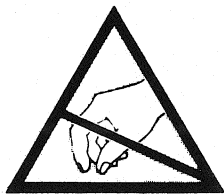


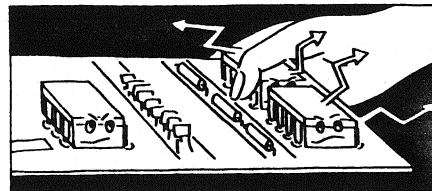
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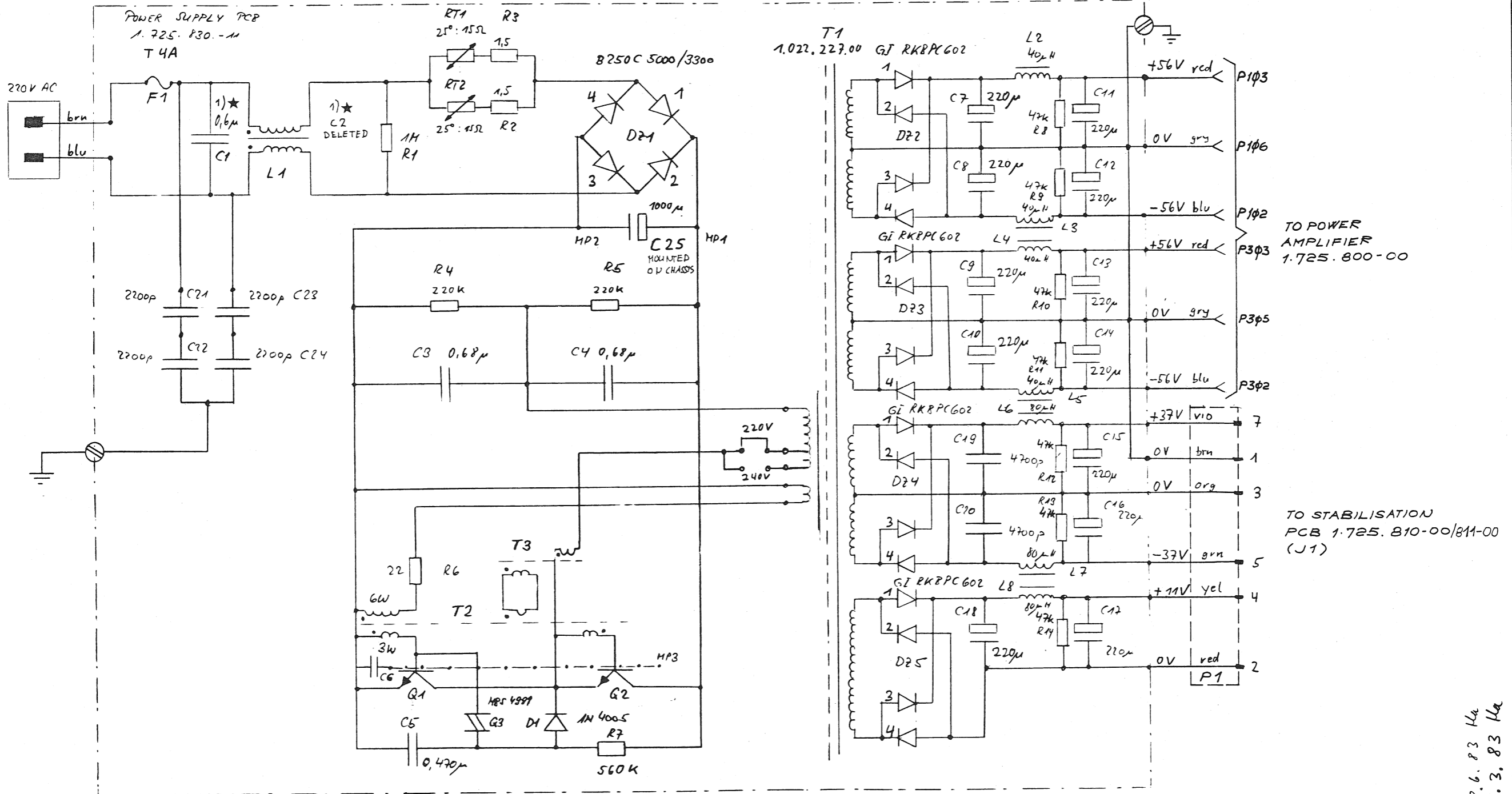
★ VALID FOR B251 AND B252



ALL PCBs MARKED WITH THIS SIGN ▲
CONTAIN COMPONENTS SENSITIVE TO
STATIC CHARGES.
PLEASE, REFER TO PREFACE BEFORE
YOU REMOVE THESE BOARDS.



POWER SUPPLY PCB 1.725.830



TO POWER AMPLIFIER 1.725.800-00

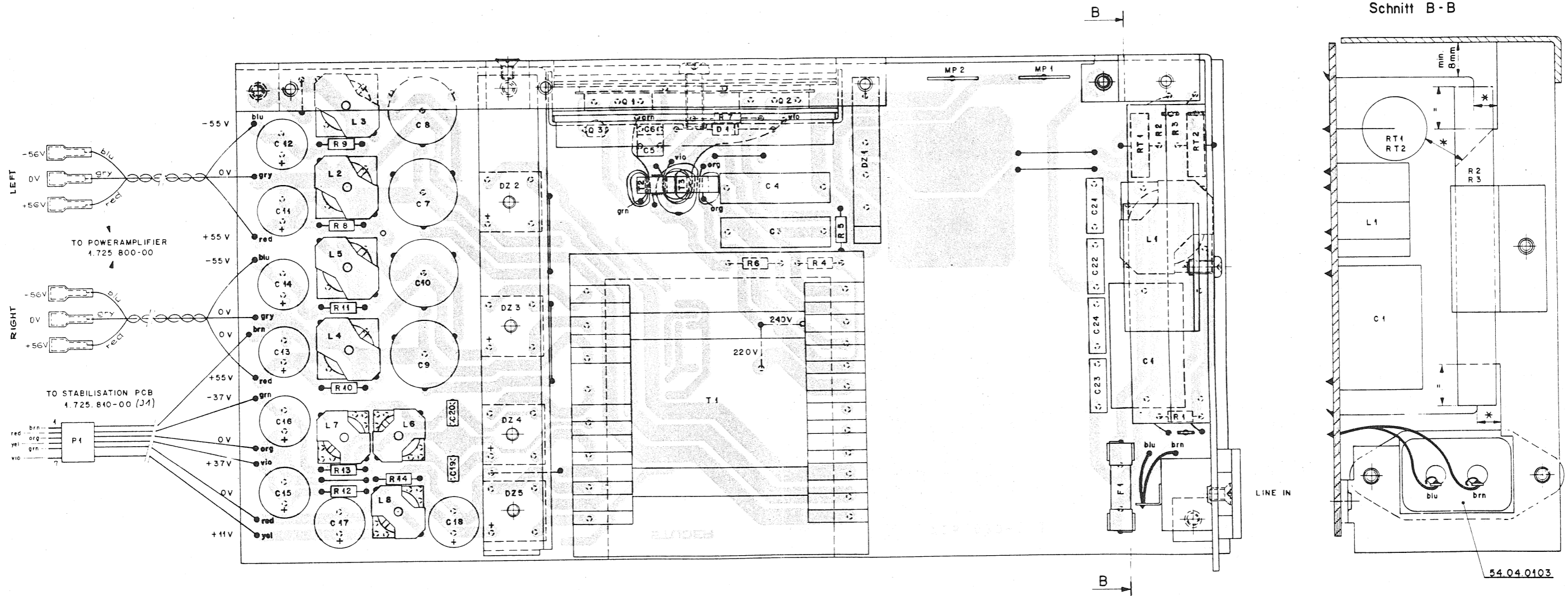
TO STABILISATION PCB 1.725.810-00/811-00 (J1)

