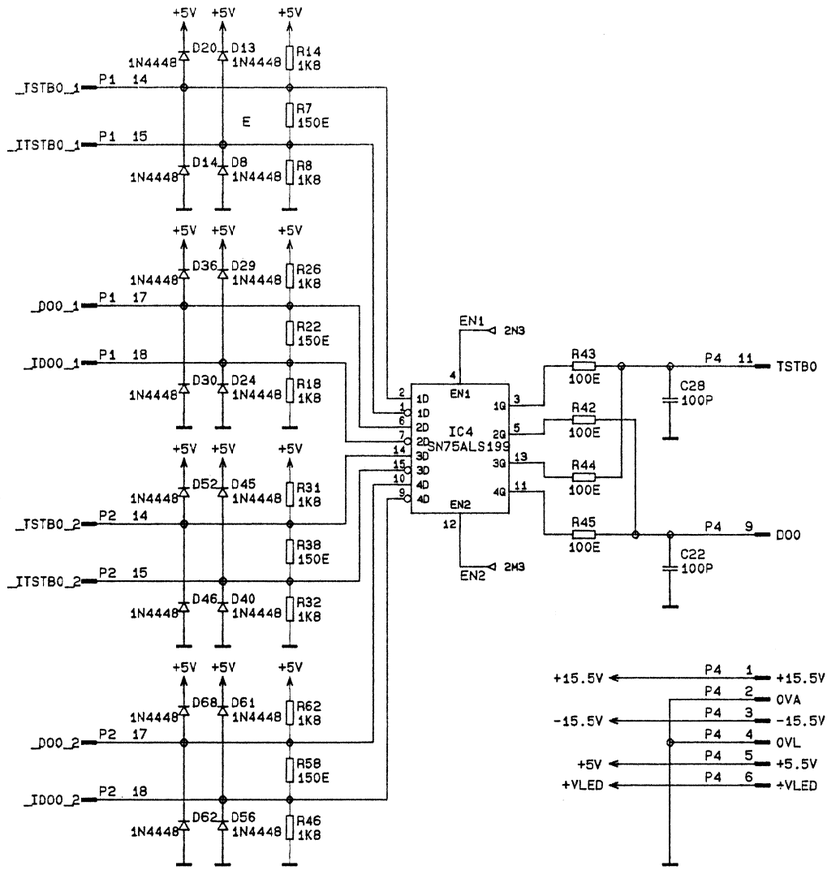


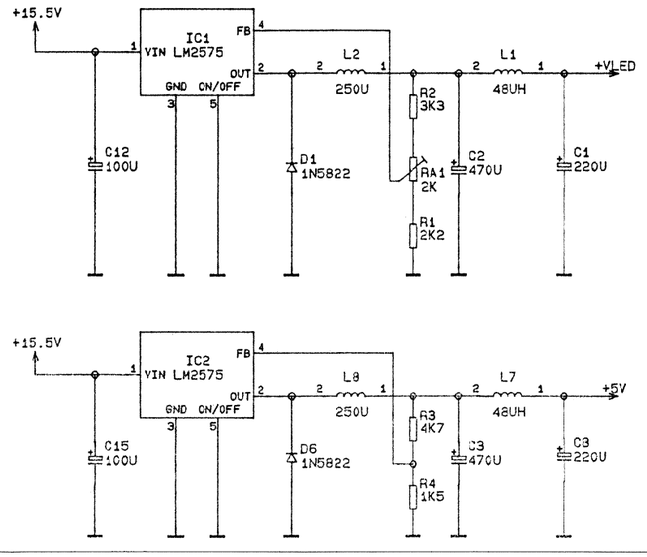


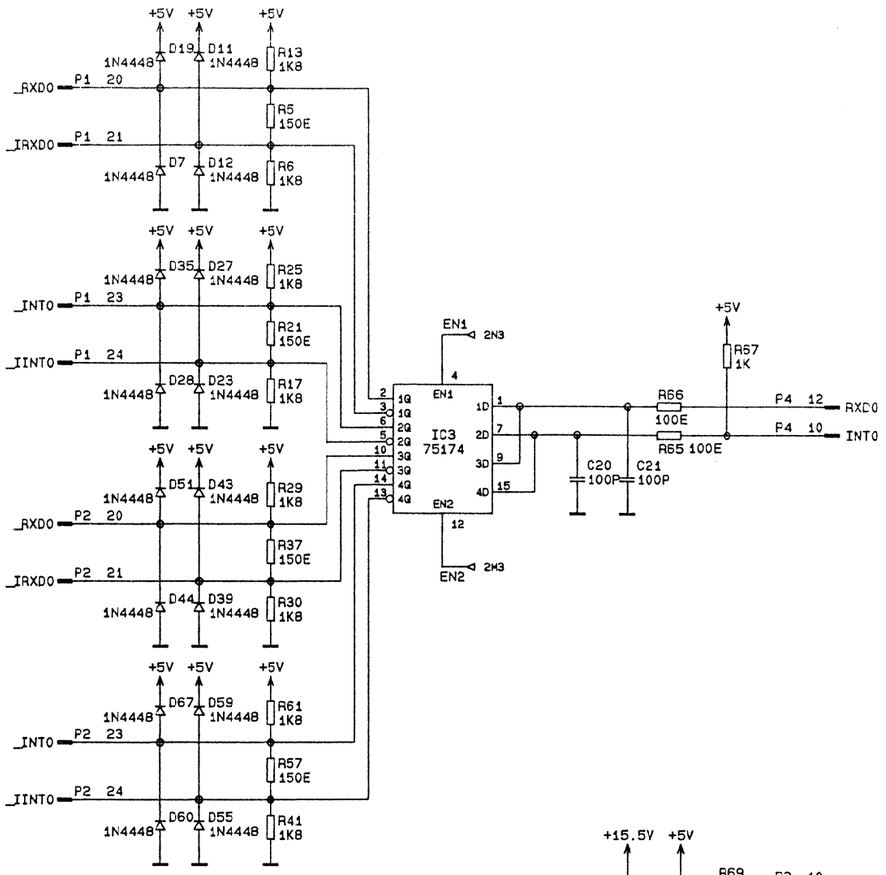
FROM EXTERNAL POWER SUPPLY

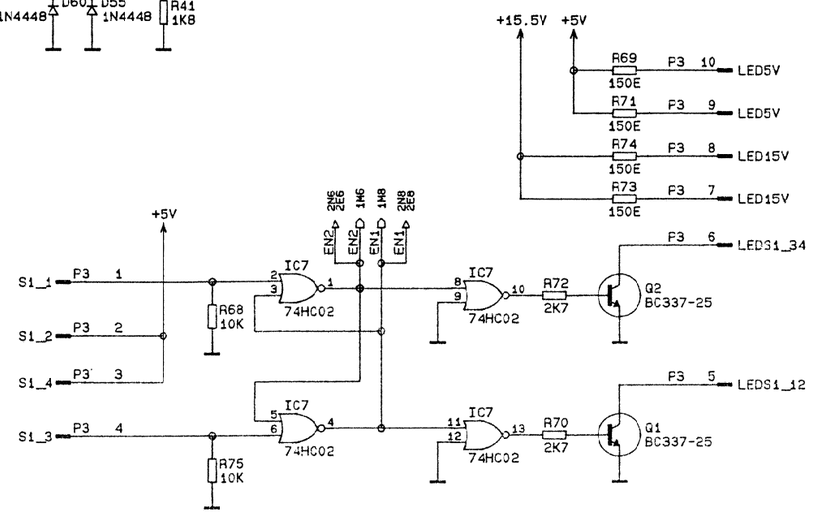
⓪ 07.07.94 PG				
	D941 MIXING CONSOLE			PAGE 1 OF 2
STUDER	SERDAT SLAVE INTERFACE ESE		SC	1.990.497.00

Serdat Slave Interface 1.990.497.00



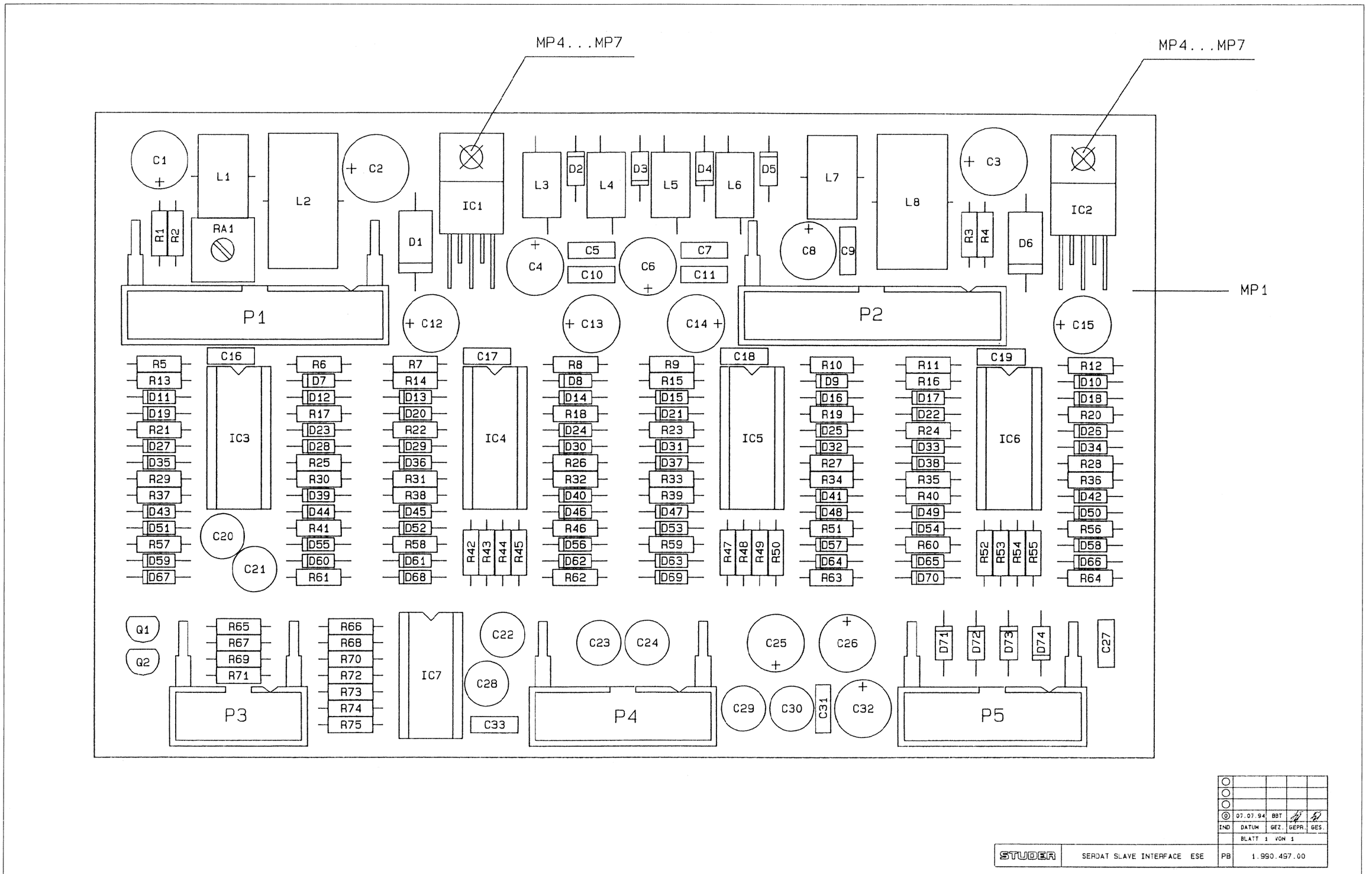






07.07.94 PG				
	D941 MIXING CONSOLE			PAGE 2 OF 2
STUDER	SERDAT SLAVE INTERFACE ESE	SC	1.990.497.00	

Serdat Slave Interface 1.990.497.00



IND	DATUM	GEZ.	GEPR.	GES.
0	07.07.94	BBT		

BLATT 1 VON 1

STUDER | SERDAT SLAVE INTERFACE ESE | PB | 1.990.497.00

Serdat Slave Interface 1.990.497.00

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.22.3221		220u	EL 10V, 20%, RM5
0	C 2	59.22.4471		470u	EL 16V, 20%, RM5
0	C 3	59.22.4471		470u	EL 16V, 20%, RM5
0	C 4	59.22.6470		47u	EL 40V, 20%, RM5
0	C 5	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 6	59.22.6470		47u	EL 40V, 20%, RM5
0	C 7	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 8	59.22.3221		220u	EL 10V, 20%, RM5
0	C 9	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 10	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 11	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 12	59.22.5101		100u	EL 25V, 20%, RM5
0	C 13	59.22.6470		47u	EL 40V, 20%, RM5
0	C 14	59.22.6470		47u	EL 40V, 20%, RM5
0	C 15	59.22.5101		100u	EL 25V, 20%, RM5
0	C 16	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 17	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 18	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 19	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 20	not used			
0	C 21	not used			
0	C 22	not used			
0	C 23	not used			
0	C 24	not used			
0	C 25	59.22.6470		47u	EL 40V, 20%, RM5
0	C 26	59.22.3221		220u	EL 10V, 20%, RM5
0	C 27	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 28	not used			
0	C 29	not used			
0	C 30	not used			
0	C 31	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	C 32	59.22.6470		47u	EL 40V, 20%, RM5
0	C 33	59.06.0104		100n	PETP, 63V, 10%, RM 5
0	D 1	50.04.0519		1N5822	3A, Schottky
0	D 2	50.04.0122		1N4001	1A, DO 41
0	D 3	50.04.0122		1N4001	1A, DO 41
0	D 4	50.04.0122		1N4001	1A, DO 41
0	D 5	50.04.0122		1N4001	1A, DO 41
0	D 6	50.04.0519		1N5822	3A, Schottky
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 10	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 12	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 13	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 14	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 15	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 16	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 17	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 18	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 19	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 20	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 21	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 22	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 23	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 24	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 25	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 26	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 27	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 28	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 29	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 30	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 31	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 32	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 33	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 34	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 35	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 36	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 37	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 38	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 39	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 40	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 41	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 42	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 43	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 44	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 45	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 46	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 47	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 48	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 49	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 50	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 51	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 52	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 53	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 54	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 55	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 56	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 57	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 58	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 59	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 60	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 61	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 62	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 63	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 64	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 65	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 66	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 67	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 68	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 69	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 70	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 71	50.04.0122		1N4001	1A, DO 41
0	D 72	50.04.0122		1N4001	1A, DO 41
0	D 73	50.04.0122		1N4001	1A, DO 41
0	D 74	50.04.0122		1N4001	1A, DO 41
0	IC 1	50.10.0121		LM2575HV	5V, 1A Switching Reg
0	IC 2	50.10.0121		LM2575HV	5V, 1A Switching Reg
0	IC 3	50.15.0121		75174	IC SN 75174 N
0	IC 4	50.15.0125		75ALS199	IC SN 75 ALS 199 N
0	IC 5	50.15.0125		75ALS199	IC SN 75 ALS 199 N
0	IC 6	50.15.0125		75ALS199	IC SN 75 ALS 199 N
0	IC 7	50.17.1002		74HC02	IC ... 74 HC 02 . ,A
0	L 1	62.03.0010		48uH	L 48 U , 2 A, FILTER
0	L 2	62.03.0025		250uH	L 250 U , 2 A, FILTER
0	L 3	62.01.0115		2.5Wdg	L BREITBAND-
0	L 4	62.01.0115		2.5Wdg	L BREITBAND-
0	L 5	62.01.0115		2.5Wdg	L BREITBAND-
0	L 6	62.01.0115		2.5Wdg	L BREITBAND-
0	L 7	62.03.0010		48uH	L 48 U , 2 A, FILTER
0	L 8	62.03.0025		250uH	L 250 U , 2 A, FILTER
0	MP 1	1.990.497.11	1 pce		SERDAT SLAVE IF PCB /!\
0	MP 2	1.990.497.04	1 pce		NR.-ETIKETTE 5 * 20
0	MP 3	43.01.0108	1 pce	Label	ESE-WARNSCHILD
0	MP 4	21.51.8354	2 pcs		LIN-SCHR. IS . NI . M 3 * 6
0	MP 5	23.01.1032	2 pcs		U-SCHEIBE D 3.2/6 *0.5
0	MP 6	24.16.1030	2 pcs		RIPPENSCHEIBE D 3.2/5.5
0	MP 7	22.01.5030	2 pcs		6KT-MUTTER 0.5 D , M 3
0	P 1	54.14.2104		26p	P STECKER 26 P,AU,VR,GERADE
0	P 2	54.14.2104		26p	P STECKER 26 P,AU,VR,GERADE
0	P 3	54.14.2101		10p	P STECKER 10 P,AU,VR,GERADE
0	P 4	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	P 5	54.14.2102		16p	P STECKER 16 P,AU,VR,GERADE
0	Q 1	50.03.0340		BC337-25	800mA, 45V, NPN
0	Q 2	50.03.0340		BC337-25	800mA, 45V, NPN
0	R 1	57.11.3222		2k2	MF, 1%, 0207
0	R 2	57.11.3332		3k3	MF, 1%, 0207
0	R 3	57.11.3472		4k7	MF, 1%, 0207
0	R 4	57.11.3152		1k5	MF, 1%, 0207
0	R 5	not used			
0	R 6	57.11.3182		1k8	MF, 1%, 0207
0	R 7	57.11.3151		150R	MF, 1%, 0207
0	R 8	57.11.3182		1k8	MF, 1%, 0207
0	R 9	57.11.3151		150R	MF, 1%, 0207
0	R 10	57.11.3182		1k8	MF, 1%, 0207
0	R 11	57.11.3151		150R	MF, 1%, 0207
0	R 12	57.11.3182		1k8	MF, 1%, 0207
0	R 13	57.11.3182		1k8	MF, 1%, 0207
0	R 14	57.11.3182		1k8	MF, 1%, 0207
0	R 15	57.11.3182		1k8	MF, 1%, 0207
0	R 16	57.11.3182		1k8	MF, 1%, 0207
0	R 17	57.11.3182		1k8	MF, 1%, 0207
0	R 18	57.11.3182		1k8	MF, 1%, 0207
0	R 19	57.11.3182		1k8	MF, 1%, 0207
0	R 20	57.11.3182		1k8	MF, 1%, 0207
0	R 21	not used			
0	R 22	57.11.3151		150R	MF, 1%, 0207
0	R 23	57.11.3151		150R	MF, 1%, 0207
0	R 24	57.11.3151		150R	MF, 1%, 0207
0	R 25	57.11.3182		1k8	MF, 1%, 0207
0	R 26	57.11.3182		1k8	MF, 1%, 0207
0	R 27	57.11.3182		1k8	MF, 1%, 0207
0	R 28	57.11.3182		1k8	MF, 1%, 0207
0	R 29	57.11.3182		1k8	MF, 1%, 0207
0	R 30	57.11.3182		1k8	MF, 1%, 0207
0	R 31	57.11.3182		1k8	MF, 1%, 0207
0	R 32	57.11.3182		1k8	MF, 1%, 0207
0	R 33	57.11.3182		1k8	MF, 1%, 0207
0	R 34	57.11.3182		1k8	MF, 1%, 0207
0	R 35	57.11.3182		1k8	MF, 1%, 0207
0	R 36	57.11.3182		1k8	MF, 1%, 0207
0	R 37	not used			
0	R 38	57.11.3151		150R	MF, 1%, 0207
0	R 39	57.11.3151		150R	MF, 1%, 0207
0	R 40	57.11.3151		150R	MF, 1%, 0207
0	R 41	57.11.3182		1k8	MF, 1%, 0207
0	R 42	57.11.3101		100R	MF, 1%, 0207
0	R 43	57.11.3101		100R	MF, 1%, 0207
0	R 44	57.11.3101		100R	MF, 1%, 0207
0	R 45	57.11.3101		100R	MF, 1%, 0207
0	R 46	57.11.3182		1k8	MF, 1%, 0207
0	R 47	57.11.3101		100R	MF, 1%, 0207
0	R 48	57.11.3101		100R	MF, 1%, 0207
0	R 49	57.11.3101		100R	MF, 1%, 0207
0	R 50	57.11.3101		100R	MF, 1%, 0207
0	R 51	57.11.3182		1k8	MF, 1%, 0207
0	R 52	57.11.3101		100R	MF, 1%, 0207
0	R 53	57.11.3101		100R	MF, 1%, 0207
0	R 54	57.11.3101		100R	MF, 1%, 0207
0	R 55	57.11.3101		100R	MF, 1%, 0207
0	R 56	57.11.3182		1k8	MF, 1%, 0207
0	R 57	not used			
0	R 58	57.11.3151		150R	MF, 1%, 0207
0	R 59	57.11.3151		150R	MF, 1%, 0207
0	R 60	57.11.3151		150R	MF, 1%, 0207
0	R 61	57.11.3182		1k8	MF, 1%, 0207
0	R 62	57.11.3182		1k8	MF, 1%, 0207
0	R 63	57.11.3182		1k8	MF, 1%, 0207
0	R 64	57.11.3182		1k8	MF, 1%, 0207
0	R 65	57.11.3101		100R	MF, 1%, 0207
0	R 66	57.11.3101		100R	MF, 1%, 0207
0	R 67	57.11.3102		1k0	MF, 1%, 0207
0	R 68	57.11.3103		10k	MF, 1%, 0207
0	R 69	57.11.3151		150R	MF, 1%, 0207
0	R 70	57.11.3272		2k7	MF, 1%, 0207
0	R 71	57.11.3151		150R	MF, 1%, 0207
0	R 72	57.11.3272		2k7	MF, 1%, 0207
0	R 73	57.11.3151		150R	MF, 1%, 0207
0	R 74	57.11.3151		150R	MF, 1%, 0207
0	R 75	57.11.3103		10k	MF, 1%, 0207
0	RA 1	58.01.8202		2k	Cermet, 10%, 0.5W, horizontal
0	XIC 3	53.03.0168		16p	DIL 0.3", löt, gerade
0	XIC 4	53.03.0168		16p	DIL 0.3", löt, gerade
0	XIC 5	53.03.0168		16p	DIL 0.3", löt, gerade
0	XIC 6	53.03.0168		16p	DIL 0.3", löt, gerade
0	XIC 7	53.03.0167		14p	DIL 0.3", löt, gerade

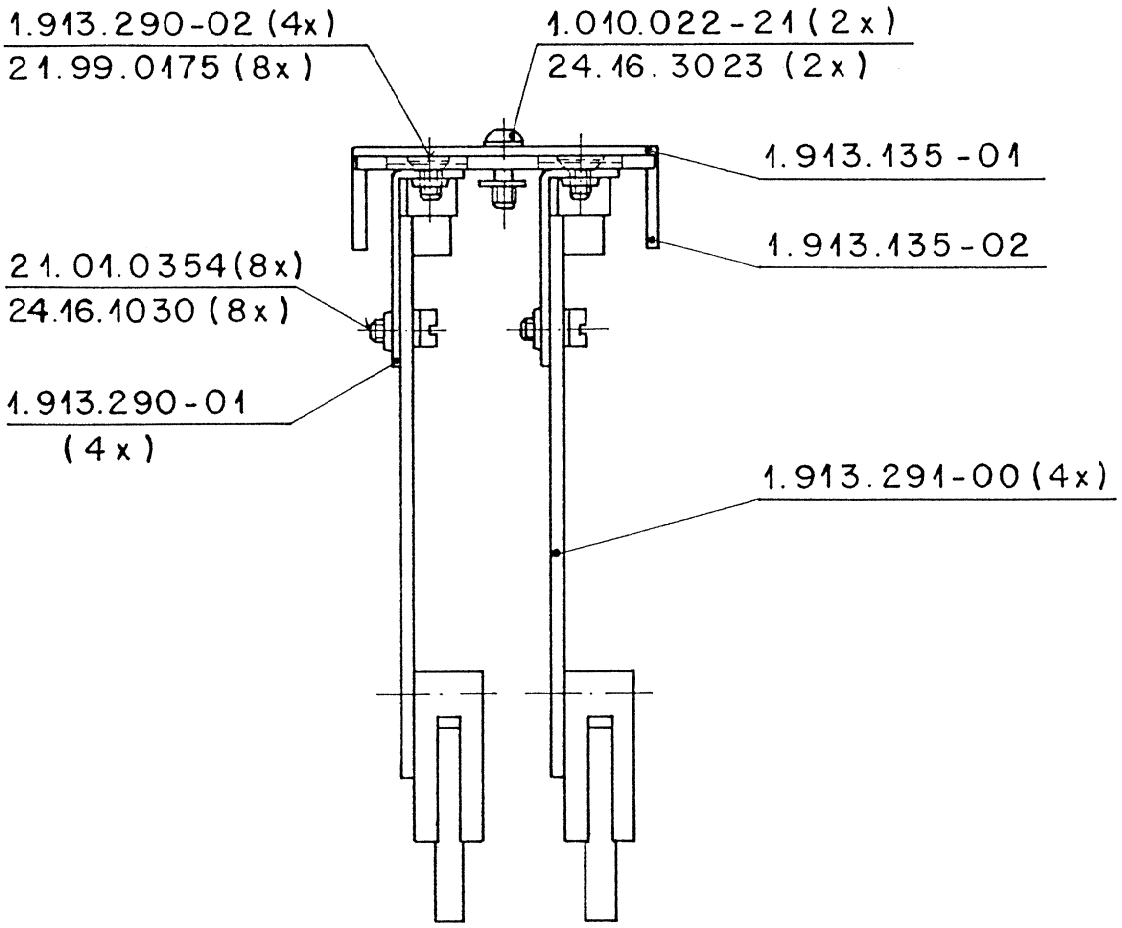
End of List

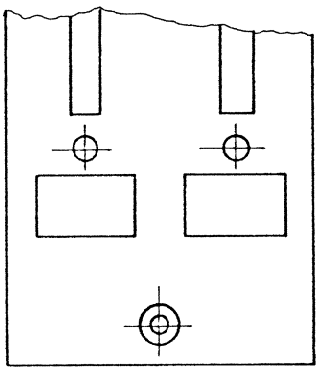
Comments:

SCHEMATA / CIRCUIT DIAGRAMS

Meter Panel Units

Aux Indicator 4x LED 1.913.135.00



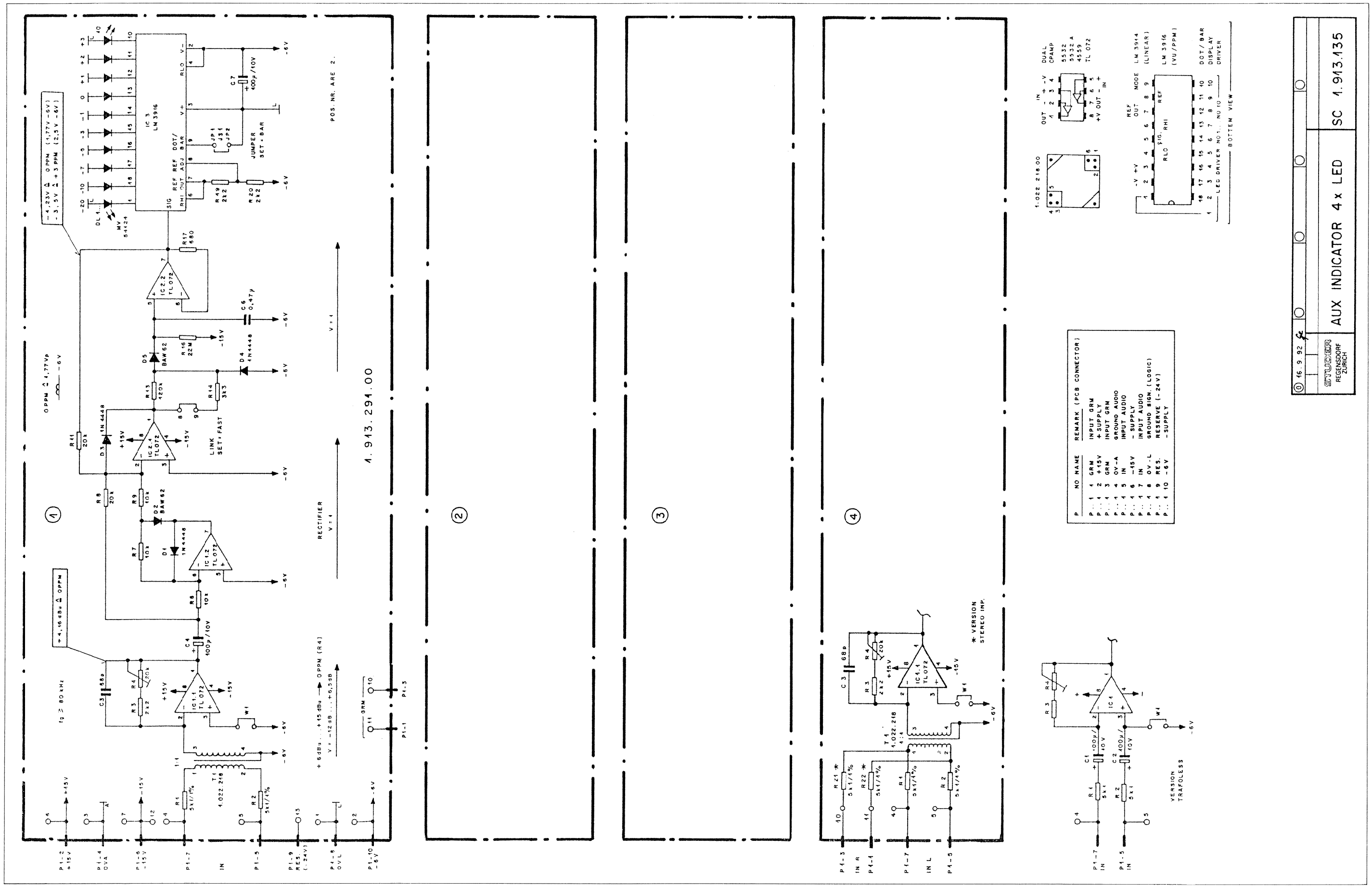


Änderung					
					3
					2
					1
Ausgabe	14.2.90				0
	Datum	Gez	Gepr	Ges	Index

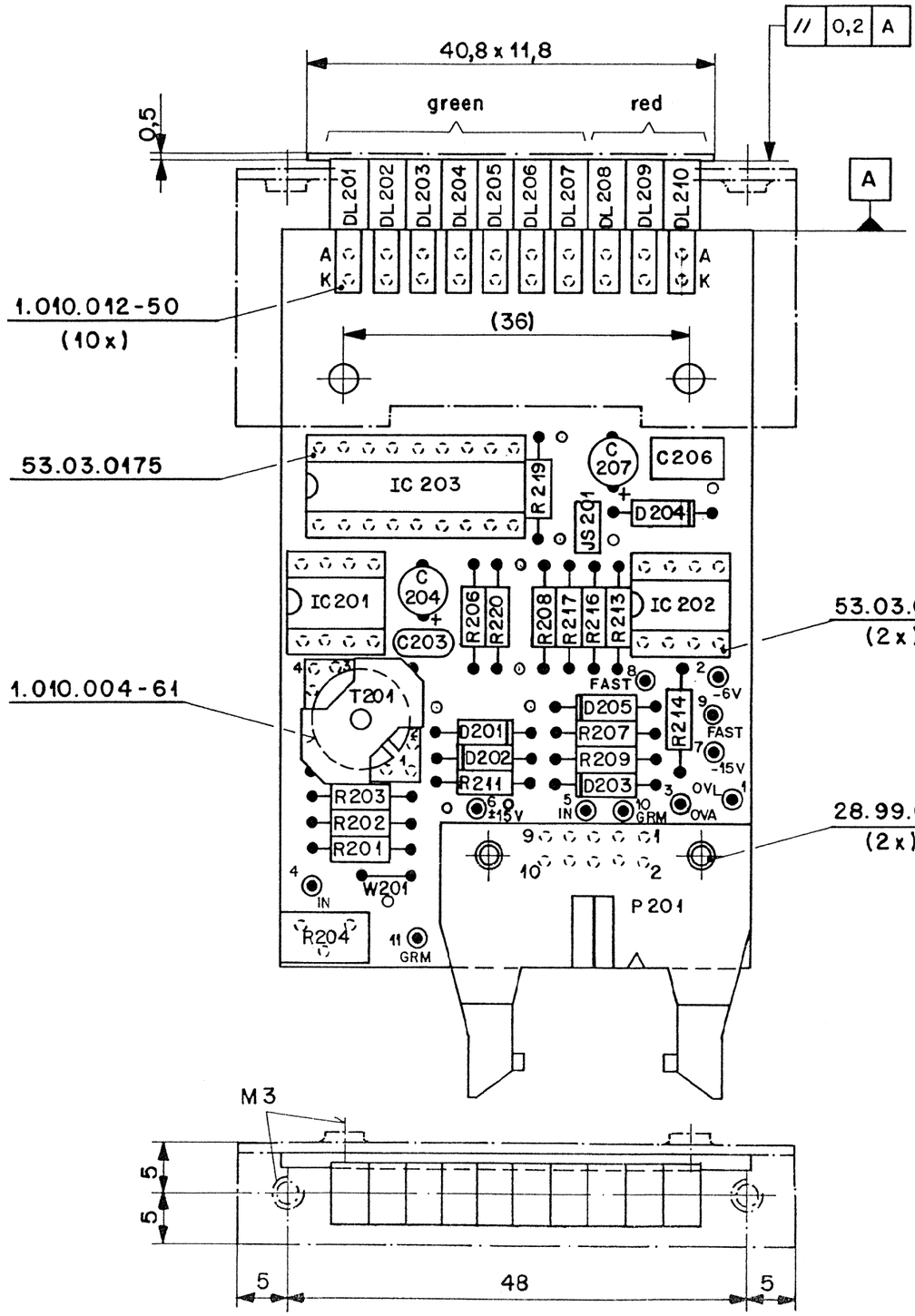
Kopie für

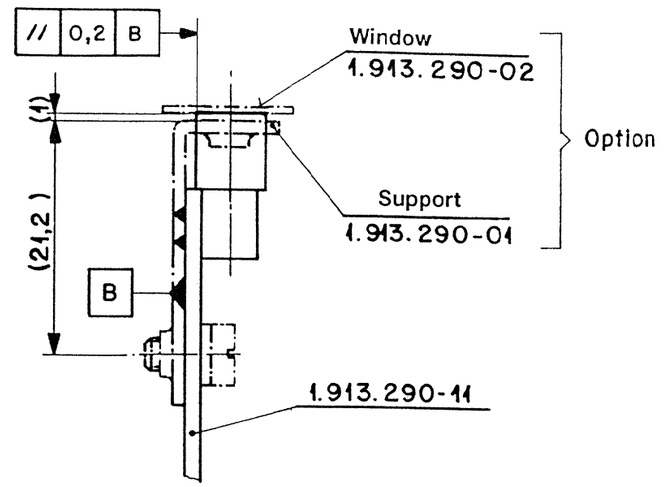
STUDER REGENSDORF ZÜRICH	Benennung: AUX INDICATOR 4x LED	Nummer: 1.913.135-00

Aux Indicator 4x LED 1.913.135.00



LED PPM Meter 1.913.291.00





Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 201	not used		not used	not used
0	C 202	not used		not used	not used
0	C 203	59.34.2680		68p	CER 63V, 5%, N150
0	C 204	59.22.3101		100u	EL 10V, 20%, RM5
0	C 205	not used		not used	not used
0	C 206	59.06.5474		470n	PETP, 63V, 5%, RM5
0	C 207	59.22.3101		100u	EL 10V, 20%, RM5
0	D 201	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 202	50.04.0132		BAW62	D BAW 62
1	D 203	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
1	D 204	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
1	D 205	50.04.0132		BAW62	D BAW 62
0	D 206	not used		not used	not used
0	DL 201	50.04.2146		MV54124A	DL MV 54124 A, GN
0	DL 202	50.04.2146		MV54124A	DL MV 54124 A, GN
0	DL 203	50.04.2146		MV54124A	DL MV 54124 A, GN
0	DL 204	50.04.2146		MV54124A	DL MV 54124 A, GN
0	DL 205	50.04.2146		MV54124A	DL MV 54124 A, GN
0	DL 206	50.04.2146		MV54124A	DL MV 54124 A, GN
0	DL 207	50.04.2146		MV54124A	DL MV 54124 A, GN
0	DL 208	50.04.2119		MV57124A	DL MV 57124 A, RT
0	DL 209	50.04.2119		MV57124A	DL MV 57124 A, RT
0	DL 210	50.04.2119		MV57124A	DL MV 57124 A, RT
0	IC 201	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 202	50.09.0101		TL072	IC TL 072 CN ,A
0	IC 203	50.11.0144			IC LM 3916 N
0	JP 201	54.01.0020		1p	Pin 0.63*0.63
0	JP 202	54.01.0020		1p	Pin 0.63*0.63
0	JS 201	54.01.0021		Jumper	0.63 * 0.63mm
0	MP 201	1.913.290.11	1 pce		LED METER PCB
0	MP 202	1.010.012.50	10 pcs		DIODENHALTER
0	MP 203	28.99.0119	2 pcs		ROHRNIETE D 2.5*0.15* 9
0	MP 204	not used		not used	not used
0	MP 205	53.03.0166	2 pcs	8p	DIL 0.3", lot. gerade
0	MP 206	53.03.0175	1 pce	18p	DIL 0.3", lot. gerade
0	MP 207	54.02.0471	11 pcs		P STIFT D 1.5 * 5.5 LOET
0	MP 208	1.010.004.61	1 pce		PSP-UNTERLAGE ZU SCHKE. R 5
0	P 201	54.14.2011			P STECKER 10 P , AU, WINKEL
0	R 201	57.11.3512		5k1	MF, 1%, 0207
0	R 202	57.11.3512		5k1	MF, 1%, 0207
0	R 203	57.11.4222			R 2.2 K , 2%, 0207 , MF
0	R 204	58.01.9203		20k	Cermet, 10%, 0.5W, vertical
0	R 205	not used		not used	not used *replaced by W 201*
0	R 206	57.11.4103			R 10 K , 2%, 0207 , MF
0	R 207	57.11.4103			R 10 K , 2%, 0207 , MF
0	R 208	57.11.3203		20k	MF, 1%, 0207
0	R 209	57.11.4103			R 10 K , 2%, 0207 , MF
0	R 210	not used		not used	not used
0	R 211	57.11.3203		20k	MF, 1%, 0207
0	R 212	not used		not used	not used *replaced by D 203*
0	R 213	57.11.4823			R 82 K , 2%, 0207 , MF
0	R 214	57.11.4332			R 3.3 K , 2%, 0207 , MF
0	R 215	not used		not used	not used *replaced by D 205*
0	R 216	57.11.6226		22M	MF, 10%, 0207
0	R 217	57.11.4681			R 680 , 2%, 0207 , MF
0	R 218	not used		not used	not used
0	R 219	57.11.4222			R 2.2 K , 2%, 0207 , MF
0	R 220	57.11.4222			R 2.2 K , 2%, 0207 , MF
0	R 221	not used		not used	not used
0	T 201	1.022.218.00			EINGANGSTRAFO 1 : 1
0	W 201	1.010.321.64		Wire	DRAHTBRUECKE U, 4.3* 5.0, 0.6

End of List

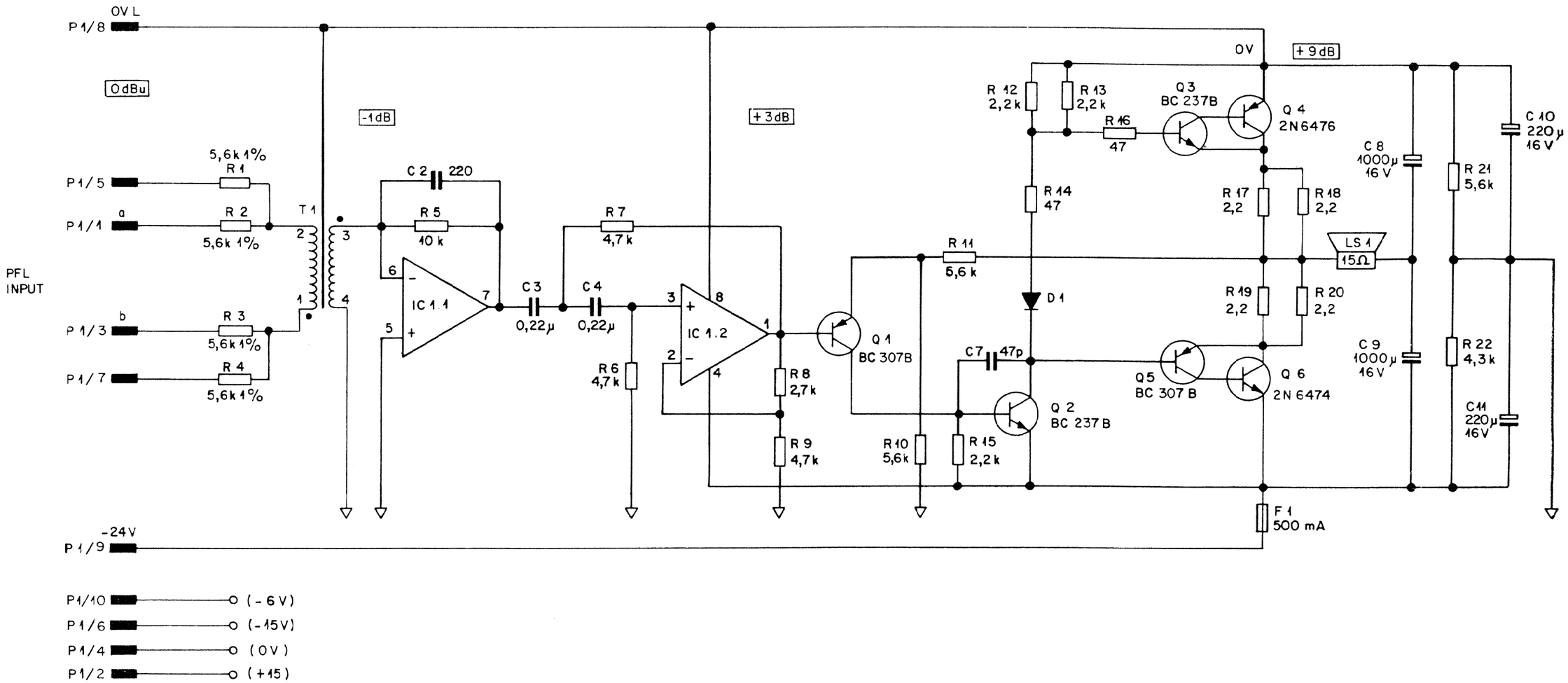
Comments:

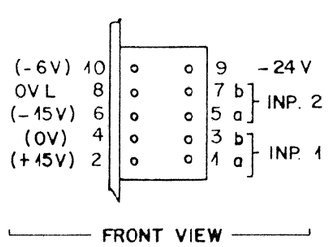
Änderung					
					3
					2
					1
Ausgabe	22.10.87	A.Ho			0
	Datum	Gez.	Gepr.	Ges.	Index

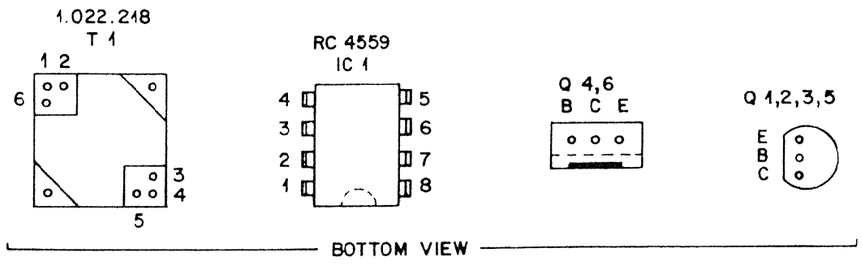
Kopie für:

STUDER REGENSDORF ZÜRICH | Benennung: LED PPM METER ESE | Nummer: 1.913.291-00

PFL Amplifier 1.913.200.00

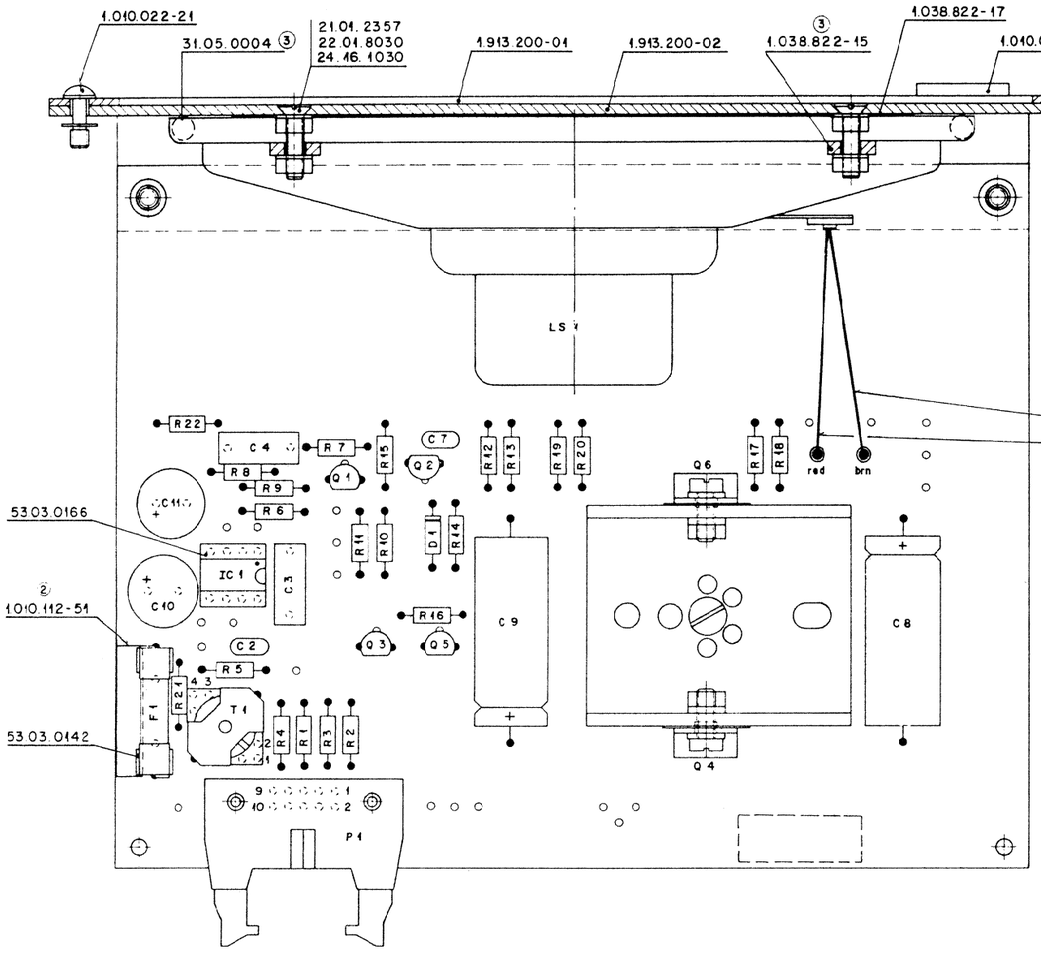






DATE	20.10.81					
SIGN						
REGENSDORF ZURICH	PFL AMPLIFIER					SC 1.913.200

PFL Amplifier 1.913.200.00



IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT		MFR
	C 1					
	C 2	59.34.4221	220 pF		CER	
	C 3	59.12.2224	0,22 µF	5%	PE	
	C 4	59.12.2224	0,22 µF	5%	PE	
	C 5					
	C 6					
	C 7	59.34.2470	47 pF		CER	
	C 8	59.25.3402	1000 µF	16V	EL	
	C 9	59.25.3402	1000 µF	16V	EL	
	C 10	59.22.4221	220 µF	16V	EL	
④	C 11	59.22.4221	220 µF	16V	EL	
	D 1	50.04.0125	1N4148		SI	
	F 1	51.01.0114	500 mA	SB		
	IC 1	50.09.0107	RC4559	DUAL	OPA	RC
	LS 1	91.01.0103	15 Ω	3W		Ph
	Q 1	50.03.0515	BC 307B	PNP	LF all purpose SI	any
	Q 2	50.03.0436	BC 239B	NPN	LF all purpose SI	any
	Q 3	50.03.0436	BC 239B	NPN	LF all purpose SI	any
	Q 4	50.03.0345	2N6476	PNP	Power TO220 SI	R
	Q 5	50.03.0515	BC 307B	PNP	LF all purpose SI	any
	Q 6	50.03.0344	2N6474	NPN	Power TO220	R
	R 1	57.11.3562	5,6k	1%		
	R 2	57.11.3562	5,6k	1%		
	R 3	57.11.3562	5,6k	1%		
	R 4	57.11.3562	5,6k	1%		
	R 5	57.11.4103	10k			
	R 6	57.11.4472	4,7k	2%		

IND	DATE	NAME	
④			CER - Ceramic Ph - Philips
③			PE - Polyester R - RCA
②			EL - Electrolytic R - Raytheon
①	6.11.84	Gut	
○	14.8.84	Gut	

STUDER | PFL - AMPLIFIER | 1.913.200.00 | PAGE 1 OF 2

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	R 7	57.11.4472	4,7k	2%	
	R 8	57.11.4272	2,7k	2%	
	R 9	57.11.4472	4,7k	2%	
	R 10	57.11.3562	5,6k		
	R 11	57.11.3562	5,6k		
	R 12	57.11.4222	2,2k		
	R 13	57.11.4222	2,2k		
	R 14	57.11.4470	47		
	R 15	57.11.4223	22k		
	R 16	57.11.4470	47		
	R 17	57.11.4229	2,2		
	R 18	57.11.4229	2,2		
	R 19	57.11.4229	2,2		
	R 20	57.11.4229	2,2		
	R 21	57.11.3567	5,6k	1%	
	R 22	57.11.3432	4,3k	1%	
	T 1	1.022.218	1:1	Input Trafo	ST

IND	DATE	NAME	
④			ST- STUDER
③			
②			
①			
○	14.8.84	Gut	

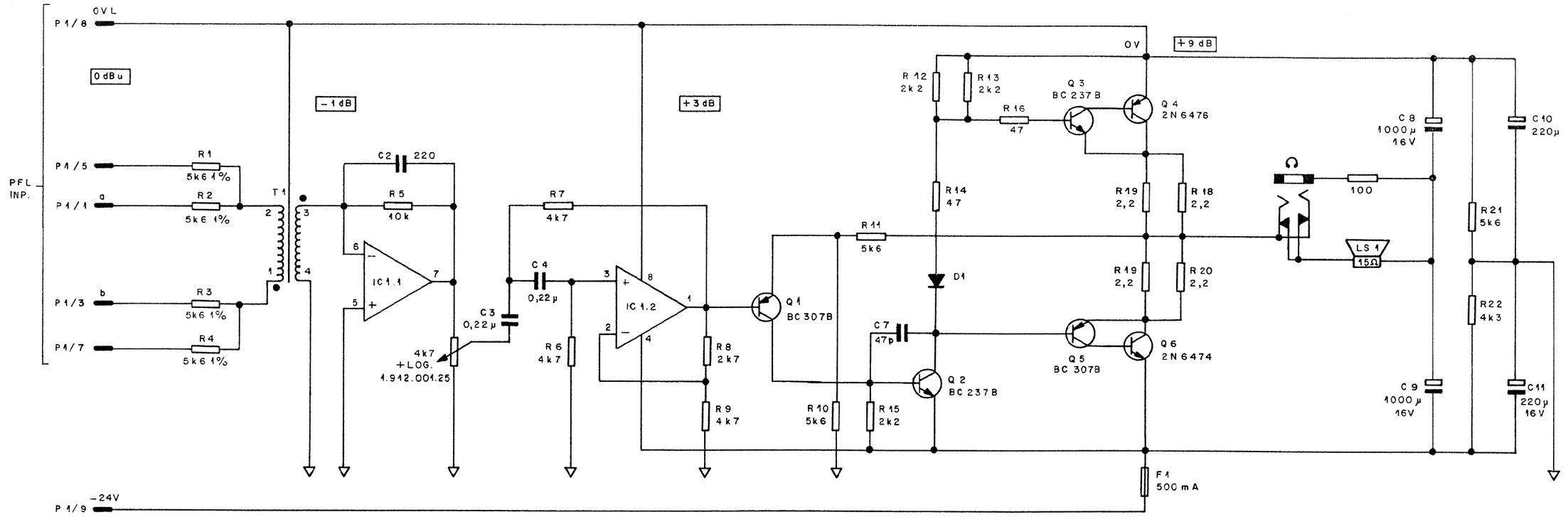
STUDER | PFL AMPLIFIER | 1.913.200.00 | PAGE 2 OF 2

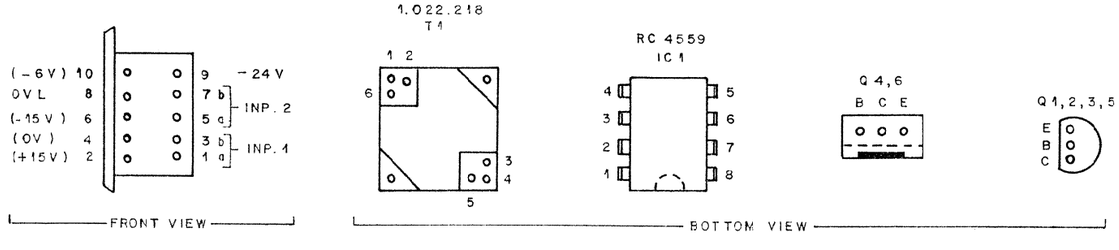
Änderung	20.3.87	Dij	W	W	④
	1.6.85	A.Ho	W	W	③
	16.11.84	A.Ho	W	W	②
	4.1.84	A.Ho	W	W	①
Ausgabe	29.11.82	A.Ho	W	W	○
	Datum	Gez.	Gepr.	Gen.	Index

Kopie für:

STUDER REGENSDORF ZÜRICH | Benennung: PFL- Amplifier | Nummer: 1.913.200-00

PFL Amplifier with Vol. + Headphone - Jack 1.913.202.00





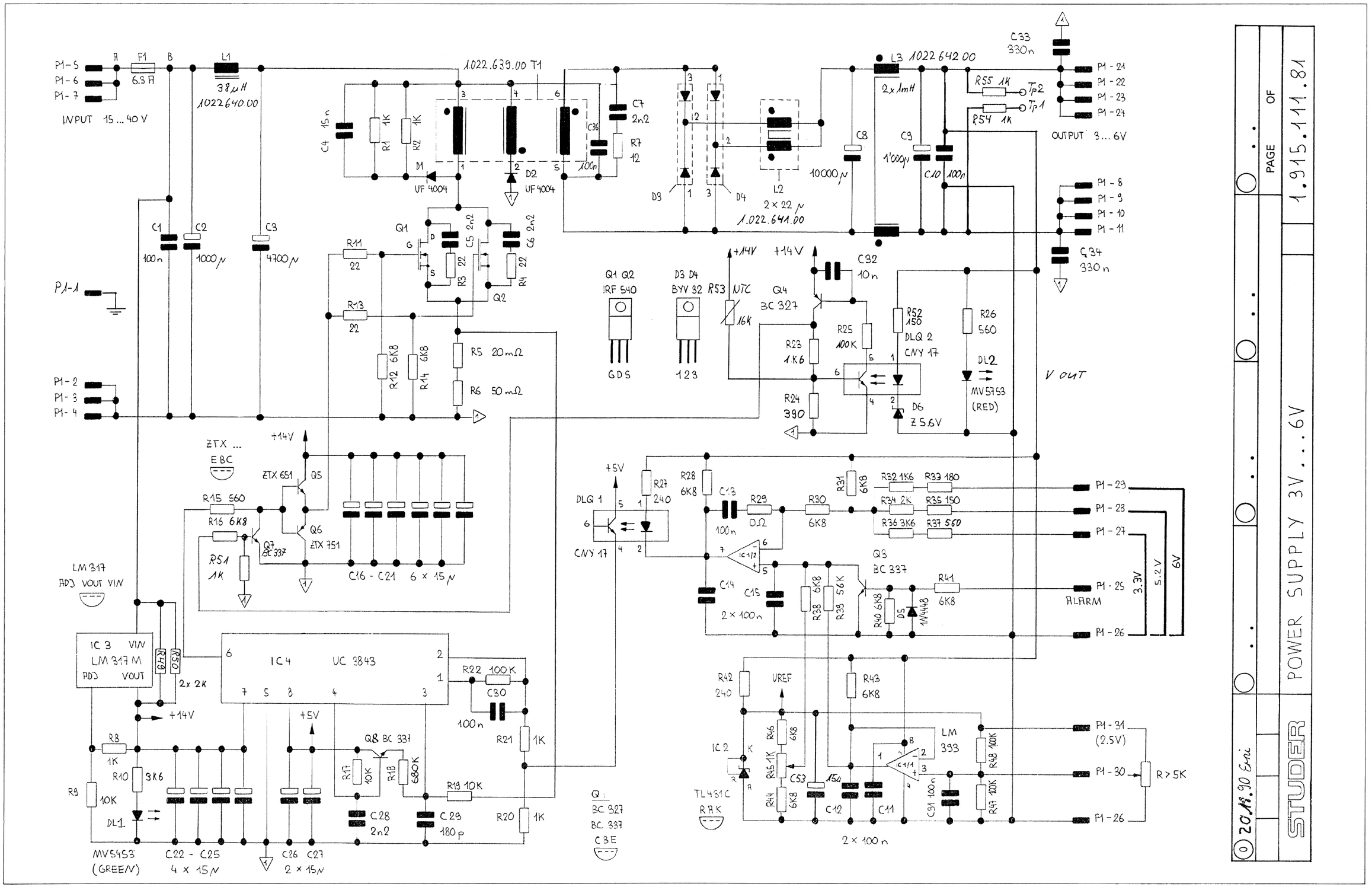
0 7 4 92 fe		
STUDER REGENSDORF ZURICH	PFL AMPLIFIER WITH VOL. + HEADPHONE - JACK	SC 1.913.202

SCHEMATA / CIRCUIT DIAGRAMS

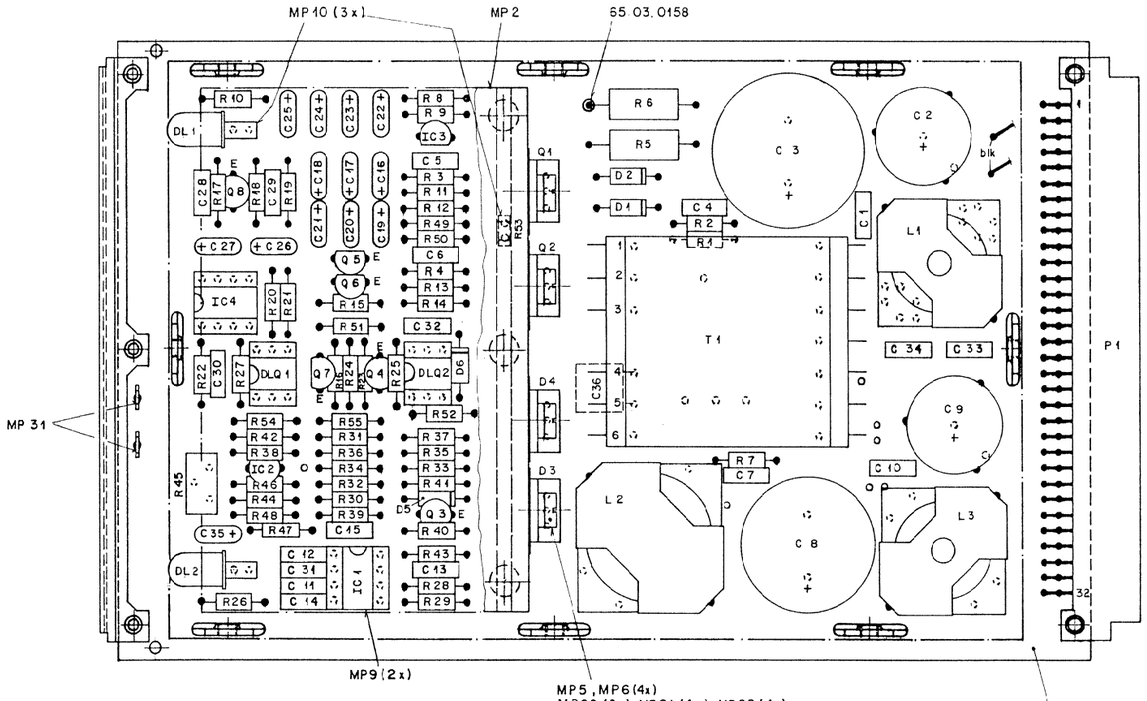
Units of Eurocard Frame

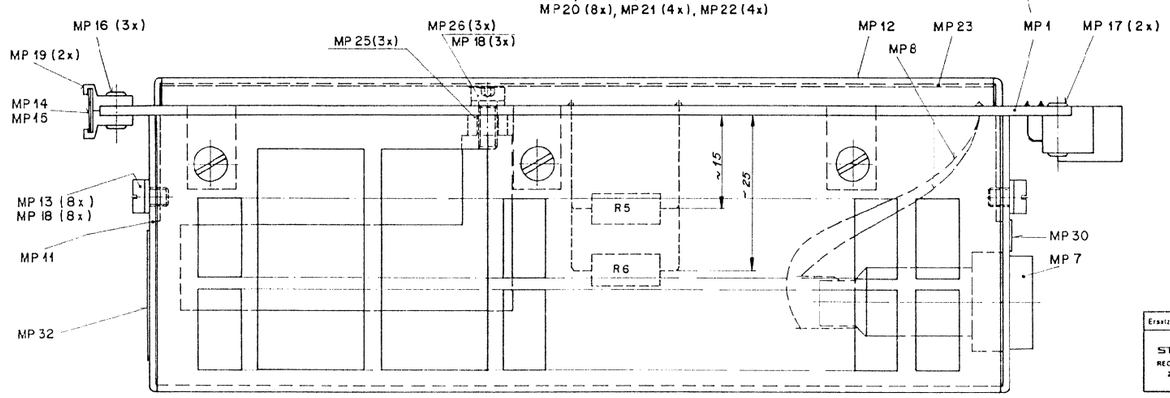
Power Supply 3V...6V	1.915.111.81
4 Balancing Amplifier Gain 6 dB	1.915.914.00
CR + Studio Monitor Mix Amplifier	1.917.300.00
CR/Studio Monitor Amplifier	1.917.310.00
Subcard for CR/Studio Monitor	1.917.311.00
CR/Studio Monitor Amplifier/Out	1.917.312.00
Talk Back Amplifier	1.917.320.00
PFL/Talk Back Headphone Amplifier	1.917.330.81
Subcard for PFL Talk Back Headphone	1.917.331.00
Monitor Relays Unit 8x2/2	1.917.601.00
Signal Input/Output Interface	1.917.611.00
Power Supply 5V/20A	1.940.601.00
Power Supply ±15V/3.4A	1.940.602.00
Power Supply 24V/4.2A	1.940.603.00

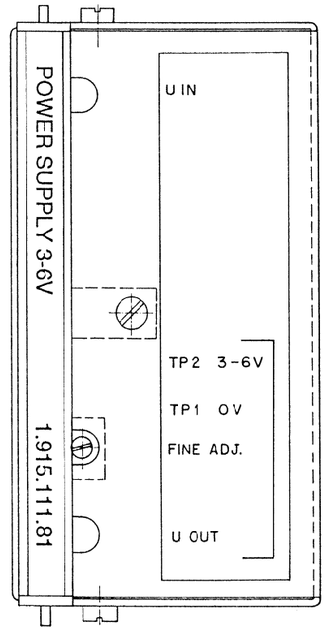
Power Supply 3V...6V 1.915.111.81



Power Supply 3V...6V 1.915.111.81







Ersatz für:	Ersetzt durch:				Kopie für:	
STUDER REGENSDORF ZÜRICH	Benennung: POWER SUPPLY LED 3-6V ESE				Nummer:	1.915.111-81
Änderung						③ ② ① ⓪
Ausgabe	Datum	Gez.	Gepr.	Ges.	Index	
	20.11.90	WW	IP	SC	⓪	

Ad	..POS..	...REF.No...	DESCRIPTION.			MANUFACTURER
	C.....1	59.06.0104	100 nF	PE		
	C.....2	59.22.6102	1000 uF	ALU	40V	
	C.....3	59.29.4472	4700 uF	EL	40V	
	C.....4	59.06.0153	15 nF	PE		
	C.....5	59.06.0222	2.2 nF	PE		
	C.....6	59.06.0222	2.2 nF	PE		
	C.....7	59.06.0222	2.2 nF	PE		
	C.....8	59.29.1103	10000 uF	EL	10V	
	C.....9	59.22.6102	1000 uF	ALU		
	C....10	59.06.0104	100 nF	PE		
	C....11	59.06.0104	100 nF	PE		
	C....12	59.06.0104	100 nF	PE		
	C....13	59.06.0104	100 nF	PE		
	C....14	59.06.0104	100 nF	PE		
	C....15	59.06.0104	100 nF	PE		
	C....16	59.26.2150	15 uF	ALU	16V dry	
	C....17	59.26.2150	15 uF	ALU	16V dry	
	C....18	59.26.2150	15 uF	ALU	16V dry	
	C....19	59.26.2150	15 uF	ALU	16V dry	
	C....20	59.26.2150	15 uF	ALU	16V dry	
	C....21	59.26.2150	15 uF	ALU	16V dry	
	C....22	59.26.2150	15 uF	ALU	16V dry	
	C....23	59.26.2150	15 uF	ALU	16V dry	
	C....24	59.26.2150	15 uF	ALU	16V dry	
	C....25	59.26.2150	15 uF	ALU	16V dry	
	C....26	59.26.2150	15 uF	ALU	16V dry	
	C....27	59.26.2150	15 uF	ALU	16V dry	
	C....28	59.06.0222	2.2 nF	PE		
	C....29	59.34.4181	180 pF	CER		
	C....30	59.06.0104	100 nF	PE		
	C....31	59.06.0104	100 nF	PE		
	C....32	59.06.0103	10 nF	PE		
	C....33	59.06.0334	330 nF	PE		
	C....34	59.06.0334	330 nF	PE		
	C....35	59.26.2150	15 uF	ALU	16V dry	
	C....36	59.06.0104	100 nF	PE		
	D.....1	50.04.0138	UF4004			
	D.....2	50.04.0138	UF4004			
	D.....3	50.04.0517	BYV 32	dual diode 2*10A		
	D.....4	50.04.0517	BYV 32	dual diode 2*10A		
	D.....5	50.04.0125	1N4448			
	D.....6	50.04.1108	Z 5.6V			
	DL....1	50.04.2113	MV5453	LED 5mm green		
	DL....2	50.04.2111	MV5753	LED 5mm red		
	DLQ...1	50.04.3200	CNY17	single optoisolator		GI
	DLQ...2	50.04.3200	CNY17	single optoisolator		GI
	F.....1	51.01.0125	6.3A	fuse		
	IC....1	50.05.0283	LM393	dual comparator		NS
	IC....2	50.10.0106	TL431C	shunt voltage regulator		TI
	IC....3	50.10.0108	LM317	series voltage regulator		NS
	IC....4	50.10.0113	UC3843	current mode PWM controller		UN
	L.....1	1.022.640.00	38 uH	5A		STUDER
	L.....2	1.022.641.00	22 uH	dual coil 2*5A		STUDER
	L.....3	1.022.642.00	1.6 mH	dual coil 2*10A		STUDER
	MP....1	1.915.111.12	1 pcs	Power Supply Led 3-6V PCB		STUDER
	MP....2	50.20.3005	1 pcs	heat-sink black 1.8 K/W		
	MP....3	. . 0	not used			
	MP....4	. . 0	not used			
	MP....5	50.20.0305	4 pcs	Glimmerscheibe		
	MP....6	50.20.0404	4 pcs	Isolierdurchfuerung		
	MP....7	53.03.0106	1 pcs	fuse holder 10A		
	MP....8	1.915.111.93	1 pcs	LL Power Supply Led 3-6V		
	MP....9	53.03.0166	2 pcs	IC-socket 8 pins		
	MP...10	1.010.012.50	3 pcs	LED-clip (2LED 1NTC)		
	MP...11	1.915.111.01	1 pcs	Abdeckhaube Bestueckseite		STUDER
	MP...12	1.915.111.02	1 pcs	Abdeckhaube Loetseite		STUDER
	MP...13	21.53.0352	8 pcs	Z Schraube IS M3*4 (Abdeckhaube)		
	MP...14	1.915.111.04	1 pcs	Bez.Streifen 6.3*91		
	MP...15	1.010.096.49	1 pcs	Klarsichtschild		
	MP...16	28.21.1380	3 pcs	Rohrniete D2.25*6.5		
	MP...17	28.99.0119	2 pcs	Rohrniete D 2.5*9		
	MP...18	24.16.1030	11 pcs	Rippenscheibe M3		
	MP...19	1.010.006.33	2 pcs	Griffhaelfte		
	MP...20	37.01.0101	8 pcs	Tellerfeder		
	MP...21	21.01.0356	4 pcs	Z Schraube M3*10 (Halbleiterm.)		
	MP...22	1.010.098.27	4 pcs	Distanzhuelse D 3.1/7*2.3		
	MP...23	1.915.111.03	1 pcs	Isolation 138*89 selbstklebend		
	MP...25	1.010.088.27	3 pcs	Distanzhuelse D 3.2/7 * 35		
	MP...26	21.53.0357	3 pcs	Z -Schraube M3*12		
	MP...27	. . 0		not used		
	MP...28	65.03.0158	23 mm	Isolierschlauch (R6)		
	MP...30	1.010.123.51	1 pcs	Text-Etikette 5*20 (T 6.3A)		
	MP...31	54.02.0320	2 pcs	Flachstecker (Tp1 Tp2)		
	MP...32	1.915.111.05	1 pcs	Klebschild (Poti Led Tp)		
	P.....1	54.11.2004	32 pins	Eurocard connector		
	Q.....1	50.03.1509	IRF 540	power MOS-FET		GE
	Q.....2	50.03.1509	IRF 540	power MOS-FET		GE
	Q.....3	50.03.0340	BC 337	NPN standard		
	Q.....4	50.03.0351	BC 327	PNP standard		
	Q.....5	50.03.0523	ZTX 651	NPN 2A		
	Q.....6	50.03.0352	ZTX 751	PNP 2A		
	Q.....7	50.03.0340	BC 337	NPN standard		

Power Supply 3V...6V 1.915.111.81

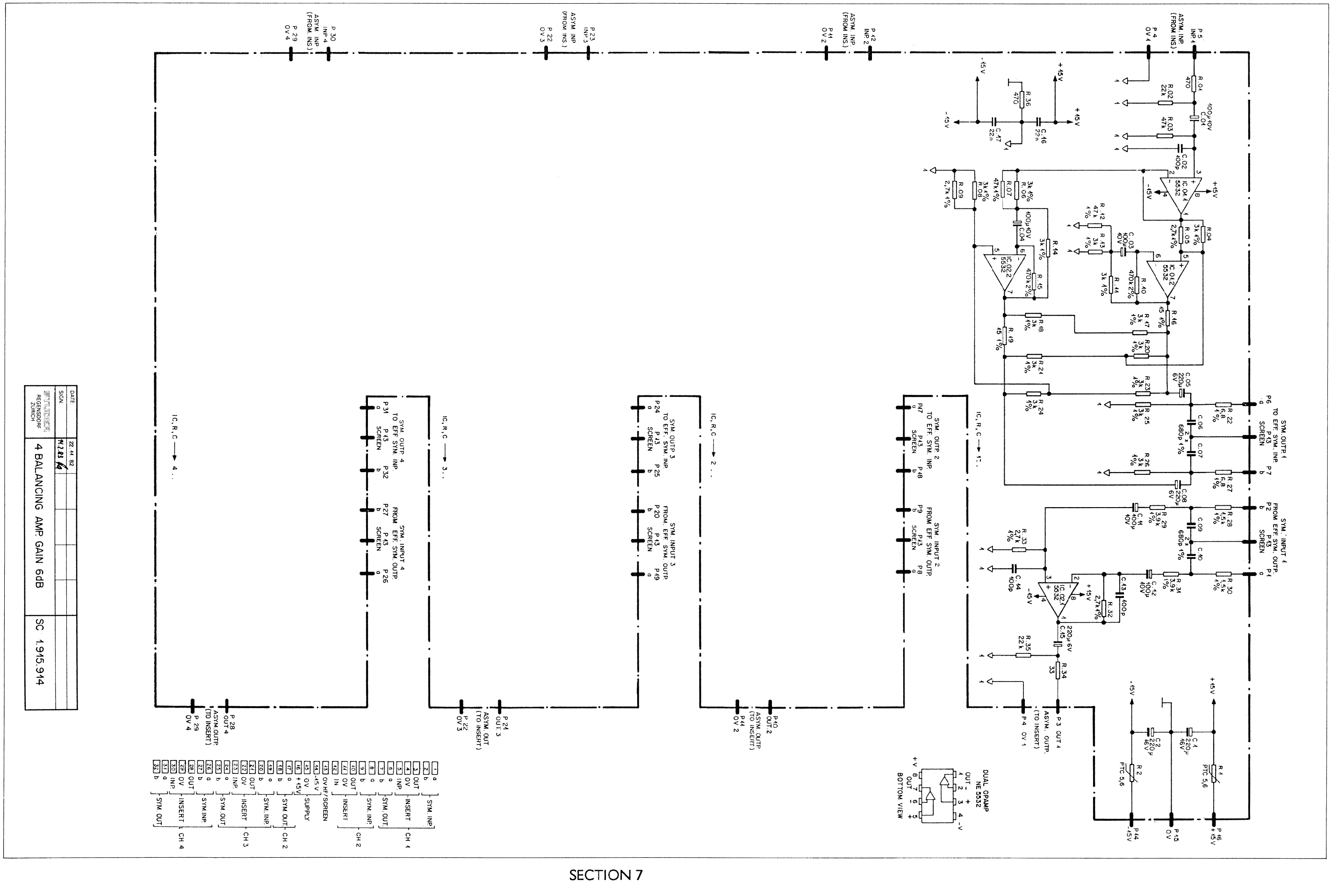
Ad	..POS..	...REF.No...	DESCRIPTION		MANUFACTURER
	Q.....8	50.03.0340	BC 337	NPN standard	
	R.....1	57.11.3102	1 kOhm		
	R.....2	57.11.3102	1 kOhm		
	R.....3	57.11.3220	22 Ohm		
	R.....4	57.11.3220	22 Ohm		
	R.....5	57.56.2020	20 mOhm	3W small L (10nH)	
	R.....6	57.56.2050	50 mOhm	3W small L (10nH)	
	R.....7	57.11.3120	12 Ohm		
	R.....8	57.11.3102	1 kOhm	5%	
	R.....9	57.11.3103	10 kOhm	5%	
	R....10	57.11.3362	3.6 kOhm		
	R....11	57.11.3220	22 Ohm		
	R....12	57.11.3682	6.8 kOhm		
	R....13	57.11.3220	22 Ohm		
	R....14	57.11.3682	6.8 kOhm		
	R....15	57.11.3561	560 Ohm		
	R....16	57.11.3682	6.8 kOhm		
	R....17	57.11.3103	10 kOhm	5%	
	R....18	57.11.3684	680 kOhm	5%	
	R....19	57.11.3103	10 kOhm		
	R....20	57.11.3102	1 kOhm		
	R....21	57.11.3102	1 kOhm		
	R....22	57.11.3104	100 kOhm		
	R....23	57.11.3162	1.6 kOhm		
	R....24	57.11.3391	390 Ohm		
	R....25	57.11.3104	100 kOhm		
	R....26	57.11.3561	560 Ohm		
	R....27	57.11.3241	240 Ohm		
	R....28	57.11.3682	6.8 kOhm		
	R....29	57.11.3000	0 Ohm		
	R....30	57.11.3682	6.8 kOhm		
	R....31	57.11.3682	6.8 kOhm	1%	
	R....32	57.11.3162	1.6 kOhm	1%	
	R....33	57.11.3181	180 Ohm	1%	
	R....34	57.11.3202	2 kOhm	1%	
	R....35	57.11.3151	150 Ohm	1%	
	R....36	57.11.3362	3.6 kOhm	1%	
	R....37	57.11.3561	560 Ohm	1%	
	R....38	57.11.3682	6.8 kOhm	1%	
	R....39	57.11.3563	56 kOhm	1%	
	R....40	57.11.3682	6.8 kOhm		
	R....41	57.11.3682	6.8 kOhm		
	R....42	57.11.3241	240 Ohm		
	R....43	57.11.3682	6.8 kOhm		
	R....44	57.11.3682	6.8 kOhm	1%	
	R....45	58.01.9102	1 kOhm	trimmer	
	R....46	57.11.3682	6.8 kOhm	1%	
	R....47	57.11.3104	100 kOhm	1%	
	R....48	57.11.3104	100 kOhm	1%	
	R....49	57.11.3202	2 kOhm		
	R....50	57.11.3202	2 kOhm		
	R....51	57.11.3102	1 kOhm		
	R....52	57.11.3151	150 Ohm		
	R....53	57.99.0220	16 kOhm	NTC	
	R....54	57.11.3102	1 kOhm		
	R....55	57.11.3102	1 kOhm		
	T.....1	1.022.639.00	Schalttrafo Power Supply 3 - 6V		STUDER

PE=Polyester, EL=Electrolytic, ALU=Aluminium, CER=Ceramic

MANUFACTURER: NS=National Semiconductors, TI=Texas Instrument
GI=General Instruments, UN=Unitrod,
GE=General Electric,

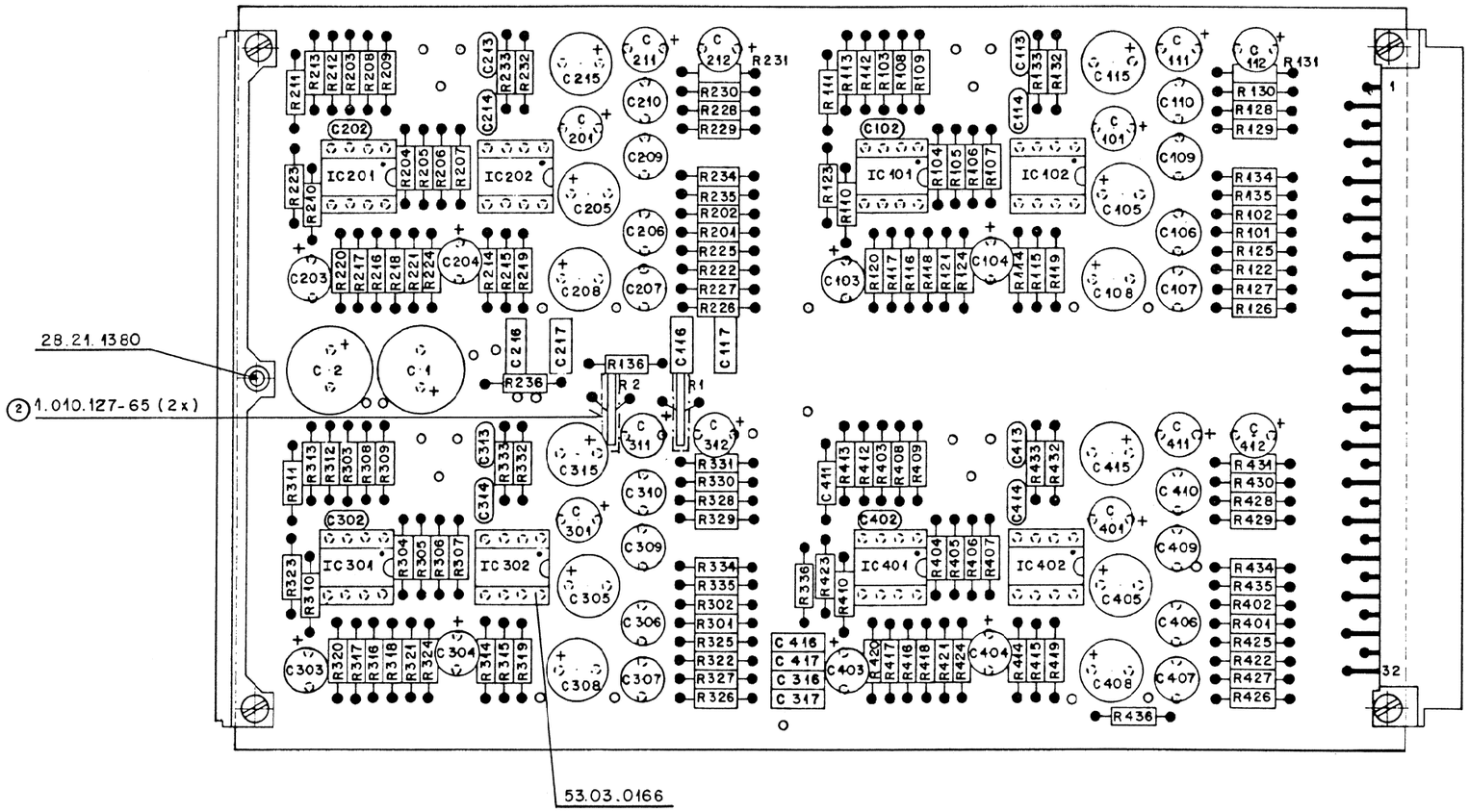
1.915.111.81 POWER SUPPLY LED 3-6V SE 92/01/2400

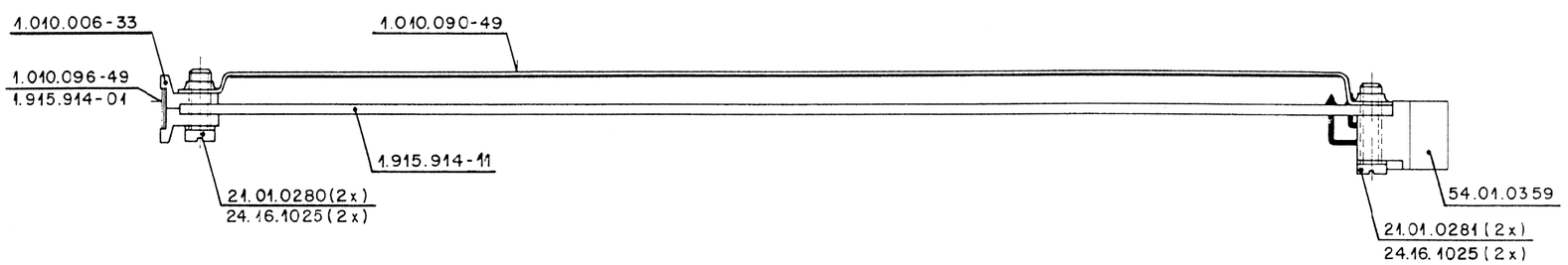
4 Balancing Amplifier Gain 6dB 1.915.914.00



DATE	22.11.82					
SIGN	10.2.83					
STUDER REGENSDORF ZURICH	4 BALANCING AMP. GAIN 6dB					SC 1.915.914

4 Balancing Amplifier Gain 6dB 1.915.914.00





Ad	POS.	REF.No.	DESCRIPTION			MANUFACTURER
	C....1	59.22.4221	220µ	16V	EL	
	C....2	59.22.4221	220µ	16V	EL	
		CH1	ELEMENT	100...199		
		CH2	ELEMENT	200...299		
		CH3	ELEMENT	300...399		
		CH4	ELEMENT	400...499		
	C....1	59.22.3101	100µ	10V	EL	
	C....2	59.34.2101	100p		CER	
	C....3	59.22.3101	100µ	10V	EL	
	C....4	59.22.3101	100µ	10V	EL	
	C....5	59.22.2221	220µ	6V	EL	
	C....6	59.05.1681	680p	1%	PP	
	C....7	59.05.1681	680p	1%	PP	
	C....8	59.22.2221	220µ	6V	EL	
	C....9	59.05.1681	680p	1%	PP	
	C....10	59.05.1681	680p	1%	PP	
	C....11	59.22.3101	100µ	10V	EL	
	C....12	59.22.3101	100µ	10V	EL	
	C....13	59.34.2101	100p	2%	CER	
	C....14	59.34.2101	100p	2%	CER	
	C....15	59.22.2221	220µ	6V	EL	
	C....16	59.06.0223	0,022µ		PE	
	C....17	59.06.0223	0,022µ		PE	
	IC....1	50.09.0106	NE5532	LOW NOISE OP AMP		SIG, TI, RA
	IC....2	50.09.0106	NE5532	LOW NOISE OP AMP		SIG, TI, RA
	R....1	57.99.0209	5,6Ω	PTC		
	R....2	57.99.0209	5,6Ω	PTC		
	R....1	57.11.4471	470			
	R....2	57.11.4223	22k			
	R....3	57.11.3473	47k			
	R....4	57.11.3302	3k	1%		
	R....5	57.11.3272	2,7k	1%		
	R....6	57.11.3302	3k	1%		
	R....7	57.11.3473	47k	1%		
	R....8	57.11.3302	3k	1%		
	R....9	57.11.3272	2,7k	1%		
	R....10	57.11.4474	470k	2%		
	R....11	57.11.3302	3k	1%		
	R....12	57.11.3473	47k	1%		
	R....13	57.11.3302	3k	1%		
	R....14	57.11.3302	3k	1%		
	R....15	57.11.4474	470k	2%		
	R....16	57.11.3150	15	1%		
	R....17	57.11.3302	3k	1%		
	R....18	57.11.3302	3k	1%		
	R....19	57.11.3150	15	1%		
	R....20	57.11.3302	3k	1%		
	R....21	57.11.3302	3k	1%		
	R....22	57.11.3689	6,8Ω	1%		
	R....23	57.11.3302	3k	1%		
	R....24	57.11.3302	3k	1%		
	R....25	57.11.3302	3k	1%		
	R....26	57.11.3302	3k	1%		
	R....27	57.11.3689	6,8Ω	1%		
	R....28	57.11.3152	1,5k	1%		
	R....29	57.11.3392	3,9k	1%		
	R....30	57.11.3152	1,5k	1%		
	R....31	57.11.3392	3,9k	1%		
	R....32	57.11.3272	2,7k	1%		
	R....33	57.11.3272	2,7k	1%		
	R....34	57.11.4330	33Ω			
	R....35	57.11.4223	22k			
	R....36	57.11.4471	470			

Resistors metalfilm

EL=Electrolytic, PE=Polyester, PP=Polypropylen, CER=Ceramic

MANUFACTURER: SIG=Signetics, TI=Texas Instruments, RA=Raytheon

1.915.914.00 4 BAL. AMPLIFIER 6dB FRI 05/10/82

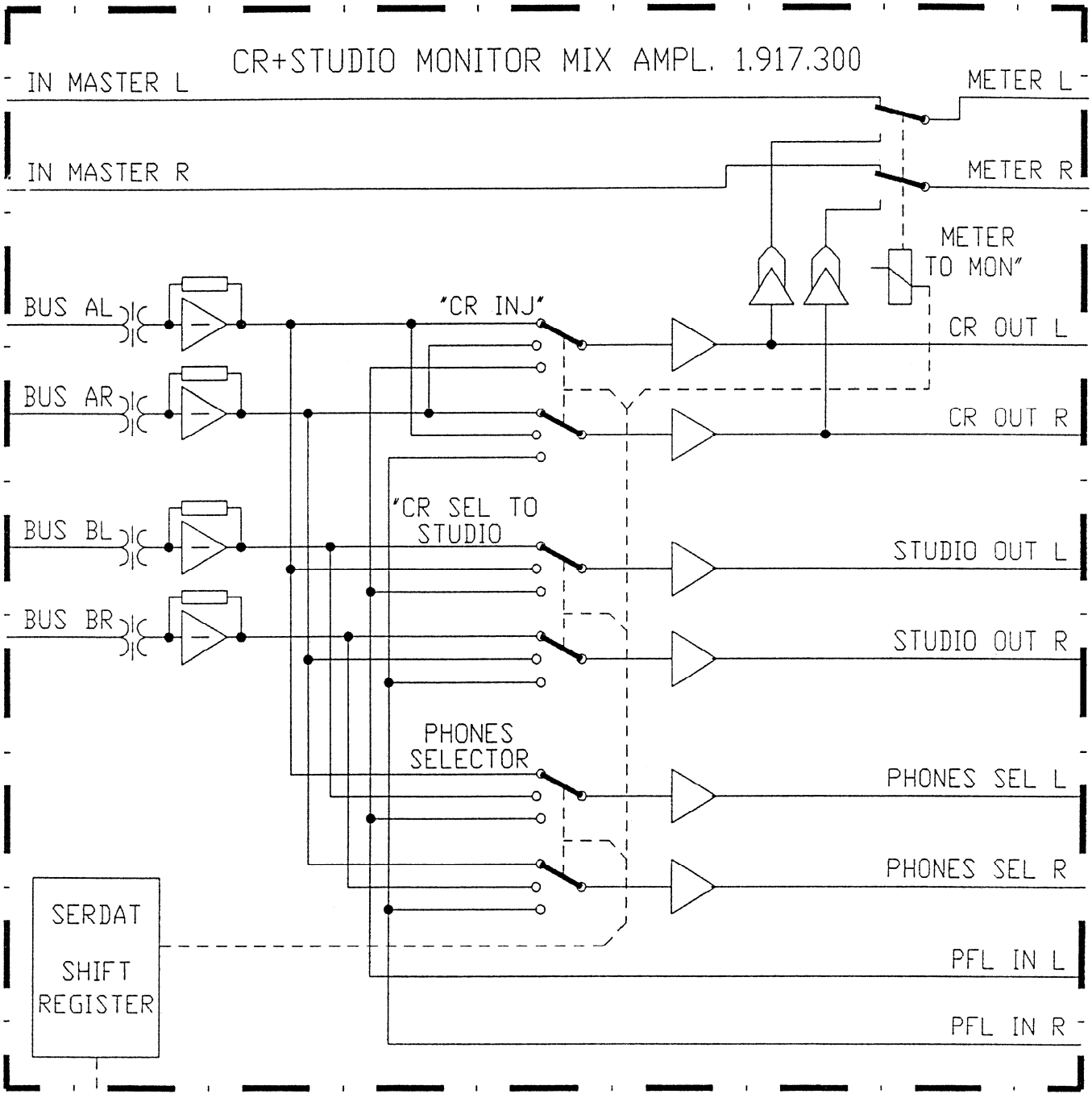
END

Änderung	Datum	Gez.	Gepr.	Ges.	Index
	3.6.87	Si			3
	4.4.84	Si			2
Ausgabe	27.10.82	A.Ho			1
					0

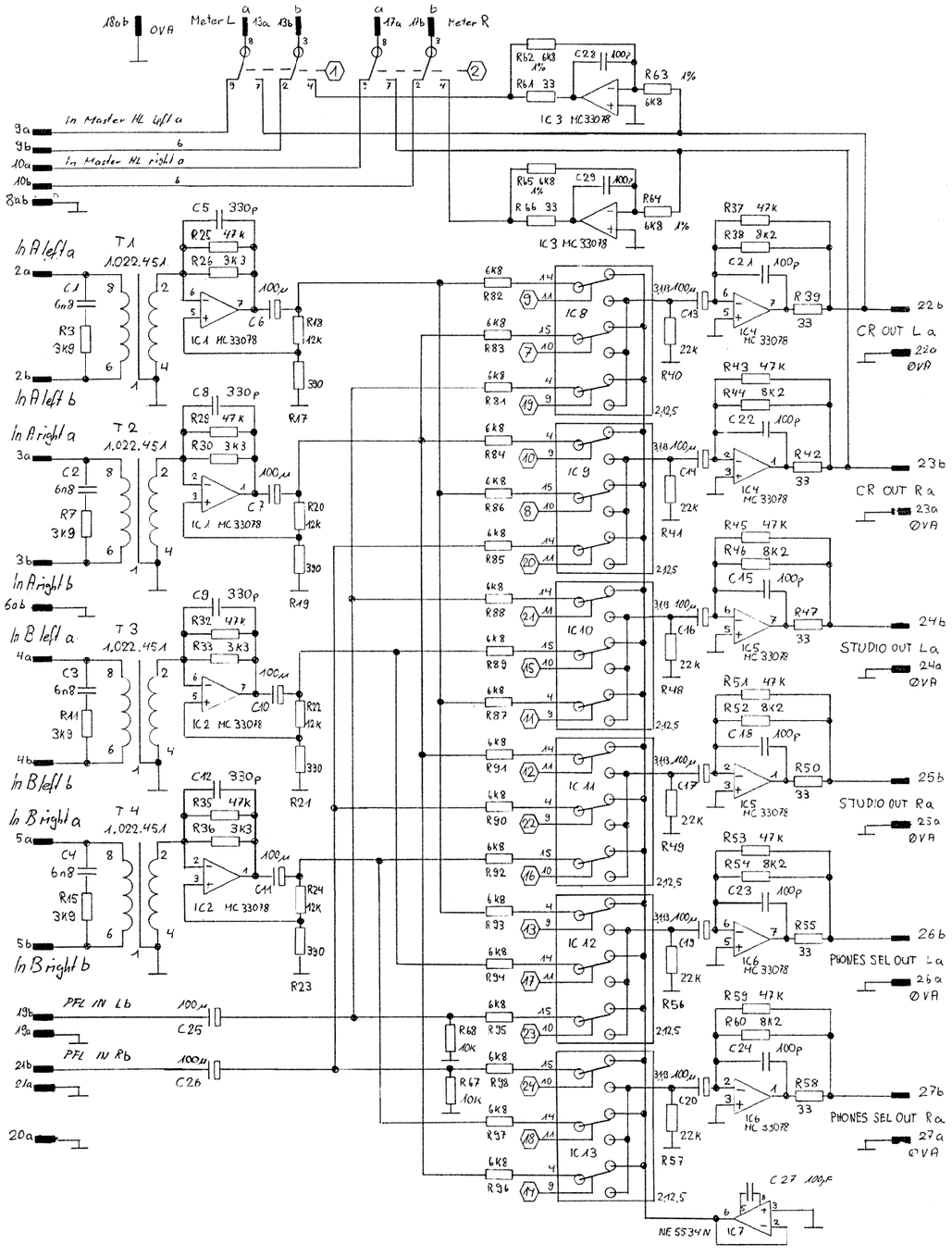
Kopie für:

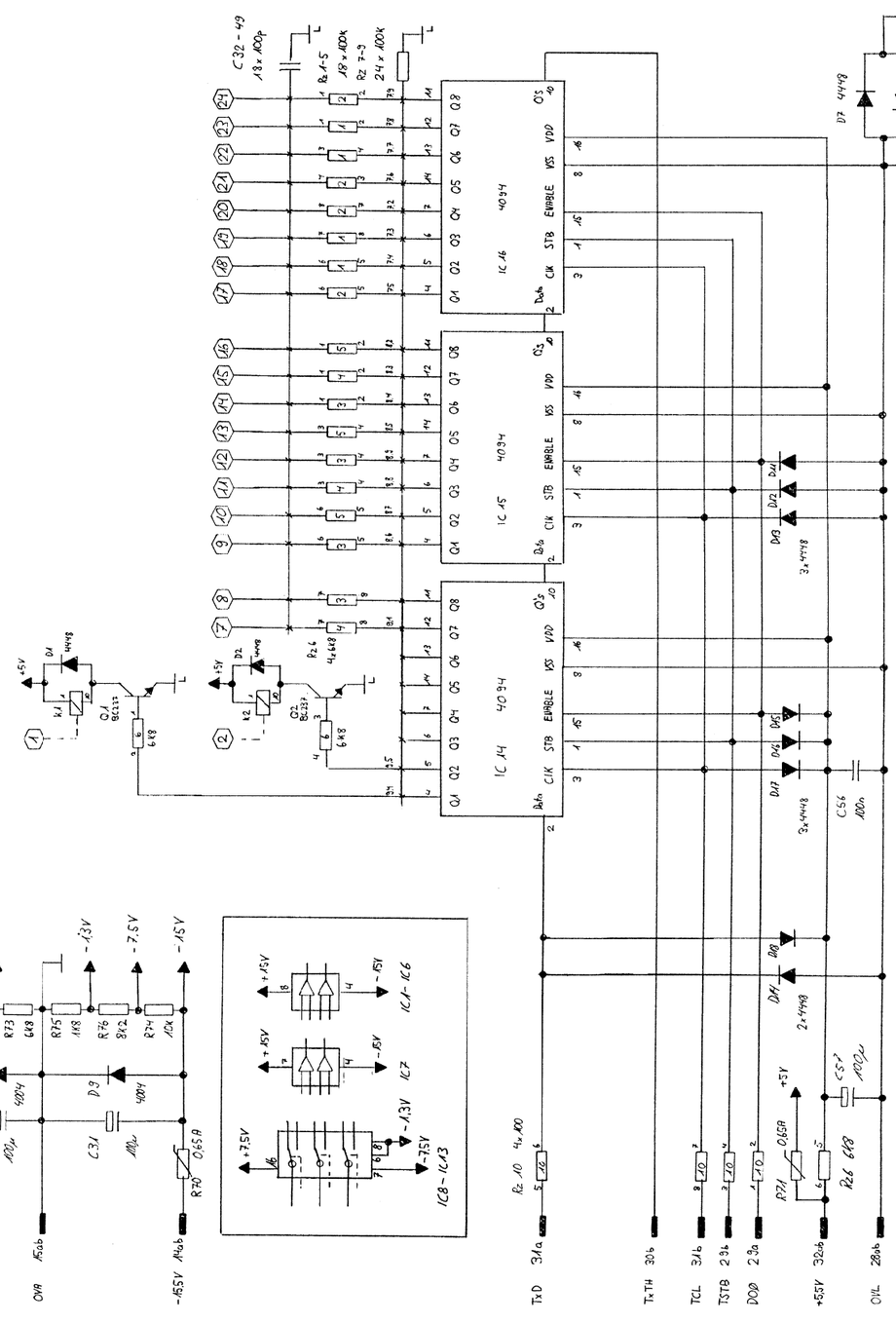
STUDER REGENSDORF ZÜRICH | Benennung: 4 Bal. Amplifier 6 DB | Nummer: 1.915.914-00

CR + Studio Monitor Mix Amplifier 1.917.300.00



CR + Studio Monitor Mix Amplifier 1.917.300.00

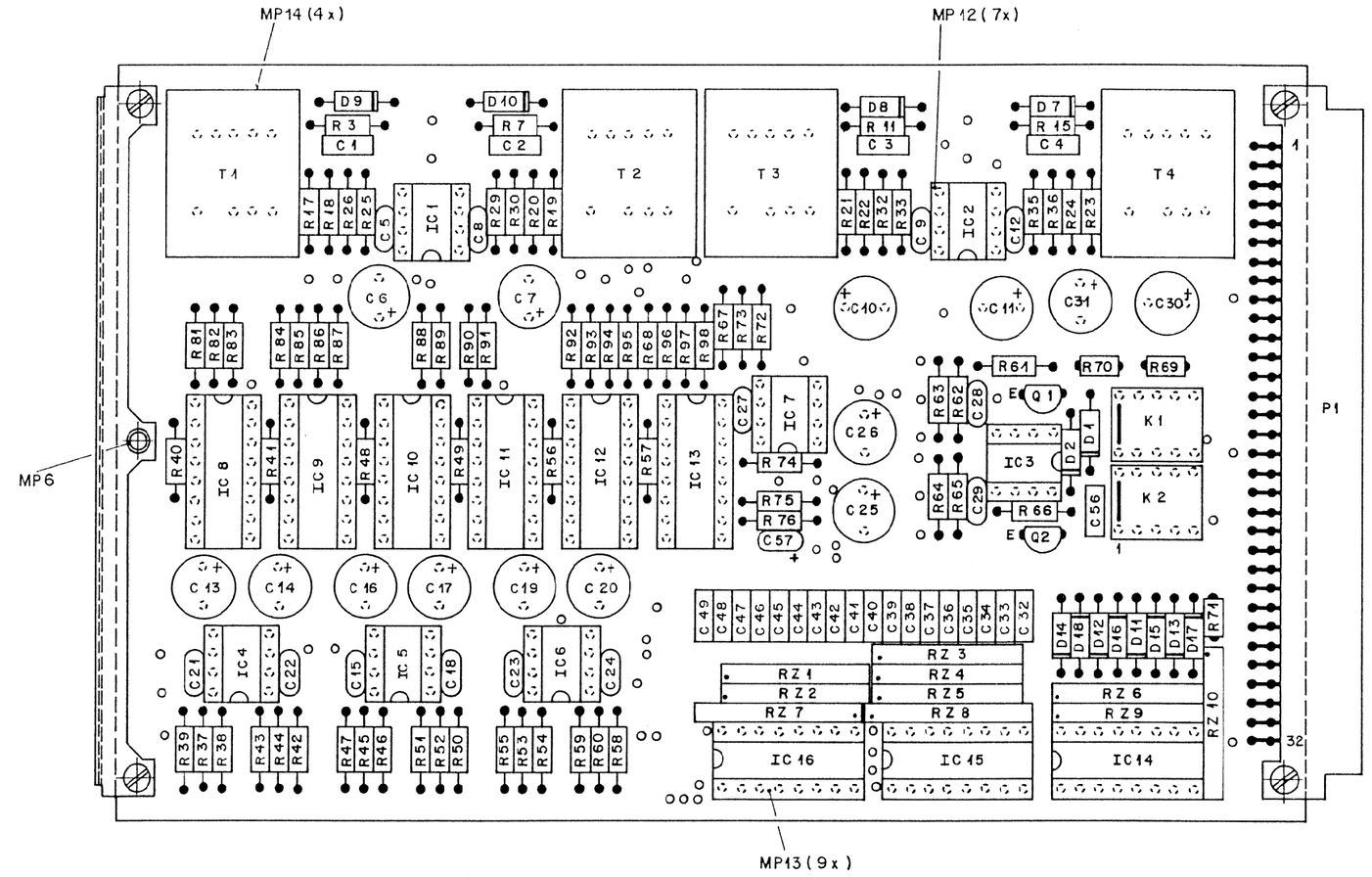


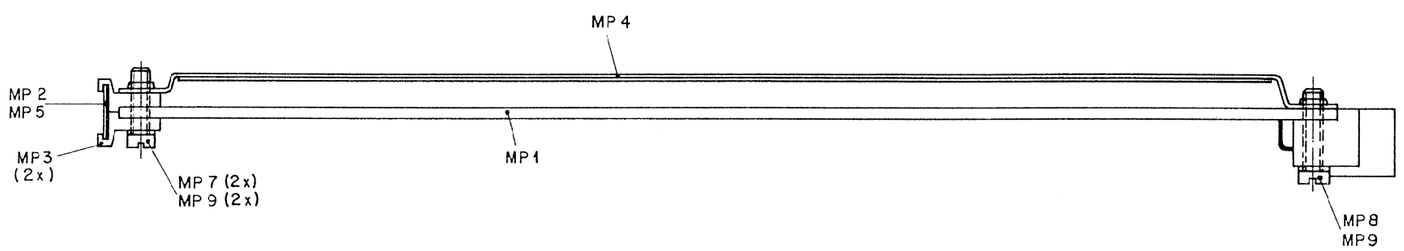


0 11.04.89 Se				PAGE 1 OF 2
STUDER	MONITOR MIX AMPLIFIER.			1.917.300.00

0 11.04.89 Em				PAGE 2 OF 2
STUDER	MONITOR MIX AMPLIFIER			1.917.300.00

CR + Studio Monitor Mix Amplifier 1.917.300.00





Änderung					
					3
					2
	19.3.90				1
Ausgabe	27.10.89				0
	Datum	Gez.	Gepr.	Ges.	Index

Kopie für:

STUDER REGENSDORF ZÜRICH	Benennung: MONITOR MIX. AMPLIFIER ESE	Nummer: 1.917.300-00

Ad	..POS..	...REF.No...	DESCRIPTION		MANUFACTURER
	C.....1	59.06.0682	6,8 nF	10%, 63V , PE	
	C.....2	59.06.0682	6,8 nF	10%, 63V , PE	
	C.....3	59.06.0682	6,8 nF	10%, 63V , PE	
	C.....4	59.06.0682	6,8 nF	10%, 63V , PE	
	C.....5	59.34.4331	330 pF	5%, 63V , CER	
	C.....6	59.22.4101	100 uF	-20%, 10V , EL	
	C.....7	59.22.4101	100 uF	-20%, 10V , EL	
	C.....8	59.34.4331	330 pF	5%, 63V , CER	
	C.....9	59.34.4331	330 pF	5%, 63V , CER	
	C....10	59.22.4101	100 uF	-20%, 10V , EL	
	C....11	59.22.4101	100 uF	-20%, 10V , EL	
	C....12	59.34.4331	330 pF	5%, 63V , CER	
	C....13	59.22.4101	100 uF	-20%, 10V , EL	
	C....14	59.22.4101	100 uF	-20%, 10V , EL	
	C....15	59.34.4101	100 pF	5%, 63V , CER	
	C....16	59.22.4101	100 uF	-20%, 10V , EL	
	C....17	59.22.4101	100 uF	-20%, 10V , EL	
	C....18	59.34.4101	100 pF	5%, 63V , CER	
	C....19	59.22.4101	100 uF	-20%, 10V , EL	
	C....20	59.22.4101	100 uF	-20%, 10V , EL	
	C....21	59.34.4101	100 pF	5%, 63V , CER	
	C....22	59.34.4101	100 pF	5%, 63V , CER	
	C....23	59.34.4101	100 pF	5%, 63V , CER	
	C....24	59.34.4101	100 pF	5%, 63V , CER	
	C....25	59.22.4101	100 uF	-20%, 10V , EL	
	C....26	59.22.4101	100 uF	-20%, 10V , EL	
	C....27	59.34.4101	100 pF	5%, 63V , CER	
	C....28	59.34.4101	100 pF	5%, 63V , CER	
	C....29	59.34.4101	100 pF	5%, 63V , CER	
	C....30	59.22.5101	100 uF	-20%, 25V , EL	
	C....31	59.22.5101	100 uF	-20%, 25V , EL	
	C....32	59.34.4101	100 pF	5%, 63V , CER	
	C....33	59.34.4101	100 pF	5%, 63V , CER	
	C....34	59.34.4101	100 pF	5%, 63V , CER	
	C....35	59.34.4101	100 pF	5%, 63V , CER	
	C....36	59.34.4101	100 pF	5%, 63V , CER	
	C....37	59.34.4101	100 pF	5%, 63V , CER	
	C....38	59.34.4101	100 pF	5%, 63V , CER	
	C....39	59.34.4101	100 pF	5%, 63V , CER	
	C....40	59.34.4101	100 pF	5%, 63V , CER	
	C....41	59.34.4101	100 pF	5%, 63V , CER	
	C....42	59.34.4101	100 pF	5%, 63V , CER	
	C....43	59.34.4101	100 pF	5%, 63V , CER	
	C....44	59.34.4101	100 pF	5%, 63V , CER	
	C....45	59.34.4101	100 pF	5%, 63V , CER	
	C....46	59.34.4101	100 pF	5%, 63V , CER	
	C....47	59.34.4101	100 pF	5%, 63V , CER	
	C....48	59.34.4101	100 pF	5%, 63V , CER	
	C....49	59.34.4101	100 pF	5%, 63V , CER	
	C....56	59.06.0682	6,8 nF	10%, 63V , PE	
01	C....56	. .	not used		
	C....57	59.26.0680	68 uF	-20%, 6.3V SAL	
	D.....1	50.04.0125	1N 4448		any
	D.....2	50.04.0125	1N 4448		any
	D.....7	50.04.0125	1N 4448		any
	D.....8	50.04.0125	1N 4448		any
	D.....9	50.04.0105	1N 4004		any
	D....10	50.04.0105	1N 4004		any
	D....11	50.04.0125	1N 4448		any
	D....12	50.04.0125	1N 4448		any
	D....13	50.04.0125	1N 4448		any
	D....14	50.04.0125	1N 4448		any
	D....15	50.04.0125	1N 4448		any
	D....16	50.04.0125	1N 4448		any
	D....17	50.04.0125	1N 4448		any
	D....18	50.04.0125	1N 4448		any
	IC....1	50.09.0117	MC33078	Dual Op Amp	
	IC....2	50.09.0117	MC33078	Dual Op Amp	
	IC....3	50.09.0117	MC33078	Dual Op Amp	
	IC....4	50.09.0117	MC33078	Dual Op Amp	
	IC....5	50.09.0117	MC33078	Dual Op Amp	
	IC....6	50.09.0117	MC33078	Dual Op Amp	
	IC....7	50.05.0243	5534	single op.amp.	
	IC....8	50.07.0015	4053	Triple Analog-Switch	
	IC....9	50.07.0015	4053	Triple Analog-Switch	
	IC...10	50.07.0015	4053	Triple Analog-Switch	
	IC...11	50.07.0015	4053	Triple Analog-Switch	
	IC...12	50.07.0015	4053	Triple Analog-Switch	
	IC...13	50.07.0015	4053	Triple Analog-Switch	
	IC...14	50.07.0018	4094	Shift & store bus register	
	IC...15	50.07.0018	4094	Shift & store bus register	
	IC...16	50.07.0018	4094	Shift & store bus register	
	K.....1	56.04.0195		SDS Relais, Type TQ2- 6V	
	K.....2	56.04.0195		SDS Relais, Type TQ2- 6V	
	K.....3	. .			
	K.....4	. .			
	K.....5	. .			
	K.....6	. .			
	P.....1	54.11.2004	1 pcs	Euro, 2 * 32 contacts	
	Q.....1	50.03.0496	BC 237	NPN	any
01	Q.....1	50.03.0436	BC 237	NPN	
	Q.....2	50.03.0496	BC 237	NPN	any
01	Q.....2	50.03.0436	BC 237	NPN	
	Q.....3	. .			
	Q.....4	. .			

CR + Studio Monitor Mix Amplifier 1.917.300.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	Q.....5	. .		
	Q.....6	. .		
	R.....1	. .		
	R.....2	. .		
	R.....3	57.11.3392	3.9 kOhm 1%	
	R.....4	. .		
	R.....5	. .		
	R.....6	. .		
	R.....7	57.11.3392	3.9 kOhm 1%	
	R.....8	. .		
	R.....9	. .		
	R....10	. .		
	R....11	57.11.3392	3.9 kOhm 1%	
	R....12	. .		
	R....13	. .		
	R....14	. .		
	R....15	57.11.3392	3.9 kOhm 1%	
	R....16	. .		
	R....17	57.11.3391	390 Ohm 1%	
	R....18	57.11.3123	12 kOhm 1%	
	R....19	57.11.3391	390 Ohm 1%	
	R....20	57.11.3123	12 kOhm 1%	
	R....21	57.11.3391	390 Ohm 1%	
	R....22	57.11.3123	12 kOhm 1%	
	R....23	57.11.3391	390 Ohm 1%	
	R....24	57.11.3123	12 kOhm 1%	
	R....25	57.11.3473	47 kOhm 1%	
	R....26	57.11.3332	3.3 kOhm 1%	
	R....29	57.11.3473	47 kOhm 5%	
	R....30	57.11.3332	3.3 kOhm 1%	
	R....32	57.11.3473	47 kOhm 1%	
	R....33	57.11.3332	3.3 kOhm 1%	
	R....35	57.11.3473	47 kOhm 1%	
	R....36	57.11.3332	3.3 kOhm 1%	
	R....37	57.11.3473	47 kOhm 1%	
	R....38	57.11.3822	8.2 kOhm 1%	
	R....39	57.11.3330	33 Ohm 1%	
	R....40	57.11.3223	22 kOhm 1%	
	R....41	57.11.3223	22 kOhm 1%	
	R....42	57.11.3330	33 Ohm 1%	
	R....43	57.11.3473	47 kOhm 1%	
	R....44	57.11.3822	8.2 kOhm 1%	
	R....45	57.11.3473	47 kOhm 1%	
	R....46	57.11.3822	8.2 kOhm 1%	
	R....47	57.11.3330	33 Ohm 1%	
	R....48	57.11.3223	22 kOhm 1%	
	R....49	57.11.3223	22 kOhm 1%	
	R....50	57.11.3330	33 Ohm 1%	
	R....51	57.11.3473	47 kOhm 1%	
	R....52	57.11.3822	8.2 kOhm 1%	
	R....53	57.11.3473	47 kOhm 1%	
	R....54	57.11.3822	8.2 kOhm 1%	
	R....55	57.11.3330	33 Ohm 1%	
	R....56	57.11.3223	22 kOhm 1%	
	R....57	57.11.3223	22 kOhm 1%	
	R....58	57.11.3330	33 Ohm 1%	
	R....59	57.11.3473	47 kOhm 1%	
	R....60	57.11.3822	8.2 kOhm 1%	
	R....61	57.11.3330	33 Ohm 1%	
	R....62	57.11.3682	6.8 kOhm 1%	
	R....63	57.11.3682	6.8 kOhm 1%	
	R....64	57.11.3682	6.8 kOhm 1%	
	R....65	57.11.3682	6.8 kOhm 1%	
	R....66	57.11.3330	33 Ohm 1%	
	R....67	57.11.3103	10 kOhm 1%	
	R....68	57.11.3103	10 kOhm 1%	
	R....69	57.92.7014	PTC 650mA	
	R....70	57.92.7014	PTC 650mA	
	R....71	57.92.7014	PTC 650mA	
	R....72	57.11.3682	6.8 kOhm 1%	
	R....73	57.11.3682	6.8 kOhm 1%	
	R....74	57.11.3103	10 kOhm 1%	
	R....75	57.11.3182	1.8 kOhm 1%	
	R....76	57.11.3822	8.2 kOhm 1%	
	R....81	57.11.3682	6.8 kOhm 1%	
	R....82	57.11.3682	6.8 kOhm 1%	
	R....83	57.11.3682	6.8 kOhm 1%	
	R....84	57.11.3682	6.8 kOhm 1%	
	R....85	57.11.3682	6.8 kOhm 1%	
	R....86	57.11.3682	6.8 kOhm 1%	
	R....87	57.11.3682	6.8 kOhm 1%	
	R....88	57.11.3682	6.8 kOhm 1%	
	R....89	57.11.3682	6.8 kOhm 1%	
	R....90	57.11.3682	6.8 kOhm 1%	
	R....91	57.11.3682	6.8 kOhm 1%	
	R....92	57.11.3682	6.8 kOhm 1%	
	R....93	57.11.3682	6.8 kOhm 1%	
	R....94	57.11.3682	6.8 kOhm 1%	
	R....95	57.11.3682	6.8 kOhm 1%	
	R....96	57.11.3682	6.8 kOhm 1%	
	R....97	57.11.3682	6.8 kOhm 1%	
	R....98	57.11.3682	6.8 kOhm 1%	
	RZ....1	57.88.2104	100 kOhm 2%, 4 * 100k	
	RZ....2	57.88.2104	100 kOhm 2%, 4 * 100k	
	RZ....3	57.88.2104	100 kOhm 2%, 4 * 100k	
	RZ....4	57.88.2104	100 kOhm 2%, 4 * 100k	
	RZ....5	57.88.2104	100 kOhm 2%, 4 * 100k	
	RZ....6	57.88.2682	6.8 kOhm 2%, 4 * 6.8k	
	RZ....7	57.88.4104	100 kOhm 2%, 8 * 100k	
	RZ....8	57.88.4104	100 kOhm 2% 8 * 100k	
	RZ....9	57.88.4104	100 kOhm 2%, 8 * 100k	
01	RZ....9	57.88.2104	100 kOhm 2%, 4 * 100k	
	RZ...10	57.88.2101	100 Ohm 2%, 4 * 100	
	T.....1	1.022.451.00	INPUT TRAFO	STUDER
	T.....2	1.022.451.00	INPUT TRAFO	STUDER
	T.....3	1.022.451.00	INPUT TRAFO	STUDER
	T.....4	1.022.451.00	INPUT TRAFO	STUDER
	MP....1	1.917.300.11	1 pcs Print	Studer
	MP....2	1.917.300.01	1 pcs Bez. Streifen 6.3*91	Studer
	MP....3	1.010.006.33	2 pcs Griffhaelften	Studer
	MP....4	1.010.090.49	1 pcs Abschirmblech	Studer
	MP....5	1.010.096.49	1 pcs Klarsicht Schild	
	MP....6	28.21.1380	1 pcs Rohrniete D2.5/6	
	MP....7	21.01.0280	2 pcs Z - Schraube M2.5*8	
	MP....8	21.01.0281	2 pcs Z - Schraube M2.5*10	
	MP....9	24.16.1025	4 pcs Rippenscheibe D2.7/5	
	MP...10	43.01.0108	1 pcs ESE-Warnschild	
	MP...11	. .		
	MP...12	53.03.0166	7 pcs IC-Sockel 8 Pin	
	MP...13	53.03.0168	9 pcs IC-Sockel 16 Pin	
	MP...14	1.022.400.03	4 pcs Isolation zu Trafo	

EL=Electrolytic, ElBip=Electrolytic Bipolar, PE=Polyester

MANUFACTURER: Fc=Fairchild, ITT=Intermetall, Ph=Philips,
Ses=Sescosem, Sie=Siemens, Tf=Telefunken.

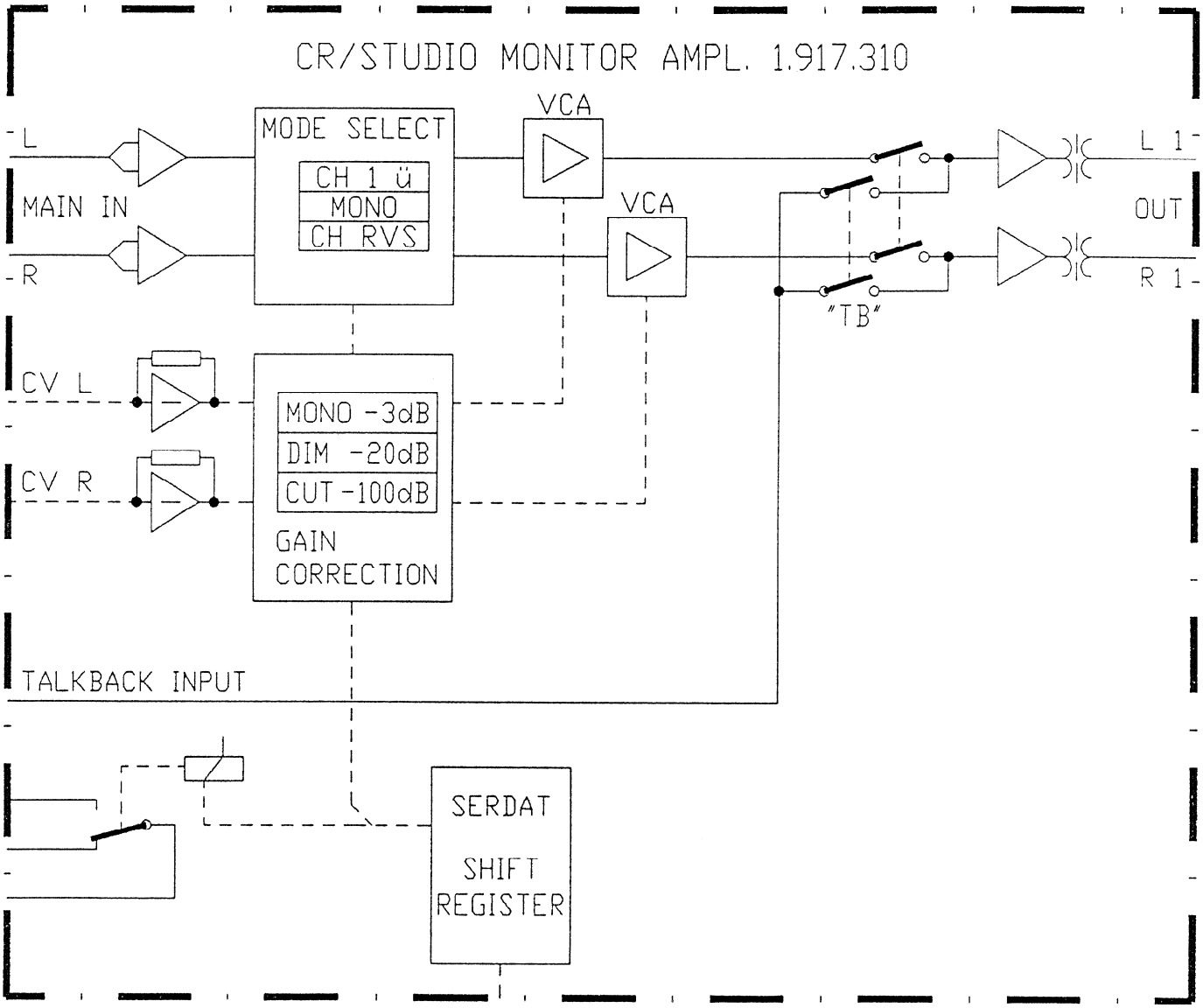
1.917.300 00 MONITOR MIX AMPLIFIER SE 89/02/2000

1.917.300 00 MONITOR MIX AMPLIFIER SE 90/03/1901

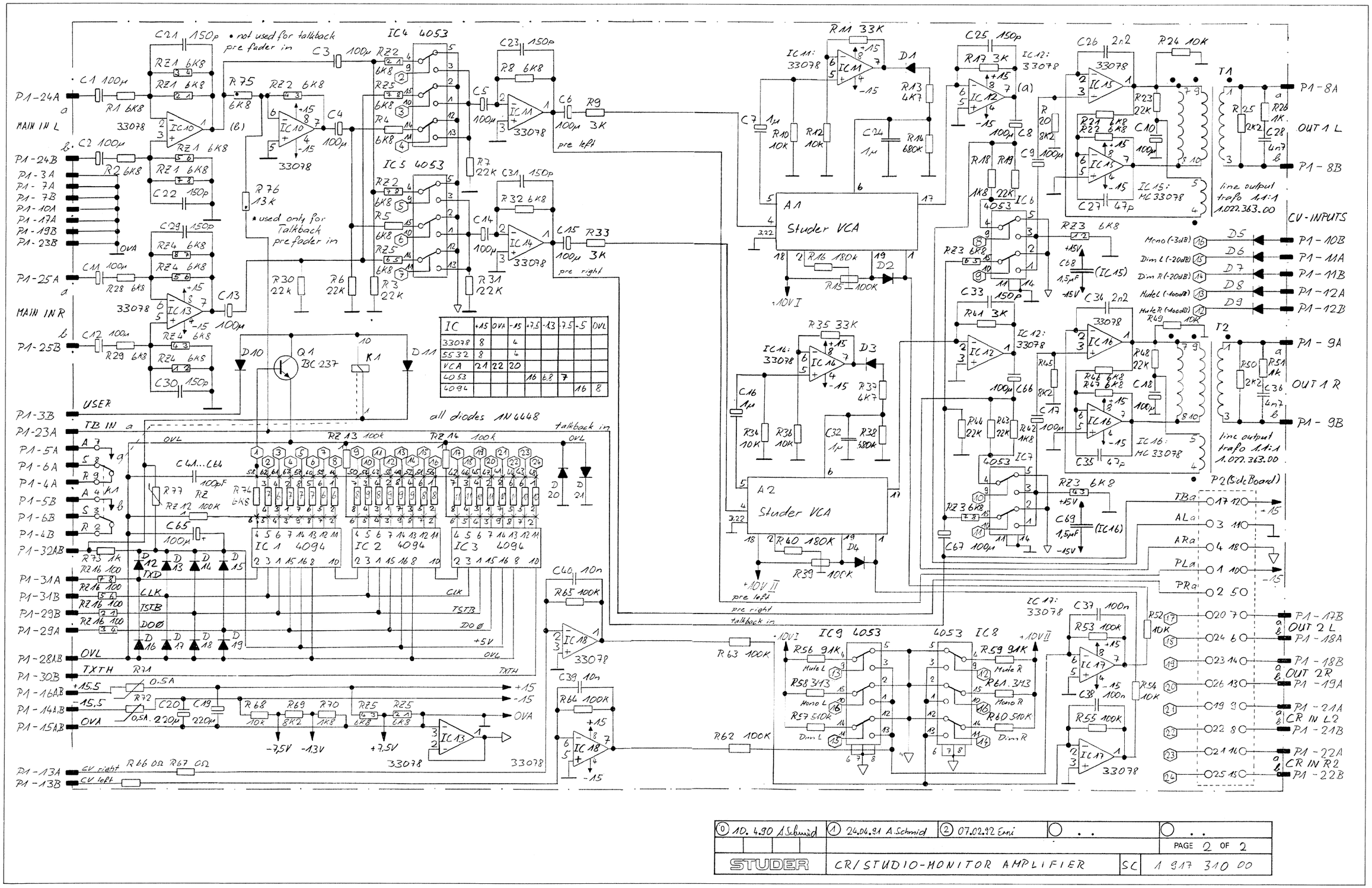
Pin Location List
CR + Studio Monitor Mix Amplifier 1.917.300.00