1) 8.6.83 Hk
4.3.83 Hk

B 251	29.4.82	AMPLIFIER	B 251	1.725.830.00	PAGE	OF
STUDER						

★ HAS BEEN MODIFIED

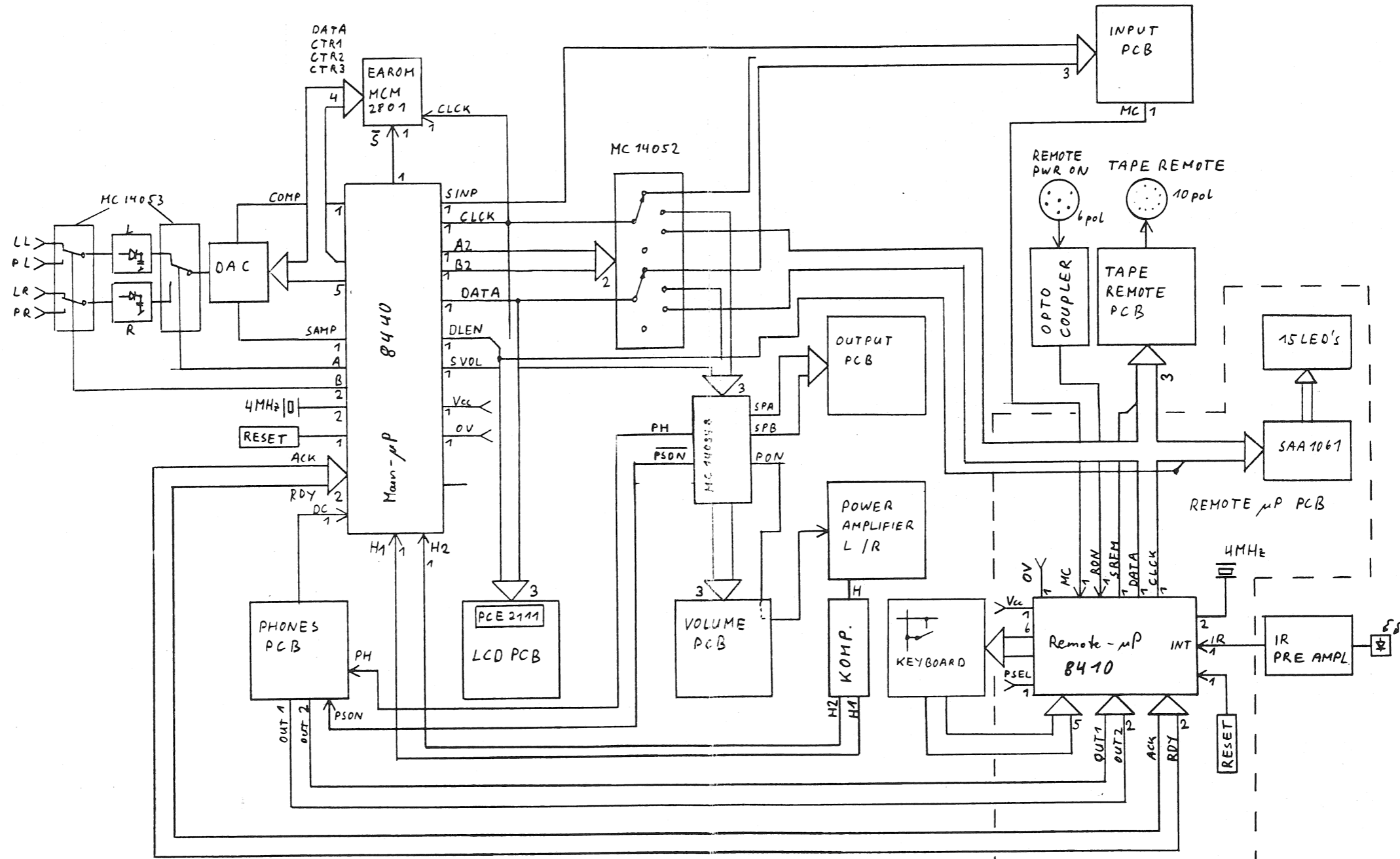
POWER SUPPLY PCB 1.725.830



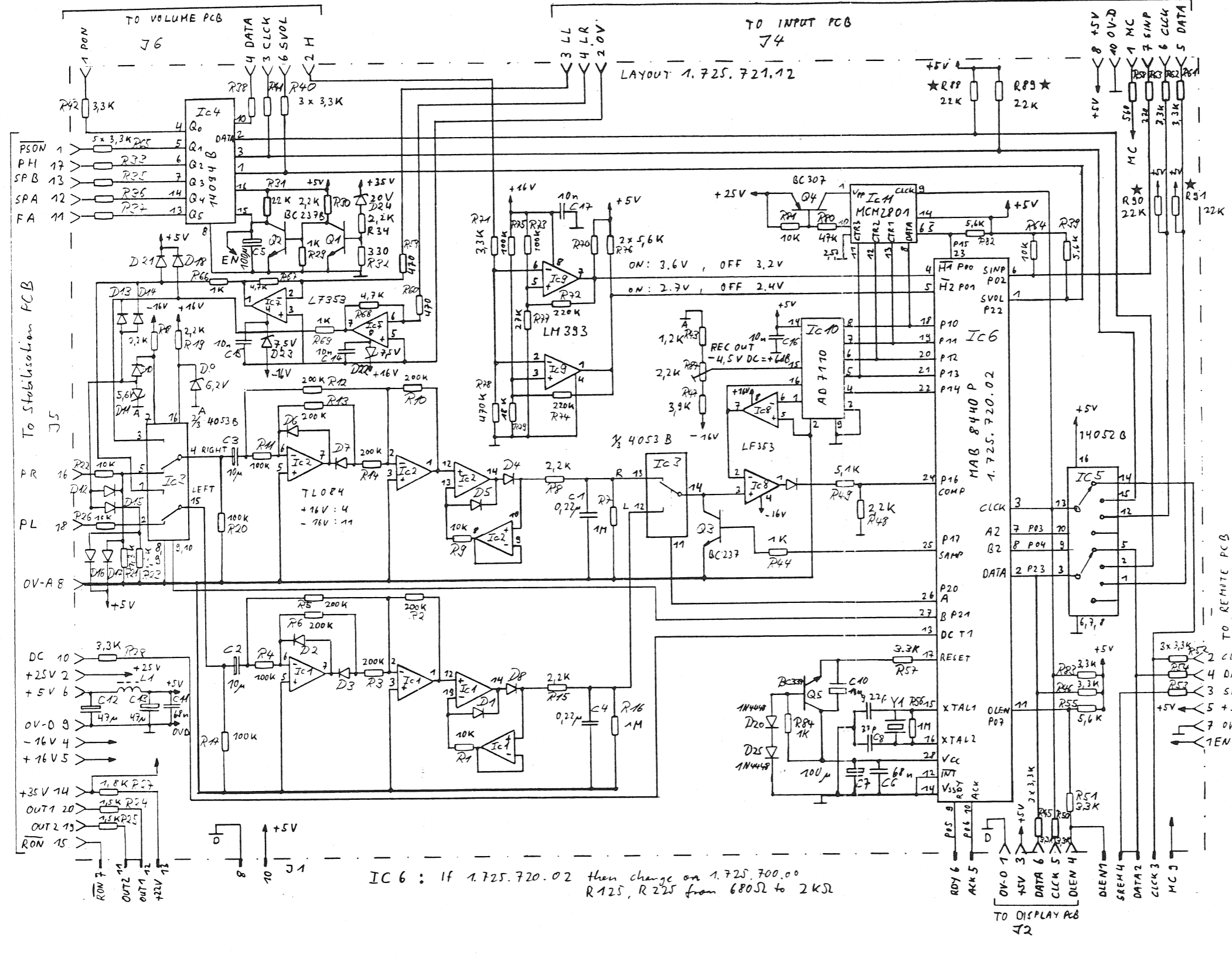
IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(00)	C.....1	50.99.0402	0.1 uF	-20% ±250V	MP-R1	L.....1	1.022.233.00	1.5 mH			St
(01)	C.....1	50.99.0403	0.6 uF	-20% ±250V	MP-R1	L.....2	1.022.232.00	40 uH			St
(00)	C.....2	50.99.0402	0.1 uF	-20% ±250V	MP-R1	L.....3	1.022.232.00	40 uH			St
(01)	C.....2	50.99.0211	0.488 uF	-10% ±250V	pp	L.....4	1.022.232.00	40 uH			St
	C.....3	50.99.0211	0.488 uF	-10% ±250V	pp	L.....5	1.022.232.00	40 uH			St
	C.....4	50.99.0474	0.47 uF	-10% ±63V	PETP	L.....6	1.022.278.00	80 uH			St
	C.....5	50.06.0153	0.01 uF	-10% ±63V	PETP	L.....7	1.022.278.00	80 uH			St
	C.....6	50.22.9221	220 uF	-10% ±100V	EL	L.....8	1.022.278.00	80 uH			St
	C.....7	50.22.9221	220 uF	-10% ±100V	EL						
	C.....8	50.22.9221	220 uF	-10% ±100V	EL	D.....1	50.03.0525	BUW13	BUS48P		Ph+Mot
	C.....9	50.22.9221	220 uF	-10% ±100V	EL	D.....2	50.03.0525	BUW13	BUS48P		Ph+Mot
	C.....10	50.22.9221	220 uF	-10% ±100V	EL	D.....3	1.010.314.50	2N 4991			Mot
	C.....11	50.41.8221	220 uF	-10% ±63V	EL	R.....1	57.11.4105	1 MOhm	5% 0.25W		
	C.....12	50.41.8221	220 uF	-10% ±63V	EL	R.....2	57.58.5159	1.5 Ohm	10% 17W		
	C.....13	50.41.8221	220 uF	-10% ±63V	EL	R.....3	57.58.5159	1.5 Ohm	10% 17W		
	C.....14	50.41.8221	220 uF	-10% ±63V	EL	R.....4	57.11.4224	220 kOhm	5% 0.25W		
	C.....15	50.41.8221	220 uF	-10% ±63V	EL	R.....5	57.11.4224	220 kOhm	5% 0.25W		
	C.....16	50.41.8221	220 uF	-10% ±63V	EL	R.....16	57.11.4220	22 Ohm	5% 0.25W		
	C.....17	50.41.4221	220 uF	-10% ±16V	EL	R.....7	57.11.4364	500 kOhm	5% 0.25W		
	C.....18	50.41.4221	220 uF	-10% ±16V	EL	R.....8	57.11.4473	47 kOhm	5% 0.25W		
	C.....19	50.06.0472	4700 pF	-10% ±63V	PETP	R.....9	57.11.4473	47 kOhm	5% 0.25W		
	C.....20	50.06.0472	4700 pF	-10% ±63V	PETP	R.....10	57.11.4473	47 kOhm	5% 0.25W		
	C.....21	50.99.0458	2200 pF	-20% ±250V	MP-R1	R.....11	57.11.4473	47 kOhm	5% 0.25W		
	C.....22	50.99.0458	2200 pF	-20% ±250V	MP-R1	R.....12	57.11.4473	47 kOhm	5% 0.25W		
	C.....23	50.99.0458	2200 pF	-20% ±250V	MP-R1	R.....13	57.11.4473	47 kOhm	5% 0.25W		
	C.....24	50.99.0458	2200 pF	-20% ±250V	MP-R1	R.....14	57.11.4473	47 kOhm	5% 0.25W		
	C.....25	50.07.0001	1000 uF	-20% ±350V Mounted on Chassis	St						
D.....1	50.04.0502	1N 4005				RT.....1	59.99.0219	33 Ohm	NTC		Ph+St
DZ.....1	70.01.0239	B250C5000/3300				RT.....2	59.99.0219	33 Ohm	NTC		Ph+St
DZ.....2	70.01.0234	200V/10A FAST RECOVERY			GI+Va	T.....1	1.022.227.00				St
DZ.....3	70.01.0234	200V/10A FAST RECOVERY			GI+Va	T.....2	61.02.0119				St
DZ.....4	70.01.0234	200V/10A FAST RECOVERY			GI+Va	T.....3	61.02.0119				St
DZ.....5	70.01.0234	200V/10A FAST RECOVERY			GI+Va						
F.....1	51.01.0123	T4a	FUSE 5x20 SLOW BLOW								

IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
(1) Improvement for FTZ Ratings 08.06.83					
E1=Electrolytic MP=Metallized Paper PETP=Polyester					
MANUFACTURER: Mot=Motorola GI=General Instruments					
R1=Rifa PH=Philips St=Siemens					
Va=Varo St=Studer					
ORIG 83/01/08 (01) 83/06/08					
STUDER 83/06/08 UL POWER SUPPLY PCB 1.725.830.00 PAGE 3					

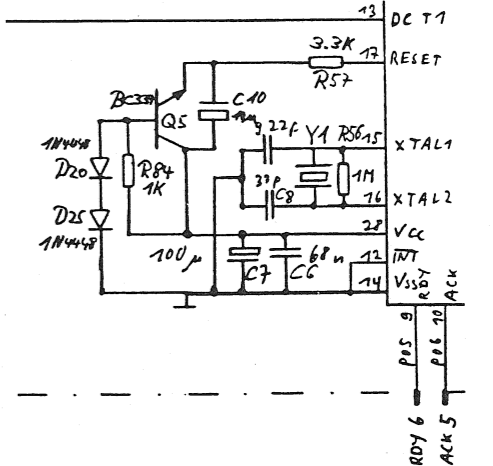
MICROPROCESSOR CONTROL BLOCKDIAGRAM



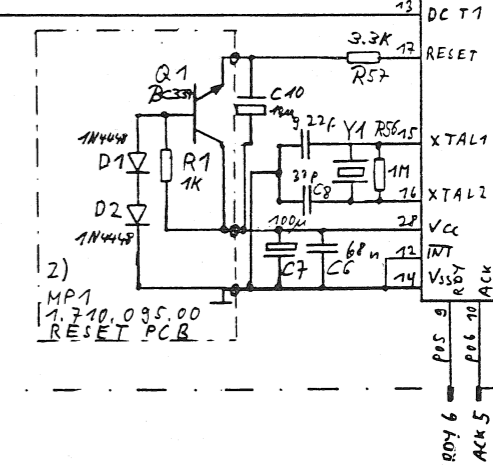
MICROPROCESSOR PCB 1.725.720-00/720-81/721-00 "ESE"



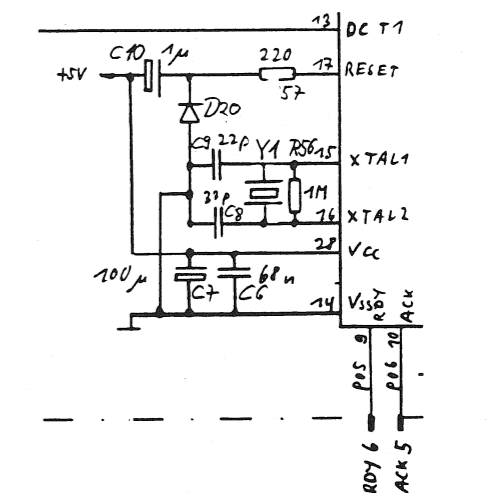
VALID FOR 1.725.720-81 (SINCE SERIAL NO. 2830)



VALID FOR 1.725.720-00 WITH RESET PCB



VALID FOR 1.725.720-00



1) 9.11.83 H₆
 14 22.9.82
 STUDER
 AMPLIFIER B 251
 PROCESSOR PCB
 1.725.721.00
 PAGE OF

★ HAS BEEN MODIFIED

MICROPROCESSOR PCB 1.725.720-00/720-81/721-00 "ESE"

VERSION 1.725.720-00 WITH RESET PCB 1.710.095-00

TO TAPE REMOTE PCB 1.725.780-00 P1

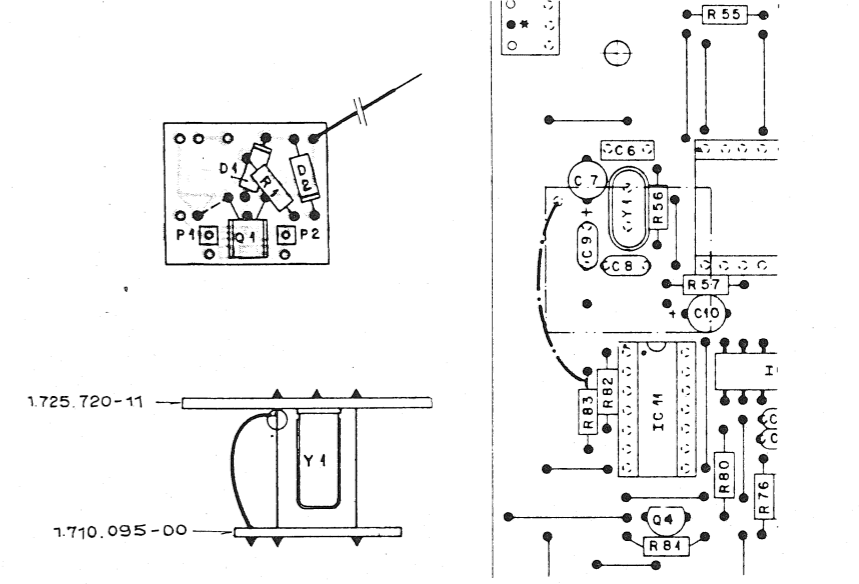
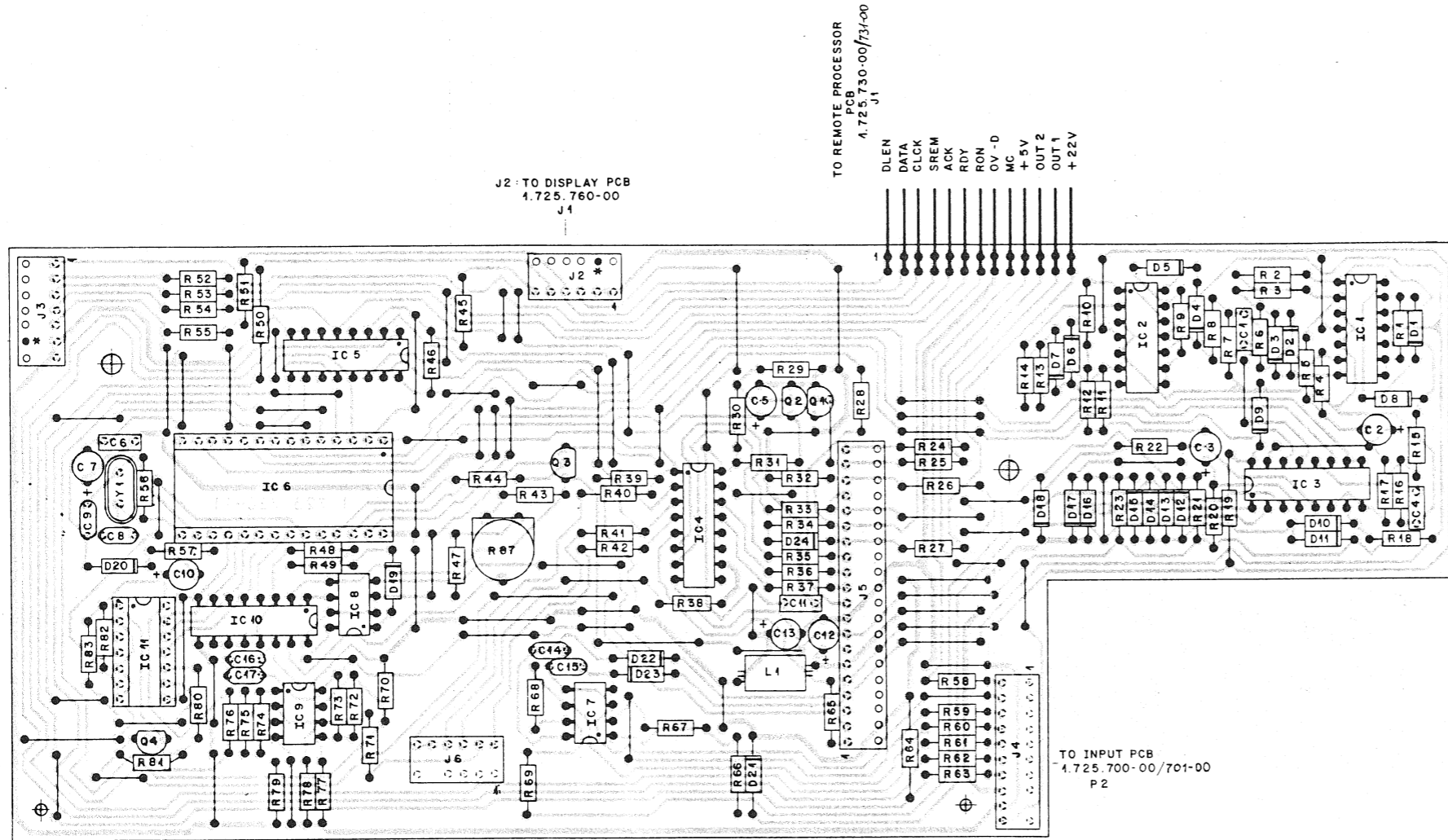


Table with 5 columns: IND., POS. NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. It lists various components and their values, including resistors and capacitors.