P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC	
P1	01	0V-A	GROUND AUDIO	B	X X
P1	02A	IN A-L-a	0-OHM INPUT A LEFT a	S	
P1	02B	IN A-L-b	0-OHM INPUT A LEFT b	S	
P1	03A	IN A-R-a	0-OHM INPUT A RIGHT a	S	
P1	03B	IN A-R-b	0-OHM INPUT A RIGHT b	S	
P1	04A	IN B-L-a	0-OHM INPUT B LEFT a	S	
P1	04B	IN B-L-b	0-OHM INPUT B LEFT b	S	
P1	05A	IN B-R-a	0-OHM INPUT B RIGHT a	S	
P1	05B	IN B-R-b	0-OHM INPUT B RIGHT b	S	
P1	06	0V-A	GROUND AUDIO	B	X X
P1	07A	-	RES		
P1	07B	-	RES		
P1	8	0V-A	GROUND AUDIO	B	X X
P1	09A	M-HL-L-a	INPUT MASTER HL LEFT a	S	
P1	09B	M-HL-L-b	INPUT MASTER HL LEFT b	S	
P1	10A	M-HL-R-a	INPUT MASTER HL RIGHT a	S	
P1	10B	M-HL-R-b	INPUT MASTER HL RIGHT b	S	
P1	11A	-	N.C.		
P1	11B	-	N.C.		
P1	12A	-	N.C.		
P1	12B	-	N.C.		
P1	13A	METER-L-a	OUTPUT METER LEFT a	S	
P1	13B	METER-L-b	OUTPUT METER LEFT b	S	
P1	14	- 15.5V	- SUPPLY	B	X X
P1	15	0V-A	GROUND AUDIO	B	X X
P1	16	+ 15.5V	+ SUPPLY	B	X X
P1	17A	METER-R-a	OUTPUT METER RIGHT a	S	
P1	17A	METER-R-b	OUTPUT METER RIGHT b	S	
P1	18	0V-A	GROUND AUDIO	B	X X
P1	19A	0V-A	GROUND AUDIO		
P1	19B	PFL-IN-L-b	PFL INPUT LEFT (b)	AS,I	
P1	20A	0V-A	GROUND AUDIO	B	
P1	20B	-	N.C.		
P1	21A	0V-A	GROUND AUDIO		
P1	21B	PFL-IN-R-b	PFL INPUT RIGHT (b)	AS,I	
P1	22A	0V-A	GROUND AUDIO		
P1	22B	CR-OUT-L-a	CR OUTPUT LEFT (a)	AS	
P1	23A	0V-A	GROUND AUDIO		
P1	23B	CR-OUT-R-a	CR OUTPUT RIGHT (a)	AS	
P1	24A	0V-A	GROUND AUDIO		
P1	24B	S-OUT-L-a	STUDIO OUTPUT LEFT (a)	AS	
P1	25A	0V-A	GROUND AUDIO		
P1	25B	S-OUT-R-a	STUDIO OUTPUT RIGHT (a)	AS	
P1	26A	0V-A	GROUND AUDIO		
P1	26B	PHO-OUT-L-a	PHONE OUTPUT LEFT (a)	AS	
P1	27A	0V-A	GROUND AUDIO		
P1	27B	PHO-OUT-R-a	PHONE OUTPUT RIGHT (a)	AS	
P1	28	0V-L	GROUND SIGN (LOGIC)	B	X X
P1	29A	DO 0	DATA OUT 0 (ENABLE)		
P1	29B	TSTB 5	TRANSMIT STROBE 5		
P1	30A	-	RES		
P1	30B	TXTH	TRANSMIT DATA THROUGH		
P1	31A	TXD	TRANSMIT DATA		
P1	31B	TCL	TRANSMIT CLOCK		
P1	32	+ 5.5V	+ SUPPLY	B	X X

CR / Studio Monitor Amplifier 1.917.310.00



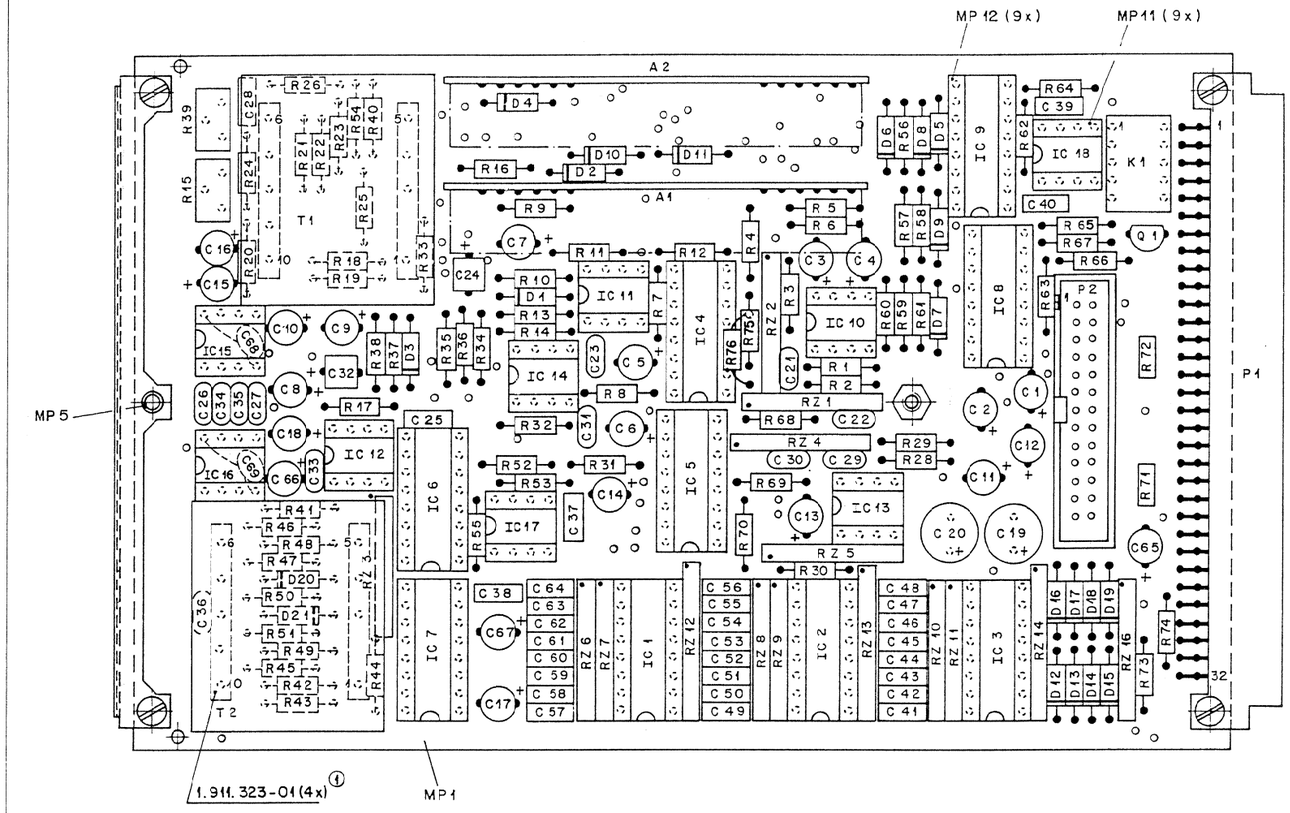
CR / Studio Monitor Amplifier 1.917.310.00

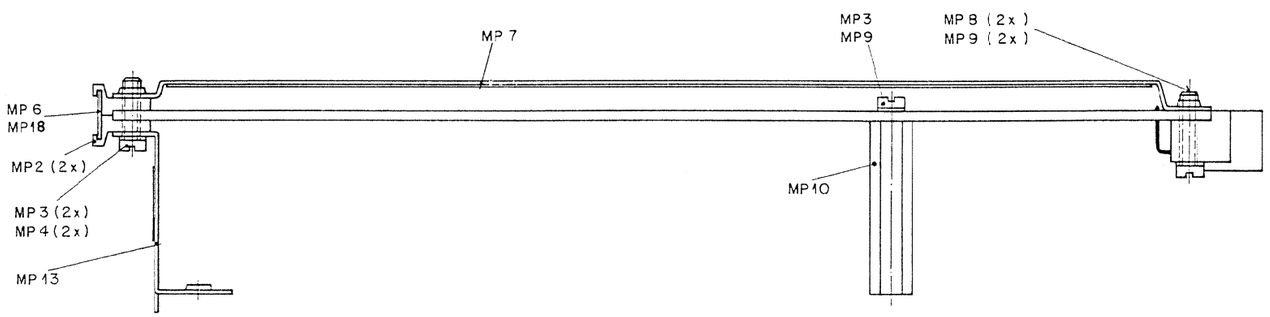


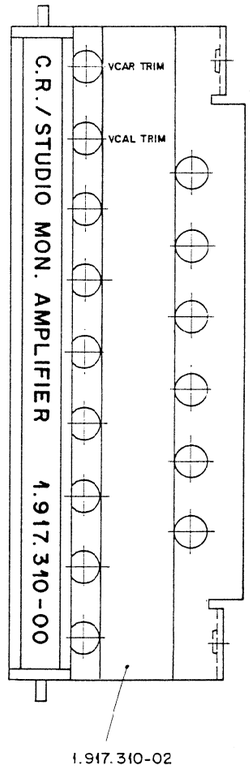
IC	+15	OVA	-15	+7.5	-13	-7.5	-5	OVL
33078	8		4					
5532	8		4					
VCA	21	22	20					
4053				16	6,8	7		
4094							16	8

0 10. 4.90 A.Schmid	1 24.04.91 A.Schmid	2 07.02.92 Erni	. .	. .	PAGE 2 OF 2
STUDER	CR/STUDIO-MONITOR AMPLIFIER			SC	1 917 310 00

CR / Studio Monitor Amplifier 1.917.310.00







Änderung					③
	24.4.91				②
	15.11.90				①
Ausgabe	22.9.89				⓪
	Datum	Gez.	Gepr.	Ges.	Index

Kopie für:

STUDER REGENSDORF ZÜRICH	Benennung: C.R/STUDIO MONITOR AMPLIFIER ESE	Nummer: 1.917.310-00

Ad	..POS..	...REF.No...	DESCRIPTION			MANUFACTURER
	A.....1	1.911.291.00	VCA Board Type 2			St
	A.....2	1.911.291.00	VCA Board Type 2			St
	C.....1	59.22.3101	100 uF	EL	10V	
	C.....2	59.22.3101	100 uF	EL	10V	
	C.....3	59.22.3101	100 uF	EL	10V	
	C.....4	59.22.3101	100 uF	EL	10V	
	C.....5	59.22.3101	100 uF	EL	10V	
	C.....6	59.22.3101	100 uF	EL	10V	
	C.....7	59.22.8109	1 uF	EL	50V	
	C.....8	59.22.3101	100 uF	EL	10V	
	C.....9	59.22.3101	100 uF	EL	10V	
	C....10	59.22.3101	100 uF	EL	10V	
	C....11	59.22.3101	100 uF	EL	10V	
	C....12	59.22.3101	100 uF	EL	10V	
	C....13	59.22.3101	100 uF	EL	10V	
	C....14	59.22.3101	100 uF	EL	10V	
	C....15	59.22.3101	100 uF	EL	10V	
	C....16	59.22.8109	1 uF	EL	50V	
	C....17	59.22.3101	100 uF	EL	10V	
	C....18	59.22.3101	100 uF	EL	10V	
	C....19	59.22.4221	220 uF	EL	16V	
	C....20	59.22.4221	220 uF	EL	16V	
	C....21	59.34.7151	150 pF	CE		
	C....22	59.34.7151	150 pF	CE		
	C....23	59.34.7151	150 pF	CE		
	C....24	59.22.6100	10 uF	EL	35V	
02	C....24	59.06.0105	1 uF	PE		
	C....25	59.34.7151	150 pF	CE		
	C....26	59.34.2470	47 pF	CE		
03	C....26	59.06.0222	2.2 nF	PE		
	C....27	59.34.2470	47 pF	CE		
	C....28	59.06.0472	4.7 nF	PE		
	C....29	59.34.7151	150 pF	CE		
	C....30	59.34.7151	150 pF	CE		
	C....31	59.34.7151	150 pF	CE		
	C....32	59.22.6100	10 uF	EL	35V	
02	C....32	59.06.0105	1 uF	PE		
	C....33	59.34.7151	150 pF	CE		
	C....34	59.34.2470	47 pF	CE		
03	C....34	59.06.0222	2.2 nF	PE		
	C....35	59.34.2470	47 pF	CE		
	C....36	59.06.0472	4.7 nF	PE		
	C....37	59.06.0104	100 nF	PE		
	C....38	59.06.0104	100 nF	PE		
	C....39	59.06.0103	10 nF	PE		
	C....40	59.06.0103	10 nF	PE		
	C....41	59.34.4101	100 pF	CE		
	C....42	59.34.4101	100 pF	CE		
	C....43	59.34.4101	100 pF	CE		
	C....44	59.34.4101	100 pF	CE		
	C....45	59.34.4101	100 pF	CE		
	C....46	59.34.4101	100 pF	CE		
	C....47	59.34.4101	100 pF	CE		
	C....48	59.34.4101	100 pF	CE		
	C....49	59.34.4101	100 pF	CE		
	C....50	59.34.4101	100 pF	CE		
	C....51	59.34.4101	100 pF	CE		
	C....52	59.34.4101	100 pF	CE		
	C....53	59.34.4101	100 pF	CE		
	C....54	59.34.4101	100 pF	CE		
	C....55	59.34.4101	100 pF	CE		
	C....56	59.34.4101	100 pF	CE		
	C....57	59.34.4101	100 pF	CE		
	C....58	. . 0	not used			
	C....59	59.34.4101	100 pF	CE		
	C....60	59.34.4101	100 pF	CE		
	C....61	59.34.4101	100 pF	CE		
	C....62	59.34.4101	100 pF	CE		
	C....63	59.34.4101	100 pF	CE		
	C....64	59.34.4101	100 pF	CE		
	C....65	59.22.3101	100 uF	EL	10V	
	C....66	59.22.3101	100 uF	EL	10V	
	C....67	59.22.3101	100 uF	EL	10V	
02	C....68	59.32.4152	1.5 nF	CE		
02	C....69	59.32.4152	1.5 nF	CE		
	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	50.04.0125	1N4448			
	D.....9	50.04.0125	1N4448			
	D....10	50.04.0125	1N4448			
	D....11	50.04.0125	1N4448			
	D....12	50.04.0125	1N4448			
	D....13	50.04.0125	1N4448			
	D....14	50.04.0125	1N4448			
	D....15	50.04.0125	1N4448			
	D....16	50.04.0125	1N4448			
	D....17	50.04.0125	1N4448			
	D....18	50.04.0125	1N4448			
	D....19	50.04.0125	1N4448			
	D....20	50.04.0125	1N4448			
	D....21	50.04.0125	1N4448			

CR / Studio Monitor Amplifier 1.917.310.00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	IC....1	50.07.0018	CD4094	shift and store busregister
	IC....2	50.07.0018	CD4094	shift and store busregister
	IC....3	50.07.0018	CD4094	shift and store busregister
	IC....4	50.07.0015	CD4053	triple 2 ch. analog mux/demux
	IC....5	50.07.0015	CD4053	triple 2 ch. analog mux/demux
	IC....6	50.07.0015	CD4053	triple 2 ch. analog mux/demux
	IC....7	50.07.0015	CD4053	triple 2 ch. analog mux/demux
	IC....8	50.07.0015	CD4053	triple 2 ch. analog mux/demux
	IC....9	50.07.0015	CD4053	triple 2 ch. analog mux/demux
	IC...10	50.09.0117	MC33078	dual op. amp.
	IC...11	50.09.0117	MC33078	dual op. amp.
	IC...12	50.09.0117	MC33078	dual op. amp.
	IC...13	50.09.0117	MC33078	dual op. amp.
	IC...14	50.09.0117	MC33078	dual op. amp.
	IC...15	50.09.0106	NE5532AN	dual op. amp.
01	IC...15	50.09.0117	MC33078	dual op. amp.
	IC...16	50.09.0106	NE5532AN	dual op. amp.
01	IC...16	50.09.0117	MC33078	dual op. amp.
	IC...17	50.09.0117	MC33078	dual op. amp.
	IC...18	50.09.0117	MC33078	dual op. amp.
	K.....1	56.04.0195	2*U	RELAIS 6V 2*U
	MP....1	1.917.310.11	1 pcs	PCB
	MP....2	1.010.006.33	2 pcs	Griffhaelfte
	MP....3	21.01.0280	3 pcs	Z-Schr.,ZN,M2.5*8
	MP....4	24.16.1025	2 pcs	Rippenscheibe D2.7/5
	MP....5	28.21.1380	1 pcs	Rohrniete,D2.25*6.5
04	MP....5	28.21.1390	1 pcs	Rohrniete,D2.25*7.0
	MP....6	1.010.096.49	1 pcs	Klarsichtschild
	MP....7	1.010.090.49	1 pcs	Abschirmung komplett
	MP....8	21.01.0281	2 pcs	Z-Schr.,ZN,M2.5*10
	MP....9	24.16.1025	3 pcs	Rippenscheibe D2.7/5
	MP...10	1.010.204.27	1 pcs	Mutterbolzen M2.5*25
	MP...11	53.03.0166	9 pcs	IC-Socket, 8-pin
	MP...12	53.03.0168	9 pcs	IC-Socket,16-pin
	MP...13	1.917.142.01	1 pcs	Halter
	MP...17	43.01.0108	1 pcs	ESE-Schild
	MP...18	1.917.310.01	1 pcs	Bezeichnungsstreifen 6.3*91
	Q.....1	50.03.0436	BC 237	UNI NPN 100 mA
	P.....1	54.11.2004	2*32 pin	eurocard-connector
	P.....2	54.14.2003	26 pin	PCB ribbon connector
	R.....1	57.11.3682	6.8 kOhm	1% MF
	R.....2	57.11.3682	6.8 kOhm	1% MF
	R.....3	57.11.3223	22 kOhm	1% MF
	R.....4	57.11.3682	6.8 kOhm	1% MF
	R.....5	57.11.3682	6.8 kOhm	1% MF
	R.....6	57.11.3223	22 kOhm	1% MF
	R.....7	57.11.3223	22 kOhm	1% MF
	R.....8	57.11.3682	6.8 kOhm	1% MF
	R.....9	57.11.3302	3.0 kOhm	1% MF
	R....10	57.11.3103	10 kOhm	1% MF
	R....11	57.11.3333	33 kOhm	1% MF
	R....12	57.11.3103	10 kOhm	1% MF
	R....13	57.11.3472	4.7 kOhm	1% MF
	R....14	57.11.3684	680 kOhm	1% MF
	R....15	58.01.9104	100 kOhm	trimpot
	R....16	57.11.3184	180 kOhm	1% MF
	R....17	57.11.3302	3.0 kOhm	1% MF
	R....18	57.11.3182	1.8 kOhm	1% MF
	R....19	57.11.3223	22 kOhm	1% MF
	R....20	57.11.3822	8.2 kOhm	1% MF
	R....21	57.11.3682	6.8 kOhm	1% MF
	R....22	57.11.3682	6.8 kOhm	1% MF
	R....23	57.11.3223	22 kOhm	1% MF
	R....24	57.11.3103	10 kOhm	1% MF
	R....25	57.11.3222	2.2 kOhm	1% MF
	R....26	57.11.3102	1.0 kOhm	1% MF
	R....28	57.11.3682	6.8 kOhm	1% MF
	R....29	57.11.3682	6.8 kOhm	1% MF
	R....30	57.11.3223	22 kOhm	1% MF
	R....31	57.11.3223	22 kOhm	1% MF
	R....32	57.11.3682	6.8 kOhm	1% MF
	R....33	57.11.3302	3.0 kOhm	1% MF
	R....34	57.11.3103	10 kOhm	1% MF
	R....35	57.11.3333	33 kOhm	1% MF
	R....36	57.11.3103	10 kOhm	1% MF
	R....37	57.11.3472	4.7 kOhm	1% MF
	R....38	57.11.3684	680 kOhm	1% MF
	R....39	58.01.9104	100 kOhm	trimpot
	R....40	57.11.3184	180 kOhm	1% MF
	R....41	57.11.3302	3.0 kOhm	1% MF
	R....42	57.11.3182	1.8 kOhm	1% MF
	R....43	57.11.3223	22 kOhm	1% MF
	R....44	57.11.3223	22 kOhm	1% MF
	R....45	57.11.3822	8.2 kOhm	1% MF
	R....46	57.11.3682	6.8 kOhm	1% MF
	R....47	57.11.3682	6.8 kOhm	1% MF
	R....48	57.11.3223	22 kOhm	1% MF
	R....49	57.11.3103	10 kOhm	1% MF
	R....50	57.11.3222	2.2 kOhm	1% MF
	R....51	57.11.3102	1 kOhm	1% MF
	R....52	57.11.3103	10 kOhm	1% MF
	R....53	57.11.3104	100 kOhm	1% MF
	R....54	57.11.3103	10 kOhm	1% MF
	R....55	57.11.3104	100 kOhm	1% MF
	R....56	57.11.3913	91 kOhm	1% MF
	R....57	57.11.3514	510 kOhm	1% MF
	R....58	57.11.5335	3.3 MOhm	1% MF
	R....59	57.11.3913	91 kOhm	1% MF
	R....60	57.11.3514	510 kOhm	1% MF
	R....61	57.11.5335	3.3 MOhm	1% MF
	R....62	57.11.3104	100 kOhm	1% MF
	R....63	57.11.3104	100 kOhm	1% MF
	R....64	57.11.3104	100 kOhm	1% MF
	R....65	57.11.3104	100 kOhm	1% MF
	R....66	57.11.3000	0 Ohm	Bridge
	R....67	57.11.3000	0 Ohm	Bridge
	R....68	57.11.3103	10 kOhm	1% MF
	R....69	57.11.3822	8.2 kOhm	1% MF
	R....70	57.11.3182	1.8 kOhm	1% MF
	R....71	57.92.7013	500 mA	R - PTC 0.5 Ohm
	R....72	57.92.7013	500 mA	R - PTC 0.5 Ohm
	R....73	57.11.3102	1.0 kOhm	1% MF 5V-R Version used only (see R77)
	R....74	57.11.3682	6.8 kOhm	1% MF
	R....75	57.11.3682	6.8 kOhm	1% MF TB AF used only (see R76)
	R....76	. . 0	not used	TB PF Version used only 57.11.3133(see R75)
	R....77	. . 0	not used	5V-PTC Version used only 57.92.1121(see R73)
	RZ....1	57.88.2682	6.8 kOhm	2% 4*1 network
	RZ....2	57.88.2682	6.8 kOhm	2% 4*1 network
	RZ....3	57.88.2682	6.8 kOhm	2% 4*1 network
	RZ....4	57.88.2682	6.8 kOhm	2% 4*1 network
	RZ....5	57.88.2682	6.8 kOhm	2% 4*1 network
	RZ....6	57.88.2104	100 kOhm	2% 4*1 network
	RZ....7	57.88.2104	100 kOhm	2% 4*1 network
	RZ....8	57.88.2104	100 kOhm	2% 4*1 network
	RZ....9	57.88.2104	100 kOhm	2% 4*1 network
	RZ...10	57.88.2104	100 kOhm	2% 4*1 network
	RZ...11	57.88.2104	100 kOhm	2% 4*1 network
	RZ...12	57.88.4104	100 kOhm	2% 8*1 network
	RZ...13	57.88.4104	100 kOhm	2% 8*1 network
	RZ...14	57.88.4104	100 kOhm	2% 8*1 network
	RZ...16	57.88.2101	100 Ohm	2% 4*1 network
05	T.....1	1.022.363.81		Line Output-Trafo
05	T.....2	1.022.363.81		Line Output-Trafo

index (4) 29.02.92 Rohrniete neu 7.0 statt 6.5 mm
(5) 23.11.93 Trafo 1.022.363.81 Ri < 40 Ohm
CE = Ceramic, PE=Polyester

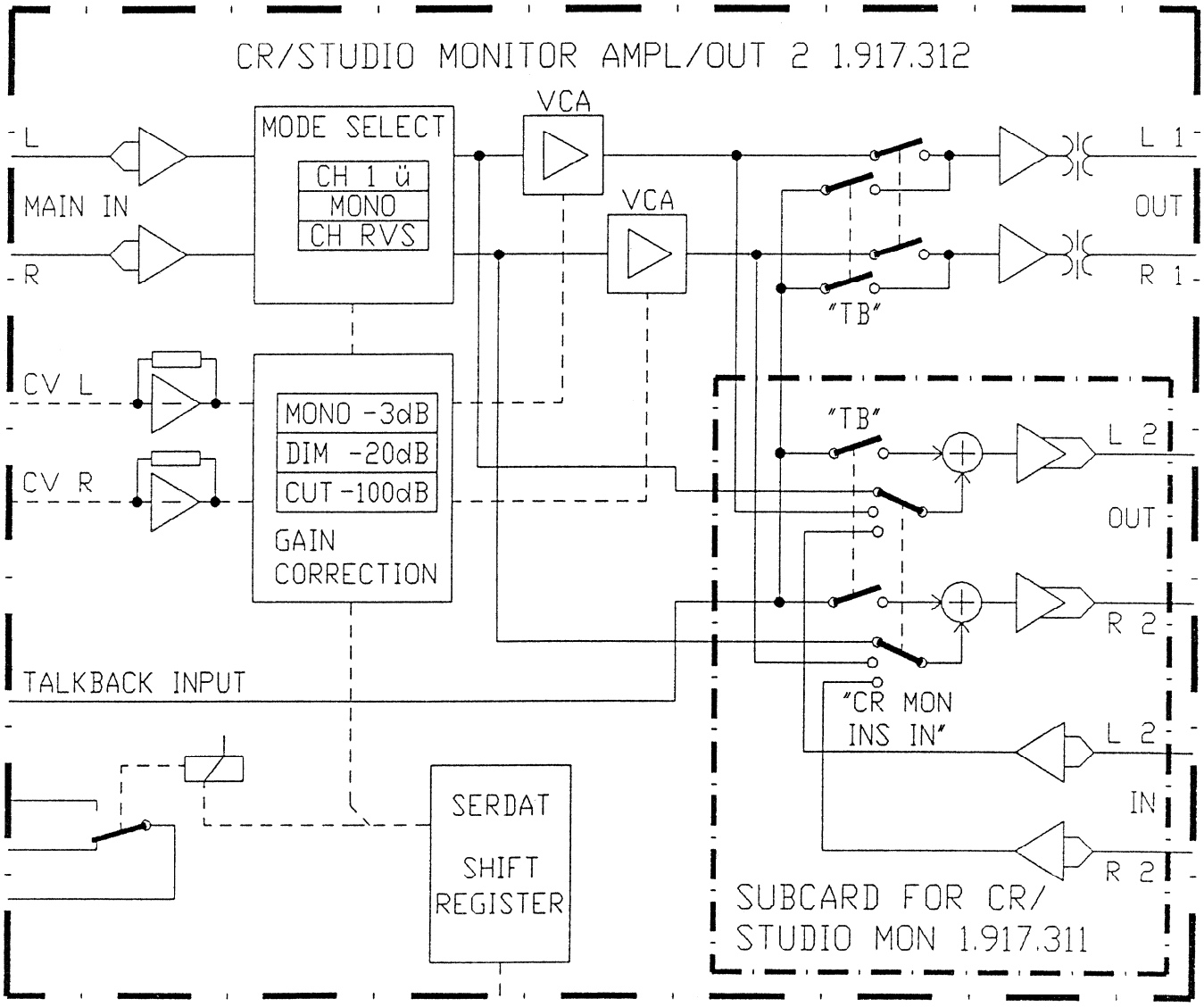
MANUFACTURER: St = STUDER

1.917.310.00	CR/STUDIO-MONITOR AMPLIFIER	SCA88/10/1000
1.917.310.00	CR/STUDIO-MONITOR AMPLIFIER	SCA90/12/1401
1.917.310.00	CR/STUDIO-MONITOR AMPLIFIER	SCA91/04/2402
1.917.310.00	CR/STUDIO-MONITOR AMPLIFIER	SE92/07/0203
1.917.310.00	CR/STUDIO-MONITOR AMPLIFIER	SE92/02/2904
1.917.310.00	CR/STUDIO-MONITOR AMPLIFIER	FRI93/11/2305

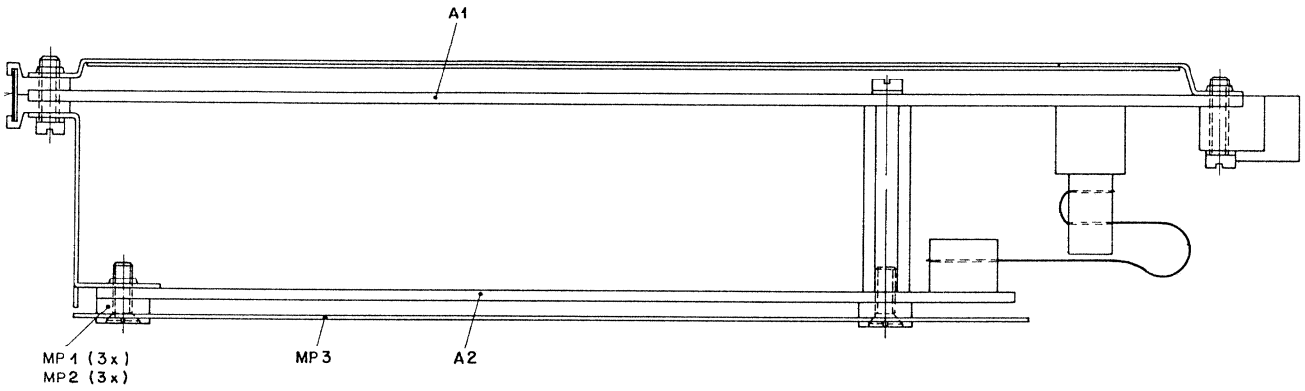
Pin Location List
CR / Studio Monitor Amplifier 1.917.310.00

P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC		
P1	01A	-	RES			
P1	01B	-	RES			
P1	02A	-	RES			
P1	02B	-	RES			
P1	03A	0V-A	GROUND AUDIO			
P1	03B	D USER				
P1	04A	REL-A-r	RELAIS A ; r= BREAK CONTACT			
P1	04B	REL-B-r	RELAIS B ; r= BREAK CONTACT			
P1	05A	REL-A-a	RELAIS A ; a= MAKE CONTACT			
P1	05B	REL-B-a	RELAIS B ; a= MAKE CONTACT			
P1	06A	REL-A-s	RELAIS A ; s= CONTACT			
P1	06B	REL-B-s	RELAIS B ; s= CONTACT			
P1	07	0V-A	GROUND AUDIO	B	X	X
P1	08A	MON-OUT1-L-a	MONITOR OUTPUT 1 LEFT a	S		
P1	08B	MON-OUT1-L-b	MONITOR OUTPUT 1 LEFT b	S		
P1	09A	MON-OUT1-R-a	MONITOR OUTPUT 1 RIGHT a	S		
P1	09B	MON-OUT1-R-b	MONITOR OUTPUT 1 RIGHT b	S		
P1	10A	0V-A	GROUND AUDIO			
P1	10B	CV-MONO-D	CONTROL VOLTAGE MONO			
P1	11A	CV-DIM -D-L	CONTROL VOLTAGE -20dB LEFT			
P1	11B	CV-DIM -D-R	CONTROL VOLTAGE -20dB RIGHT			
P1	12A	CV-MUTE-D-L	CONTROL VOLTAGE MUTE LEFT			
P1	12B	CV-MUTE D-R	CONTROL VOLTAGE MUTE RIGHT			
P1	13A	CV-VCA-R	CONTROL VOLTAGE VCA RIGHT			
P1	13B	CV-VCA-L	CONTROL VOLTAGE VCA LEFT			
P1	14	- 15.5V	- SUPPLY	B	X	X
P1	15	0V-A	GROUND AUDIO	B	X	X
P1	16	+ 15.5V	+ SUPPLY	B	X	X
P1	17A	0V-A	GROUND AUDIO			
P1	17B	MON-OUT2-L-a	MONITOR OUTPUT 2 LEFT a	S		
P1	18A	MON-OUT2-L-b	MONITOR OUTPUT 2 LEFT b	S		
P1	18B	MON-OUT2-R-a	MONITOR OUTPUT 2 RIGHT a	S		
P1	19A	MON-OUT2-R-b	MONITOR OUTPUT 2 RIGHT b	S		
P1	19B	0V-A	GROUND AUDIO			
P1	20A	-	N.C.			
P1	20B	-	N.C.			
P1	21A	MON-IN2-L-a	MONITOR INPUT 2 LEFT a	S		
P1	21B	MON-IN2-L-b	MONITOR INPUT 2 LEFT b	S		
P1	22A	MON-IN2-R-a	MONITOR INPUT 2 RIGHT a	S		
P1	22B	MON-IN2-R-b	MONITOR INPUT 2 RIGHT b	S		
P1	23A	TB-IN-a	TALKBACK INPUT (a)	AS		
P1	23B	0V-A	GROUND AUDIO			
P1	24A	MON-IN1-L-a	MONITOR INPUT 1 LEFT a	S		
P1	24B	MON-IN1-L-b	MONITOR INPUT 1 LEFT b	S		
P1	25A	MON-IN1-R-a	MONITOR INPUT 1 RIGHT a	S		
P1	25B	MON-IN1-R-b	MONITOR INPUT 1 RIGHT b	S		
P1	26A	-	RES			
P1	26B	-	RES			
P1	27A	-	RES			
P1	27B	-	RES			
P1	28	0V-L	GROUND SIGN (LOGIC)	B	X	X
P1	29A	DO 0	DATA OUT 0 (ENABLE)			
P1	29B	TSTB 4	TRANSMIT STROBE 4			
P1	30A	-	RES			
P1	30B	TXTH	TRANSMIT DATA THROUGH			
P1	31A	TXD	TRANSMIT DATA			
P1	31B	TCL	TRANSMIT CLOCK			
P1	32	+ 5.5V	+ SUPPLY	B	X	X

Subcard for CR / Studio Monitor 1.917.311.00
CR / Studio Monitor Amplifier / Out 1.917.312.00



CR / Studio Monitor Amplifier / Out 2 1.917.312.00



Änderung					
					③
					②
					①
Ausgabe	30.1.90	AW	IK	SCA	⓪
	Datum	Gez	Gepr	Ges	Index

Kopie für:

STUDER REGENSDORF ZÜRICH	Benennung: C.R./STUDIO MONITOR AMPL./OUT 2	Nummer: 1.917.312-00

Ad	..POS..	...REF.No...		DESCRIPTION.....MANUFACTURER
	A.....1	1.917.310.00		CR/STUDIO MONITOR AMP. ,A
	A.....2	1.917.311.00		SUBCARD FOR CR/STUDIO MON. ,A
	MP....1	21.01.2279	3 pcs	S-SCHR. ,ZN,M2.5*6
01	MP....1	21.01.2280	3 pcs	S-SCHR. ,ZN,M2.5*8
	MP....2	1.917.142.02	3 pcs	Isolierhuelse
	MP....3	1.917.142.03	1 pcs	Isolation
	MP....4	1.917.312.01	1 pcs	Bezeichnungsstreifen 6,3 * 91

(01) 90/03/01 MP 1 Screws were too short

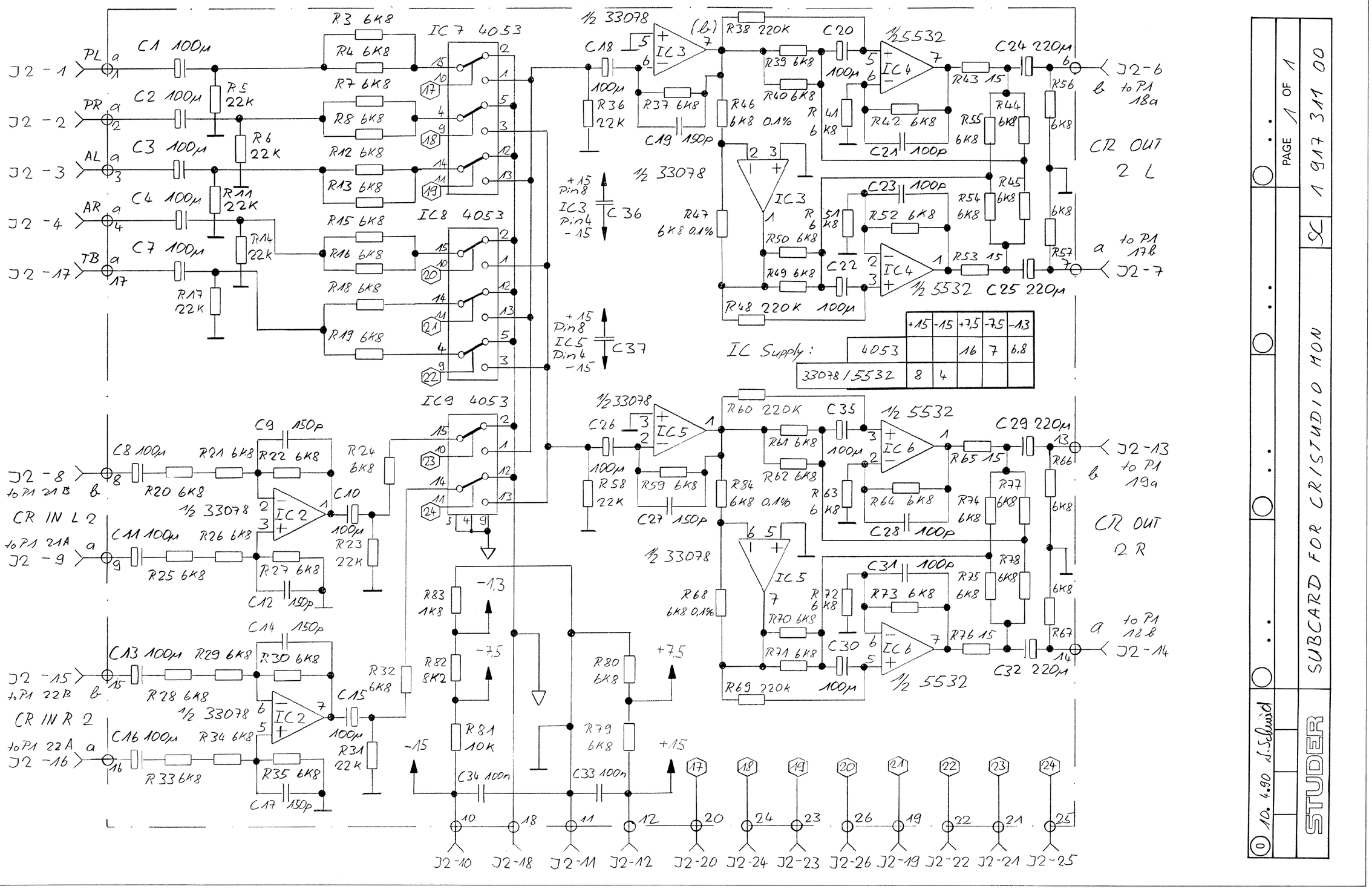
CER=Ceramic, PE=Polyester
MF=Metal Film, PMG=Cermet

MANUFACTURER: Ex=Exar, NEC=Nippon Electric Corp., Ph=Philips, Ra=Raytheon, Sig=Signetics, St=Studer.