(01) Pullup Resistors for Serial Bus
E=Electrolytic, C=Ceramic, P=Polyester
Manufacturer: TI=Texas Instruments, NSC=National Semiconductors, Mo=Motorola, Ph=Philips, NEC=NEC-Chippin Electric Corp., ADI=Analog Devices Inc., Si=Siemens

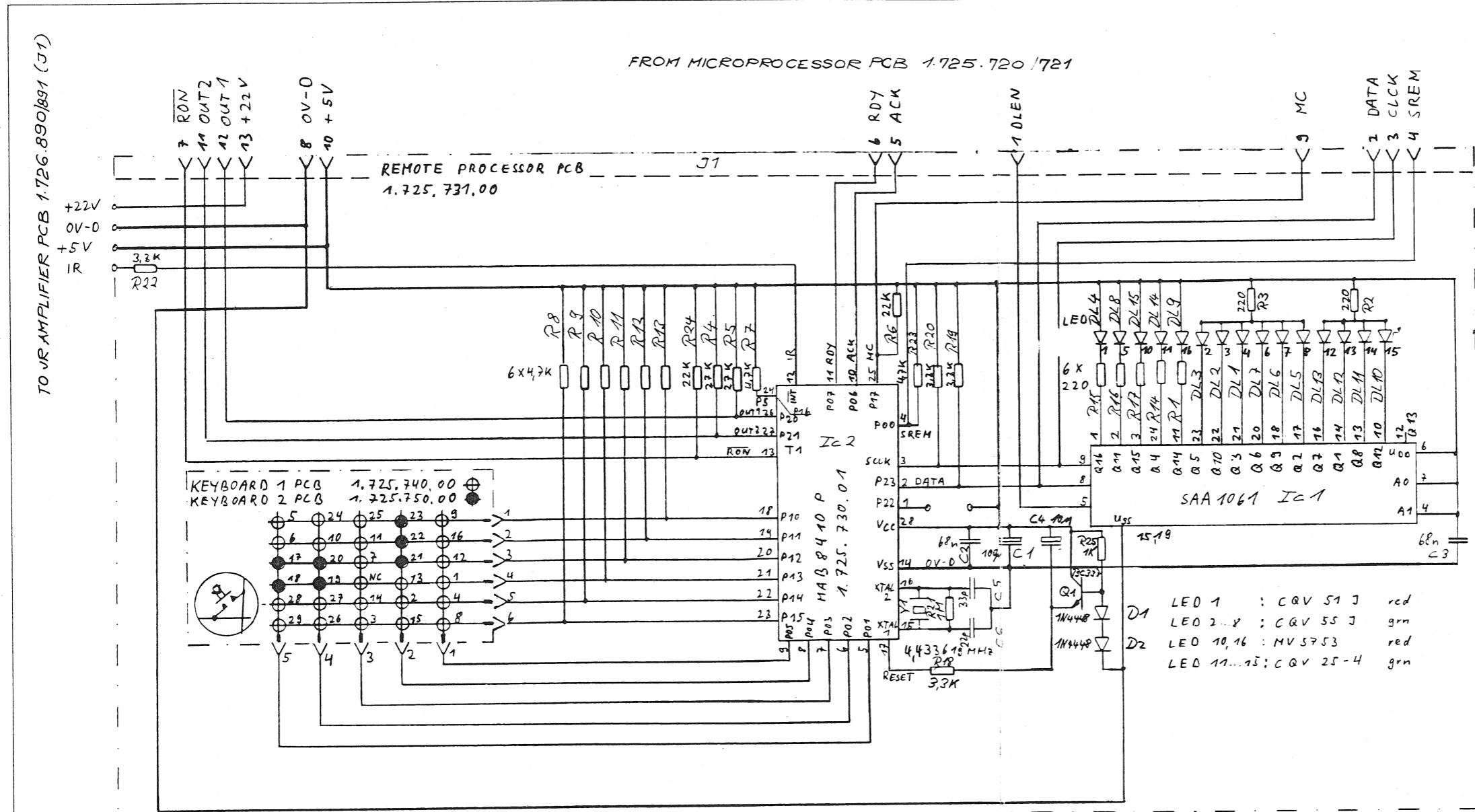
Table with 5 columns: IND., POS. NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. It lists components for the first section of the PCB, including capacitors and resistors.

Table with 5 columns: IND., POS. NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. It lists components for the second section of the PCB, including various ICs and resistors.

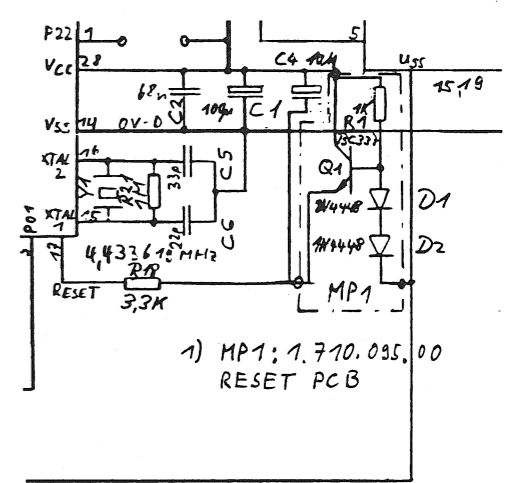
Table with 5 columns: IND., POS. NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. It lists components for the third section of the PCB, including resistors and capacitors.

Table with 5 columns: IND., POS. NO., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. It lists components for the fourth section of the PCB, including resistors and capacitors.

REMOTE PROCESSOR PCB 1.725.730-00/731-00 "ESE"

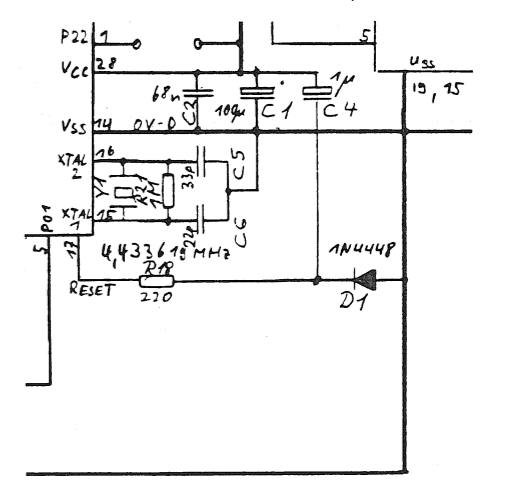


VALID FOR 1.725.730-00 WITH RESET PCB

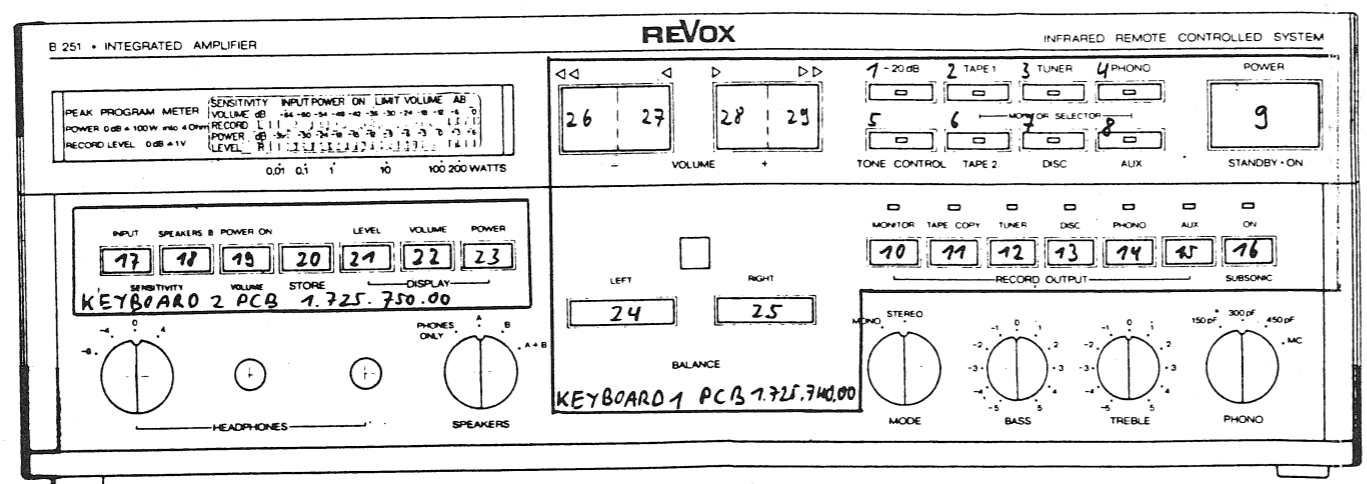


1) MP1; 1.770.035.00 RESET PCB

VALID FOR 1.725.730-00



- LED 1 : CQV 51 J red
- LED 2, 8 : CQV 55 J grn
- LED 10, 16 : MV 5753 red
- LED 17...15 : CQV 25-4 grn

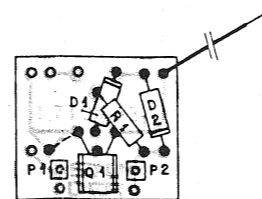
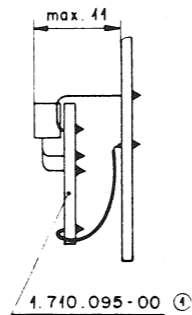
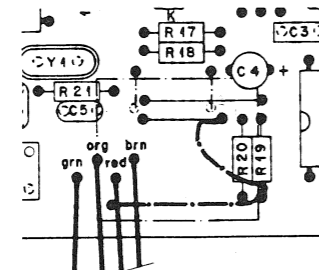
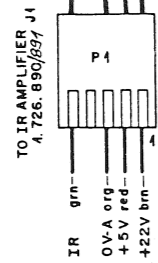
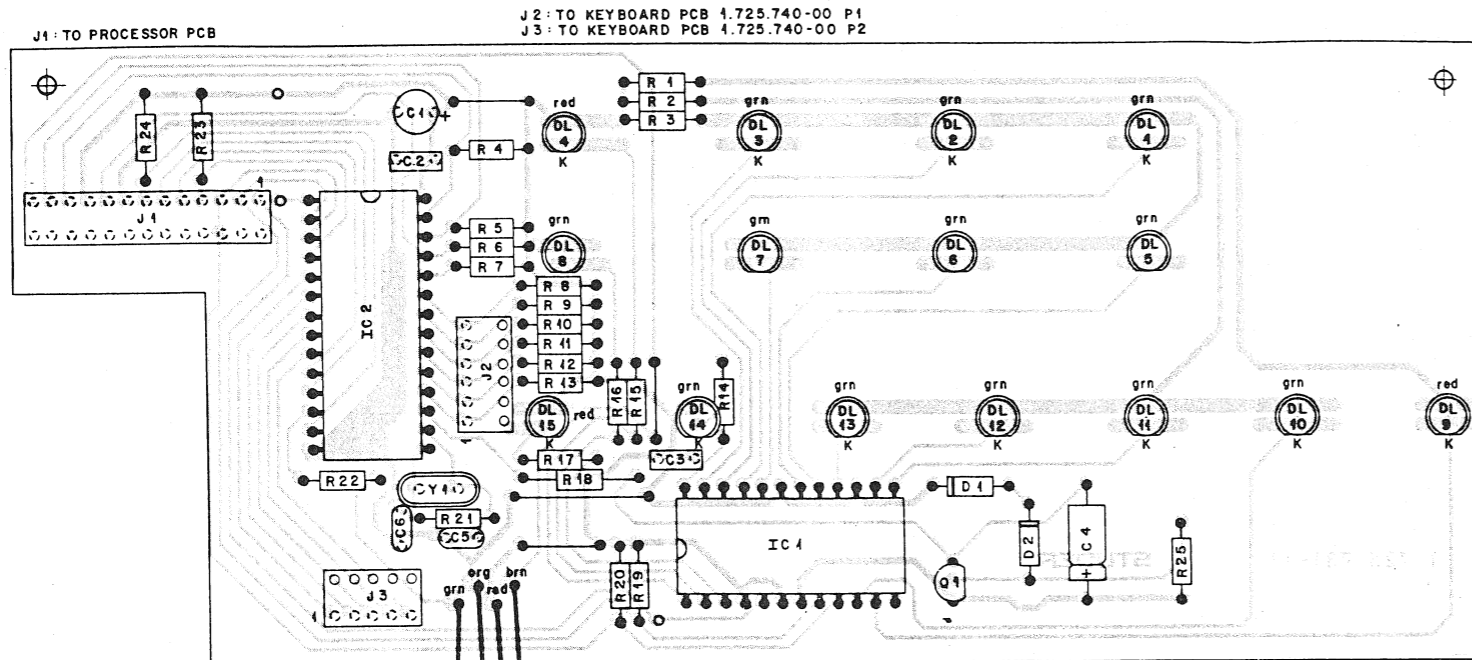


REMOTE PROCESSOR PCB WITH RESET CIRCUIT SINCE SERIAL NO. 3380

7.6.83 K
4.3.83 K
new reset = change from 1.725.730.00 to 1.725.731.00

10.5.82	AMPLIFIER B251		
STUDER	REMOTE PROCESSOR/KEYBOARD		PAGE OF

REMOTE PROCESSOR PCB 1.725.730-00/731-00 "ESE"



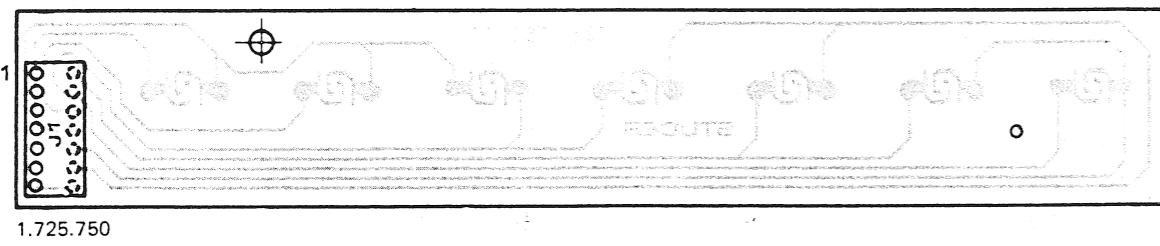
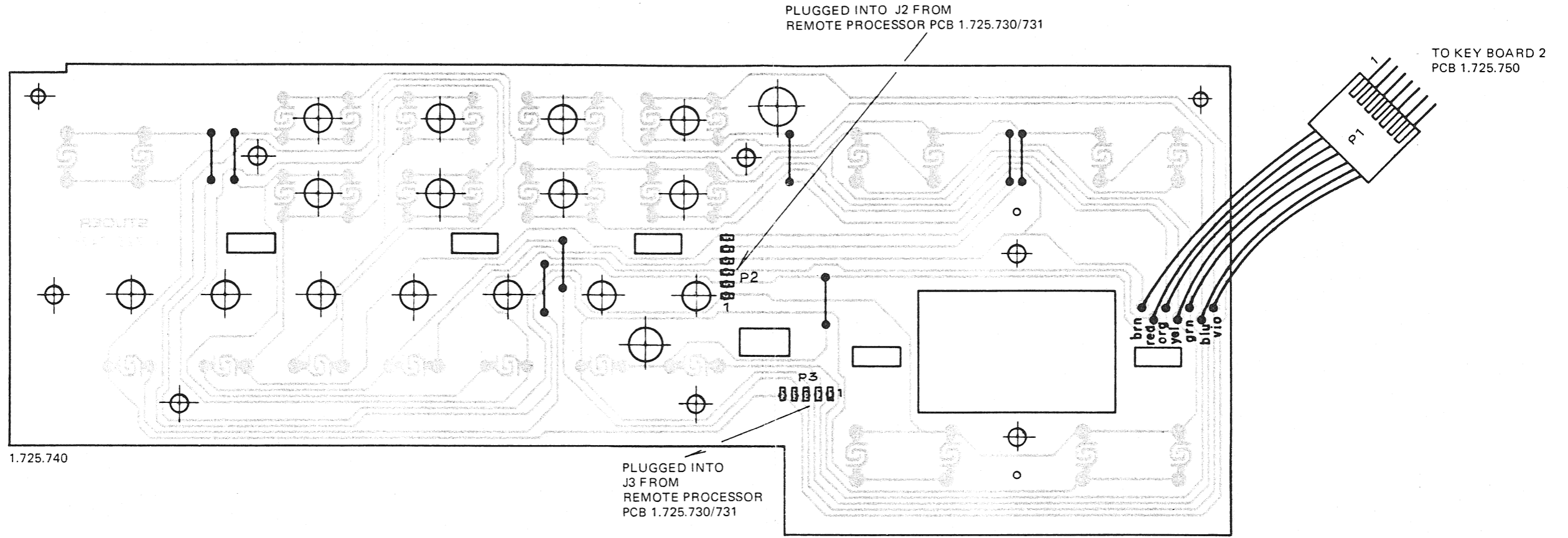
VERSION 1.725.730-00 WITH RESET PCB 1.710.095-00

IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C.....1		59.41.3101	10u uF	-20%, 10V	EL
C.....2		55.99.0205	68 nF	-20%, 100V	CER
C.....3		55.99.0205	68 nF	-20%, 100V	CER
C.....4		59.25.4100	10 uF	-10%, 25V	EL
C.....5		59.45.2330	33 pF	5%, 63V	CER
C.....6		59.45.2220	22 pF	5%, 63V	CER
D.....1		50.04.0125	1N4448		any
D.....2		50.04.0125	1N4448		any
DL.....1		50.04.2140	COV55J	COX96B	Sie+TI
DL.....2		50.04.2140	COV55J	COX96B	Sie+TI
DL.....3		50.04.2140	COV55J	COX96B	Sie+TI
DL.....4		50.04.2135	COV51J	V311P	Sie+TI
DL.....5		50.04.2140	COV55J	COX96B	Sie+TI
DL.....6		50.04.2140	COV55J	COX96B	Sie+TI
DL.....7		50.04.2140	COV55J	COX96B	Sie+TI
DL.....8		50.04.2140	COV55J	COX96B	Sie+TI
DL.....9		50.04.2111	MV5753	CM4-284B	CM+MS
DL.....10		50.04.2117		COV25-4GN	Sie
DL.....11		50.04.2117		COV25-4GN	Sie
DL.....12		50.04.2117		COV25-4GN	Sie
DL.....13		50.04.2117		COV25-4GN	Sie
DL.....14		50.04.2117		COV25-4GN	Sie
DL.....15		50.04.2111	MV5753	CM4-284B	CM+MS
IC.....1		50.13.0106	5A10A1		Ph
IC.....2		1.725.730.01	MAB610	UP	Ph
J.....1		54.01.0299	13POL	CIS-socket-strip	
J.....2		54.01.0216	6POL	CIS-socket-strip	
J.....3		54.01.0288	5POL	CIS-socket-strip	
C.....1		50.03.0340	BC337B		Sie+Mot
R.....1		57.11.4221	220 Ohm	5%, 0.25W	
R.....2		57.11.4221	220 Ohm	5%, 0.25W	

IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R.....3		57.11.4221	220 Ohm	5%, 0.25W	
R.....4		57.11.4273	27 kOhm	5%, 0.25W	
R.....5		57.11.4273	27 kOhm	5%, 0.25W	
R.....6		57.11.4223	22 kOhm	5%, 0.25W	
R.....7		57.11.4472	4.7 kOhm	5%, 0.25W	
R.....8		57.11.4472	4.7 kOhm	5%, 0.25W	
R.....9		57.11.4472	4.7 kOhm	5%, 0.25W	
R.....10		57.11.4472	4.7 kOhm	5%, 0.25W	
R.....11		57.11.4472	4.7 kOhm	5%, 0.25W	
R.....12		57.11.4472	4.7 kOhm	5%, 0.25W	
R.....13		57.11.4472	4.7 kOhm	5%, 0.25W	
R.....14		57.11.4221	220 Ohm	5%, 0.25W	
R.....15		57.11.4221	220 Ohm	5%, 0.25W	
R.....16		57.11.4221	220 Ohm	5%, 0.25W	
R.....17		57.11.4221	220 Ohm	5%, 0.25W	
R.....18		57.11.4332	3.3 kOhm	5%, 0.25W	
R.....19		57.11.4332	3.3 kOhm	5%, 0.25W	
R.....20		57.11.4332	3.3 kOhm	5%, 0.25W	
R.....21		57.11.4105	1 MOhm	5%, 0.25W	
R.....22		57.11.4332	3.3 kOhm	5%, 0.25W	
R.....23		57.11.4472	4.7 kOhm	5%, 0.25W	
R.....24		57.11.4223	22 kOhm	5%, 0.25W	
R.....25		57.11.4102	1 kOhm	5%, 0.25W	
Y.....1		89.01.0554	4.433MHz		ITT

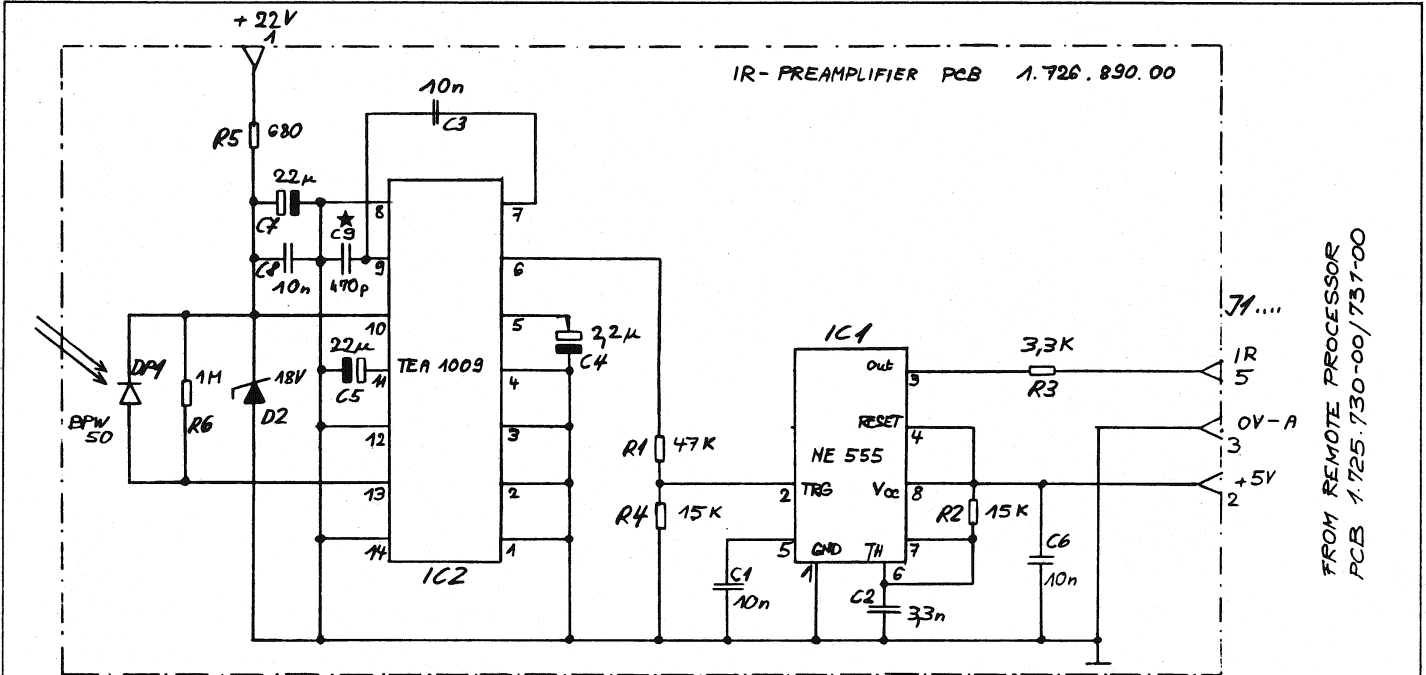
El=Electrolytic, CER=Ceramic, PETP=Polyester.
 MANUFACTURER: TI=Texas Instruments, CM=Chicago Miniature,
 MS=Monsanto, Ph=Philips, SIE=Siemens.

KEYBOARD 1 PCB 1.725.740
KEYBOARD 2 PCB 1.725.750



SCHEMA SEE SECTION 5/9

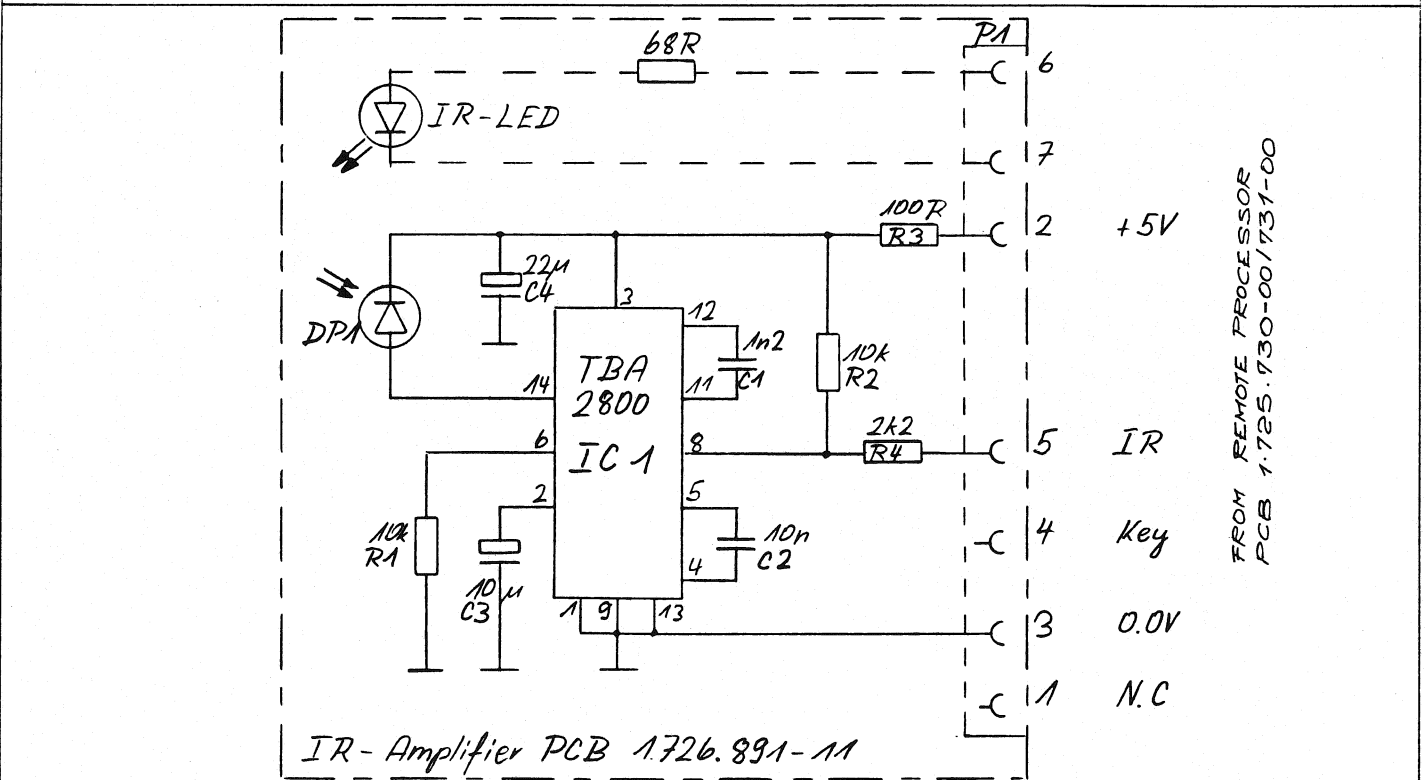
IR PREAMPLIFIER PCB 1.726.890/891



FROM REMOTE PROCESSOR PCB 1.725.730-00/731-00

★ HAS BEEN MODIFIED

7. 12. 81 Hz	1. 3. 83 Hz		
STUDER	IR-PREAMPLIFIER-PCB FX 726	1.726.890-00	PAGE 1 OF 1

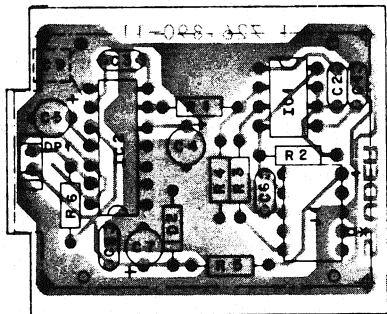


FROM REMOTE PROCESSOR PCB 1.725.730-00/731-00

IR-Amplifier PCB 1.726.891-11

7. 12. 83			
STUDER	IR-Amplifier PCB	1.726.891-11	PAGE 1 OF 1

IR PREAMPLIFIER PCB 1.726.890/891



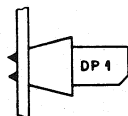
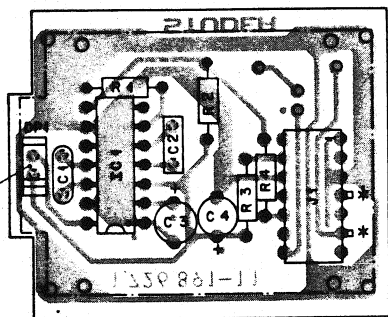
IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	C.....1	59.32.3103	10 n	-20% CER	
	C.....2	59.32.2332	3.3 n	10% CER	
	C.....3	59.32.3103	10 n	-20% 40V CER	
	C.....4	59.22.8229	2.2 u	20% 25V EL	
	C.....5	59.22.5220	22 u	-10% 25V EL	
	C.....6	59.32.3103	10 n	-20% CER	
	C.....7	59.22.5220	22 u	-10% 25V EL	
	C.....8	59.32.3103	10 n	-20% CER	
(01)	C.....9	59.32.2471	470 p	10% CER	
	D.....2	50.04.1122	1R V	5% .40W x 2	
	DP....1	50.04.2136	BPW 50	IR-DIODE	PH
	IC....1	50.05.0158	NE555N	TIMER	SIE
	IC....2	50.11.0111	TEA 1009	IR-AMPLIFIER	ITT
	J.....1	54.01.0305	5 POLE	C15 SOCKET STRIP	AMP
	R.....1	57.11.4473	4.7 K		
	R.....2	57.11.4153	15 K		
	R.....3	57.11.4332	3.3 K		
	R.....4	57.11.4153	15 K		
	R.....5	57.11.4681	680		
	R.....6	57.11.4105	1 M		

SI=SILIZIUM
 EL=ELEKTROLYTIC
 CER=CERAMIC
 MANUFACTURER: PH=PHILIPS; ITT=INTERMETALL; SIG=SIGNETICS; AMP=AMP

ORIG 82/05/27 (01) 83/09/01

S T U D E R 83/09/01 NI IR-AMPLIFIER-BOARD

1.726.890.00 PAGE 1



IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	C.....1	59.32.1122	1.2 nF	-20% 25V Cer	
	C.....2	59.06.0103	10 nF	-10% 25V PETP	
	C.....3	59.22.6100	10 uF	-20% 25V F1	
	C.....4	59.22.5220	22 uF	10% 25V F1	
	DP....1	50.04.2136	BPW 50		
	IC....1	50.11.0121	TBA 2400		ITT
	J.....1	54.01.0244	7-Pole	C15	
	R.....1	57.11.4103	10 kOhm	5% 0.25W MF	
	R.....2	57.11.4103	10 kOhm	5% 0.25W MF	
	R.....3	57.11.4101	100 Ohm	5% 0.25W MF	
	R.....4	57.11.4222	2.2 kOhm	5% 0.25W MF	
	MP....1	1.726.891.11		IR-Amplifier PCB	St.
	MP....2	1.726.890.01		Shield	St.
	MP....3	1.780.105.05		Holder	St.

MF=Metal Film
 Cer=Ceramic; EL=Electrolytic; PETP=Polyester
 MANUFACTURER: St=Studer

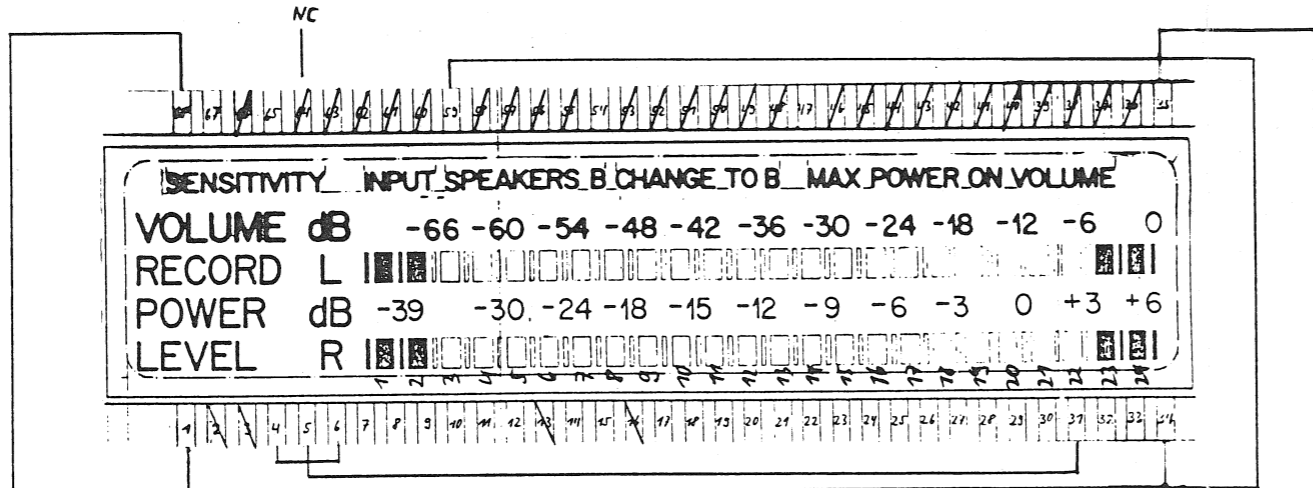
ORIG 84/02/23

S T U D E R (00) 84/02/23 IR-AMPLIFIER PCB

1.726.891.00 PAGE 1

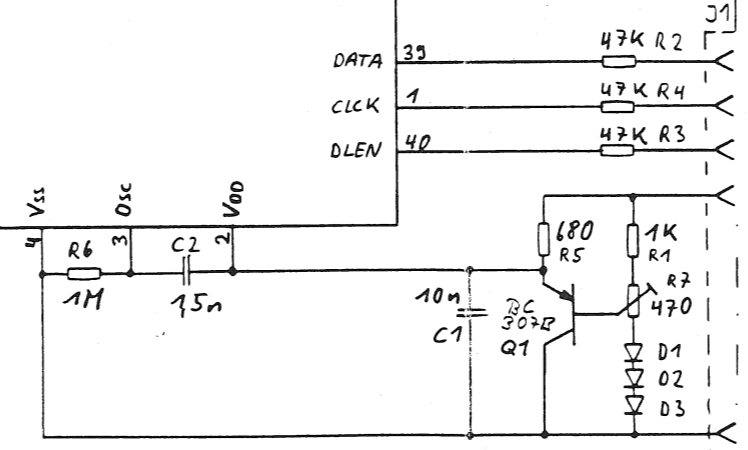
DISPLAY PCB 1.725.760 "ESE"

1.725.760.00



36	COM1	38	LCD
35	—	47	Max POWER ON
34	—	54	CHANGE TO B
33	—	65	SENSI.
32	—	67	VOLUME L, R
31	—	1	INPUT REC. IEM
30	—	5	SCALE dB
29	—	6	SCALE POWER
28	—	7	1R
27	—	8	
26	—	9	
25	—	10	
24	—	11	
23	—	12	
22	—	14	
21	—	15	
20	—	17	
19	—	18	
18	—	19	
17	—	20	
16	—	21	
15	—	22	
14	—	23	
13	—	24	
12	—	25	
11	—	26	
10	—	27	
9	—	28	
8	—	29	
7	—	30	
6	—	31	
5	—	32	
4	—	33	
3	—	34	
2	—	35	
1	—	36	

IC1 ★
PCE 2111



- 6 DATA blu
- 5 CLCK grn
- 4 DLEN yel
- 3 +5V org
- 1 0V-0 brn

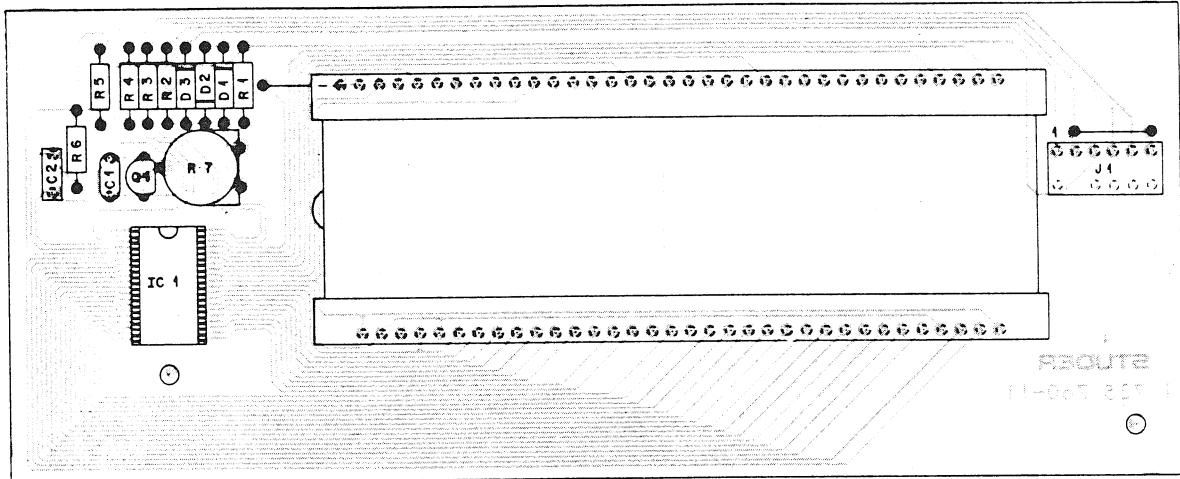
FROM MICROPROCESSOR PCB (32)

★ HAS BEEN MODIFIED

8.7.82 Hw	AMPLIFIER B251	PAGE	OF
STUDER	DISPLAY PCB	1.725.760.00	

4.3.83 Hw

DISPLAY PCB 1.725.760 "ESE"



FOR REPLACEMENT OF IC1 A SPECIAL SOLDERING IRON MUST BE USED.

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	C.....1	59.44.3103	10 nF	-20%, 40V	CER
	C.....2	59.40.0152	1.5 nF	10%, 63V	CER
	D.....1	50.04.0125	1N4448		any
	D.....2	50.04.0125	1N4448		any
	D.....3	50.04.0125	1N4448		any
(00)	IC....1	50.16.0112	PCE2111	LCD-duplex-driver	Ph
(01)	IC....1	50.16.0115	PCE2111	LCD-duplex-driver 114KHz	Ph
	LC....1	1.725.760.01		LC-DISPLAY	Ph
	Q.....1	50.03.0515	BC307B	BC251B/BC560B	NEC,Mot
	R.....1	57.11.4102	1 kOhm	5%, 0.25W	
	R.....2	57.11.4473	47 kOhm	5%, 0.25W	
	R.....3	57.11.4473	47 kOhm	5%, 0.25W	
	R.....4	57.11.4473	47 kOhm	5%, 0.25W	
	R.....5	57.11.4681	680 Ohm	5%, 0.25W	
	R.....6	57.11.4105	1 kOhm	5%, 0.25W	
	R.....7	58.02.4471	470 Ohm	20%, 0.10W PC-SCH	
	J.....1	54.01.0238	5P01	Cis-socket-strip	

(01)93/10/19 New data for PCE 2111 114KHz

EI=Electrolytic, CER=Ceramic, PEP=Polyester.

Manufacturer: TI=Texas Instruments, NEC=Nippon Electric Corp.,
Mot=Motorola, Ph=Philips, Sie=Siemens.

ORIG 82/12/08 (01) 83/10/19

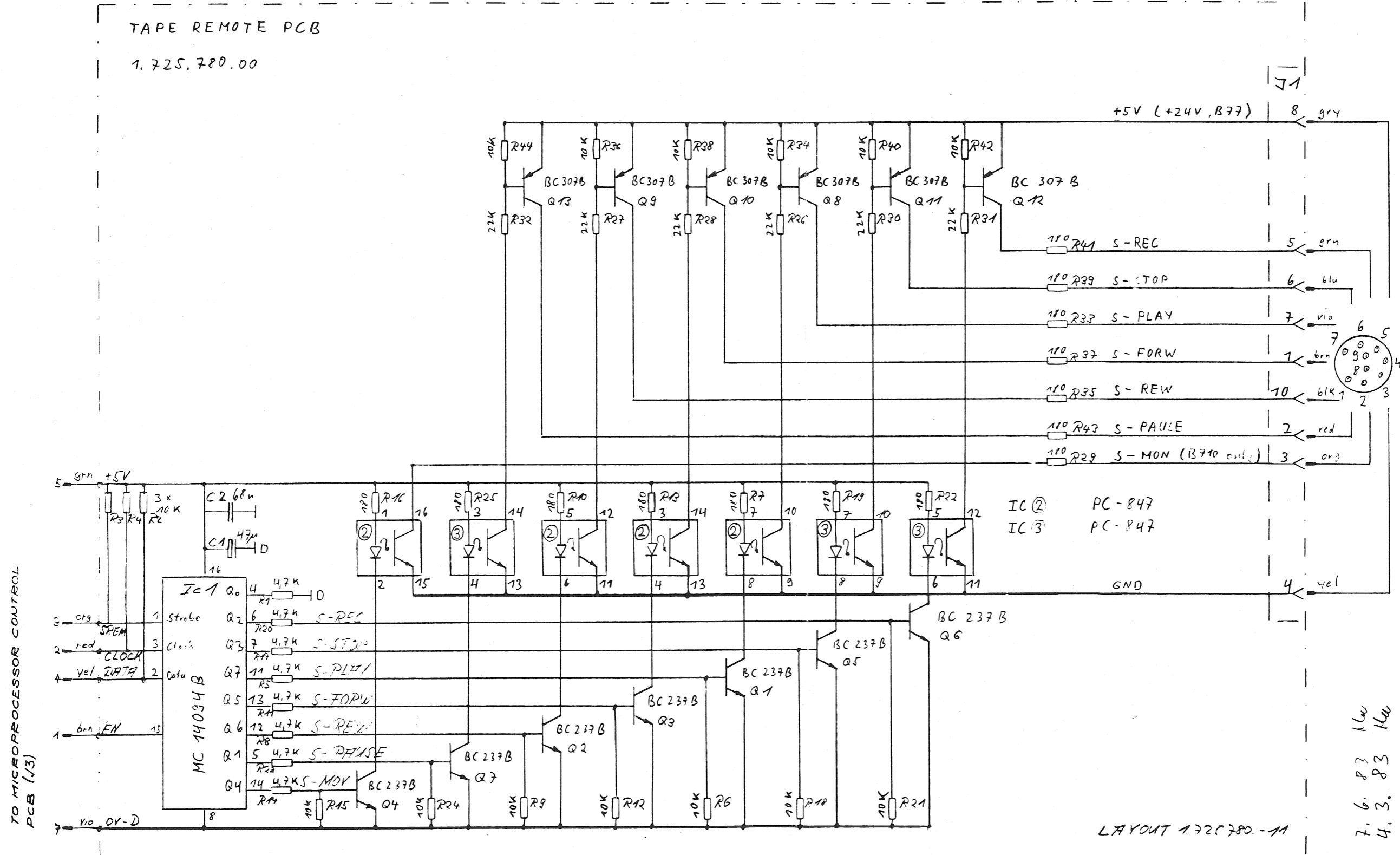
STUDER 83/10/19 UL DISPLAY PCB

1.725.760.00 PAGE 1

TAPE REMOTE PCB 1.725.780 "ESE"