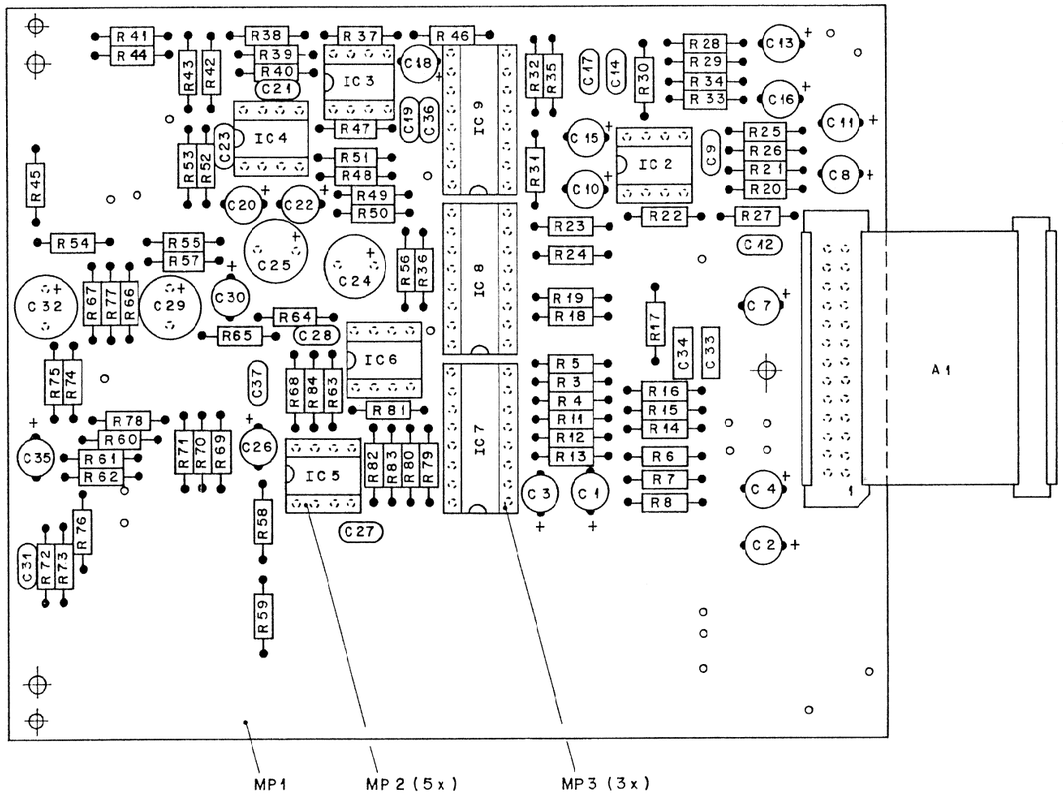
1.917.312.00 CR/STUDIO-MONITOR AMPL/OUT 2 SCA90/08/0100

1.917.312.00 CR/STUDIO-MONITOR AMPL/OUT 2 SCA90/03/0101

Subcard for CR / Studio Monitor 1.917.311.00



Subcard for CR / Studio Monitor 1.917.311.00



Änderung					
					3
					2
					1
Ausgabe	21.9.89				0
	Datum	Gez	Gepr.	Ges.	Index
	Kopie für:				

STUDER REGENSDORF ZÜRICH	Benennung: SUBCARD FOR C.R. STUDIO MON. ESE	Nummer: 1.917.311-00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	A.....1	1.023.112.01	Flachkabel 26 Pol	ST
	C.....1	59.22.3101	100 uF EL 10V	
	C.....2	59.22.3101	100 uF EL 10V	
	C.....3	59.22.3101	100 uF EL 10V	
	C.....4	59.22.3101	100 uF EL 10V	
	C.....7	59.22.3101	100 uF EL 10V	
	C.....8	59.22.3101	100 uF EL 10V	
	C.....9	59.34.7151	150 pF CE 63V 2%	
	C.....10	59.22.3101	100 uF EL 10V	
	C.....11	59.22.3101	100 uF EL 10V	
	C.....12	59.34.7151	150 pF CE 63V 2%	
	C.....13	59.22.3101	100 uF EL 10V	
	C.....14	59.34.7151	150 pF CE 63V 2%	
	C.....15	59.22.3101	100 uF EL 10V	
	C.....16	59.22.3101	100 uF EL 10V	
	C.....17	59.34.7151	150 pF CE 63V 2%	
	C.....18	59.22.3101	100 uF EL 10V	
	C.....19	59.34.7151	150 pF CE 63V 2%	
	C.....20	59.22.3101	100 uF EL 10V	
	C.....21	59.34.4101	100 pF CE 63V 2%	
	C.....22	59.22.3101	100 uF EL 10V	
	C.....23	59.34.4101	100 pF CE 63V 2%	
	C.....24	59.22.4221	220 uF EL 16V	
	C.....25	59.22.4221	220 uF EL 16V	
	C.....26	59.22.3101	100 uF EL 10V	
	C.....27	59.34.7151	150 pF CE 63V 2%	
	C.....28	59.34.4101	100 pF CE 63V 2%	
	C.....29	59.22.4221	220 uF EL 16V	
	C.....30	59.22.3101	100 uF EL 10V	
	C.....31	59.34.4101	100 pF CE 63V 2%	
	C.....32	59.22.4221	220 uF EL 16V	
	C.....33	59.06.0104	100 nF PE 63V	
	C.....34	59.06.0104	100 nF PE 63V	
	C.....35	59.22.3101	100 uF EL 10V	
	C.....36	59.06.0103	10 nF PE 63V	
	C.....37	59.06.0103	10 nF PE 63V	
	IC....2	50.09.0117	MC33078 dual op. amp.	
	IC....3	50.09.0117	MC33078 dual op. amp.	
	IC....4	50.09.0105	NE5532N dual op. amp.	
	IC....5	50.09.0117	MC33078 dual op. amp.	
	IC....6	50.09.0105	NE5532N dual op. amp.	
	IC....7	50.07.0015	CD4053 triple 2 ch. analog mux/demux	
	IC....8	50.07.0015	CD4053 triple 2 ch. analog mux/demux	
	IC....9	50.07.0015	CD4053 triple 2 ch. analog mux/demux	
	MP....1	1.917.311.11	1 pcs SUB-PCB for CR/Studio Monitor	
	MP....2	53.03.0166	5 pcs IC-Socket 8-pin	
	MP....3	53.03.0168	3 pcs IC-Socket 16-pin	
	MP....4	43.01.0108	1 pcs ESE-Schild	
	MP....5	1.917.311.04	1 pcs Nr-Etikette 5*20	
	R.....3	57.11.3682	6.8 kOhm 1% MF	
	R.....4	57.11.3682	6.8 kOhm 1% MF	
	R.....5	57.11.3223	22 kOhm 1% MF	
	R.....6	57.11.3223	22 kOhm 1% MF	
	R.....7	57.11.3682	6.8 kOhm 1% MF	
	R.....8	57.11.3682	6.8 kOhm 1% MF	
	R....11	57.11.3223	22 kOhm 1% MF	
	R....12	57.11.3682	6.8 kOhm 1% MF	
	R....13	57.11.3682	6.8 kOhm 1% MF	
	R....14	57.11.3223	22 kOhm 1% MF	
	R....15	57.11.3682	6.8 kOhm 1% MF	
	R....16	57.11.3682	6.8 kOhm 1% MF	
	R....17	57.11.3223	22 kOhm 1% MF	
	R....18	57.11.3682	6.8 kOhm 1% MF	
	R....19	57.11.3682	6.8 kOhm 1% MF	
	R....20	57.11.3682	6.8 kOhm 1% MF	
	R....21	57.11.3682	6.8 kOhm 1% MF	
	R....22	57.11.3682	6.8 kOhm 1% MF	
	R....23	57.11.3223	22 kOhm 1% MF	
	R....24	57.11.3682	6.8 kOhm 1% MF	
	R....25	57.11.3682	6.8 kOhm 1% MF	
	R....26	57.11.3682	6.8 kOhm 1% MF	
	R....27	57.11.3682	6.8 kOhm 1% MF	
	R....28	57.11.3682	6.8 kOhm 1% MF	
	R....29	57.11.3682	6.8 kOhm 1% MF	
	R....30	57.11.3682	6.8 kOhm 1% MF	
	R....31	57.11.3223	22 kOhm 1% MF	
	R....32	57.11.3682	6.8 kOhm 1% MF	
	R....33	57.11.3682	6.8 kOhm 1% MF	
	R....34	57.11.3682	6.8 kOhm 1% MF	
	R....35	57.11.3682	6.8 kOhm 1% MF	
	R....36	57.11.3223	22 kOhm 1% MF	
	R....37	57.11.3682	6.8 kOhm 1% MF	
	R....38	57.11.3224	220 kOhm 1% MF	
	R....39	57.11.3682	6.8 kOhm 1% MF	
	R....40	57.11.3682	6.8 kOhm 1% MF	
	R....41	57.11.3682	6.8 kOhm 1% MF	
	R....42	57.11.3682	6.8 kOhm 1% MF	
	R....43	57.11.3150	15 Ohm 1% MF	
	R....44	57.11.3682	6.8 kOhm 1% MF	
	R....45	57.11.3682	6.8 kOhm 1% MF	
	R....46	57.99.0250	6.8 kOhm 0.1%	
	R....47	57.99.0250	6.8 kOhm 0.1%	
	R....48	57.11.3224	220 kOhm 1% MF	
	R....49	57.11.3682	6.8 kOhm 1% MF	
	R....50	57.11.3682	6.8 kOhm 1% MF	
	R....51	57.11.3682	6.8 kOhm 1% MF	
	R....52	57.11.3682	6.8 kOhm 1% MF	
	R....53	57.11.3150	15 Ohm 1% MF	
	R....54	57.11.3682	6.8 kOhm 1% MF	
	R....55	57.11.3682	6.8 kOhm 1% MF	
	R....56	57.11.3682	6.8 kOhm 1% MF	
	R....57	57.11.3682	6.8 kOhm 1% MF	
	R....58	57.11.3223	22 kOhm 1% MF	
	R....59	57.11.3682	6.8 kOhm 1% MF	
	R....60	57.11.3224	220 kOhm 1% MF	
	R....61	57.11.3682	6.8 kOhm 1% MF	
	R....62	57.11.3682	6.8 kOhm 1% MF	
	R....63	57.11.3682	6.8 kOhm 1% MF	
	R....64	57.11.3682	6.8 kOhm 1% MF	
	R....65	57.11.3150	15 Ohm 1% MF	
	R....66	57.11.3682	6.8 kOhm 1% MF	
	R....67	57.11.3682	6.8 kOhm 1% MF	
	R....68	57.99.0250	6.8 kOhm 0.1%	
	R....69	57.11.3224	220 kOhm 1% MF	
	R....70	57.11.3682	6.8 kOhm 1% MF	
	R....71	57.11.3682	6.8 kOhm 1% MF	
	R....72	57.11.3682	6.8 kOhm 1% MF	
	R....73	57.11.3682	6.8 kOhm 1% MF	
	R....74	57.11.3682	6.8 kOhm 1% MF	
	R....75	57.11.3682	6.8 kOhm 1% MF	
	R....76	57.11.3150	15 Ohm 1% MF	
	R....77	57.11.3682	6.8 kOhm 1% MF	
	R....78	57.11.3682	6.8 kOhm 1% MF	
	R....79	57.11.3682	6.8 kOhm 1% MF	
	R....80	57.11.3682	6.8 kOhm 1% MF	
	R....81	57.11.3103	10 kOhm 1% MF	
	R....82	57.11.3822	8.2 kOhm 1% MF	
	R....83	57.11.3182	1.8 kOhm 1% MF	
	R....84	57.99.0250	6.8 kOhm 0.1%	
	R....85	. . 0	not used	
	R....86	. . 0	not used	

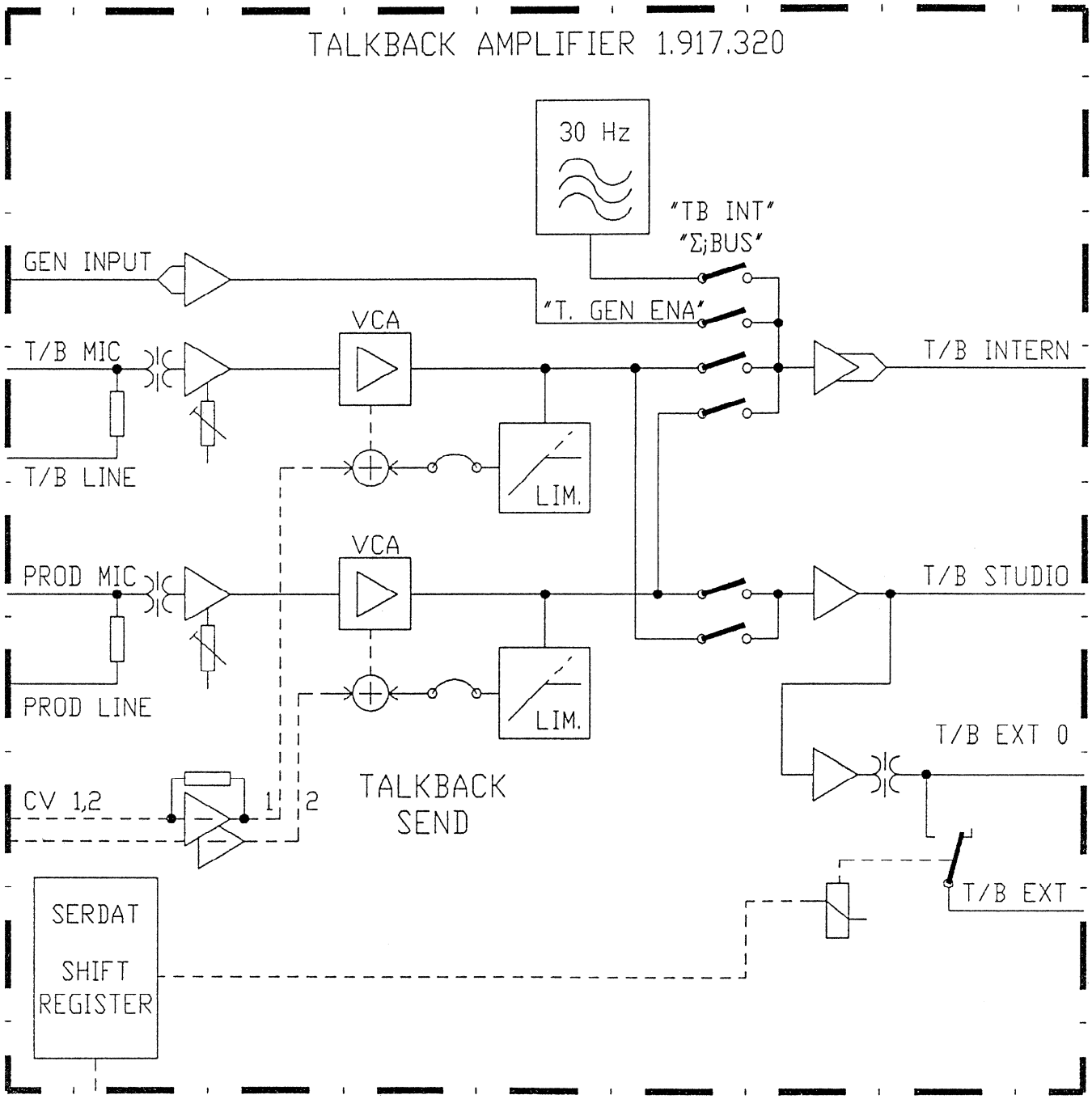
CER=Ceramic, PE=Polyester
MF=Metal Film, PMG=Cermet

MANUFACTURER: Ex=Exar, NEC=Nippon Electric Corp., Ph=Philips, Ra=Raytheon, Sig=Signetics, St=Studer.

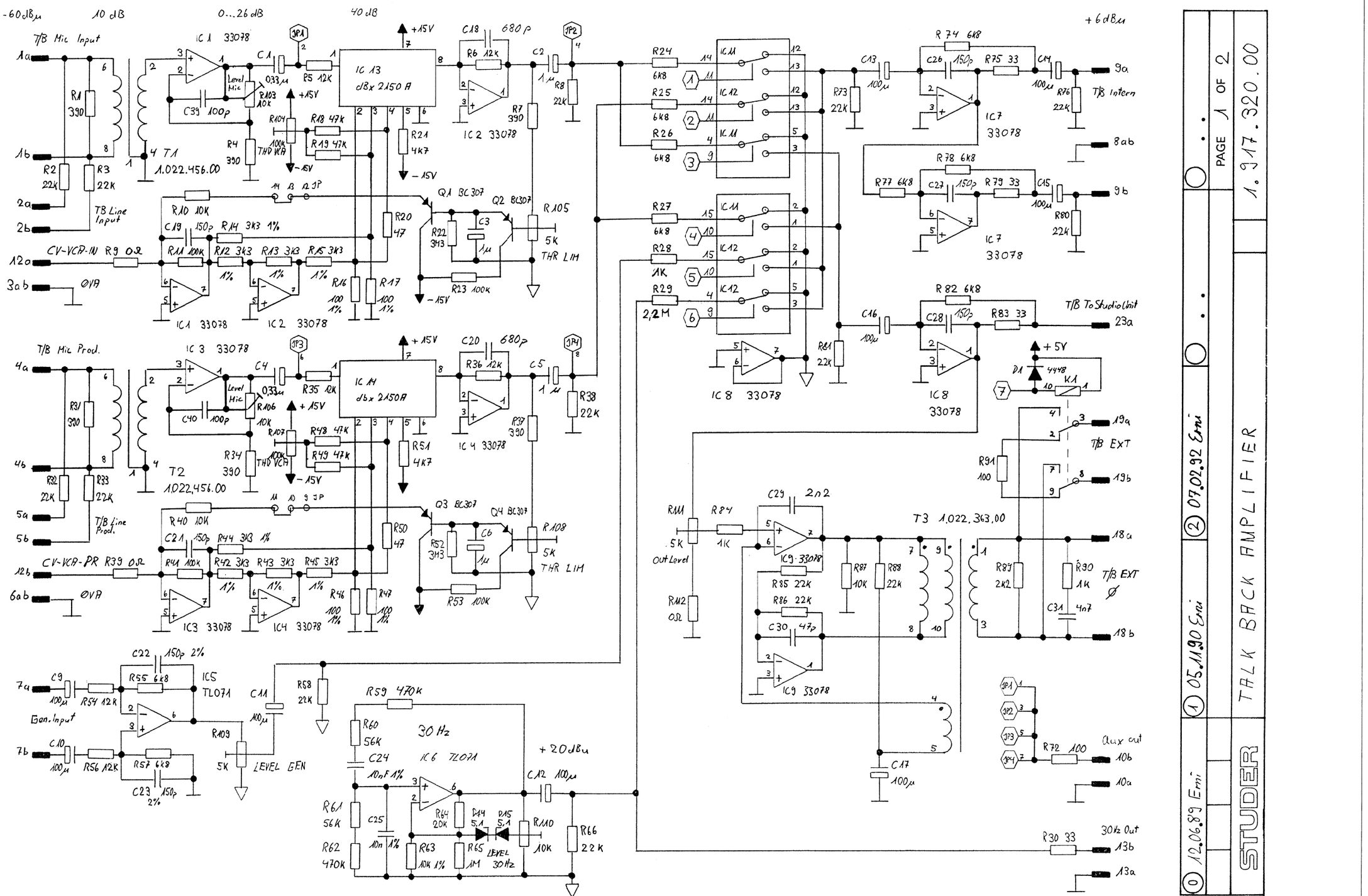
1.917.311.00 SUBCARD FOR C.R./STUDIO MON. SCA88/10/1000

END

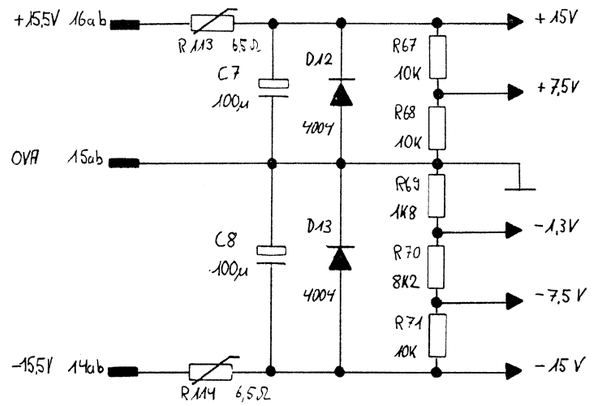
Talkback Amplifier 1.917.320.00

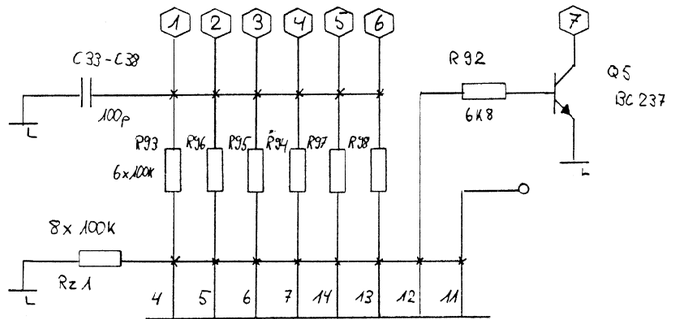


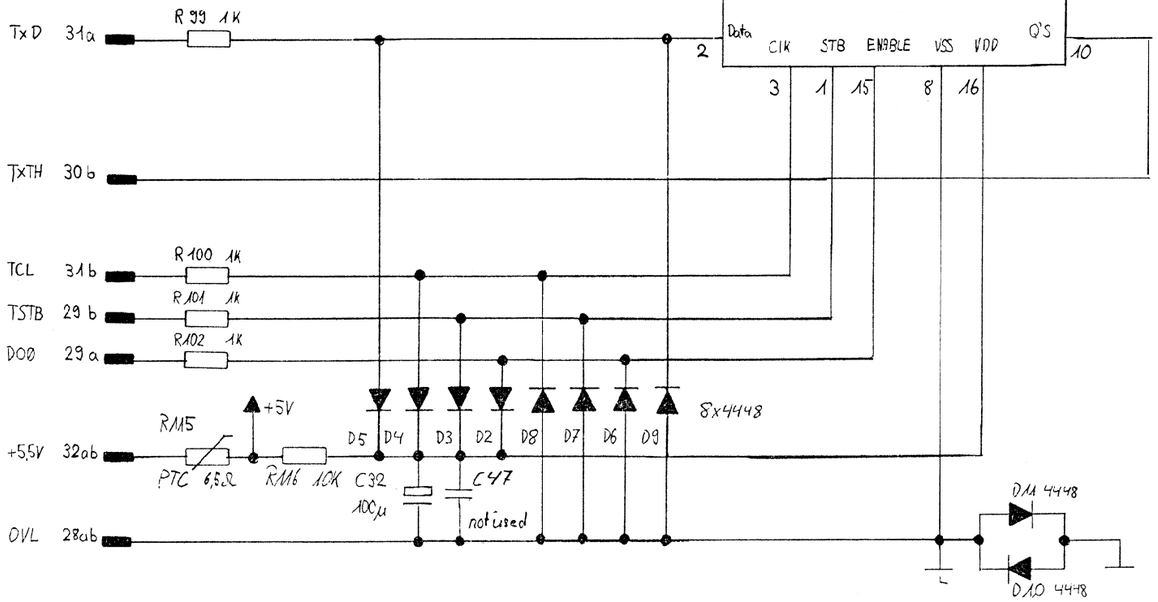
Talkback Amplifier 1.917.320.00

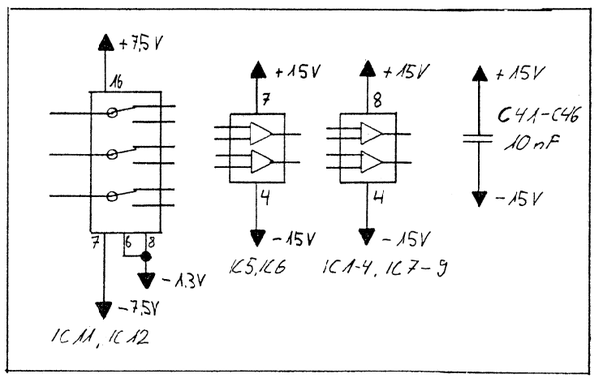


Talkback Amplifier 1.917.320.00



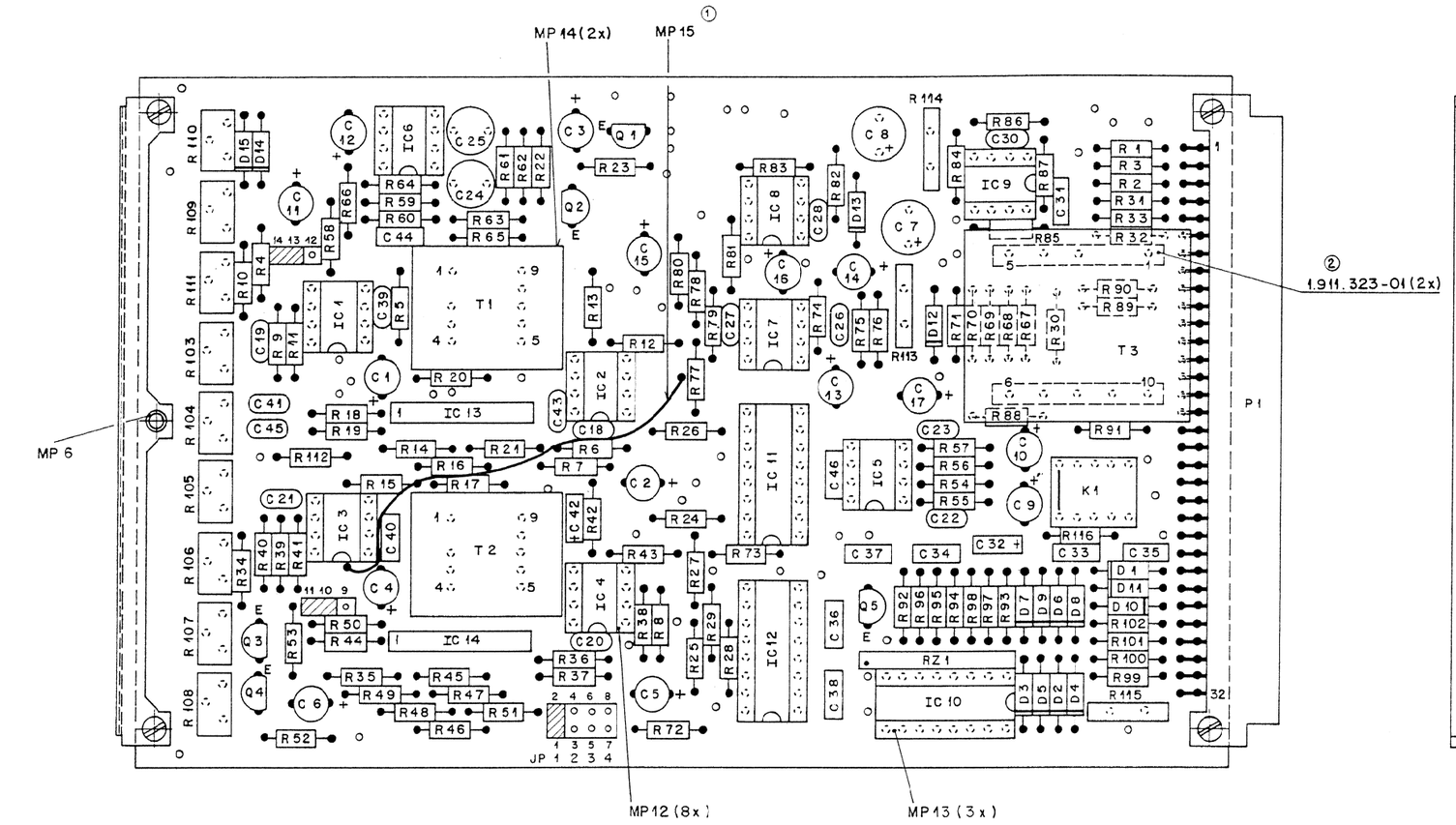


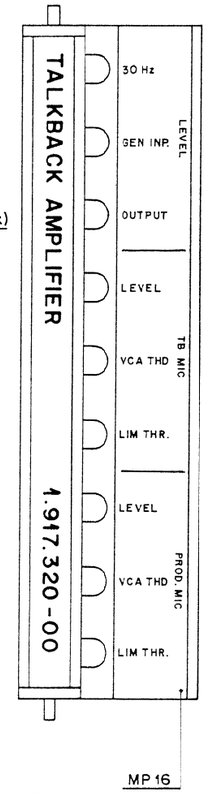


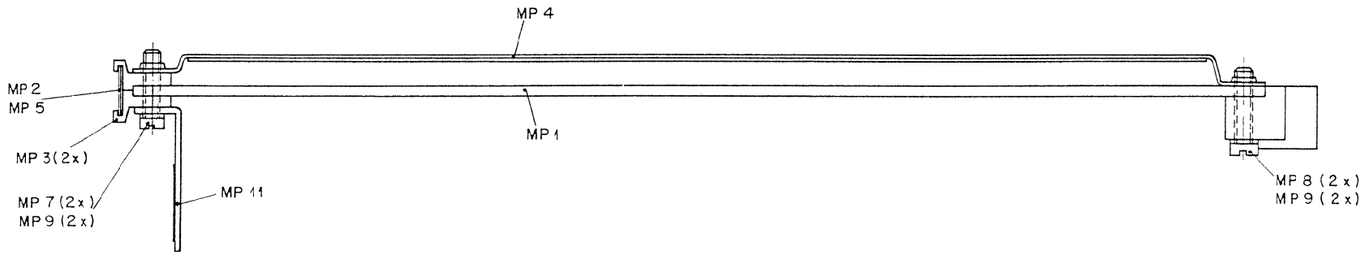


0 12.06.89 Emi	1 05.11.90 Emi	2 07.02.92 Emi	PAGE 2 OF 2
STUDER	TALBACK AMPLIFIER		1.917.320.00

Talkback Amplifier 1.917.320.00







Änderung / Ausgabe	Datum	Gez.	Gepr.	Ges.	Index
Änderung	15.11.90				(3)
Änderung	20.4.90				(2)
Ausgabe	31.10.89				(1)

Kopie für:

STUDER REGENSDORF ZÜRICH	Benennung: TALKBACK AMPLIFIER ESE	Nummer: 1.917.320-00

Ad	..POS..	...REF.No...	DESCRIPTION			MANUFACTURER
	C.....1	59.06.5334	0.33 uF			PE
	C.....2	59.06.5105	1 uF			PE
	C.....3	59.22.8109	1 uF			EL
	C.....4	59.06.5334	0.33 uF			PE
	C.....5	59.06.5105	1 uF			PE
	C.....6	59.22.8109	1 uF			EL
	C.....7	59.22.5101	100 uF	25V		EL
	C.....8	59.22.5101	100 uF	25V		EL
	C.....9	59.22.3101	100 uF	10V		EL
	C....10	59.22.3101	100 uF	10V		EL
	C....11	59.22.3101	100 uF	10V		EL
	C....12	59.22.3101	100 uF	10V		EL
	C....13	59.22.3101	100 uF	10V		EL
	C....14	59.22.3101	100 uF	10V		EL
	C....15	59.22.3101	100 uF	10V		EL
	C....16	59.22.3101	100 uF	10V		EL
	C....17	59.22.3101	100 uF	10V		EL
	C....18	59.32.2681	680 pF			CER
	C....19	59.34.7151	150 pF			CER
	C....20	59.32.2681	680 pF			CER
	C....21	59.34.7151	150 pF			CER
	C....22	59.34.7151	150 pF			CER
	C....23	59.34.7151	150 pF			CER
	C....24	59.05.1103	10 nF	1%		PP
	C....25	59.05.1103	10 nF	1%		PP
	C....26	59.34.7151	150 pF			CER
	C....27	59.34.7151	150 pF			CER
	C....28	59.34.7151	150 pF			CER
	C....29	. .			not used	
04	C....29	59.06.0222	2.2 nF			PE
	C....30	59.34.2470	47 pF			CER
	C....31	59.06.0472	4.7 nF			PE
	C....32	59.22.3101	100 uF			EL
	C....33	59.06.0103	10 nF			PE
01	C....33	59.34.4101	100 pF			CER
	C....34	59.06.0103	10 nF			PE
01	C....34	59.34.4101	100 pF			CER
	C....35	59.06.0103	10 nF			PE
01	C....35	59.34.4101	100 pF			CER
	C....36	59.06.0103	10 nF			PE
01	C....36	59.34.4101	100 pF			CER
	C....37	59.06.0103	10 nF			PE
01	C....37	59.34.4101	100 pF			CER
	C....38	59.06.0103	10 nF			PE
01	C....38	59.34.4101	100 pF			CER
	C....39	59.34.1100	10 pF			CER
01	C....39	59.34.4101	100 pF			CER
	C....40	59.34.1100	10 pF			CER
01	C....40	59.34.4101	100 pF			CER
	C....41	59.06.0103	10 nF			PE
	C....42	59.06.0103	10 nF			PE
	C....43	59.06.0103	10 nF			PE
	C....44	59.06.0103	10 nF			PE
	C....45	59.06.0103	10 nF			PE
	C....45	59.06.0103	10 nF			PE
	C....47	59.06.0103	10 nF			PE
01	C....47	. .			not used	
	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
	D.....5	50.04.0125	1N4448			any
	D.....6	50.04.0125	1N4448			any
	D.....7	50.04.0125	1N4448			any
	D.....8	50.04.0125	1N4448			any
	D.....9	50.04.0125	1N4448			any
	D....10	50.04.0125	1N4448			any
	D....11	50.04.0125	1N4448			any
	D....12	50.04.0105	1N4004			any
	D....13	50.04.0105	1N4004			any
	D....14	50.04.1112	5.1 V	Zenerdiode		
	D....15	50.04.1112	5.1 V	Zenerdiode		
	IC....1	50.09.0117	MC33078P	dual op.amp.		Mo
	IC....2	50.09.0117	MC33078P	dual op.amp.		Mo
	IC....3	50.09.0117	MC33078P	dual op.amp.		Mo
	IC....4	50.09.0117	MC33078P	dual op.amp.		Mo
	IC....5	50.09.0103	TL 071	single op. amp.		Ra,Ne
	IC....6	50.09.0103	TL 071	single op. amp.		Ra,Ne
	IC....7	50.09.0117	MC33078P	dual op.amp.		Mo
	IC....8	50.09.0117	MC33078P	dual op.amp.		Mo
	IC....9	50.09.0105	NE5532N	dual op.amp.		Sig,Mot,Six
03	IC....9	50.09.0117	MC33078P	dual op.amp.		Mo
	IC...10	50.07.0018	4094	shift and store bus register		
	IC...11	50.07.0015	4053	tripple 2-channel analog mux\demux		
	IC...12	50.07.0015	4053	tripple 2-channel analog mux\demux		
	IC...13	50.11.0140	dbx2150A	VCA		
	IC...14	50.11.0140	dbx2150A	VCA		
	JJ.....1	54.01.0021		jumper jack		
	JJ.....2	54.01.0021		jumper jack		
	JJ.....3	54.01.0021		jumper jack		
	JP.....1	54.01.0020		jumper plug		
	JP.....2	54.01.0020		jumper plug		
	JP.....3	54.01.0020		jumper plug		
	JP.....4	54.01.0020		jumper plug		
	JP.....5	54.01.0020		jumper plug		
	JP.....6	54.01.0020		jumper plug		

Talkback Amplifier 1.917.320.00

Ad	..POS..	...REF.No...	DESCRIPTION			MANUFACTURER
	JP....7	54.01.0020		jumper plug		
	JP....8	54.01.0020		jumper plug		
	JP....9	54.01.0020		jumper plug		
	JP...10	54.01.0020		jumper plug		
	JP...11	54.01.0020		jumper plug		
	JP...12	54.01.0020		jumper plug		
	JP...13	54.01.0020		jumper plug		
	JP...14	54.01.0020		jumper plug		
	K.....1	56.04.0195		SDS Relais	Type TQ2-6V	
	P.....1	54.11.2004	2*32pin	euroconnector		Bu
	Q.....1	50.03.0515	BC307	PNP	or equivalent	any
	Q.....2	50.03.0515	BC307	PNP	or equivalent	any
	Q.....3	50.03.0515	BC307	PNP	or equivalent	any
	Q.....4	50.03.0515	BC307	PNP	or equivalent	any
	Q.....5	50.03.0436	BC237	NPN	or equivalent	any
	R.....1	57.11.3391	390 Ohm			
	R.....2	57.11.3223	22 kOhm			
	R.....3	57.11.3223	22 kOhm			
	R.....4	57.11.3391	390 Ohm			
	R.....5	57.11.3123	12 kOhm			
	R.....6	57.11.3123	12 kOhm			
	R.....7	57.11.3391	390 Ohm			
	R.....8	57.11.3223	22 kOhm			
	R.....9	57.11.3104	100 kOhm			
02	R....9	57.11.3000	0 Ohm			
	R....10	57.11.3103	10 kOhm			
	R....11	57.11.3104	100 kOhm			
	R....12	57.11.3332	3.3 kOhm	1%		
	R....13	57.11.3332	3.3 kOhm	1%		
	R....14	57.11.3332	3.3 kOhm	1%		
	R....15	57.11.3332	3.3 kOhm	1%		
	R....16	57.11.3101	100 Ohm	1%		
	R....17	57.11.3101	100 Ohm	1%		
	R....18	57.11.3473	47 kOhm			
	R....19	57.11.3473	47 kOhm			
	R....20	57.11.3470	47 Ohm			
	R....21	57.11.3472	4.7 kOhm			
	R....22	57.11.5335	3.3 MOhm			
	R....23	57.11.3104	100 kOhm			
	R....24	57.11.3682	6.8 kOhm			
	R....25	57.11.3682	6.8 kOhm			
	R....26	57.11.3682	6.8 kOhm			
	R....27	57.11.3682	6.8 kOhm			
	R....28	57.11.3222	2.2 kOhm			
01	R....28	57.11.3102	1 kOhm			
	R....29	57.11.3683	68 kOhm			
02	R....29	57.11.5225	2.2 MOhm			
	R....30	57.11.3330	33 Ohm			
	R....31	57.11.3391	390 Ohm			
	R....32	57.11.3223	22 kOhm			
	R....33	57.11.3223	22 kOhm			
	R....34	57.11.3391	390 Ohm			
	R....35	57.11.3123	12 kOhm			
	R....36	57.11.3123	12 kOhm			
	R....37	57.11.3391	390 Ohm			
	R....38	57.11.3223	22 kOhm			
	R....39	57.11.3104	100 kOhm			
02	R....39	57.11.3000	0 Ohm			
	R....40	57.11.3103	10 kOhm			
	R....41	57.11.3104	100 kOhm			
	R....42	57.11.3332	3.3 kOhm	1%		
	R....43	57.11.3332	3.3 kOhm	1%		
	R....44	57.11.3332	3.3 kOhm	1%		
	R....45	57.11.3332	3.3 kOhm	1%		
	R....46	57.11.3101	100 Ohm	1%		
	R....47	57.11.3101	100 Ohm	1%		
	R....48	57.11.3473	47 kOhm			
	R....49	57.11.3473	47 kOhm			
	R....50	57.11.3470	47 Ohm			
	R....51	57.11.3472	4.7 kOhm			
	R....52	57.11.5335	3.3 MOhm			
	R....53	57.11.3104	100 kOhm			
	R....54	57.11.3682	6.8 kOhm			
01	R....54	57.11.3123	12 kOhm			
	R....55	57.11.3682	6.8 kOhm			
	R....56	57.11.3682	6.8 kOhm			
01	R....56	57.11.3123	12 kOhm			
	R....57	57.11.3682	6.8 kOhm			
	R....58	57.11.3223	22 kOhm			
	R....59	57.11.3474	470 kOhm			
	R....60	57.11.3563	56 kOhm			
	R....61	57.11.3563	56 kOhm			
	R....62	57.11.3474	470 kOhm			
	R....63	57.11.3103	10 kOhm	1%		
	R....64	57.11.3203	20 kOhm	1%		
	R....65	57.11.3105	1 MOhm			
	R....66	57.11.3223	22 kOhm			
	R....67	57.11.3103	10 kOhm			
	R....68	57.11.3103	10 kOhm			
	R....69	57.11.3182	1.8 kOhm			
	R....70	57.11.3822	8.2 kOhm			
	R....71	57.11.3103	10 kOhm			
	R....72	57.11.3101	100 Ohm			
	R....73	57.11.3223	22 kOhm			
	R....74	57.11.3682	6.8 kOhm			
	R....75	57.11.3330	33 Ohm			
	R....76	57.11.3223	22 kOhm			
	R....77	57.11.3682	6.8 kOhm			
	R....78	57.11.3682	6.8 kOhm			
	R....79	57.11.3330	33 Ohm			
	R....80	57.11.3223	22 kOhm			
	R....81	57.11.3223	22 kOhm			
	R....82	57.11.3682	6.8 kOhm			
	R....83	57.11.3330	33 Ohm			
	R....84	57.11.3102	1 kOhm			
	R....85	57.11.3223	22 kOhm			
	R....86	57.11.3223	22 kOhm			
	R....87	57.11.3103	10 kOhm			
	R....88	57.11.3223	22 kOhm			
	R....89	57.11.3222	2.2 kOhm			
	R....90	57.11.3102	1 kOhm			
	R....91	57.11.3101	100 Ohm			
	R....92	57.11.3682	6.8 kOhm			
	R....93	57.11.3104	100 kOhm			
	R....94	57.11.3104	100 kOhm			
	R....95	57.11.3104	100 kOhm			
	R....96	57.11.3104	100 kOhm			
	R....97	57.11.3104	100 kOhm			
	R....98	57.11.3104	100 kOhm			
	R....99	57.11.3101	100 Ohm			
	R...100	57.11.3101	100 Ohm			
	R...101	57.11.3101	100 Ohm			
	R...102	57.11.3101	100 Ohm			
	R...103	58.01.9103	10 kOhm	trimpotm.		
01	R...103	58.01.7103	10 kOhm	trimpotm.	CCW	
	R...104	58.01.9104	100 kOhm	trimpotm.		
	R...105	58.01.9502	5 kOhm	trimpotm.		
	R...106	58.01.9103	10 kOhm	trimpotm.		
01	R...106	58.01.7103	10 kOhm	trimpotm.	CCW	
	R...107	58.01.9104	100 kOhm	trimpotm.		
	R...108	58.01.9502	5 kOhm	trimpotm.		
	R...109	58.01.9502	5 kOhm	trimpotm.		
	R...110	58.01.9103	10 kOhm	trimpotm.		
	R...111	57.11.3103	10 kOhm			
01	R...111	58.01.9502	5 kOhm	trimpotm.		
	R...112	57.11.3000	0 Ohm			
	R...113	57.92.1271		PTC, 270mA, ca. 6.5 Ohm		
	R...114	57.92.1271		PTC, 270mA, ca. 6.5 Ohm		
	R...115	57.92.1271		PTC, 270mA, ca. 6.5 Ohm		
	R...116	57.11.3103	10 kOhm			
01	RZ....1	57.88.4104	100 kOhm	8*100kOhm		
	T.....1	1.022.456.00		input trafo 1:2.24		STUDER
	T.....2	1.022.456.00		input trafo 1:2.24		STUDER
06	T.....3	1.022.363.81		trafo		STUDER
	MP....1	1.917.320.11	1 pcs	Print		Studer
	MP....2	1.917.320.01	1 pcs	Bez. Streifen 6.3*91		Studer
	MP....3	1.010.006.33	2 pcs	Griffhaelften		Studer
	MP....4	1.010.090.49	1 pcs	Abschirmblech		Studer
	MP....5	1.010.096.49	1 pcs	Klarsicht Schild		
	MP....6	28.21.1380	1 pcs	Rohrniete D2.5/6		
05	MP....6	28.21.1390	1 pcs	Rohrniete D 2.25 * 7.0		
	MP....7	21.01.0280	2 pcs	Z - Schraube M2.5*8		
	MP....8	21.01.0281	2 pcs	Z - Schraube M2.5*10		
	MP....9	24.16.1025	4 pcs	Rippenscheibe D2.7/5		
	MP...10	43.01.0108	1 pcs	ESE-Warnschild		
	MP...11	1.915.001.02	1 pcs	Winkel fuer Poti		Studer
	MP...12	53.03.0166	9 pcs	IC-Sockel 8 Pin		
	MP...13	53.03.0168	3 pcs	IC-Sockel 16 Pin		
	MP...14	1.022.400.03	2 pcs	Isolation zu Trafo		Studer
01	MP...15	1.010.112.64	1 pcs	Draht isoliert 68mm		
01	MP...16	1.917.320.02	1 pcs	Schild Potmeterbeschriftung		Studer

01|Seriebereinigung
02|Pegelbereich des 30HZ Gen. korr. und Regelbereich T/B vergroessert.
03|Ein-Ausschaltknallen verbessert.
04|Trafostufe angepasst
05|Rohrniete neu 7.0 statt 6.5 mm
06|Trafo 1.022.363.81 Ri < 40 Ohm

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

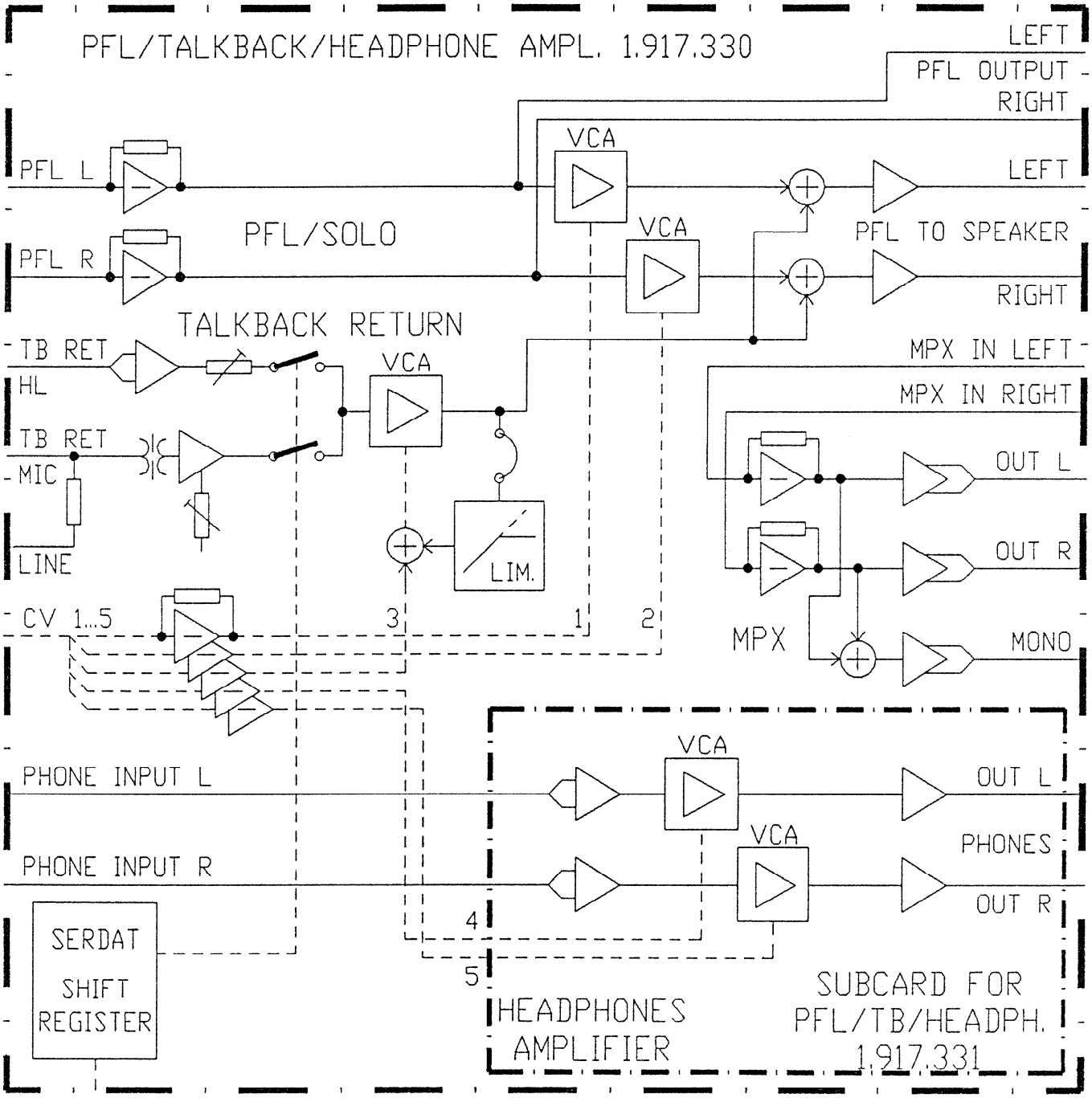
MANUFACTURER: Bu=Burndy, GI=General Instruments
Mot=Motorola, NS=National Semiconductors, Ra=Raytheon,
Sie=Siemens, Sig=Signetics, Six=Siliconix,
TI=Texas Instruments

1.917.320.00	TALKBACK AMPLIFIER	SE88/06/0900
1.917.320.00	TALKBACK AMPLIFIER	SE90/04/2001
1.917.320.00	TALKBACK AMPLIFIER	SE90/11/0502
1.917.320.00	TALKBACK AMPLIFIER	SE91/01/0903
1.917.320.00	TALKBACK AMPLIFIER	SE92/07/0204
1.917.320.00	TALKBACK AMPLIFIER	SE92/02/2905
1.917.320.00	TALKBACK AMPLIFIER	FRI93/11/2306

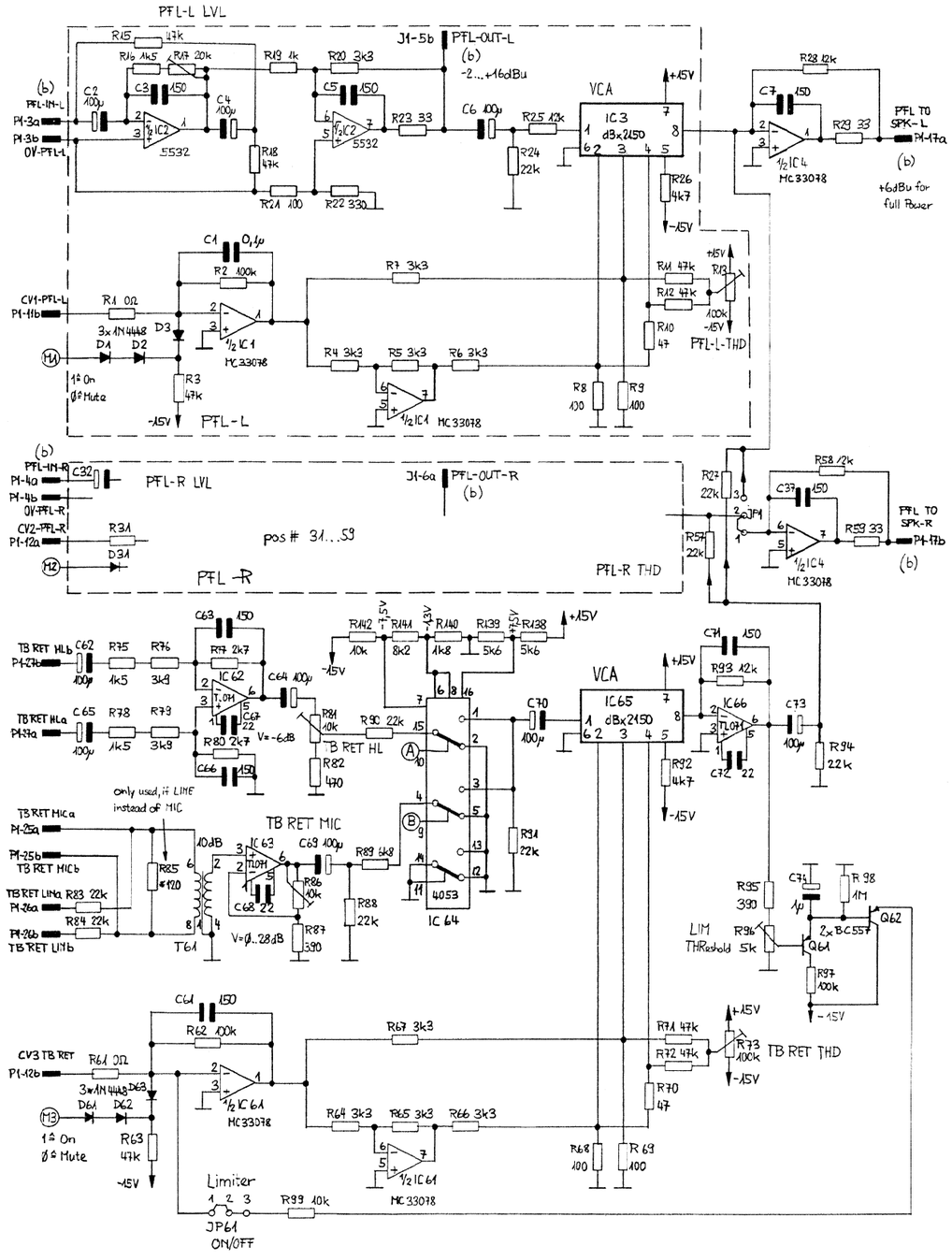
Pin Location List
Talkback Amplifier 1.917.320.00

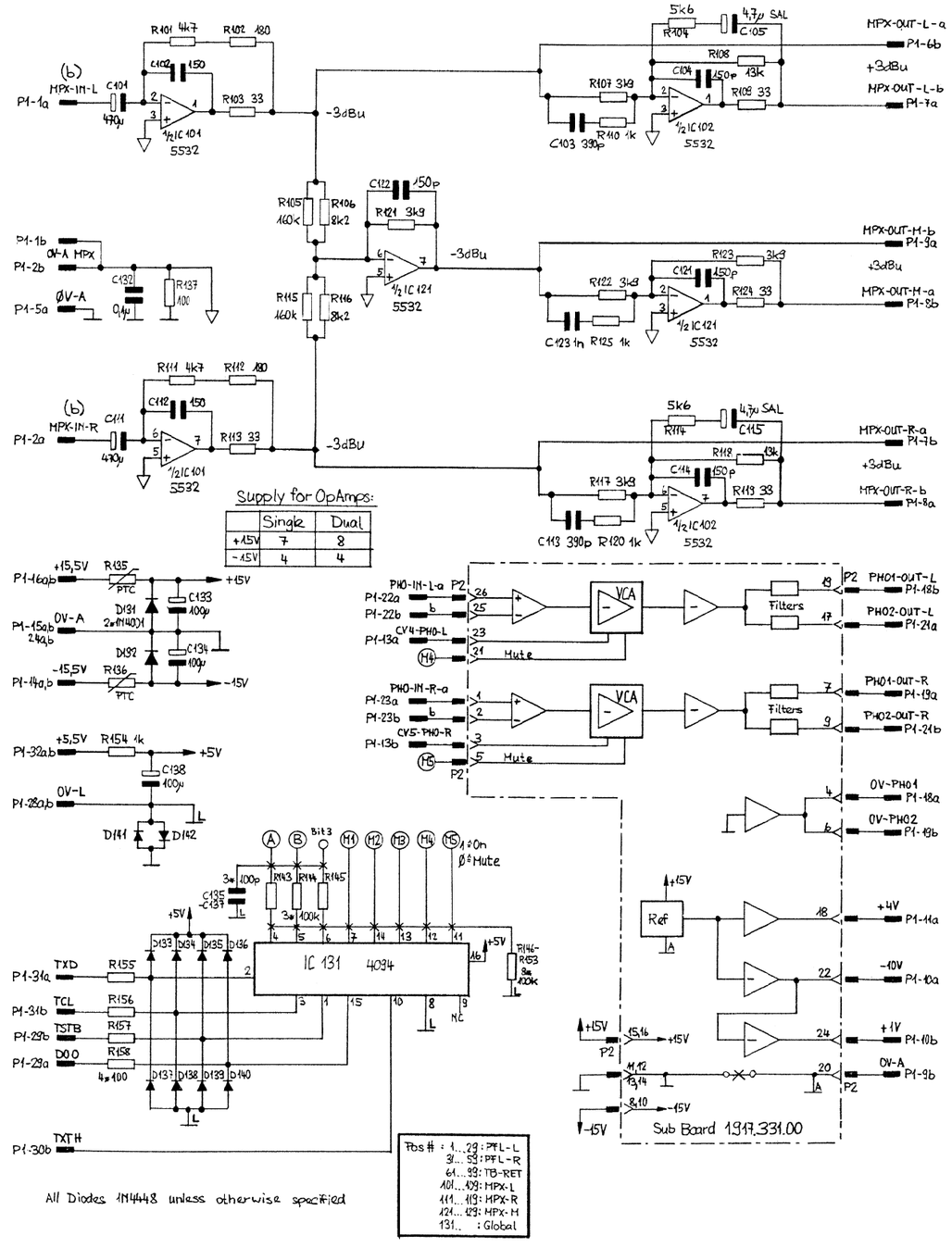
P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC		
P1	01A	TB-MIC -IN-a	TALKBACK MIC INPUT a	O,S		
P1	01B	TB-MIC -IN-b	TALKBACK MIC INPUT b	O,S		
P1	02A	TB-LINE-IN-a	TALKBACK LINE INPUT a	O,S		
P1	02B	TB-LINE-IN-b	TALKBACK LINE INPUT b	O,S		
P1	03	0V-A	GROUND AUDIO		X	X
P1	04A	TB-MIC -PR-a	TALKBACK MIC PRODUCER a	O,S		
P1	04B	TB-MIC -PR-b	TALKBACK MIC PRODUDER b	O,S		
P1	05A	TB-LINE-PR-a	TALKBACK LINE PRODUCER a	O,S		
P1	05B	TB-LINE-PR-b	TALKBACK LINE PRODUCER b	O,S		
P1	06	0V-A	GROUND AUDIO		X	X
P1	07A	OSZ-IN-a	OSZILATOR INPUT a	O,S		
P1	07B	OSZ-IN-b	OSZILATOR INPUT b	O,S		
P1	08	0V-A	GROUND AUDIO TALKBACK INTERN		X	X
P1	09A	TB-INT-a	OUTPUT ; TALKBACK INTERN a	O,S		
P1	09B	TB-INT-b	OUTPUT ; TALKBACK INTERN b	O,S		
P1	10A	0V-A	GROUND AUDIO		X	X
P1	10B	AUX-OUT	AUX OUTPUT	O,AS		
P1	11A	-	N.C.			
P1	11B	-	N.C.			
P1	12A	CV-VCA-IN	CONTROL VOLTAGE VCA INPUT			
P1	12B	CV-VCA-PR	CONTROL VOLTAGE VCA PRODUCER			
P1	13A	0V-A	GROUND AUDIO			
P1	13B	30HZ-OUT	30HZ OUTPUT	O,AS		
P1	14	- 15.5V	- SUPPLY	B	X	X
P1	15	0V-A	GROUND AUDIO	B	X	X
P1	16	+ 15.5V	+ SUPPLY	B	X	X
P1	17	0V-A	GROUND AUDIO		X	X
P1	18A	TB-EXT-0-a	OUTPUT ; TALKBACK EXTERN 0 a	O,S		
P1	18B	TB-EXT-0-b	OUTPUT ; TALKBACK EXTERN 0 b	O,S		
P1	19A	TB-EXT-1-a	OUTPUT ; TALKBACK EXTERN 1 a	O,S		
P1	19B	TB-EXT-1-b	OUTPUT ; TALKBACK EXTERN 1 b	O,S		
P1	20A	-	N.C.			
P1	20B	-	N.C.			
P1	21A	-	N.C.			
P1	21B	-	N.C.			
P1	22A	-	N.C.			
P1	22B	-	N.C.			
P1	23A	TB TO STUDIO	OUTPUT ; TALKBACK TO STUDIO	O,S		
P1	23B	-	N.C.			
P1	24A	-	N.C.			
P1	24B	-	N.C.			
P1	25A	-	N.C.			
P1	25B	-	N.C.			
P1	26A	-	N.C.			
P1	26B	-	N.C.			
P1	27A	-	N.C.			
P1	27B	-	N.C.			
P1	28	0V-L	GROUND SIGN (LOGIC)	B	X	X
P1	29A	DO 0	DATA OUT 0 (ENABLE)			
P1	29B	TSTB 4	TRANSMIT STROBE 4			
P1	30A	-	RES			
P1	30B	TXTH	TRANSMIT DATA THROUGH			
P1	31A	TXD	TRANSMIT DATA			
P1	31B	TCL	TRANSMIT CLOCK			
P1	32	+ 5.5V	+ SUPPLY	B	X	X

PFL / Talkback Headphone Amplifier 1.917.330.81
Subcard for PFL / Talkback Headphone 1.917.331.00



PFL / Talkback Headphone Amplifier 1.917.330.81

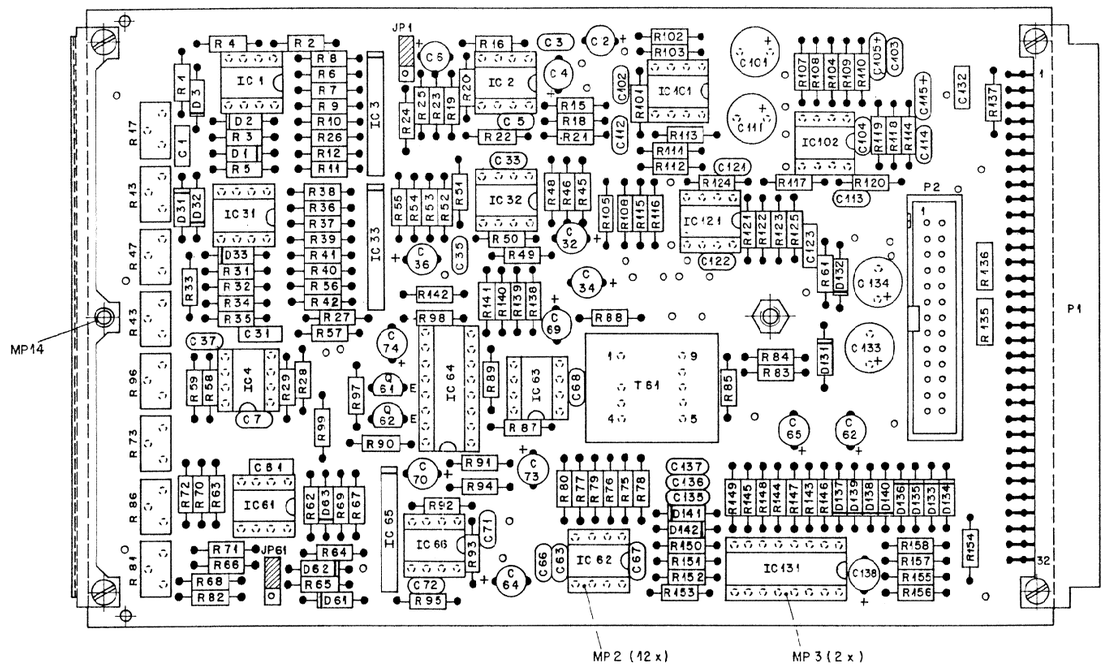


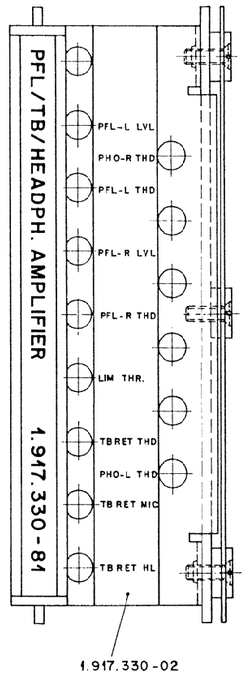


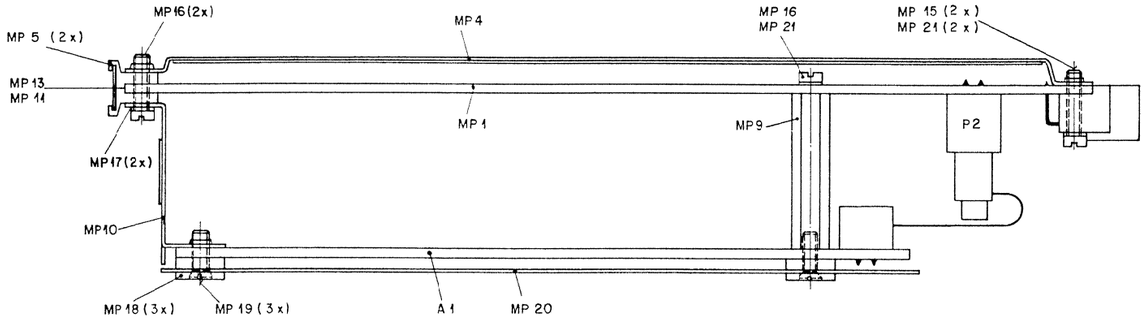
0	23.10.91	abb	. .	. .	. .	. .
						PAGE 1 OF 2
STUDER	PFL/TB/HEADPH. AMPLIFIER			SC	1.917.330-81	

0	23.10.91	abb	. .	. .	. .	. .
						PAGE 2 OF 2
STUDER	PFL/TB/HEADPH. AMPLIFIER				1.917.330-81	

PFL / Talkback Headphone Amplifier 1.917.330.81







Änderung					③
					②
					①
Ausgabe	3.7.91	A. Ball	if		⓪
	Datum	Gez.	Gepr.	Ges.	Index
Kopie für:					

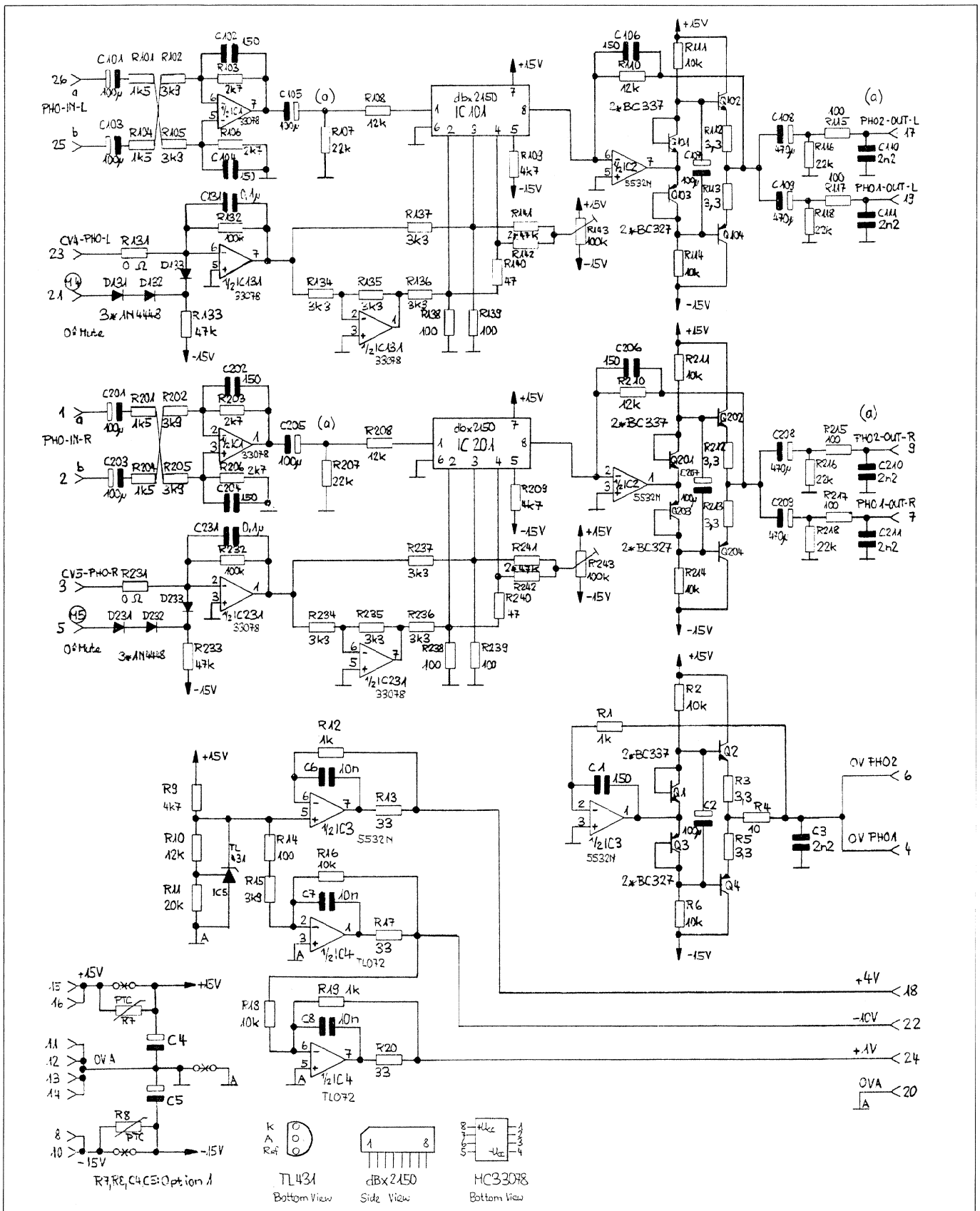
STUDER REGENSDORF ZÜRICH	Benennung: PFL/TB/HEADPH. AMPLIFIER ESE	Nummer: 1.917.330-81

Ad	..POS..	...REF.No...	DESCRIPTION.....	..MANUFACTURER
A.....1		1.917.331.00	SUBCARD FOR PFL/TB/HEADPH.	
C.....1		59.06.0104	0.1 uF PE, 10%, 63V	
C.....2		59.22.3101	100 uF EL, -20%, 10V	
C.....3		59.34.7151	150 pF CER, 10%	
C.....4		59.22.3101	100 uF EL, -20%, 10V	
C.....5		59.34.7151	150 pF CER, 10%	
C.....6		59.22.3101	100 uF EL, -20%, 10V	
C.....7		59.34.7151	150 pF CER, 10%	
C.....8		. . 0	not used	
C....30		. . 0	not used	
C....31		59.06.0104	0.1 uF PE, 10%, 63V	
C....32		59.22.3101	100 uF EL, -20%, 10V	
C....33		59.34.7151	150 pF CER, 10%	
C....34		59.22.3101	100 uF EL, -20%, 10V	
C....35		59.34.7151	150 pF CER, 10%	
C....36		59.22.3101	100 uF EL, -20%, 10V	
C....37		59.34.7151	150 pF CER, 10%	
C....38		. . 0	not used	
C....60		. . 0	not used	
C....61		59.34.7151	150 pF CER, 10%	
C....62		59.22.3101	100 uF EL, -20%, 10V	
C....63		59.34.7151	150 pF CER, 2%	
C....64		59.22.3101	100 uF EL, -20%, 10V	
C....65		59.22.3101	100 uF EL, -20%, 10V	
C....66		59.34.7151	150 pF CER, 2%	
C....67		59.34.2220	22 pF CER, 10%	
C....68		59.34.2220	22 pF CER, 10%	
C....69		59.22.3101	100 uF EL, -20%, 10V	
C....70		59.22.3101	100 uF EL, -20%, 10V	
C....71		59.34.7151	150 pF CER, 10%	
C....72		59.34.2220	22 pF CER, 10%	
C....73		59.22.3101	100 uF EL, -20%, 10V	
C....74		59.22.8109	1 uF EL, -20%, 16V	
C....75		. . 0	not used	
C...100		. . 0	not used	
C...101		59.22.3471	470 uF EL, -20%, 10V	
C...102		59.34.7151	150 pF CER, 2%	
C...103		59.34.5391	390 pF CER, 5%	
C...104		59.34.7151	150 pF CER, 2%	
C...105		59.26.1479	4.7 uF SAL,20%	
C...110		. . 0	not used	
C...111		59.22.3471	470 uF EL, -20%, 10V	
C...112		59.34.7151	150 pF CER, 2%	
C...113		59.34.5391	390 pF CER, 5%	
C...114		59.34.7151	150 pF CER, 2%	
C...115		59.26.1479	4.7 uF SAL,20%	
C...120		. . 0	not used	
C...121		59.34.7151	150 pF CER, 2%	
C...122		59.34.7151	150 pF CER, 2%	
C...123		59.32.4102	1 nF CER, 10%	
C...130		. . 0	not used	
C...131		. . 0	not used	
C...132		59.06.0104	0.1 uF PE, 10%, 63V	
C...133		59.22.5101	100 uF EL, -20%, 25V	
C...134		59.22.5101	100 uF EL, -20%, 25V	
C...135		59.34.4101	100 pF CER, 10%	
C...136		59.34.4101	100 pF CER, 10%	
C...137		59.34.4101	100 pF CER, 10%	
C...138		59.22.3101	100 uF EL, -20%, 10V	
D.....1		50.04.0125	1N4448	any
D.....2		50.04.0125	1N4448	any
D.....3		50.04.0125	1N4448	any
D....31		50.04.0125	1N4448	any
D....32		50.04.0125	1N4448	any
D....33		50.04.0125	1N4448	any
D....61		50.04.0125	1N4448	any
D....62		50.04.0125	1N4448	any
D....63		50.04.0125	1N4448	any
D...131		50.04.0122	1N4001	any
D...132		50.04.0122	1N4001	any
D...133		50.04.0125	1N4448	any
D...134		50.04.0125	1N4448	any
D...135		50.04.0125	1N4448	any
D...136		50.04.0125	1N4448	any
D...137		50.04.0125	1N4448	any
D...138		50.04.0125	1N4448	any
D...139		50.04.0125	1N4448	any
D...140		50.04.0125	1N4448	any
D...141		50.04.0125	1N4448	any
D...142		50.04.0125	1N4448	any
IC....1		50.09.0117	MC33078	Dual Op Amp
IC....2		50.09.0105	NE5532N	Dual Op Amp
IC....3		50.11.0140	dbx2150	VCA
IC....4		50.09.0117	MC33078	Dual Op Amp
IC...31		50.09.0117	MC33078	Dual Op Amp
IC...32		50.09.0105	NE5532N	Dual Op Amp
IC...33		50.11.0140	dbx2150	VCA
IC...61		50.09.0117	MC33078	Dual Op Amp
IC...62		50.09.0103	TL 071	Single FET-Op Amp
IC...63		50.09.0103	TL 071	Single FET-Op Amp
IC...64		50.07.0015	4053	Triple Analog Switch
IC...65		50.11.0140	dbx2150	VCA
IC...66		50.09.0103	TL 071	Single FET-Op Amp
IC..101		50.09.0105	NE5532N	Dual Op Amp
IC..102		50.09.0105	NE5532N	Dual Op Amp
IC..121		50.09.0105	NE5532N	Dual Op Amp
IC..131		50.07.0018	4094	Shift and store bus register
JP....1		. . 0	see MP 6 PFL Mono/Stereo	
JP...61		. . 0	see MP 7 TB-RET-Limiter: On/Off	
JS....1		54.01.0021	Jumper Jumper for JP 1	
JS...61		54.01.0021	Jumper Jumper for JP 61	
MP....1		1.917.330.12	1 pcs Print	St
MP....2		53.03.0165	12 pcs IC-Socket 8 pin	
MP....3		53.03.0168	2 pcs IC-Socket 16 pin	
MP....4		1.010.090.49	1 pcs Abschirmblech	St
MP....5		1.010.006.33	2 pcs Griffhaelften	St
MP....6		54.01.0020	3 pcs Stiftleiste see also JP1	
MP....7		54.01.0020	3 pcs Stiftleiste see alsoJP61	
MP....8		. . 0	not used	
MP....9		1.010.204.27	1 pcs Mutterbolzen M2.5*25	St
MP...10		1.917.142.01	1 pcs Halter	St
MP...11		1.917.330.01	1 pcs Bez. Streifen 6.3*91	St
MP...12		43.01.0108	1 pcs ESE-Warnschild	
MP...13		1.010.096.49	1 pcs Klarsichtschild	
MP...14		28.21.1380	1 pcs Rohrniete D2.25*6.5	
01 MP...14		28.21.1390	1 pcs Rohrniete D2.25*7.0	
MP...15		21.01.0281	2 pcs Z-Schr. ZN,M2.5*10	
MP...16		21.01.0280	3 pcs Z-Schr. ZN,M2.5*8	
MP...17		24.16.1025	2 pcs Rippenscheibe, D2.75/5	
MP...18		1.917.142.02	3 pcs Isolierhuelse	
MP...19		21.01.2280	3 pcs S-Schr. ZN,M2.5*8	
MP...20		1.917.142.03	1 pcs Isolation	
MP...21		24.16.1025	3 pcs Rippenscheibe, D2.75/5	
P.....1		54.11.2004	Euro, 2*32 contacts	
P.....2		54.14.2003	26 pin PCB Ribbon Connector	
Q....61		50.03.0515	BC557 PNP	
Q....62		50.03.0515	BC557 PNP	

Pin Location List
PFL / Talkback Headphone Amplifier 1.917.330.81

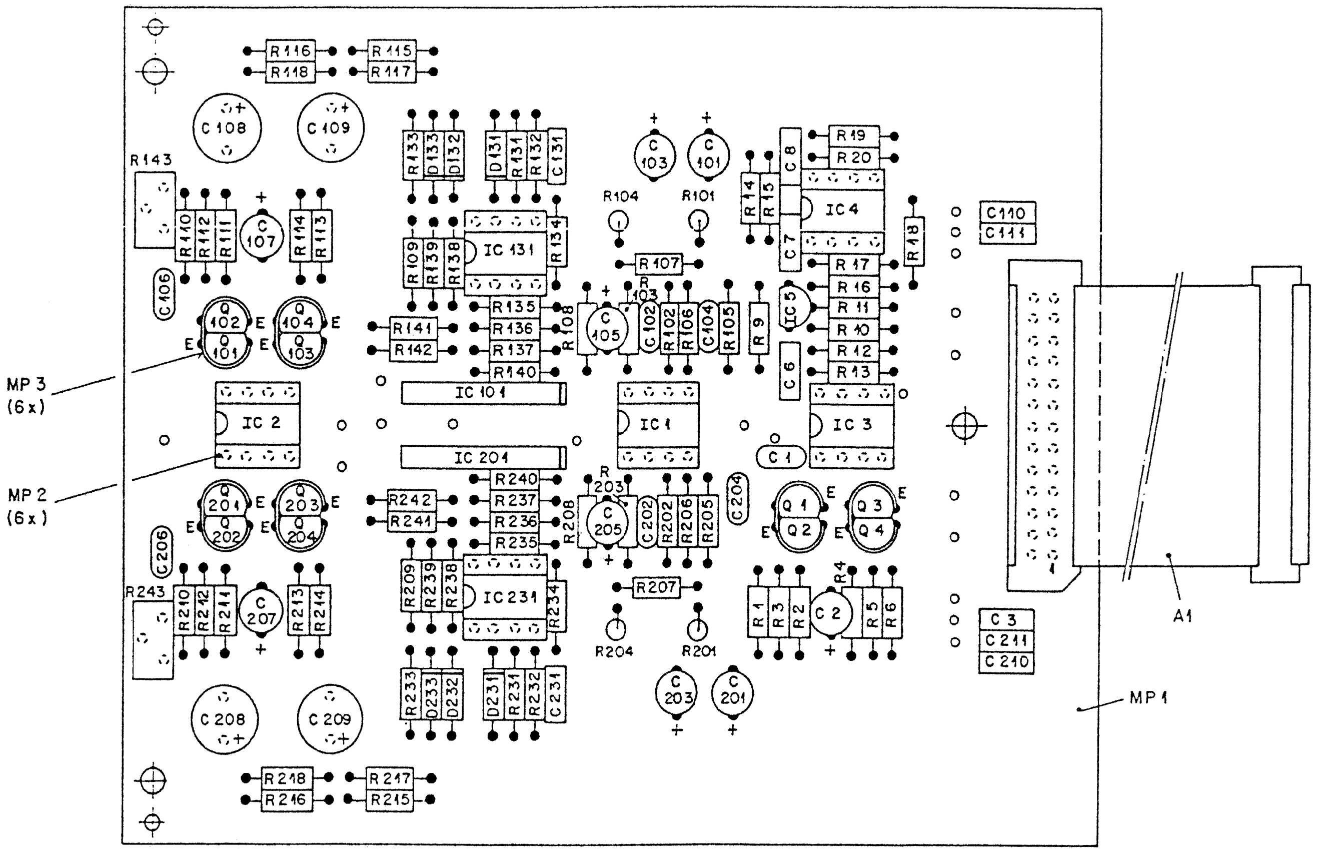
P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC		
P1	01A	MPX-IN-L	MULTIPLEX INPUT LEFT	O,AS		
P1	01B	0V-A MPX	GROUND AUDIO MPX	O		
P1	02A	MPX-IN-R	MULTIPLEX INPUT RIGHT	O,AS		
P1	02B	0V-A MPX	GROUND AUDIO MPX	O		
P1	03A	PFL-IN-L	PFL INPUT LEFT	O,AS		
P1	03B	0V PFL-L	GROUND AUDIO PFL LEFT	O		
P1	04A	PFL-IN-R	PFL INPUT RIGHT	O,AS		
P1	04B	0V PFL-R	GROUND AUDIO PFL RIGHT	O		
P1	05A	0V-A	GROUND AUDIO			
P1	05B	PFL-OUT-L	PFL OUTPUT LEFT	O,AS		
P1	06A	PFL-OUT-R	PFL OUTPUT RIGHT	O,AS		
P1	06B	MPX-OUT-L-a	MULTIPLEX OUTPUT LEFT a	O,S		
P1	07A	MPX-OUT-L-b	MULTIPLEX OUTPUT LEFT b	O,S		
P1	07B	MPX-OUT-R-a	MULTIPLEX OUTPUT RIGHT a	O,S		
P1	08A	MPX-OUT-R-b	MULTIPLEX OUTPUT RIGHT b	O,S		
P1	08B	MPX-OUT-M-a	MULTIPLEX OUTPUT MASTER a	O,S		
P1	09A	MPX-OUT-M-b	MULTIPLEX OUTPUT MASTER b	O,S		
P1	09B	0V-A	GROUND AUDIO			
P1	10A	-10V	CONTROL VOLTAGE VCA			
P1	10B	+1V	CONTROL VOLTAGE VCA			
P1	11A	+4V	CONTROL VOLTAGE VCA			
P1	11B	CV 1-PFL-L	CTRL.VOLTAGE VCA 1 PFL LEFT			
P1	12A	CV 2-PFL-R	CTRL.VOLTAGE VCA 2 PFL RIGHT			
P1	12B	CV 3-TB RET	CTRL.VOLTAGE VCA 3 TB RETURN			
P1	13A	CV 4-PHO-L	CTRL.VOLTAGE VCA 4 PHONE L			
P1	13B	CV 5-PHO-R	CTRL.VOLTAGE VCA 5 PHONE R			
P1	14	- 15.5V	- SUPPLY	B	X	X
P1	15	0V-A	GROUND AUDIO	B	X	X
P1	16	+ 15.5V	+ SUPPLY	B	X	X
P1	17A	PFL TO SPK-L	PFL TO SPEAKER LEFT	O,AS		
P1	17B	PFL TO SPK-R	PFL TO SPEAKER RIGHT	O,AS		
P1	18A	0V-PHO1	GROUND AUDIO PHONE 1	O		
P1	18B	PHO1-OUT-L	PHONE 1 OUTPUT LEFT	O,AS		
P1	19A	PHO1-OUT-R	PHONE 1 OUTPUT RIGHT	O,AS		
P1	19B	0V PHO2	GROUND AUDIO PHONE 2	O		
P1	20A	-	RES			
P1	20B	-	RES			
P1	21A	PHO2-OUT-L	PHONE 2 OUTPUT LEFT	O,AS		
P1	21B	PHO2-OUT-R	PHONE 2 OUTPUT RIGHT	O,AS		
P1	22A	PHO-IN-L-a	PHONE INPUT LEFT a	O,S		
P1	22B	PHO-IN-L-b	PHONE INPUT LEFT b	O,S		
P1	23A	PHO-IN-R-a	PHONE INPUT RIGHT a	O,S		
P1	23B	PHO-IN-R-b	PHONE INPUT RIGHT b	O,S		
P1	24	0V-A	GROUND AUDIO	B	X	X
P1	25A	TB RET MIC-a	TALKBACK RETURN MIC a	O,S		
P1	25B	TB RET MIC-b	TALKBACK RETURN MIC b	O,S		
P1	26A	TB RET LIN-a	TALKBACK RETURN LINE a	O,S		
P1	26B	TB RET LIN-b	TALKBACK RETURN LINE b	O,S		
P1	27A	TB RET HL-a	TALKBACK RETURN HIGH LEVEL a	O,S		
P1	27B	TB RET HL-b	TALKBACK RETURN HIGH LEVEL b	O,S		
P1	28	0V-L	GROUND SIGN (LOGIC)	B	X	X
P1	29A	DO 0	DATA OUT 0 (ENABLE)			
P1	29B	TSTB	TRANSMIT STROBE			
P1	30A	-	RES			
P1	30B	TXTH	TRANSMIT DATA THROUGH			
P1	31A	TXD	TRANSMIT DATA			
P1	31B	TCL	TRANSMIT CLOCK			
P1	32	+ 5.5V	+ SUPPLY	B	X	X