TAPE REMOTE PCB

1.725.780.00



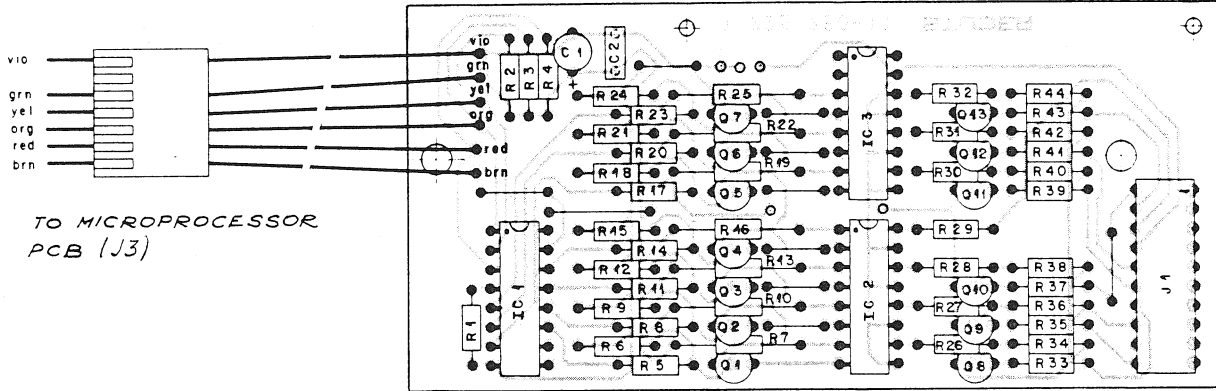
LAYOUT 1.725.780.-11

7.6.83 Maw
4.3.83 Haa

TO MICROPROCESSOR CONTROL PCB (13)

13.4.92	AMPLIFIER B251	1.725.780.00	PAGE	OF
STUDER		TAPE REMOTE CONTROL		

TAPE REMOTE PCB 1.725.780 "ESE"

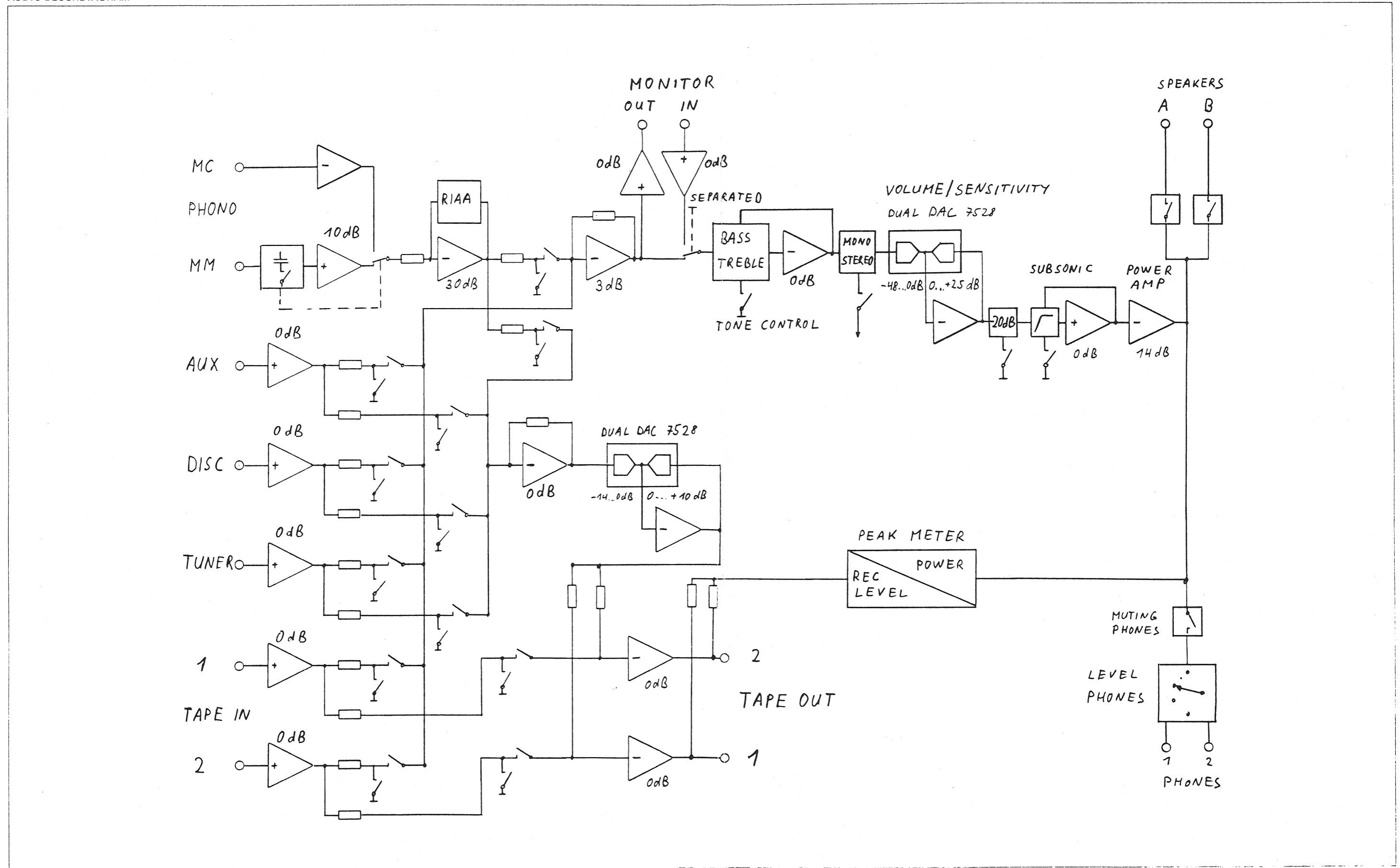


IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C.....1	54-41-3470		47 uF	-20% 10V	EL
C.....2	54-99-0205		68 nF	-70% 100V	CFR
IC.....1	51-01-0714	MC14094		Shift/Store Register	MOT
IC.....2	96-04-2134	PL847		Photocoupler	SP
IC.....3	96-04-2134	PL847		Photocoupler	SP
J.....1	54-01-0367		10PUL	CIS-socket-strip	
R.....1	50-03-0436	BC237B	BC547B/BC550B		Sie+Mot
R.....2	50-03-0436	BC237B	BC547B/BC550B		Sie+Mot
R.....3	50-03-0436	BC237B	BC547B/BC550B		Sie+Mot
R.....4	50-03-0436	BC237B	BC547B/BC550B		Sie+Mot
R.....5	50-03-0436	BC237B	BC547B/BC550B		Sie+Mot
R.....6	50-03-0436	BC237B	BC547B/BC550B		Sie+Mot
R.....7	50-03-0436	BC237B	BC547B/BC550B		Sie+Mot
R.....8	50-03-0515	BC307B	BC251B/BC560B		NEC+Mot
R.....9	50-03-0515	BC307B	BC251B/BC560B		NEC+Mot
R.....10	50-03-0515	BC307B	BC251B/BC560B		NEC+Mot
R.....11	50-03-0515	BC307B	BC251B/BC560B		NEC+Mot
R.....12	50-03-0515	BC307B	BC251B/BC560B		NEC+Mot
R.....13	50-03-0515	BC307B	BC251B/BC560B		NEC+Mot
R.....14	57-11-4472	4.7 kOhm	5% 0.25W		
R.....15	57-11-4103	10 kOhm	5% 0.25W		
R.....16	57-11-4103	10 kOhm	5% 0.25W		
R.....17	57-11-4103	10 kOhm	5% 0.25W		
R.....18	57-11-4103	10 kOhm	5% 0.25W		
R.....19	57-11-4472	4.7 kOhm	5% 0.25W		
R.....20	57-11-4103	10 kOhm	5% 0.25W		
R.....21	57-11-4181	180 Ohm	5% 0.25W		
R.....22	57-11-4472	4.7 kOhm	5% 0.25W		
R.....23	57-11-4103	10 kOhm	5% 0.25W		
R.....24	57-11-4181	180 Ohm	5% 0.25W		
R.....25	57-11-4472	4.7 kOhm	5% 0.25W		
R.....26	57-11-4103	10 kOhm	5% 0.25W		
R.....27	57-11-4181	180 Ohm	5% 0.25W		
R.....28	57-11-4472	4.7 kOhm	5% 0.25W		
R.....29	57-11-4103	10 kOhm	5% 0.25W		
R.....30	57-11-4181	180 Ohm	5% 0.25W		
R.....31	57-11-4472	4.7 kOhm	5% 0.25W		
R.....32	57-11-4103	10 kOhm	5% 0.25W		
R.....33	57-11-4181	180 Ohm	5% 0.25W		
R.....34	57-11-4103	10 kOhm	5% 0.25W		
R.....35	57-11-4181	180 Ohm	5% 0.25W		
R.....36	57-11-4103	10 kOhm	5% 0.25W		
R.....37	57-11-4181	180 Ohm	5% 0.25W		
R.....38	57-11-4103	10 kOhm	5% 0.25W		
R.....39	57-11-4181	180 Ohm	5% 0.25W		
R.....40	57-11-4103	10 kOhm	5% 0.25W		
R.....41	57-11-4181	180 Ohm	5% 0.25W		
R.....42	57-11-4103	10 kOhm	5% 0.25W		
R.....43	57-11-4181	180 Ohm	5% 0.25W		
R.....44	57-11-4103	10 kOhm	5% 0.25W		

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
E1=Electrolytic; CER=Ceramic					
Manufacturer: TI=Texas Instruments; Sps=Siemens; Sp=Sharp; Mot=Motorola; Ph=Philips; NEC=Nippon Electric Corp.					

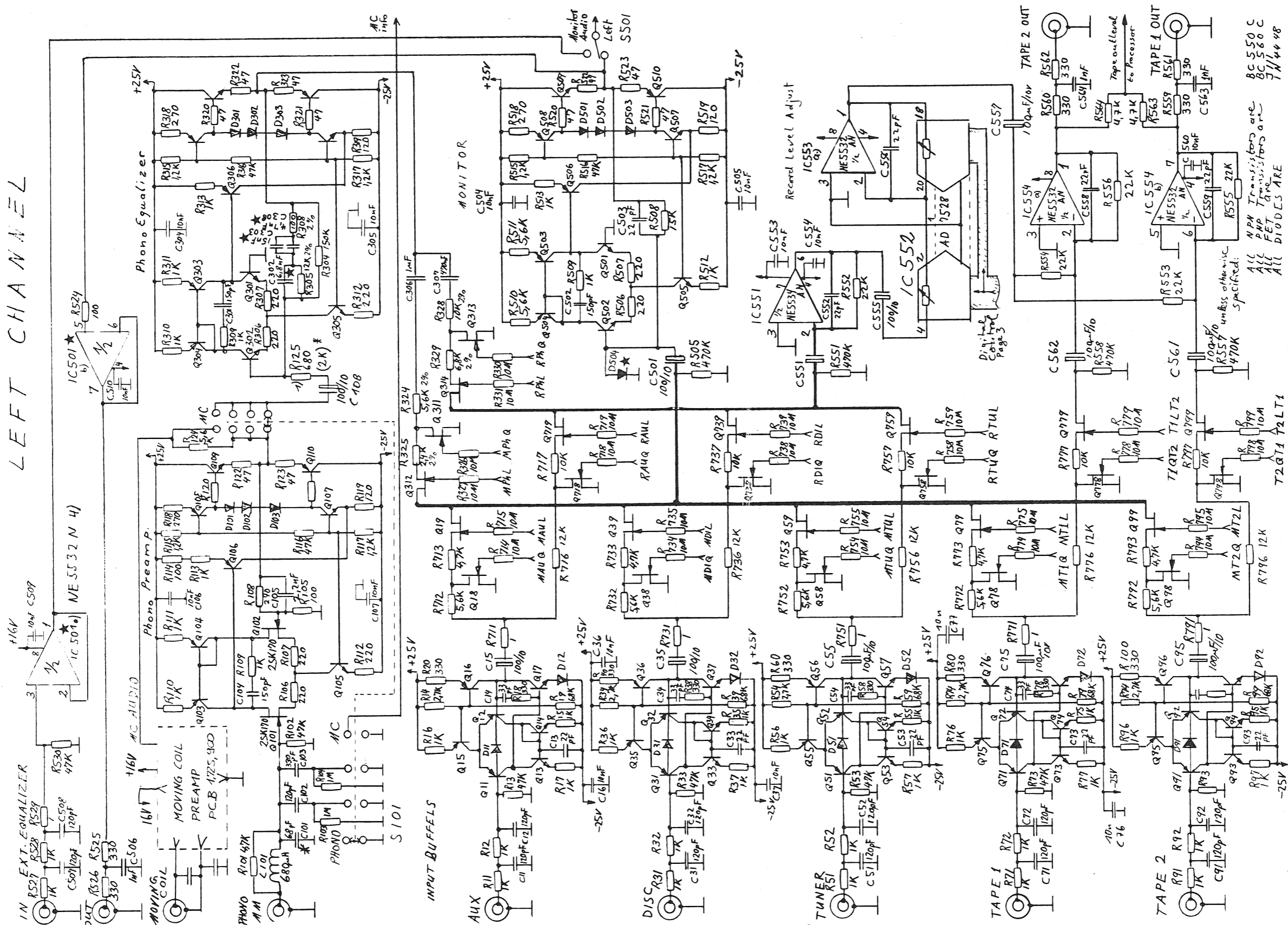
IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R.....15	57-11-4103	10 kOhm	5% 0.25W		
R.....16	57-11-4181	180 Ohm	5% 0.25W		
R.....17	57-11-4472	4.7 kOhm	5% 0.25W		
R.....18	57-11-4103	10 kOhm	5% 0.25W		
R.....19	57-11-4181	180 Ohm	5% 0.25W		
R.....20	57-11-4472	4.7 kOhm	5% 0.25W		
R.....21	57-11-4103	10 kOhm	5% 0.25W		
R.....22	57-11-4181	180 Ohm	5% 0.25W		
R.....23	57-11-4103	10 kOhm	5% 0.25W		
R.....24	57-11-4103	10 kOhm	5% 0.25W		
R.....25	57-11-4181	180 Ohm	5% 0.25W		
R.....26	57-11-4223	22 kOhm	5% 0.25W		
R.....27	57-11-4223	22 kOhm	5% 0.25W		
R.....28	57-11-4223	22 kOhm	5% 0.25W		
R.....29	57-11-4181	180 Ohm	5% 0.25W		
R.....30	57-11-4223	22 kOhm	5% 0.25W		
R.....31	57-11-4223	22 kOhm	5% 0.25W		
R.....32	57-11-4223	22 kOhm	5% 0.25W		
R.....33	57-11-4181	180 Ohm	5% 0.25W		
R.....34	57-11-4103	10 kOhm	5% 0.25W		
R.....35	57-11-4181	180 Ohm	5% 0.25W		
R.....36	57-11-4103	10 kOhm	5% 0.25W		
R.....37	57-11-4181	180 Ohm	5% 0.25W		
R.....38	57-11-4103	10 kOhm	5% 0.25W		
R.....39	57-11-4181	180 Ohm	5% 0.25W		
R.....40	57-11-4103	10 kOhm	5% 0.25W		
R.....41	57-11-4181	180 Ohm	5% 0.25W		
R.....42	57-11-4103	10 kOhm	5% 0.25W		
R.....43	57-11-4181	180 Ohm	5% 0.25W		
R.....44	57-11-4103	10 kOhm	5% 0.25W		