Subcard for PFL / Talkback Headphone 1.917.331.00



0 3.09.90 ab	1 4.12.90 ab	. .	. .	. .
				PAGE 1 OF 1
STUDER	SUBCARD FOR PFL/TB HEADPH.		SC	1.917.331.00

Subcard for PFL / Talkback Headphone 1.917.331.00



STUDER REGENSDORF ZÜRICH | Benennung: SUBCARD FOR PFL/TB HEADPH. ESE | Nummer: 1.917.331-00

Änderung/Ausgabe	Datum	Gez.	Gepr.	Ges.	Index
Änderung					3
Änderung					2
Änderung	17.9.90	JH	Vr	Vr	1
Ausgabe	2.11.89	A.Ho	Vr	al	0

Kopie für:

Ad	..POS..	...REF.No...	DESCRIPTION				MANUFACTURER
	A.....1	1.023.112.01		Flachkabel konf. 26-pol			
	C.....1	59.34.7151	150 pF	CER, 10%			
	C.....2	59.22.3101	100 uF	EL, -20%, 10V			
	C.....3	59.06.0222	2.2 nF	PE, 10%, 63V			
	C.....4		100 uF	EL, -20%, 25V	59.22.5101	Option 1	
	C.....5		100 uF	EL, -20%, 25V	59.22.5101	Option 1	
	C.....6	59.06.0103	10 nF	PE, 10%, 63V			
	C.....7	59.06.0103	10 nF	PE, 10%, 63V			
	C.....8	59.06.0103	10 nF	PE, 10%, 63V			
	C...101	59.22.3101	100 uF	EL, -20%, 10V			
	C...102	59.34.7151	150 pF	CER, 2%			
	C...103	59.22.3101	100 uF	EL, -20%, 10V			
	C...104	59.34.7151	150 pF	CER, 2%			
	C...105	59.22.3101	100 uF	EL, -20%, 10V			
	C...106	59.34.7151	150 pF	CER, 10%			
	C...107	59.22.3101	100 uF	EL, -20%, 10V			
	C...108	59.22.3471	470 uF	EL, -20%, 10V			
	C...109	59.22.3471	470 uF	EL, -20%, 10V			
	C...110	59.06.0222	2.2 nF	PE, 10%, 63V			
	C...111	59.06.0222	2.2 nF	PE, 10%, 63V			
	C...131	59.06.0104	0.1 uF	PE, 10%, 63V			
	C...201	59.22.3101	100 uF	EL, -20%, 10V			
	C...202	59.34.7151	150 pF	CER, 2%			
	C...203	59.22.3101	100 uF	EL, -20%, 10V			
	C...204	59.34.7151	150 pF	CER, 2%			
	C...205	59.22.3101	100 uF	EL, -20%, 10V			
	C...206	59.34.7151	150 pF	CER, 10%			
	C...207	59.22.3101	100 uF	EL, -20%, 10V			
	C...208	59.22.3471	470 uF	EL, -20%, 10V			
	C...209	59.22.3471	470 uF	EL, -20%, 10V			
	C...210	59.06.0222	2.2 nF	PE, 10%, 63V			
	C...211	59.06.0222	2.2 nF	PE, 10%, 63V			
	C...231	59.06.0104	0.1 uF	PE, 10%, 63V			
	D...131	50.04.0125	1N4448				any
	D...132	50.04.0125	1N4448				any
	D...133	50.04.0125	1N4448				any
	D...231	50.04.0125	1N4448				any
	D...232	50.04.0125	1N4448				any
	D...233	50.04.0125	1N4448				any
	IC....1	50.09.0117	MC33078	Dual Op Amp			
	IC....2	50.09.0117	MC33078	Dual Op Amp			
01	IC....2	50.09.0105	NE5532N	Dual Op Amp			
	IC....3	50.09.0117	MC33078	Dual Op Amp			
01	IC....3	50.09.0105	NE5532N	Dual Op Amp			
	IC....4	50.09.0117	MC33078	Dual Op Amp			
01	IC....4	50.09.0101	TL 072	Dual FET-Op Amp			
	IC....5	50.10.0106	TL431C	Shunt Regulator			
	IC..101	50.11.0140	dbx2150	VCA			
	IC..131	50.09.0117	MC33078	Dual Op Amp			
	IC..201	50.11.0140	dbx2150	VCA			
	IC..231	50.09.0117	MC33078	Dual Op Amp			
	MP....1	1.917.331.11	1 pcs	Print			
	MP....2	53.03.0166	6 pcs	IC-Socket 8 pin			
	MP....3	50.20.2001	6 pcs	Transistor-Clip			
	Q.....1	50.03.0516	BC 337	NPN			any
	Q.....2	50.03.0516	BC 337	NPN			any
	Q.....3	50.03.0625	BC 327	PNP			any
	Q.....4	50.03.0625	BC 327	PNP			any
	Q...101	50.03.0516	BC 337	NPN			any
	Q...102	50.03.0516	BC 337	NPN			any
	Q...103	50.03.0625	BC 327	PNP			any
	Q...104	50.03.0625	BC 327	PNP			any
	Q...201	50.03.0516	BC 337	NPN			any
	Q...202	50.03.0516	BC 337	NPN			any
	Q...203	50.03.0625	BC 327	PNP			any
	Q...204	50.03.0625	BC 327	PNP			any
	R.....1	57.11.3102	1 kOhm	10 %			
	R.....2	57.11.3103	10 kOhm	10 %			
	R.....3	57.11.3339	3.3 Ohm	10 %			
	R.....4	57.11.3100	10 Ohm	10 %			
	R.....5	57.11.3339	3.3 Ohm	10 %			
	R.....6	57.11.3103	10 kOhm	10 %			
	R.....7		0.5 Ohm	PTC, 0.5 A	57.92.7013	Option 1	
	R.....8		0.5 Ohm	PTC, 0.5 A	57.92.7013	Option 1	
	R.....9	57.11.3472	4.7 kOhm	2 %			
	R....10	57.11.3123	12 kOhm	2 %			
	R....11	57.11.3203	20 kOhm	2 %			
	R....12	57.11.3102	1 kOhm	2 %			
	R....13	57.11.3330	33 Ohm	10 %			
	R....14	57.11.3101	100 Ohm	2 %			
	R....15	57.11.3392	3.9 kOhm	2 %			
	R....16	57.11.3103	10 kOhm	2 %			
	R....17	57.11.3330	33 Ohm	10 %			
	R....18	57.11.3103	10 kOhm	2 %			
	R....19	57.11.3102	1 kOhm	2 %			
	R....20	57.11.3330	33 Ohm	10 %			
	R...101	57.11.3152	1.5 kOhm	2 %			
	R...102	57.11.3392	3.9 kOhm	2 %			
	R...103	57.11.3272	2.7 kOhm	2 %			
	R...104	57.11.3152	1.5 kOhm	2 %			
	R...105	57.11.3392	3.9 kOhm	2 %			
	R...106	57.11.3272	2.7 kOhm	2 %			
	R...107	57.11.3223	22 kOhm	10 %			
	R...108	57.11.3123	12 kOhm	2 %			
	R...109	57.11.3472	4.7 kOhm	10 %			
	R...110	57.11.3123	12 kOhm	2 %			
	R...111	57.11.3103	10 kOhm	10 %			
	R...112	57.11.3339	3.3 Ohm	10 %			
	R...113	57.11.3339	3.3 Ohm	10 %			
	R...114	57.11.3103	10 kOhm	10 %			
	R...115	57.11.3101	100 Ohm	10 %			
	R...116	57.11.3223	22 kOhm	10 %			
	R...117	57.11.3101	100 Ohm	10 %			
	R...118	57.11.3223	22 kOhm	10 %			
	R...131	57.11.3000	0 Ohm	Wiring Bridge			
	R...132	57.11.3104	100 kOhm	1 %			
	R...133	57.11.3473	47 kOhm	10 %			
	R...134	57.11.3332	3.3 kOhm	1 %			
	R...135	57.11.3332	3.3 kOhm	1 %			
	R...136	57.11.3332	3.3 kOhm	1 %			
	R...137	57.11.3332	3.3 kOhm	1 %			
	R...138	57.11.3101	100 Ohm	1 %			
	R...139	57.11.3101	100 Ohm	1 %			
	R...140	57.11.3470	47 Ohm	10 %			
	R...141	57.11.3473	47 kOhm	10 %			
	R...142	57.11.3473	47 kOhm	10 %			
	R...143	58.01.9104	100 kOhm	10 %, variable resistor			
	R...201	57.11.3152	1.5 kOhm	2 %			
	R...202	57.11.3392	3.9 kOhm	2 %			
	R...203	57.11.3272	2.7 kOhm	2 %			
	R...204	57.11.3152	1.5 kOhm	2 %			
	R...205	57.11.3392	3.9 kOhm	2 %			
	R...206	57.11.3272	2.7 kOhm	2 %			
	R...207	57.11.3223	22 kOhm	10 %			
	R...208	57.11.3123	12 kOhm	2 %			
	R...209	57.11.3472	4.7 kOhm	10 %			
	R...210	57.11.3123	12 kOhm	2 %			
	R...211	57.11.3103	10 kOhm	10 %			
	R...212	57.11.3339	3.3 Ohm	10 %			
	R...213	57.11.3339	3.3 Ohm	10 %			
	R...214	57.11.3103	10 kOhm	10 %			
	R...215	57.11.3101	100 Ohm	10 %			
	R...216	57.11.3223	22 kOhm	10 %			
	R...217	57.11.3101	100 Ohm	10 %			
	R...218	57.11.3223	22 kOhm	10 %			
	R...231	57.11.3000	0 Ohm	Wiring Bridge			
	R...232	57.11.3104	100 kOhm	1 %			
	R...233	57.11.3473	47 kOhm	10 %			
	R...234	57.11.3332	3.3 kOhm	1 %			
	R...235	57.11.3332	3.3 kOhm	1 %			
	R...236	57.11.3332	3.3 kOhm	1 %			
	R...237	57.11.3332	3.3 kOhm	1 %			
	R...238	57.11.3101	100 Ohm	1 %			
	R...239	57.11.3101	100 Ohm	1 %			
	R...240	57.11.3470	47 Ohm	10 %			
	R...241	57.11.3473	47 kOhm	10 %			
	R...242	57.11.3473	47 kOhm	10 %			
	R...243	58.01.9104	100 kOhm	10 %, variable resistor			

(01) 90/12/04 Better output performance. IC 2,3,4 changed

Option 1 : for standalone headphone-amplifier

Global or both: Pos No 1...
Left channel : Pos No 101...
Right channel : Pos No 201...

CER=Ceramic, EL=Electrolytic, PE=Polyester

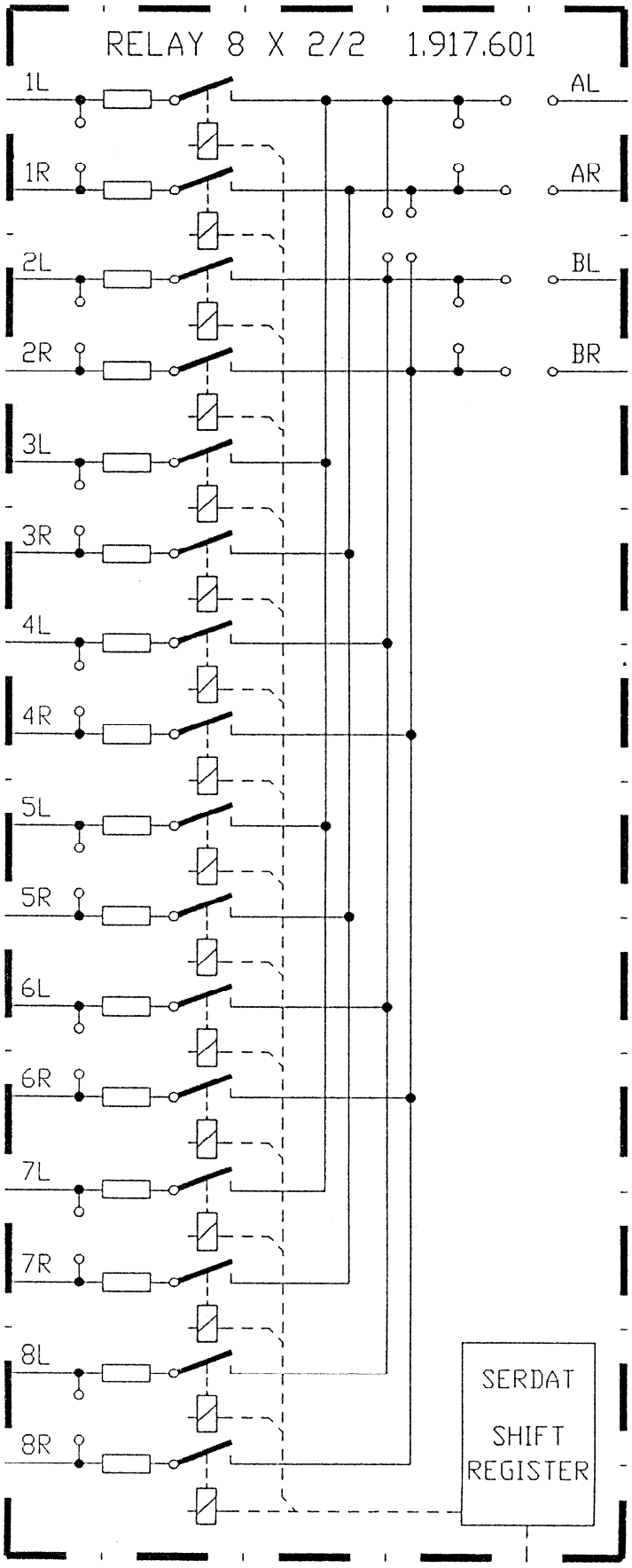
MANUFACTURER: TI=Texas Instrument, St=Studer

1.917.331.00 SUBCARD FOR PFL/TB/HEADPH. AB 89/09/2900

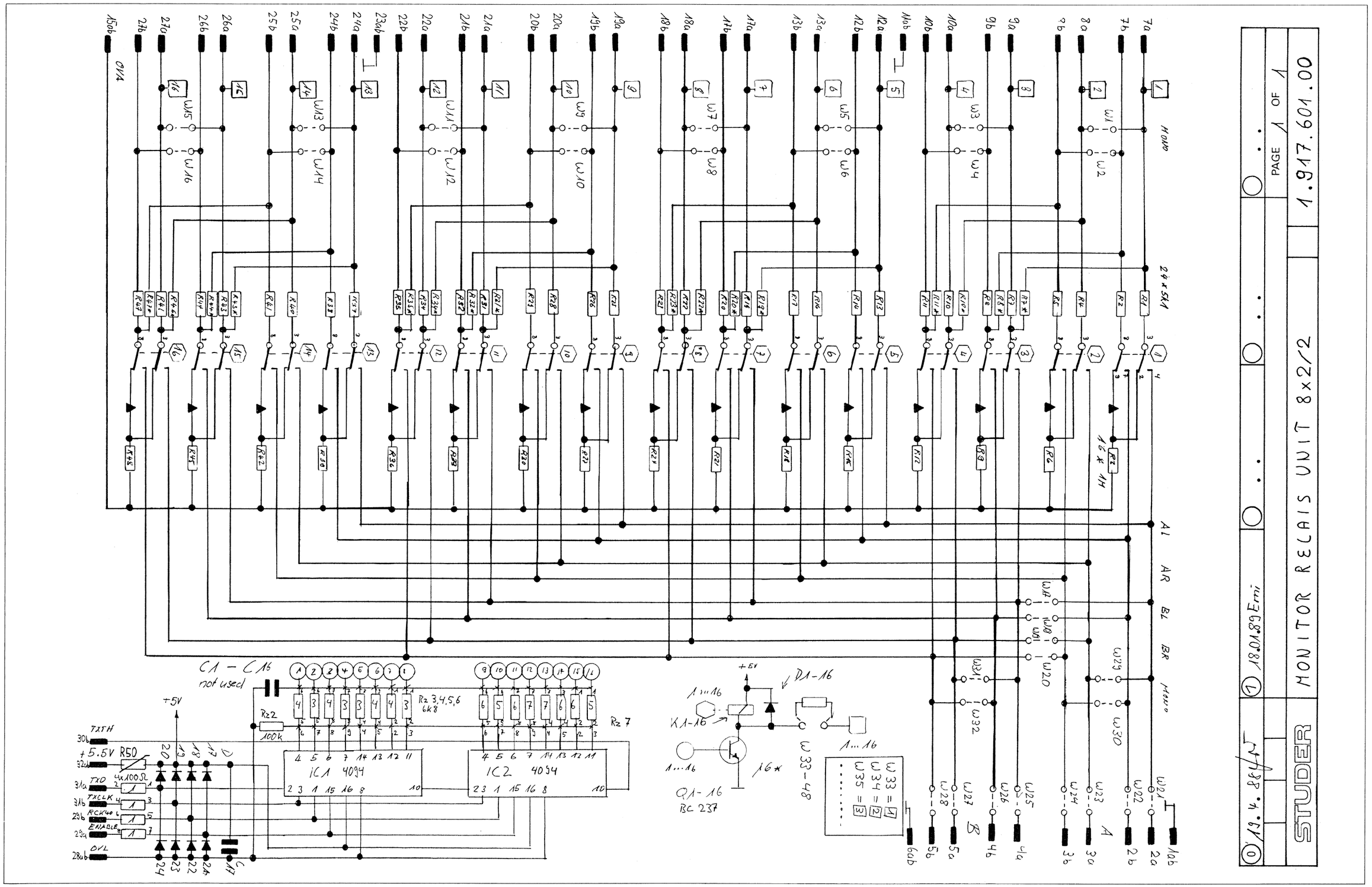
1.917.331.00 SUBCARD FOR PFL/TB/HEADPH. AB 90/12/0401

END

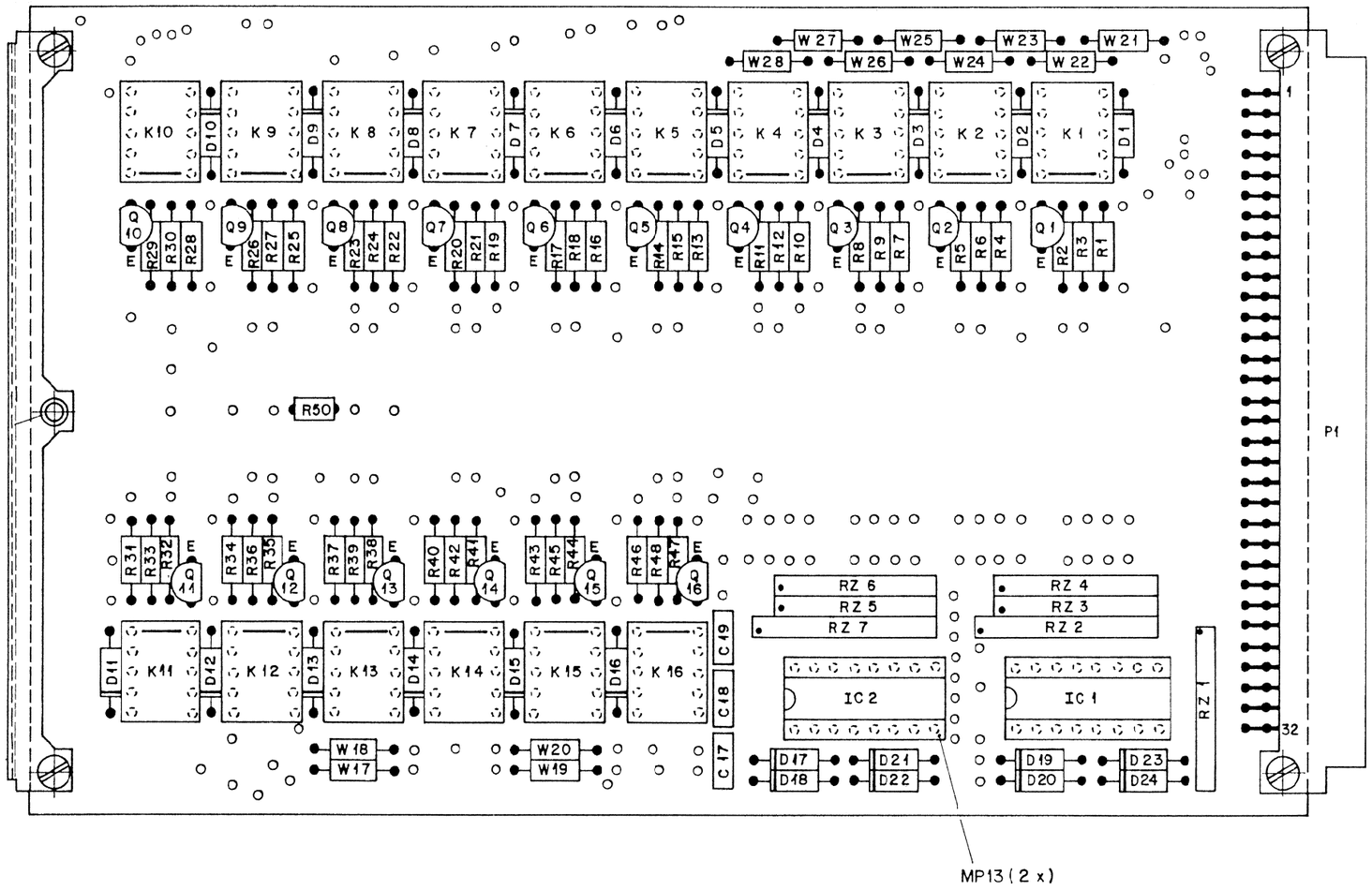
Monitor Relays Unit 8x2/2 1.917.601.00



Monitor Relays Unit 8x2/2 1.917.601.00



Monitor Relays Unit 8x2/2 1.917.601.00



Änderung					
Ausgabe	1. 11. 89				0
	Datum	Gez.	Gep.	Ges.	Index

Kopie für:

STUDER REGENSDORF ZÜRICH	MONITOR RELAYS 8 x 2 / 2 ESE	Nummer 1.917.601-00

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 17	59.06.5103		10n	PETP, 5%, 63V
0	C 18	59.06.5103		10n	PETP, 5%, 63V
0	C 19	59.06.5103		10n	PETP, 5%, 63V
0	D 1	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 2	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 3	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 4	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 5	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 6	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 10	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 12	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 13	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 14	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 15	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 16	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 17	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 18	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 19	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 20	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 21	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 22	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 23	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 24	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	F 1	not used		630mA	T 5*20 L 250V
0	IC 1	50.07.0018		4094	IC .. 4094 .. ,A
0	IC 2	50.07.0018		4094	IC .. 4094 .. ,A
0	K 1	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 2	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 3	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 4	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 5	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 6	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 7	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 8	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 9	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 10	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 11	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 12	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 13	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 14	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 15	56.04.0195		2u	6V, 125V/2A, AG/AU
0	K 16	56.04.0195		2u	6V, 125V/2A, AG/AU
0	MP 1	1.917.601.11			MONITOR RELAYS 8*2/2 PCB
0	MP 2	1.917.601.01			BEZ.STREIFEN 6.3 * 91
0	MP 3	1.010.006.33 2 pcs		Handle	GRIFFHAELFTE
0	MP 4	1.010.090.49		Screen	ABSCHIRMUNG KOMPLETT
0	MP 5	1.010.096.49			KLARSICHTSCHILD
0	MP 6	28.21.1380			ROHRNIETE, D2.25* 6.5
0	MP 7	21.01.0280 2 pcs			Z - SCHR. , ZN , M2.5 * 8
0	MP 8	21.01.0281 2 pcs			Z - SCHR. , ZN , M2.5 * 10
0	MP 9	24.16.1025 4 pcs			RIPPENSCHEIBE D 2 7/ 5
0	MP 10	43.01.0108		Label	ESE-WARNSCHILD
0	P 1	54.11.2004		64-P	P EU-B 2 * 32
0	Q 1	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 2	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 3	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 4	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 5	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 6	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 7	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 8	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 9	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 10	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 11	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 12	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 13	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 14	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 15	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,
0	Q 16	50.03.0436		BC237B	BC 237 B, 547 B, 550 B,

Monitor Relays Unit 8x2/2 1.917.601.00

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 1	57.11.3512		5k1	MF, 1%, 0207
0	R 2	57.11.3512		5k1	MF, 1%, 0207
0	R 3	57.11.3105		1M0	MF, 1%, 0207
0	R 4	57.11.3512		5k1	MF, 1%, 0207
0	R 5	57.11.3512		5k1	MF, 1%, 0207
0	R 6	57.11.3105		1M0	MF, 1%, 0207
0	R 7	57.11.3512		5k1	MF, 1%, 0207
0	R 8	57.11.3512		5k1	MF, 1%, 0207
0	R 9	57.11.3105		1M0	MF, 1%, 0207
0	R 10	57.11.3512		5k1	MF, 1%, 0207
0	R 11	57.11.3512		5k1	MF, 1%, 0207
0	R 12	57.11.3105		1M0	MF, 1%, 0207
0	R 13	57.11.3512		5k1	MF, 1%, 0207
0	R 14	57.11.3512		5k1	MF, 1%, 0207
0	R 15	57.11.3105		1M0	MF, 1%, 0207
0	R 16	57.11.3512		5k1	MF, 1%, 0207
0	R 17	57.11.3512		5k1	MF, 1%, 0207
0	R 18	57.11.3105		1M0	MF, 1%, 0207
0	R 19	57.11.3512		5k1	MF, 1%, 0207
0	R 20	57.11.3512		5k1	MF, 1%, 0207
0	R 21	57.11.3105		1M0	MF, 1%, 0207
0	R 22	57.11.3512		5k1	MF, 1%, 0207
0	R 23	57.11.3512		5k1	MF, 1%, 0207
0	R 24	57.11.3105		1M0	MF, 1%, 0207
0	R 25	57.11.3512		5k1	MF, 1%, 0207
0	R 26	57.11.3512		5k1	MF, 1%, 0207
0	R 27	57.11.3105		1M0	MF, 1%, 0207
0	R 28	57.11.3512		5k1	MF, 1%, 0207
0	R 29	57.11.3512		5k1	MF, 1%, 0207
0	R 30	57.11.3105		1M0	MF, 1%, 0207
0	R 31	57.11.3512		5k1	MF, 1%, 0207
0	R 32	57.11.3512		5k1	MF, 1%, 0207
0	R 33	57.11.3105		1M0	MF, 1%, 0207
0	R 34	57.11.3512		5k1	MF, 1%, 0207
0	R 35	57.11.3512		5k1	MF, 1%, 0207
0	R 36	57.11.3105		1M0	MF, 1%, 0207
0	R 37	57.11.3512		5k1	MF, 1%, 0207
0	R 38	57.11.3512		5k1	MF, 1%, 0207
0	R 39	57.11.3105		1M0	MF, 1%, 0207
0	R 40	57.11.3512		5k1	MF, 1%, 0207
0	R 41	57.11.3512		5k1	MF, 1%, 0207
0	R 42	57.11.3105		1M0	MF, 1%, 0207
0	R 43	57.11.3512		5k1	MF, 1%, 0207
0	R 44	57.11.3512		5k1	MF, 1%, 0207
0	R 45	57.11.3105		1M0	MF, 1%, 0207
0	R 46	57.11.3512		5k1	MF, 1%, 0207
0	R 47	57.11.3512		5k1	MF, 1%, 0207
0	R 48	57.11.3105		1M0	MF, 1%, 0207
0	R 50	57.92.7014		0.65A	POLY- PTC, 60V
0	RZ 1	57.88.2101		R 4*100R	RZ 4 * 100 , 2%, SIP 8
0	RZ 2	57.88.4104		100k	RZ 8 * 100 K, 2%, SIP 9
0	RZ 3	57.88.2682		R 4*6k8	RZ 4 * 6.8 K, 2%, SIP 8
0	RZ 4	57.88.2682		R 4*6k8	RZ 4 * 6.8 K, 2%, SIP 8
0	RZ 5	57.88.2682		R 4*6k8	RZ 4 * 6.8 K, 2%, SIP 8
0	RZ 6	57.88.2682		R 4*6k8	RZ 4 * 6.8 K, 2%, SIP 8
0	RZ 7	57.88.4104		100k	RZ 8 * 100 K, 2%, SIP 9
0	W 1	not used		0R0	MF, 0207
0	W 2	not used		0R0	MF, 0207
0	W 3	not used		0R0	MF, 0207
0	W 4	not used		0R0	MF, 0207
0	W 5	not used		0R0	MF, 0207
0	W 6	not used		0R0	MF, 0207
0	W 7	not used		0R0	MF, 0207
0	W 8	not used		0R0	MF, 0207
0	W 9	not used		0R0	MF, 0207
0	W 10	not used		0R0	MF, 0207
0	W 11	not used		0R0	MF, 0207
0	W 12	not used		0R0	MF, 0207
0	W 13	not used		0R0	MF, 0207
0	W 14	not used		0R0	MF, 0207
0	W 15	not used		0R0	MF, 0207
0	W 16	not used		0R0	MF, 0207
0	W 17	not used		0R0	MF, 0207
0	W 18	not used		0R0	MF, 0207
0	W 19	not used		0R0	MF, 0207
0	W 20	not used		0R0	MF, 0207
0	W 21	57.11.3000		0R0	MF, 0207
0	W 22	57.11.3000		0R0	MF, 0207
0	W 23	57.11.3000		0R0	MF, 0207
0	W 24	57.11.3000		0R0	MF, 0207
0	W 25	57.11.3000		0R0	MF, 0207
0	W 26	57.11.3000		0R0	MF, 0207
0	W 27	57.11.3000		0R0	MF, 0207
0	W 28	57.11.3000		0R0	MF, 0207
0	W 29	not used		0R0	MF, 0207
0	W 30	not used		0R0	MF, 0207
0	W 31	not used		0R0	MF, 0207
0	W 32	not used		0R0	MF, 0207
0	W 33	not used		0R0	MF, 0207
0	W 34	not used		0R0	MF, 0207
0	W 35	not used		0R0	MF, 0207
0	W 36	not used		0R0	MF, 0207
0	W 37	not used		0R0	MF, 0207
0	W 38	not used		0R0	MF, 0207
0	W 39	not used		0R0	MF, 0207
0	W 40	not used		0R0	MF, 0207
0	W 41	not used		0R0	MF, 0207
0	W 42	not used		0R0	MF, 0207
0	W 43	not used		0R0	MF, 0207
0	W 44	not used		0R0	MF, 0207
0	W 45	not used		0R0	MF, 0207
0	W 46	not used		0R0	MF, 0207
0	W 47	not used		0R0	MF, 0207
0	W 48	not used		0R0	MF, 0207
0	XIC 13	53.03.0168	2 pcs	16p	DIL 0.3", löt, gerade

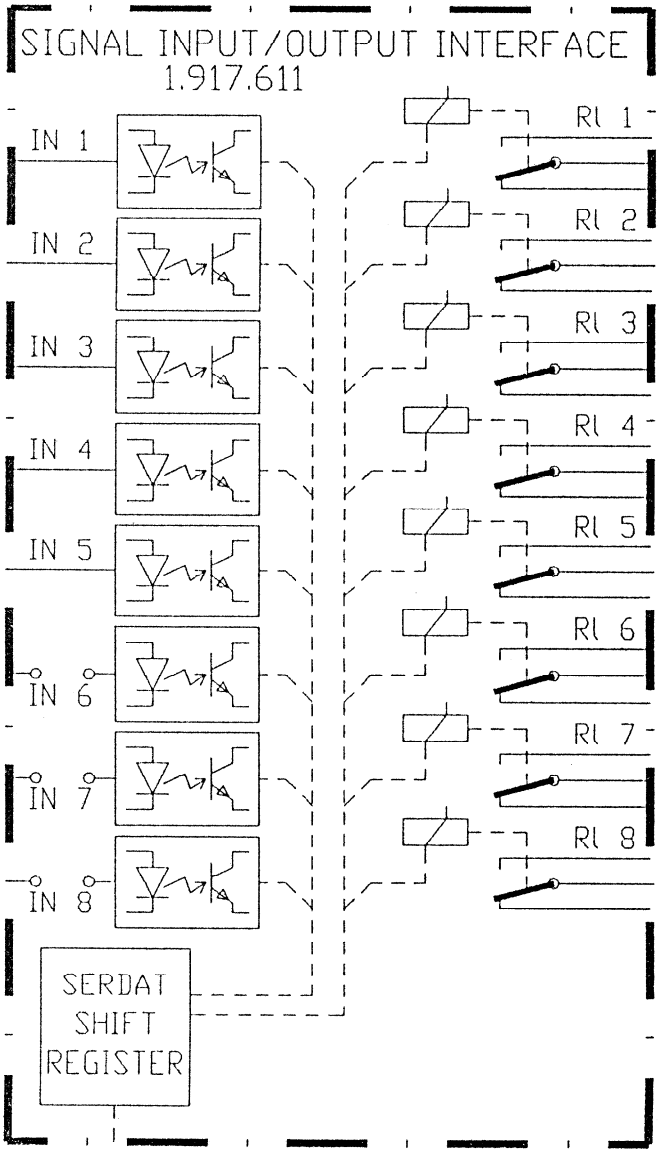
End of List

Comments

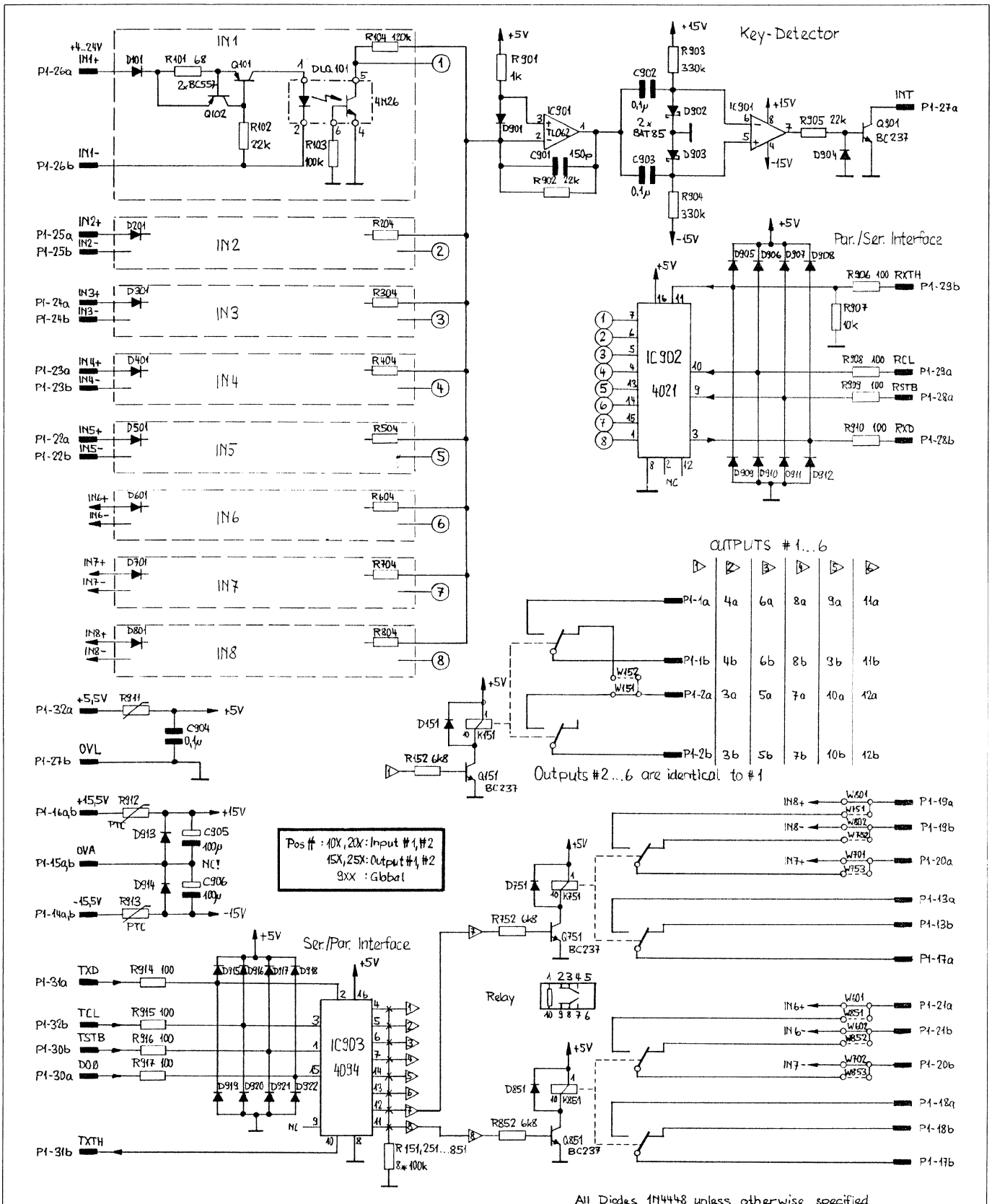
Pin Location List
Monitor Relays Unit 8x2/2 1.917.601.00

P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC		
P1	01	0V-A	GROUND AUDIO		X	X
P1	02A	BUS A-L-a	OUTPUT A LEFT a ; 0-OHM BUS	B,S		
P1	02B	BUS A-L-b	OUTPUT A LEFT b ; 0-OHM BUS	B,S		
P1	03A	BUS A-R-a	OUTPUT A RIGHT a ; 0-OHM BUS	B,S		
P1	03B	BUS A-R-b	OUTPUT A RIGHT b ; 0-OHM BUS	B,S		
P1	04A	BUS B-L-a	OUTPUT B LEFT a ; 0-OHM BUS	B,S		
P1	04B	BUS B-L-b	OUTPUT B LEFT b ; 0-OHM BUS	B,S		
P1	05A	BUS B-R-a	OUTPUT B RIGHT a ; 0-OHM BUS	B,S		
P1	05B	BUS B-R-b	OUTPUT B RIGHT b ; 0-OHM BUS	B,S		
P1	06	0V-A	GROUND AUDIO		X	X
P1	07A	IN 1-L-a	INPUT 1 LEFT a ; RELAIS 1	O,S		
P1	07B	IN 1-L-b	INPUT 1 LEFT b ; RELAIS 1	O,S		
P1	08A	IN 1-R-a	INPUT 1 RIGHT a ; RELAIS 2	O,S		
P1	08B	IN 1-R-b	INPUT 1 RIGHT b ; RELAIS 2	O,S		
P1	09A	IN 2-L-a	INPUT 2 LEFT a ; RELAIS 3	O,S		
P1	09B	IN 2-L-b	INPUT 2 LEFT b ; RELAIS 3	O,S		
P1	10A	IN 2-R-a	INPUT 2 RIGHT a ; RELAIS 4	O,S		
P1	10B	IN 2-R-b	INPUT 2 RIGHT b ; RELAIS 4	O,S		
P1	11	0V-A	GROUND AUDIO		X	X
P1	12A	IN 3-L-a	INPUT 3 LEFT a ; RELAIS 5	O,S		
P1	12B	IN 3-L-b	INPUT 3 LEFT b ; RELAIS 5	O,S		
P1	13A	IN 3-R-a	INPUT 3 RIGHT a ; RELAIS 6	O,S		
P1	13B	IN 3-R-b	INPUT 3 RIGHT b ; RELAIS 6	O,S		
P1	14	- 15.5V	- SUPPLY	B	X	X
P1	15	0V-A	GROUND AUDIO	B	X	X
P1	16	+ 15.5V	+ SUPPLY	B	X	X
P1	17A	IN 4-L-a	INPUT 4 LEFT a ; RELAIS 7	O,S		
P1	17B	IN 4-L-b	INPUT 4 LEFT b ; RELAIS 7	O,S		
P1	18A	IN 4-R-a	INPUT 4 RIGHT a ; RELAIS 8	O,S		
P1	18B	IN 4-R-b	INPUT 4 RIGHT b ; RELAIS 8	O,S		
P1	19A	IN 5-L-a	INPUT 5 LEFT a ; RELAIS 9	O,S		
P1	19B	IN 5-L-b	INPUT 5 LEFT b ; RELASI 9	O,S		
P1	20A	IN 5-R-a	INPUT 5 RIGHT a ; RELAIS 10	O,S		
P1	20B	IN 5-R-b	INPUT 5 RIGHT b ; RELAIS 10	O,S		
P1	21A	IN 6-L-a	INPUT 6 LEFT a ; RELAIS 11	O,S		
P1	21B	IN 6-L-b	INPUT 6 LEFT b ; RELASI 11	O,S		
P1	22A	IN 6-R-a	INPUT 6 RIGHT a ; RELAIS 12	O,S		
P1	22B	IN 6-R-b	INPUT 6 RIGHT b ; RELAIS 12	O,S		
P1	23	0V-A	GROUND AUDIO		X	X
P1	24A	IN 7-L-a	INPUT 7 LEFT a ; RELAIS 13	O,S		
P1	24B	IN 7-L-b	INPUT 7 LEFT b ; RELAIS 13	O,S		
P1	25A	IN 7-R-a	INPUT 7 RIGHT a ; RELAIS 14	O,S		
P1	25B	IN 7-R-b	INPUT 7 RIGHT b ; RELAIS 14	O,S		
P1	26A	IN 8-L-a	INPUT 8 LEFT a ; RELAIS 15	O,S		
P1	26B	IN 8-L-b	INPUT 8 LEFT b ; RELAIS 15	O,S		
P1	27A	IN 8-R-a	INPUT 8 RIGHT a ; RELAIS 16	O,S		
P1	27B	IN 8-R-b	INPUT 8 RIGHT b ; RELAIS 16	O,S		
P1	28	0V-L	GROUND SIGN (LOGIC)	B	X	X
P1	29A	DO 0	DATA OUT 0 (ENABLE)			
P1	29B	TSTB 5	TRANSMIT STROBE 5			
P1	30A	-	RES			
P1	30B	TXTH	TRANSMIT DATA THROUGH			
P1	31A	TXD	TRANSMIT DATA			
P1	31B	TCL	TRANSMIT CLOCK			
P1	32	+ 5.5V	+ SUPPLY	B	X	X