AUDIO BLOCKDIAGRAM



INPUT PCB 1.725.700 -00/701-00 "ESE"

LEFT CHANNEL



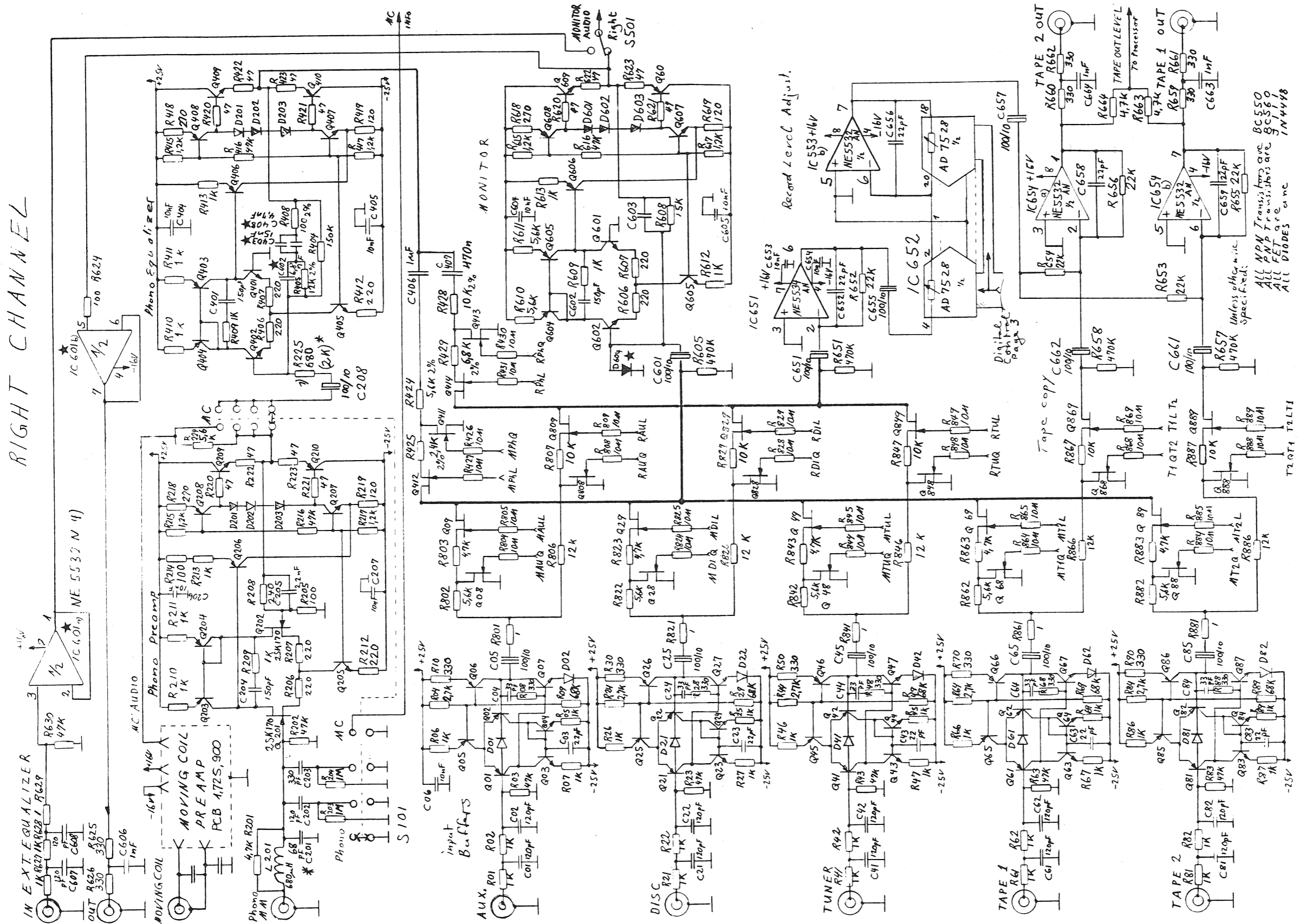
★ HAS BEEN MODIFIED

NPV Transistors are BC 550 C
 All PNP Transistors are BC 560 C
 All FET Transistors are JN 1448
 All Diodes are

6.83 He 1) For μP 1.725.720.02 change R125, 225 from 100 Ω to 2K Ω , \rightarrow 1.725.700 change to 1.725.701

26.7.83 He 15.5.84 RGR

INPUT PCB 1.725.700-00/701-00 "ESE"

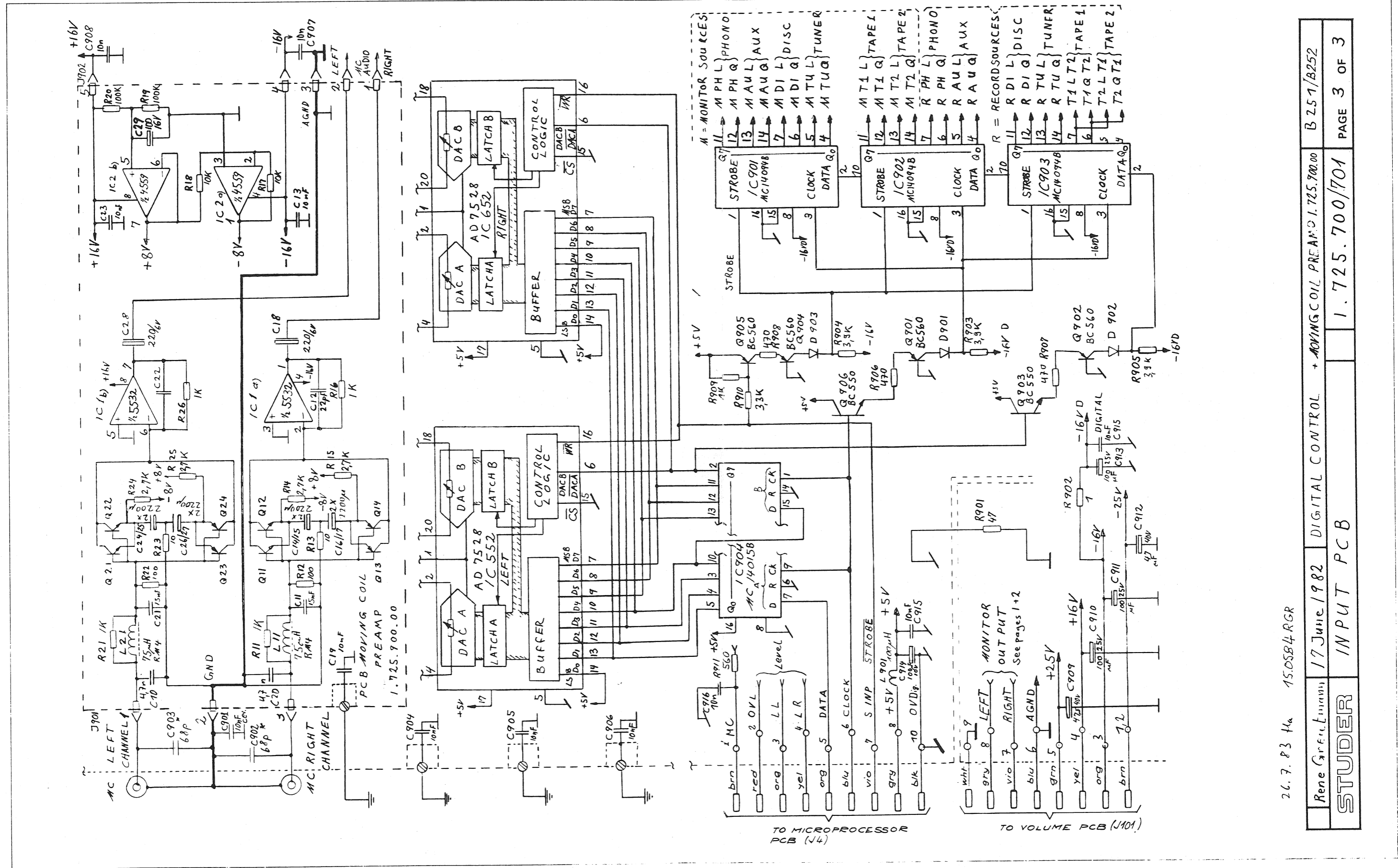


★ HAS BEEN MODIFIED

26.7.83 Ka 15.5.84 RGR

17. June 82 RGR eut m...	28. Nov. 1983 RGR eut m...	4 AUDIO RIGHT CHANNEL	AMPLIFIER X721A	B 251/B252
STUDER		INPUT PCB		PAGE 2 OF 3

INPUT PCB 1.725.700 -00/701-00 "ESE"



26.7.83 ka 15.0584RGR

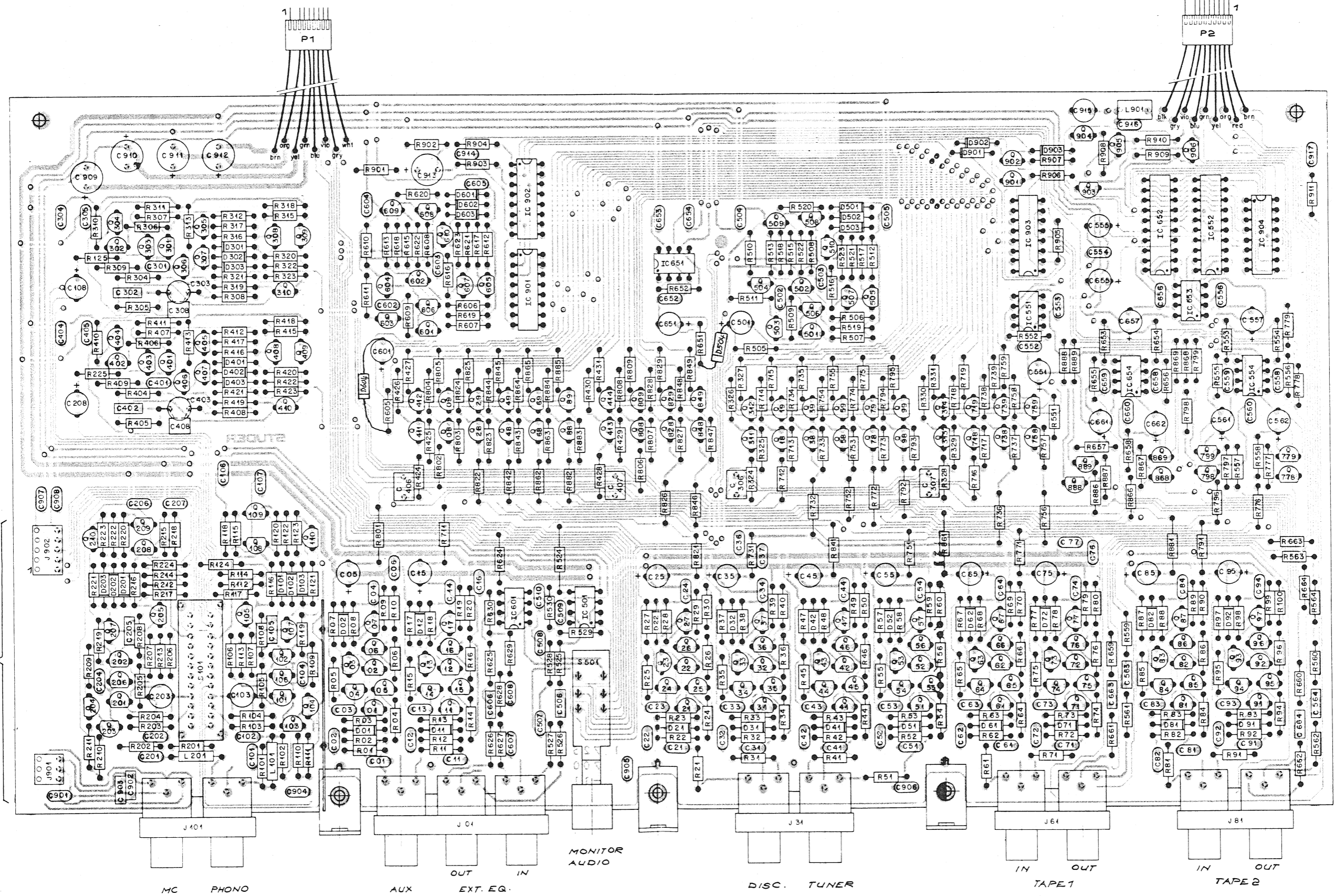
Rene Grerc. L...	17 June 1982	DIGITAL CONTROL + MOVING COIL PREAMP 1.725.700.00	B 251/B252
STUDER	INPUT PCB	1.725.700/701	PAGE 3 OF 3

INPUT PCB 1.725.700-00/701-00 "ESE"

TO VOLUME PCB (J101)

TO MICROPROCESSOR PCB (J4)

MOVING COIL PREAMPLIFIER PCB 1.725.900



INPUT PCB 1.725.700-00/701-00 "ESE"

Table with 5 columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. for pages 1, 4, 7, and 10. Contains component lists for various parts like resistors and capacitors.

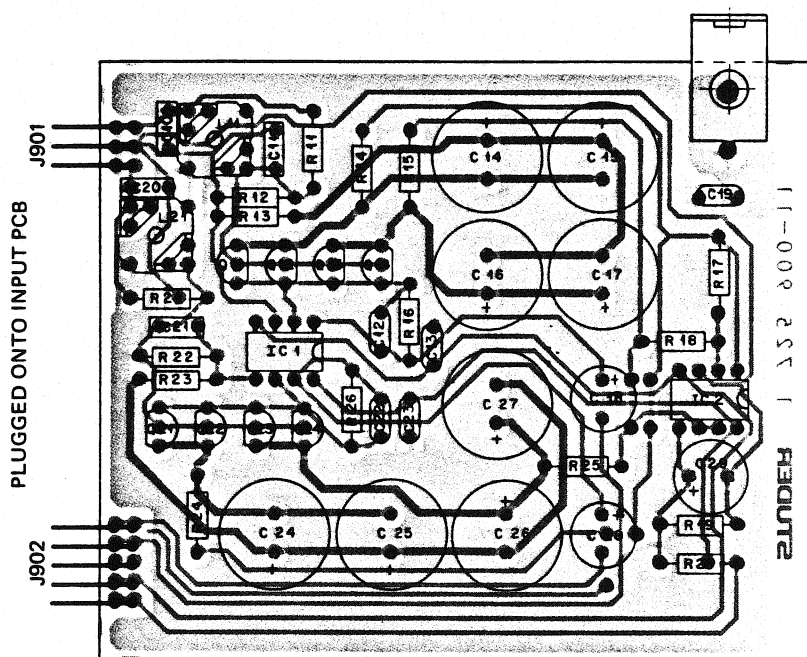
Table with 5 columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. for pages 2, 5, 8, and 11. Contains component lists including resistors, capacitors, and integrated circuits.