Signal Input / Output Interface 1.917.611.00

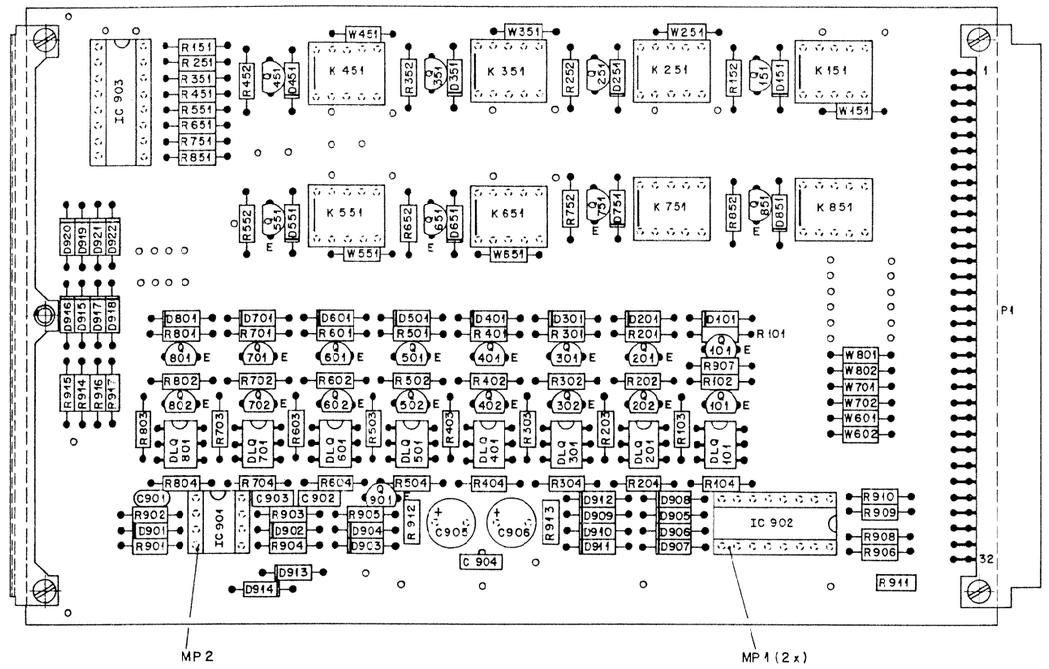


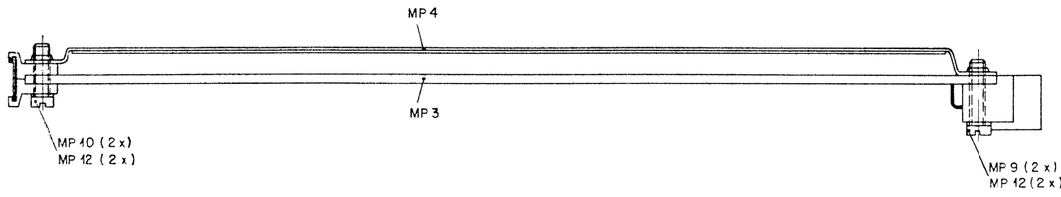
Signal Input / Output Interface 1.917.611.00



0 3.09.90 ab				
				PAGE 1 OF 1
STUDER	SIGNAL INPUT/OUTPUT INTERFACE		SC	1.917.611-00

Signal Input / Output Interface 1.917.611.00





Änderung					③
					②
					①
Ausgabe	1.11.89				⓪
Datum	Gez	Gepr	Ges	Index	
Kopie für					

STUDER REGENSDORF ZÜRICH — Benennung: SIGNAL I/O INTERFACE ESE — Nummer: 1.917.611-00

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	C...901	59.34.2151	150 pF CER, 10%	
	C...902	59.06.0104	100 nF PE, 10%	
	C...903	59.06.0104	100 nF PE, 10%	
	C...904	59.06.0104	100 nF PE, 10%	
	C...905	59.22.5101	100 uF EL, -20%, 25V	
	C...906	59.22.5101	100 uF EL, -20%, 25V	
	D...101	50.04.0125	1N4448	any
	D...151	50.04.0125	1N4448	any
	D...201	50.04.0125	1N4448	any
	D...251	50.04.0125	1N4448	any
	D...301	50.04.0125	1N4448	any
	D...351	50.04.0125	1N4448	any
	D...401	50.04.0125	1N4448	any
	D...451	50.04.0125	1N4448	any

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	D...501	50.04.0125	1N4448	any
	D...551	50.04.0125	1N4448	any
	D...601	50.04.0125	1N4448	any
	D...651	50.04.0125	1N4448	any
	D...701	50.04.0125	1N4448	any
	D...751	50.04.0125	1N4448	any
	D...801	50.04.0125	1N4448	any
	D...851	50.04.0125	1N4448	any
	D...901	50.04.0125	1N4448	any
	D...902	50.04.0127	BAT85 schottky	any
	D...903	50.04.0127	BAT85 schottky	any
	D...904	50.04.0125	1N4448	any
	D...905	50.04.0125	1N4448	any
	D...906	50.04.0125	1N4448	any
	D...907	50.04.0125	1N4448	any
	D...908	50.04.0125	1N4448	any
	D...909	50.04.0125	1N4448	any
	D...910	50.04.0125	1N4448	any
	D...911	50.04.0125	1N4448	any
	D...912	50.04.0125	1N4448	any
	D...913	50.04.0125	1N4448	any
	D...914	50.04.0125	1N4448	any
	D...915	50.04.0125	1N4448	any
	D...916	50.04.0125	1N4448	any
	D...917	50.04.0125	1N4448	any
	D...918	50.04.0125	1N4448	any
	D...919	50.04.0125	1N4448	any
	D...920	50.04.0125	1N4448	any
	D...921	50.04.0125	1N4448	any
	D...922	50.04.0125	1N4448	any

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	DLQ.101	50.99.0126	4N26 Opto-Coupler	
	DLQ.201	50.99.0126	4N26 Opto-Coupler	
	DLQ.301	50.99.0126	4N26 Opto-Coupler	
	DLQ.401	50.99.0126	4N26 Opto-Coupler	
	DLQ.501	50.99.0126	4N26 Opto-Coupler	
	DLQ.601	50.99.0126	4N26 Opto-Coupler	
	DLQ.701	50.99.0126	4N26 Opto-Coupler	
	DLQ.801	50.99.0126	4N26 Opto-Coupler	
	IC..901	50.09.0119	TL062 Dual Op Amp	
	IC..902	50.07.1021	4021 Shift register PI/SO	
	IC..903	50.07.0018	4094 Shift and store bus register	
	K...151	56.04.0195	SDS Relais, Type TQ2-6V	
	K...251	56.04.0195	SDS Relais, Type TQ2-6V	
	K...351	56.04.0195	SDS Relais, Type TQ2-6V	
	K...451	56.04.0195	SDS Relais, Type TQ2-6V	
	K...551	56.04.0195	SDS Relais, Type TQ2-6V	
	K...651	56.04.0195	SDS Relais, Type TQ2-6V	
	K...751	56.04.0195	SDS Relais, Type TQ2-6V	
	K...851	56.04.0195	SDS Relais, Type TQ2-6V	
	MP....1	53.03.0168	2 pcs IC-Sockets 16 Pin	
	MP....2	53.03.0166	1 pcs IC-Socket 8 Pin	
	MP....3	1.917.611.11	1 pcs Print	St
	MP....4	1.010.090.49	1 pcs Absch. komplett	St
	MP....5	1.010.006.33	2 pcs Griffhaelften	St
	MP....6	43.01.0108	1 pcs ESE Warnschild	
	MP....7	1.917.611.01	1 pcs Bez. Streifen 6.3*91	St
	MP....8	28.21.1380	1 pcs Rohrniete,D2.25*6.5	
	MP....9	21.01.0281	2 pcs Z Schr. ZN M2.5*10	
	MP...10	21.01.0280	2 pcs Z Schr. ZN M2.5*8	
	MP...11	1.010.096.49	1 pcs Klarsichtschild	St
	MP...12	24.16.1025	4 pcs Rippenscheibe, D2.75/5	
	P.....1	54.11.2004	Euro, 2*32 contacts	
	Q...101	50.03.0515	BC557 PNP	any
	Q...102	50.03.0515	BC557 PNP	any
	Q...151	50.03.0436	BC237 NPN	any
	Q...201	50.03.0515	BC557 PNP	any
	Q...202	50.03.0515	BC557 PNP	any
	Q...251	50.03.0436	BC237 NPN	any
	Q...301	50.03.0515	BC557 PNP	any
	Q...302	50.03.0515	BC557 PNP	any
	Q...351	50.03.0436	BC237 NPN	any
	Q...401	50.03.0515	BC557 PNP	any
	Q...402	50.03.0515	BC557 PNP	any
	Q...451	50.03.0436	BC237 NPN	any
	Q...501	50.03.0515	BC557 PNP	any
	Q...502	50.03.0515	BC557 PNP	any
	Q...551	50.03.0436	BC237 NPN	any
	Q...601	50.03.0515	BC557 PNP	any
	Q...602	50.03.0515	BC557 PNP	any
	Q...651	50.03.0436	BC237 NPN	any
	Q...701	50.03.0515	BC557 PNP	any
	Q...702	50.03.0515	BC557 PNP	any
	Q...751	50.03.0436	BC237 NPN	any
	Q...801	50.03.0515	BC557 PNP	any
	Q...802	50.03.0515	BC557 PNP	any
	Q...851	50.03.0436	BC237 NPN	any
	Q...901	50.03.0436	BC237 NPN	any
	R...101	57.11.3680	68 Ohm	
	R...102	57.11.3223	22 kOhm	
	R...103	57.11.3104	100 kOhm	
	R...104	57.11.3124	120 kOhm	
	R...151	57.11.3104	100 kOhm	
	R...152	57.11.3682	6.8 kOhm	
	R...201	57.11.3680	68 Ohm	
	R...202	57.11.3223	22 kOhm	
	R...203	57.11.3104	100 kOhm	
	R...204	57.11.3124	120 kOhm	
	R...251	57.11.3104	100 kOhm	
	R...252	57.11.3682	6.8 kOhm	
	R...301	57.11.3680	68 Ohm	
	R...302	57.11.3223	22 kOhm	
	R...303	57.11.3104	100 kOhm	
	R...304	57.11.3124	120 kOhm	
	R...351	57.11.3104	100 kOhm	
	R...352	57.11.3682	6.8 kOhm	
	R...401	57.11.3680	68 Ohm	
	R...402	57.11.3223	22 kOhm	
	R...403	57.11.3104	100 kOhm	
	R...404	57.11.3124	120 kOhm	
	R...451	57.11.3104	100 kOhm	
	R...452	57.11.3682	6.8 kOhm	

Ad	..POS..	...REF.No...	DESCRIPTION	MANUFACTURER
	R...501	57.11.3680	68 Ohm	
	R...502	57.11.3223	22 kOhm	
	R...503	57.11.3104	100 kOhm	
	R...504	57.11.3124	120 kOhm	
	R...551	57.11.3104	100 kOhm	
	R...552	57.11.3682	6.8 kOhm	
	R...601	57.11.3680	68 Ohm	
	R...602	57.11.3223	22 kOhm	
	R...603	57.11.3104	100 kOhm	
	R...604	57.11.3124	120 kOhm	
	R...651	57.11.3104	100 kOhm	
	R...652	57.11.3682	6.8 kOhm	
	R...701	57.11.3680	68 Ohm	
	R...702	57.11.3223	22 kOhm	
	R...703	57.11.3104	100 kOhm	
	R...704	57.11.3124	120 kOhm	
	R...751	57.11.3104	100 kOhm	
	R...752	57.11.3682	6.8 kOhm	
	R...801	57.11.3680	68 Ohm	
	R...802	57.11.3223	22 kOhm	
	R...803	57.11.3104	100 kOhm	
	R...804	57.11.3124	120 kOhm	
	R...851	57.11.3104	100 kOhm	
	R...852	57.11.3682	6.8 kOhm	
	R...901	57.11.3102	1 kOhm	
	R...902	57.11.3223	22 kOhm	
	R...903	57.11.3334	330 kOhm	
	R...904	57.11.3334	330 kOhm	
	R...905	57.11.3223	22 kOhm	
	R...906	57.11.3101	100 Ohm	
	R...907	57.11.3103	10 kOhm	
	R...908	57.11.3101	100 Ohm	
	R...909	57.11.3101	100 Ohm	
	R...910	57.11.3101	100 Ohm	
	R...911	57.92.7013	0.75 Ohm Ihold=0.5A	PTC
	R...912	57.92.7013	0.75 Ohm Ihold=0.5A	PTC
	R...913	57.92.7013	0.75 Ohm Ihold=0.5A	PTC
	R...914	57.11.3101	100 Ohm	
	R...915	57.11.3101	100 Ohm	
	R...916	57.11.3101	100 Ohm	
	R...917	57.11.3101	100 Ohm	
	W...151	57.11.3000	Wiring Bridge	
	W...152	. . 0	not used Wiring Bridge	
	W...251	57.11.3000	Wiring Bridge	
	W...252	. . 0	not used Wiring Bridge	
	W...351	57.11.3000	Wiring Bridge	
	W...352	. . 0	not used Wiring Bridge	
	W...451	57.11.3000	Wiring Bridge	
	W...452	. . 0	not used Wiring Bridge	
	W...551	57.11.3000	Wiring Bridge	
	W...552	. . 0	not used Wiring Bridge	
	W...601	57.11.3000	Wiring Bridge	
	W...602	57.11.3000	Wiring Bridge	
	W...651	57.11.3000	Wiring Bridge	
	W...652	. . 0	not used Wiring Bridge	
	W...701	57.11.3000	Wiring Bridge	
	W...702	57.11.3000	Wiring Bridge	
	W...751	. . 0	not used Wiring Bridge	
	W...752	. . 0	not used Wiring Bridge	
	W...753	. . 0	not used Wiring Bridge	
	W...801	57.11.3000	Wiring Bridge	
	W...802	57.11.3000	Wiring Bridge	
	W...851	. . 0	not used Wiring Bridge	
	W...852	. . 0	not used Wiring Bridge	
	W...853	. . 0	not used Wiring Bridge	

Input 1, 2,... : Pos No 10X, 20X,...
Output 1, 2,... : Pos No 15X, 25X,...
Global parts : Pos No 9XX

CER=Ceramic, EL=Electrolytic, PE=Polyester

MANUFACTURER: TI=Texas Instrument, St=Studer

1.917.611.00 SIGNAL INPUT/OUTPUT INTERFACE AB 89/11/0600

Pin Location List
Signal Input / Output Interface 1.917.611.00

```
          1.1 = RELAIS 1 , CONTACT 1
          a   = MAKE   CONTACT ; ARBEITSKONTAKT
          r   = BREAK  CONTACT ; RUHEKONTAKT
          s   = SWITCH CONTACT ; SCHALTKONTAKT
```

P	NO	NAME	REMARK	B=BUS O=CONNECTION S=SYMMETRIC I=INVERS AS=ASYMMETRIC		
P1	01A	1.1-a	RELAIS 1.1	A		
P1	01B	1.1-s	RELAIS 1.1	A		
P1	02A	1.2-a/1.1-r	RELAIS 1.2 / RELAIS 1.1	A		
P1	02B	1.2-s	RELAIS 1.2	A		
P1	03A	2.2-a/2.1-r	RELAIS 2.2 / RELAIS 2.1	A		
P1	03B	2.2-s	RELAIS 2.2	A		
P1	04A	2.1-a	RELAIS 2.1	B		
P1	04B	2.1-s	RELAIS 2.1	B		
P1	05A	3.2-a/3.1-r	RELAIS 3.2 / RELAIS 3.1	B		
P1	05B	3.2-s	RELAIS 3.2	B		
P1	06A	3.1-a	RELAIS 3.1	B		
P1	06B	3.1-s	RELAIS 3.1	B		
P1	07A	4.2-a/4.1-r	RELAIS 4.2 / RELAIS 4.1	C		
P1	07B	4.2-s	RELAIS 4.2	C		
P1	08A	4.1-a	RELAIS 4.1	C		
P1	08B	4.1-s	RELAIS 4.1	C		
P1	09A	5.1-a	RELAIS 5.1	C		
P1	09B	5.1-s	RELAIS 5.1	C		
P1	10A	5.2-a/5.1-r	RELAIS 5.2 / RELAIS 5.1	D		
P1	10B	5.2-s	RELAIS 5.2	D		
P1	11A	6.1-a	RELAIS 6.1	D		
P1	11B	6.1-s	RELAIS 6.1	D		
P1	12A	6.2-a/6.1-r	RELAIS 6.2 / RELAIS 6.1	D		
P1	12B	6.2-s	RELAIS 6.2	D		
P1	13A	7.2-a	RELAIS 7.2	E		
P1	13B	7.2-r	RELAIS 7.2	E		
P1	14	- 15.5V	- SUPPLY		B	X X
P1	15	0V-A	GROUND AUDIO		B	X X
P1	16	+ 15.5V	+ SUPPLY		B	X X
P1	17A	7.2-s	RELAIS 7.2	E		
P1	17B	8.2-s	RELAIS 8.2	E		
P1	18A	8.2-a	RELAIS 8.2	F		
P1	18B	8.2-r	RELAIS 8.2	F		
P1	19A	IN 8+ / 7.1-a	OPTO IN 8+ / RELAIS 7.1	F		
P1	19B	IN 8- / 7.1-r	OPTO IN 8- / RELAIS 7.1	F		
P1	20A	IN 7+ / 7.1-s	OPTO IN 7+ / RELAIS 7.1	F		
P1	20B	IN 7- / 8.1-a	OPTO IN 7- / RELAIS 8.1	F		
P1	21A	IN 6+ / 8.1-r	OPTO IN 6+ / RELAIS 8.1	F		
P1	21B	IN 6- / 8.1-s	OPTO IN 6- / RELAIS 8.1	F		
P1	22A	IN 5+	OPTO IN 5+	G		
P1	22B	IN 5-	OPTO IN 5-	G		
P1	23A	IN 4+	OPTO IN 4+	G		
P1	23B	IN 4-	OPTO IN 4-	G		
P1	24A	IN 3+	OPTO IN 3+	G		
P1	24B	IN 3-	OPTO IN 3-	G		
P1	25A	IN 2+	OPTO IN 2+	H		
P1	25B	IN 2-	OPTO IN 2-	H		
P1	26A	IN 1+	OPTO IN 1+	H		
P1	26B	IN 1-	OPTO IN 1-	H		
P1	27A	INT	INTERUPT			
P1	27B	0V-L	GROUND SIGN (LOGIC)		B	X X
P1	28A	RSTB	RECEIVE STROBE			
P1	28B	RXD	RECEIVE DATA			
P1	29A	RCL	RECEIVE CLOCK			
P1	29B	RXTH	RECEIVE DATA THROUGH			
P1	30A	DO 0	DATA OUT 0 (ENABLE)			
P1	30B	TSTB	TRANSMIT STROBE			
P1	31A	TXD	TRANSMIT DATA			
P1	31B	TXTH	TRANSMIT DATA THROUGH			
P1	32A	+ 5.5V	+ SUPPLY		B	
P1	32B	TCL	TRANSMIT CLOCK			

8 POWER SUPPLY UNITS

General For the power supply of the D940/D941 mixing consoles, Coutant 19" units (HSU series) are used which are equipped with a Studer front panel.

Studer Part No.	Description	Basic Coutant product
1.940.601.00	Power Supply 5 V/20 A	HSU-100-10
1.940.602.00	Power Supply ±15 V/3.4 A	HSU-100-23
1.940.603.00	Power Supply 24 V/4.2 A	HSU-100-13

Important As the power supply units are safety-relevant parts, they may be serviced only by authorized personnel using original spare parts.
For replacement, contact your nearest Studer representative; for repair, contact the nearest Coutant distributor. The Coutant brand is represented worldwide by companies with the following names:
Coutant, Coutant-Lambda, Lambda-Coutant, Lambda electronics, Nemic-Lambda, or CL electronics.

8.1 Specifications

Mains voltages: 230 V (200...240 V ±10%)
115 V (100...120 V ±10%)

Voltage selector: Jumper below cover

Mains frequency: 47...440 Hz

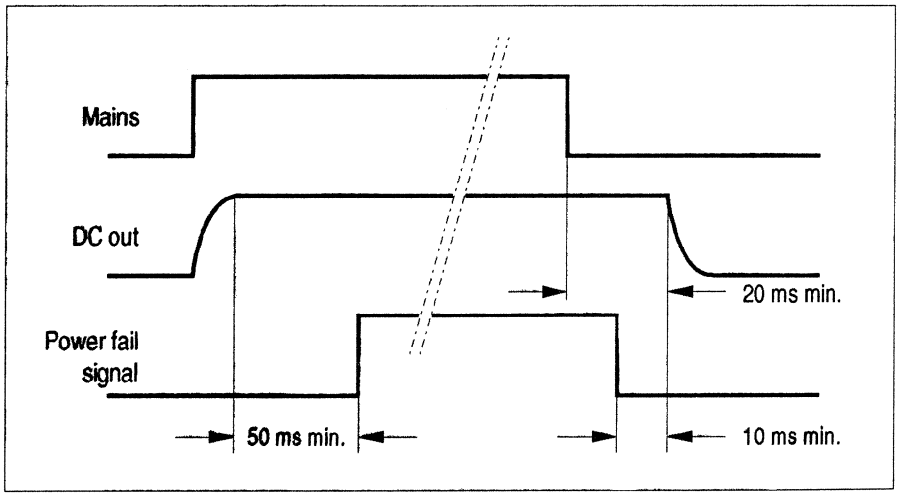
Efficiency: typ. 75%

Output power: 100 W total

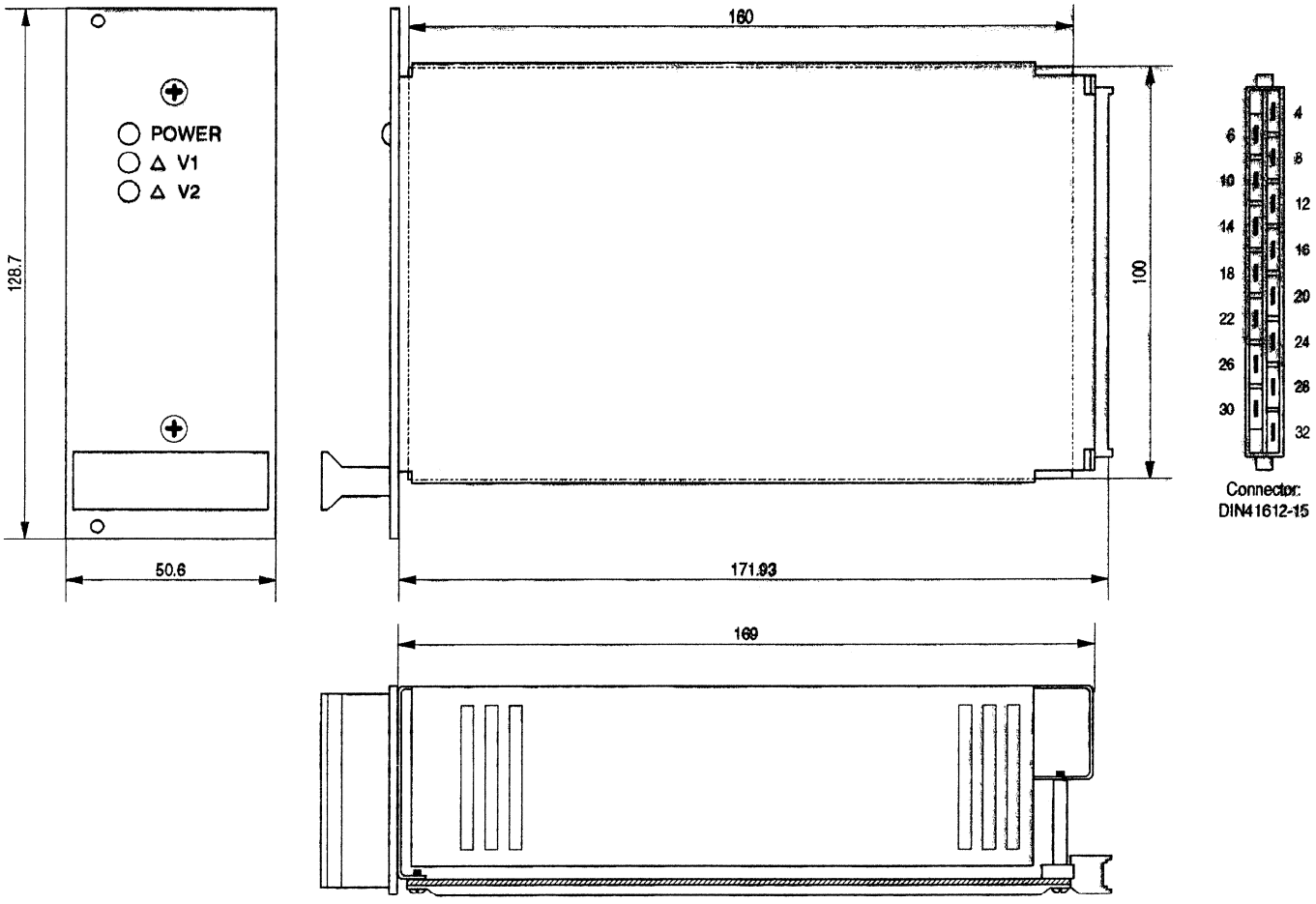
Output(s): short-circuit protected, main output(s) overload protected (110%)

Power down (logic inhibit): Control input, TTL compatible, active high (5 V/1.6 mA)

Power fail: Output, open collector, TTL compatible, active low (max. 30 V/16 mA) (see diagram below).



Dimensions: (in mm)



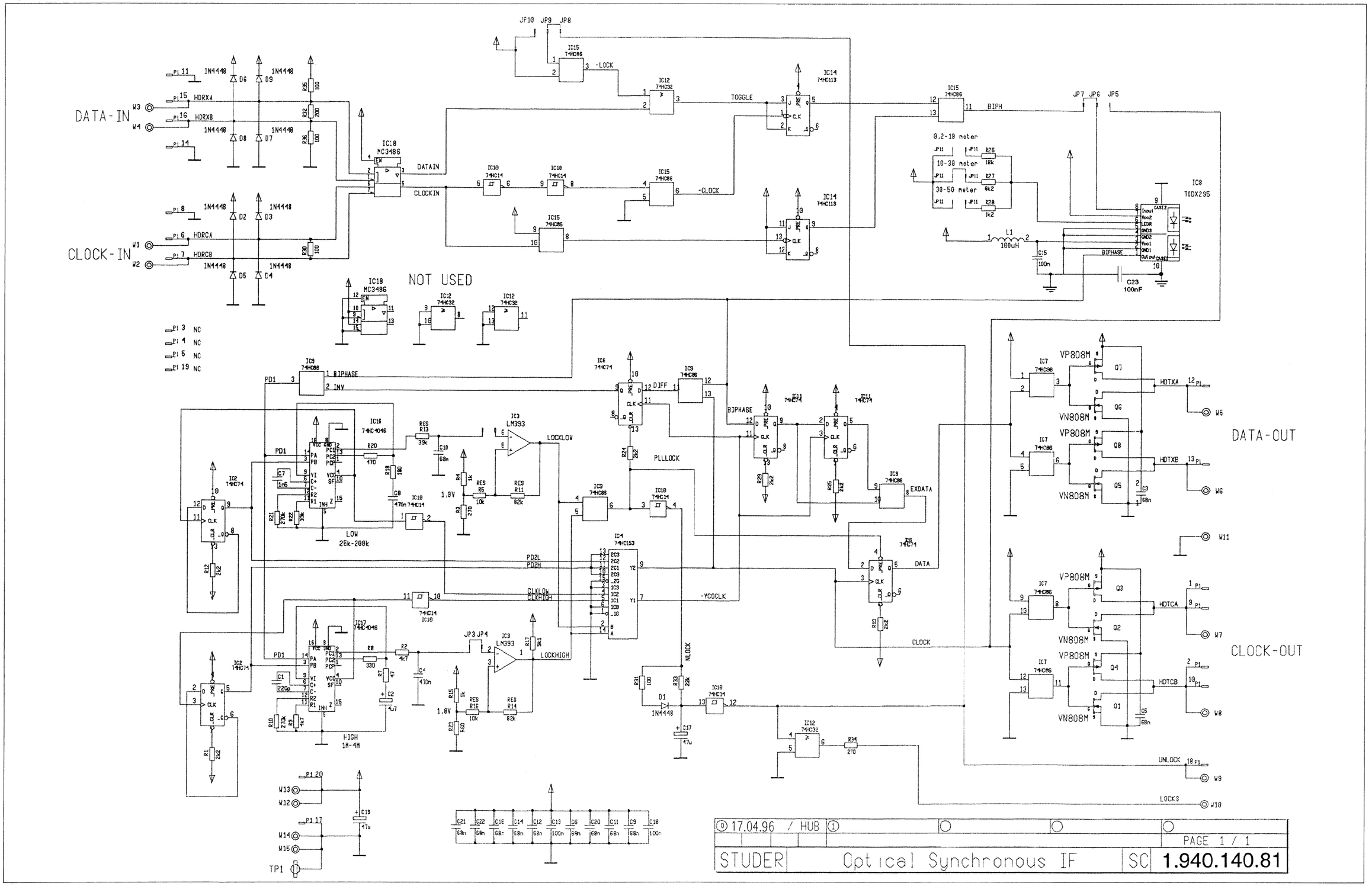
Pin assignment:

Pin	Single output	Twin output
4	V1 +	**V1 +**
6	V1 +	**V1 GND**
8	Sense +	**V2 –**
10	Sense GND	V2 GND
12	V1 GND	
14	V1 GND	
16		
18		
20	Logic inhibit	Logic inhibit
22	Power fail	Power fail
24		
26		
28	AC live	AC live
30	AC neutral	AC neutral
32	Safety GND	Safety GND

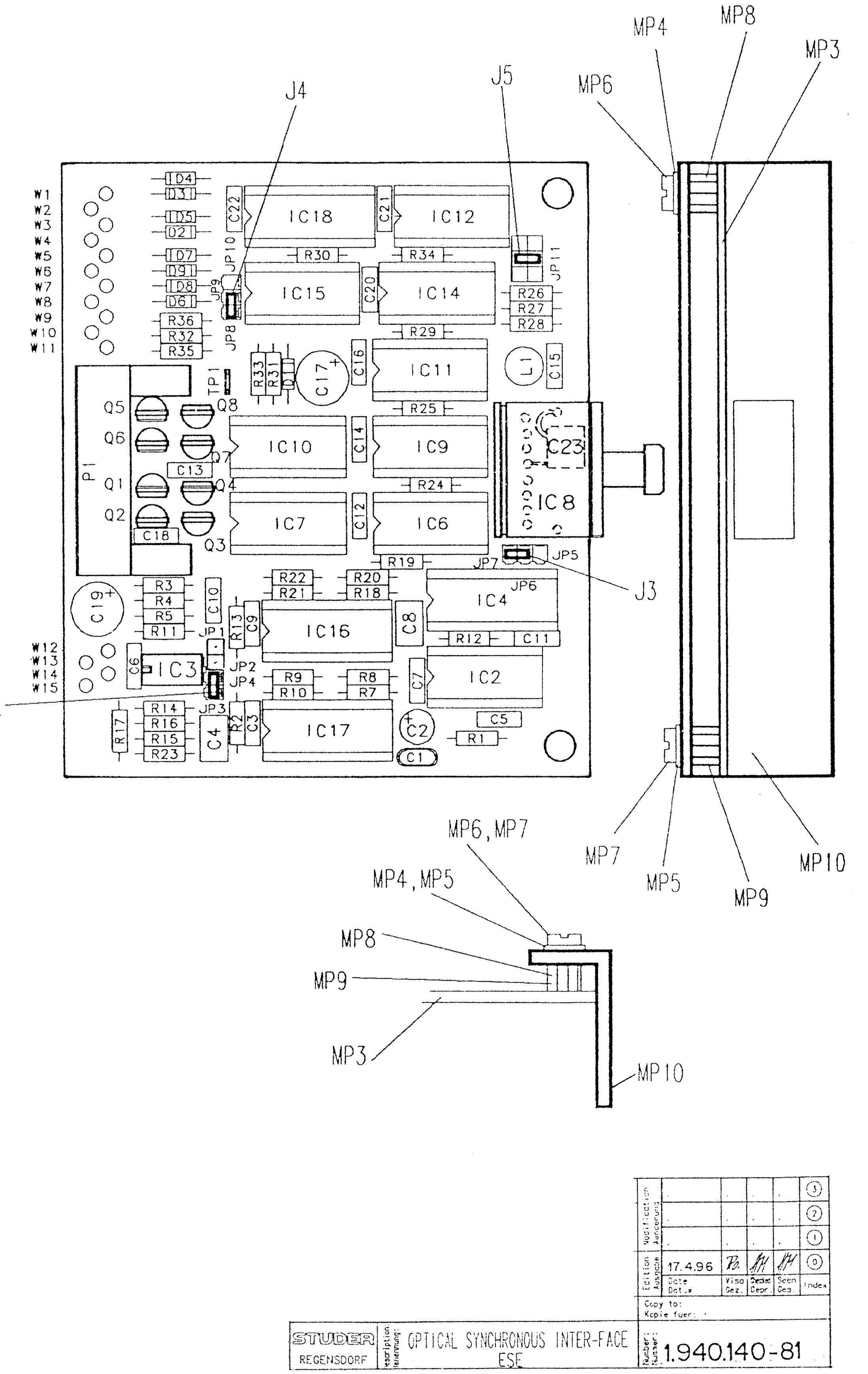
SCHEMATA / CIRCUIT DIAGRAMS

Connector Panel

Optical Synchronous Interface 1.940.140.81



Optical Synchronous Interface 1.940.140.81



Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.34.4221		220p	C 220 P , 5%, N750 , CER
0	C 2	59.22.8479		4u7	EL 50V, 20%, rad RM5
0	C 3	59.06.0683		68n	PETP, 10%, 63V
0	C 4	59.06.0474		470n	PETP, 10%, 63V
0	C 5	59.06.0683		68n	PETP, 10%, 63V
0	C 6	59.06.0683		68n	PETP, 10%, 63V
0	C 7	59.06.0152		1n5	PETP, 10%, 63V
0	C 8	59.06.0474		470n	PETP, 10%, 63V
0	C 9	59.06.0683		68n	PETP, 10%, 63V
0	C 10	59.06.0683		68n	PETP, 10%, 63V
0	C 11	59.06.0683		68n	PETP, 10%, 63V
0	C 12	59.06.0683		68n	PETP, 10%, 63V
0	C 13	59.06.0104		100n	PETP, 10%, 63V
0	C 14	59.06.0683		68n	PETP, 10%, 63V
0	C 15	59.06.0104		100n	PETP, 10%, 63V
0	C 16	59.06.0683		68n	PETP, 10%, 63V
0	C 17	59.22.6470		47u	EL 40V, 20%, rad RM5
0	C 18	59.06.0104		100n	PETP, 10%, 63V
0	C 19	59.22.6470		47u	EL 40V, 20%, rad RM5
0	C 20	59.06.0683		68n	PETP, 10%, 63V
0	C 21	59.06.0683		68n	PETP, 10%, 63V
0	C 22	59.06.0683		68n	PETP, 10%, 63V
0	C 23	59.06.0104		100n	PETP, 10%, 63V
0	D 1	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 2	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 3	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 4	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 5	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 6	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	IC 2	50.17.1074		74HC74	IC ... 74 HC 74 ., ,A
0	IC 3	50.05.0283		LM393	Dual Comparator
0	IC 4	50.17.1153		74HC153	IC ... 74 HC 153 ., ,A
0	IC 6	50.17.1074		74HC74	IC ... 74 HC 74 ., ,A
0	IC 7	50.17.1086		74HC86	IC ... 74 HC 86 ., ,A
0	IC 8	89.10.0101			TODX 295 ,A
0	IC 9	50.17.1086		74HC86	IC ... 74 HC 86 ., ,A
0	IC 10	50.17.1014		74HC14	IC ... 74 HC 14 ., ,A
0	IC 11	50.17.1074		74HC74	IC ... 74 HC 74 ., ,A
0	IC 12	50.17.1032		74HC32	IC ... 74 HC 32 ., ,A
0	IC 14	50.17.1113		74HC113	IC ... 74 HC 113 ., ,A
0	IC 15	50.17.1086		74HC86	IC ... 74 HC 86 ., ,A
0	IC 16	50.17.4046			IC ... 74 HC 4046 ., ,A
0	IC 17	50.17.4046			IC ... 74 HC 4046 ., ,A
0	IC 18	50.15.0104		MC3486	IC MC 3486 P, DS 3486 N,
0	J 2	54.01.0021		Jumper	0.63 * 0.63mm
0	J 3	54.01.0021		Jumper	0.63 * 0.63mm
0	J 4	54.01.0021		Jumper	0.63 * 0.63mm
0	J 5	54.01.0021		Jumper	0.63 * 0.63mm
0	JP 1	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	JP 2	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	JP 3	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	JP 4	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	JP 5	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	JP 6	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	JP 7	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	JP 8	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	JP 9	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	JP 10	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4
0	JP 11	54.11.0136		2*3p	Pin 0.63*0.63, RM2.54
0	L 1	62.02.3101		100uH	L 100 U , 10%, RAD., RM 5
0	MP 1	43.01.0108	pce	Label	ESE-WARNSCHILD
0	MP 2	1.940.140.04	pce		NR.-ETIKETTE 5 * 20
0	MP 3	1.940.140.11	pce		OPTICAL SYNCHRONOUS PCB /I\
0	MP 4	24.16.1030	pce		RIPPENSCHEIBE D 3.2/5.5
0	MP 5	24.16.1030	pce		RIPPENSCHEIBE D 3.2/5.5
0	MP 6	21.53.0354	pce		Z - SCHR. IS , ZN , M 3 * 6
0	MP 7	21.53.0354	pce		Z - SCHR. IS , ZN , M 3 * 6
0	MP 8	1.010.014.22	pce	3*4.5	NIETMUTTER SW 6 M 3 *4,5
0	MP 9	1.010.014.22	pce	3*4.5	NIETMUTTER SW 6 M 3 *4,5
0	MP 10	1.940.140.01	pce		PRINTHALTER
0	P 1	54.14.2103		20-P	P STECKER 20 P,AU,VR,GERADE

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	Q 1	50.03.1505		VN0808M	VN 0808 M, ZVN 0108 A
0	Q 2	50.03.1505		VN0808M	VN 0808 M, ZVN 0108 A
0	Q 3	50.03.1554		VP0808M	VP 0808 M
0	Q 4	50.03.1554		VP0808M	VP 0808 M
0	Q 5	50.03.1505		VN0808M	VN 0808 M, ZVN 0108 A
0	Q 6	50.03.1505		VN0808M	VN 0808 M, ZVN 0108 A
0	Q 7	50.03.1554		VP0808M	VP 0808 M
0	Q 8	50.03.1554		VP0808M	VP 0808 M
0	R 1	57.11.3222		2k2	MF, 1%, 0207
0	R 2	57.11.3472		4k7	MF, 1%, 0207
0	R 3	57.11.3271		270R	MF, 1%, 0207
0	R 4	57.11.3102		1k0	MF, 1%, 0207
0	R 5	57.11.3103		10k	MF, 1%, 0207
0	R 6	not used		9k1	MF, 1%, 0207
0	R 7	57.11.3470		47R	MF, 1%, 0207
0	R 8	57.11.3331		330R	MF, 1%, 0207
0	R 9	57.11.3472		4k7	MF, 1%, 0207
0	R 10	57.11.3274		270k	MF, 1%, 0207
0	R 11	57.11.3823		82k	MF, 1%, 0207
0	R 12	57.11.3222		2k2	MF, 1%, 0207
0	R 13	57.11.3393		39k	MF, 1%, 0207
0	R 14	57.11.3823		82k	MF, 1%, 0207
0	R 15	57.11.3102		1k0	MF, 1%, 0207
0	R 16	57.11.3103		10k	MF, 1%, 0207
0	R 17	57.11.3912		9k1	MF, 1%, 0207
0	R 18	57.11.3181		180R	MF, 1%, 0207
0	R 19	57.11.3222		2k2	MF, 1%, 0207
0	R 20	57.11.3471		470R	MF, 1%, 0207
0	R 21	57.11.3274		270k	MF, 1%, 0207
0	R 22	57.11.3333		33k	MF, 1%, 0207
0	R 23	57.11.3561		560R	MF, 1%, 0207
0	R 24	57.11.3222		2k2	MF, 1%, 0207
0	R 25	57.11.3222		2k2	MF, 1%, 0207
0	R 26	57.11.3183		18k	MF, 1%, 0207
0	R 27	57.11.3622		6k2	MF, 1%, 0207
0	R 28	57.11.3122		1k2	MF, 1%, 0207
0	R 29	57.11.3222		2k2	MF, 1%, 0207
0	R 30	57.11.3101		100R	MF, 1%, 0207
0	R 31	57.11.3101		100R	MF, 1%, 0207
0	R 32	57.11.3201		200R	MF, 1%, 0207
0	R 33	57.11.3223		22k	MF, 1%, 0207
0	R 34	57.11.3271		270R	MF, 1%, 0207
0	R 35	57.11.3101		100R	MF, 1%, 0207
0	R 36	57.11.3101		100R	MF, 1%, 0207
0	TP 1	54.02.0320		1p	Flatpin, 2.8*0.8mm

End of List

Comments