Table with 5 columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. for pages 3, 6, 9, and 12. Contains detailed component lists including various types of resistors, capacitors, and ICs.

INPUT PCB 1.725.700-00/701-00 "ESE"

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R...	31	57.11.4102	1 kOhm	5% 0.25W MF		R...	213	57.11.4102	1 kOhm	5% 0.25W MF		R...	608	57.11.4153	15 kOhm	5% 0.25W MF		R...	884	57.11.6106	10 MOhm	10% 0.25W CC	
R...	32	57.11.4102	1 kOhm	5% 0.25W MF		R...	214	57.11.4101	100 Ohm	5% 0.25W MF		R...	609	57.11.4102	1 kOhm	5% 0.25W MF		R...	885	57.11.6106	10 MOhm	10% 0.25W CC	
R...	33	57.11.4102	47 kOhm	5% 0.25W MF		R...	215	57.11.4122	1.2 kOhm	5% 0.25W MF		R...	610	57.11.4562	5.6 kOhm	5% 0.25W MF		R...	886	57.11.4123	12 kOhm	5% 0.25W MF	
R...	34	57.11.4272	2.7 kOhm	5% 0.25W MF		R...	216	57.11.4473	47 kOhm	5% 0.25W MF		R...	611	57.11.4562	5.6 kOhm	5% 0.25W MF		R...	887	57.11.4103	10 kOhm	5% 0.25W MF	
R...	35	57.11.4102	1 kOhm	5% 0.25W MF		R...	217	57.11.4122	1.2 kOhm	5% 0.25W MF		R...	612	57.11.4102	1 kOhm	5% 0.25W MF		R...	888	57.11.6106	10 MOhm	10% 0.25W CC	
R...	36	57.11.4102	1 kOhm	5% 0.25W MF		R...	218	57.11.4271	270 Ohm	5% 0.25W MF		R...	613	57.11.4102	1 kOhm	5% 0.25W MF		R...	889	57.11.6106	10 MOhm	10% 0.25W CC	
R...	37	57.11.4102	1 kOhm	5% 0.25W MF		R...	219	57.11.4121	120 Ohm	5% 0.25W MF		R...	615	57.11.4122	1.2 kOhm	5% 0.25W MF		R...	891	57.11.4109	1 Ohm	5% 0.25W MF	
R...	38	57.11.4331	330 Ohm	5% 0.25W MF		R...	220	57.11.4470	47 Ohm	5% 0.25W MF		R...	616	57.11.4473	47 kOhm	5% 0.25W MF		R...	892	57.11.4472	4.7 kOhm	5% 0.25W MF	
R...	39	57.11.4663	68 kOhm	5% 0.25W MF		R...	221	57.11.4662	5.6 kOhm	5% 0.25W MF		R...	617	57.11.4122	1.2 kOhm	5% 0.25W MF		R...	893	57.11.6106	10 MOhm	10% 0.25W CC	
R...	40	57.11.4331	330 Ohm	5% 0.25W MF		R...	222	57.11.4470	47 Ohm	5% 0.25W MF		R...	618	57.11.4271	270 Ohm	5% 0.25W MF		R...	894	57.11.6106	10 MOhm	10% 0.25W CC	
R...	41	57.11.4102	1 kOhm	5% 0.25W MF		R...	223	57.11.4470	47 Ohm	5% 0.25W MF		R...	619	57.11.4121	120 Ohm	5% 0.25W MF		R...	895	57.11.6106	10 MOhm	10% 0.25W CC	
R...	42	57.11.4102	1 kOhm	5% 0.25W MF		R...	224	57.11.4562	5.6 kOhm	5% 0.25W MF		R...	620	57.11.4470	47 Ohm	5% 0.25W MF		R...	896	57.11.4123	12 kOhm	5% 0.25W MF	
R...	43	57.11.4473	47 kOhm	5% 0.25W MF		R...	225	57.11.4202	2 kOhm	5% 0.25W MF		R...	621	57.11.4470	47 Ohm	5% 0.25W MF		R...	897	57.11.4103	10 kOhm	5% 0.25W MF	
R...	44	57.11.4272	2.7 kOhm	5% 0.25W MF		R...	304	57.11.4154	150 kOhm	5% 0.25W MF		R...	622	57.11.4470	47 Ohm	5% 0.25W MF		R...	898	57.11.6106	10 MOhm	10% 0.25W CC	
R...	45	57.11.4102	1 kOhm	5% 0.25W MF		R...	305	57.11.4123	12 kOhm	5% 0.25W MF		R...	623	57.11.4470	47 Ohm	5% 0.25W MF		R...	899	57.11.6106	10 MOhm	10% 0.25W CC	
R...	46	57.11.4102	1 kOhm	5% 0.25W MF		R...	306	57.11.4221	220 Ohm	5% 0.25W MF		R...	624	57.11.4101	100 Ohm	5% 0.25W MF		R...	901	57.11.4470	47 Ohm	5% 0.25W MF	
R...	47	57.11.4102	1 kOhm	5% 0.25W MF		R...	307	57.11.4221	220 Ohm	5% 0.25W MF		R...	625	57.11.4331	330 Ohm	5% 0.25W MF		R...	902	57.11.4109	1 Ohm	5% 0.25W MF	
R...	48	57.11.4331	330 Ohm	5% 0.25W MF		R...	308	57.11.4101	100 Ohm	5% 0.25W MF		R...	626	57.11.4331	330 Ohm	5% 0.25W MF		R...	903	57.11.4392	3.9 kOhm	5% 0.25W MF	
R...	49	57.11.4663	68 kOhm	5% 0.25W MF		R...	309	57.11.4102	1 kOhm	5% 0.25W MF		R...	627	57.11.4102	1 kOhm	5% 0.25W MF		R...	904	57.11.4392	3.9 kOhm	5% 0.25W MF	
R...	50	57.11.4331	330 Ohm	5% 0.25W MF		R...	310	57.11.4102	1 kOhm	5% 0.25W MF		R...	628	57.11.4102	1 kOhm	5% 0.25W MF		R...	905	57.11.4392	3.9 kOhm	5% 0.25W MF	
R...	51	57.11.4102	1 kOhm	5% 0.25W MF		R...	311	57.11.4102	1 kOhm	5% 0.25W MF		R...	629	57.11.4109	1 Ohm	5% 0.25W MF		R...	906	57.11.4471	470 Ohm	5% 0.25W MF	
R...	52	57.11.4102	1 kOhm	5% 0.25W MF		R...	312	57.11.4221	220 Ohm	5% 0.25W MF		R...	630	57.11.4473	47 kOhm	5% 0.25W MF		R...	907	57.11.4471	470 Ohm	5% 0.25W MF	
R...	53	57.11.4473	47 kOhm	5% 0.25W MF		R...	313	57.11.4102	1 kOhm	5% 0.25W MF		R...	652	57.11.4223	22 kOhm	5% 0.25W MF		R...	908	57.11.4471	470 Ohm	5% 0.25W MF	
R...	54	57.11.4272	2.7 kOhm	5% 0.25W MF		R...	315	57.11.4122	1.2 kOhm	5% 0.25W MF		R...	653	57.11.4223	22 kOhm	5% 0.25W MF		R...	909	57.11.4102	1 kOhm	5% 0.25W MF	
R...	55	57.11.4102	1 kOhm	5% 0.25W MF		R...	316	57.11.4473	47 kOhm	5% 0.25W MF		R...	654	57.11.4223	22 kOhm	5% 0.25W MF		R...	910	57.11.4102	1 kOhm	5% 0.25W MF	
R...	56	57.11.4102	1 kOhm	5% 0.25W MF		R...	317	57.11.4271	270 Ohm	5% 0.25W MF		R...	655	57.11.4223	22 kOhm	5% 0.25W MF		R...	911	57.11.4561	560 Ohm	5% 0.25W MF	
R...	57	57.11.4102	1 kOhm	5% 0.25W MF		R...	318	57.11.4271	270 Ohm	5% 0.25W MF		R...	656	57.11.4223	22 kOhm	5% 0.25W MF							
R...	58	57.11.4331	330 Ohm	5% 0.25W MF		R...	319	57.11.4121	120 Ohm	5% 0.25W MF		R...	657	57.11.4223	22 kOhm	5% 0.25W MF		S...	101	1.725.700-02	Switch		ST
R...	59	57.11.4663	68 kOhm	5% 0.25W MF		R...	320	57.11.4470	47 Ohm	5% 0.25W MF		R...	658	57.11.4474	470 kOhm	5% 0.25W MF		S...	501	55.03.0302	Switch		SW
R...	60	57.11.4331	330 Ohm	5% 0.25W MF		R...	321	57.11.4470	47 Ohm	5% 0.25W MF		R...	659	57.11.4331	330 Ohm	5% 0.25W MF							
R...	61	57.11.4102	1 kOhm	5% 0.25W MF		R...	322	57.11.4470	47 Ohm	5% 0.25W MF		R...	660	57.11.4331	330 Ohm	5% 0.25W MF							
R...	62	57.11.4102	1 kOhm	5% 0.25W MF		R...	323	57.11.4470	47 Ohm	5% 0.25W MF		R...	661	57.11.4331	330 Ohm	5% 0.25W MF							
R...	63	57.11.4473	47 kOhm	5% 0.25W MF		R...	324	57.11.4562	5.6 kOhm	5% 0.25W MF		R...	662	57.11.4331	330 Ohm	5% 0.25W MF							
R...	64	57.11.4272	2.7 kOhm	5% 0.25W MF		R...	325	57.11.4222	2.2 kOhm	5% 0.25W MF		R...	663	57.11.4562	5.6 kOhm	5% 0.25W MF							
R...	65	57.11.4102	1 kOhm	5% 0.25W MF		(00) R...	325	57.11.3262	2.4 kOhm	5% 0.25W MF		R...	664	57.11.4472	4.7 kOhm	5% 0.25W MF							
R...	66	57.11.4102	1 kOhm	5% 0.25W MF		(01) R...	326	57.11.6106	10 MOhm	10% 0.25W CC		R...	711	57.11.4109	1 Ohm	5% 0.25W MF							
R...	67	57.11.4102	1 kOhm	5% 0.25W MF		R...	327	57.11.6106	10 MOhm	10% 0.25W CC													

MOVING COIL PREAMPLIFIER PCB 1.725.900 "ESE"



SCHEMA SEE SECTION 5/23

MOVING COIL PREAMPLIFIER PCB 1.725.900 "ESE"

IND.	PDS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C....10		59.06.0472	4.7 nF	10%, 63V, PETP	
C....11		59.06.0153	15 nF	10%, 63V, PETP	
C....12		59.34.2220	22 pF	10%, 25V, Cer	
C....13		59.32.3103	10 nF	20%, 40V, Cer	
C....14		59.22.2222	2200 uF	-10%, 6V, E1	
C....15		59.22.2222	2200 uF	-10%, 6V, E1	
C....16		59.22.2222	2200 uF	-10%, 6V, E1	
C....17		59.22.2222	2200 uF	-10%, 6V, E1	
C....18		59.22.2221	220 uF	-10%, 6V, E1	
C....19		59.32.3103	10 nF	20%, 40V, Cer	
C....20		59.06.0472	4.7 nF	10%, 63V, PETP	
C....21		59.06.0153	15 nF	10%, 63V, PETP	
C....22		59.34.2220	22 pF	-10%, 25V, Cer	
C....23		59.32.3103	10 nF	20%, 40V, Cer	
C....24		59.22.2222	2200 uF	-10%, 6V, E1	
C....25		59.22.2222	2200 uF	-10%, 6V, E1	
C....26		59.22.2222	2200 uF	-10%, 6V, E1	
C....27		59.22.2222	2200 uF	-10%, 6V, E1	
C....28		59.22.2221	220 uF	-10%, 6V, E1	
C....29		59.22.4101	100 uF	-10%, 16V, E1	
IC....1		50.09.0106	NE 5532A	XR 5532AN DUAL OP AMP	Sig, Ex
IC....2		50.09.0107	RC4559NR	uPC 4559	RA, TI, NE 0
L....11		1.022.225.00	75 uH		ST
L....21		1.022.225.00	75 uH		ST
Q....11		50.03.0516	BC 337	NPN,	
Q....12		50.03.0516	BC 337	NPN,	
Q....13		50.03.0625	BC 327	PNP,	
Q....14		50.03.0625	BC 327	PNP,	
Q....21		50.03.0516	BC 337	NPN,	
Q....22		50.03.0516	BC 337	NPN,	
Q....23		50.03.0625	BC 327	PNP,	
Q....24		50.03.0625	BC 327	PNP,	
R....11		57.11.4102	1 kOhm	5%, 0.25W, MF	

S T U D E R 83/01/13 RG MOVING COIL PCB 1.725.900.00 PAGE 1

IND.	PDS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R....12		57.11.4101	100 Ohm	5%, 0.25W, MF	
R....13		57.11.4100	10 Ohm	2%, 0.25W, MF	
R....14		57.11.4272	2.7 kOhm	2%, 0.25W, MF	
R....15		57.11.4272	2.7 kOhm	2%, 0.25W, MF	
R....16		57.11.4102	1 kOhm	5%, 0.25W, MF	
R....17		57.11.4103	10 kOhm	2%, 0.25W, MF	
R....18		57.11.4103	10 kOhm	2%, 0.25W, MF	
R....19		57.11.4104	100 kOhm	5%, 0.25W, MF	
R....20		57.11.4144	100 kOhm	5%, 0.25W, MF	
R....21		57.11.4102	1 kOhm	5%, 0.25W, MF	
R....22		57.11.4101	100 Ohm	5%, 0.25W, MF	
R....23		57.11.4100	10 Ohm	2%, 0.25W, MF	
R....24		57.11.4272	2.7 kOhm	2%, 0.25W, MF	
R....25		57.11.4272	2.7 kOhm	2%, 0.25W, MF	
R....26		57.11.4102	1 kOhm	2%, 0.25W, MF	

E1=Electrolytic, Cer=Ceramic, PP=Polypropylene, PETP=Polyester,
 MF=Metal Film, CC=Carbon Composit,
 Manufacturer: NA=NATIONAL, NEC=NIPPON ELECTRIC CORP.
 RA=RAYTHEON, TI=TEXAS INSTRUMENTS

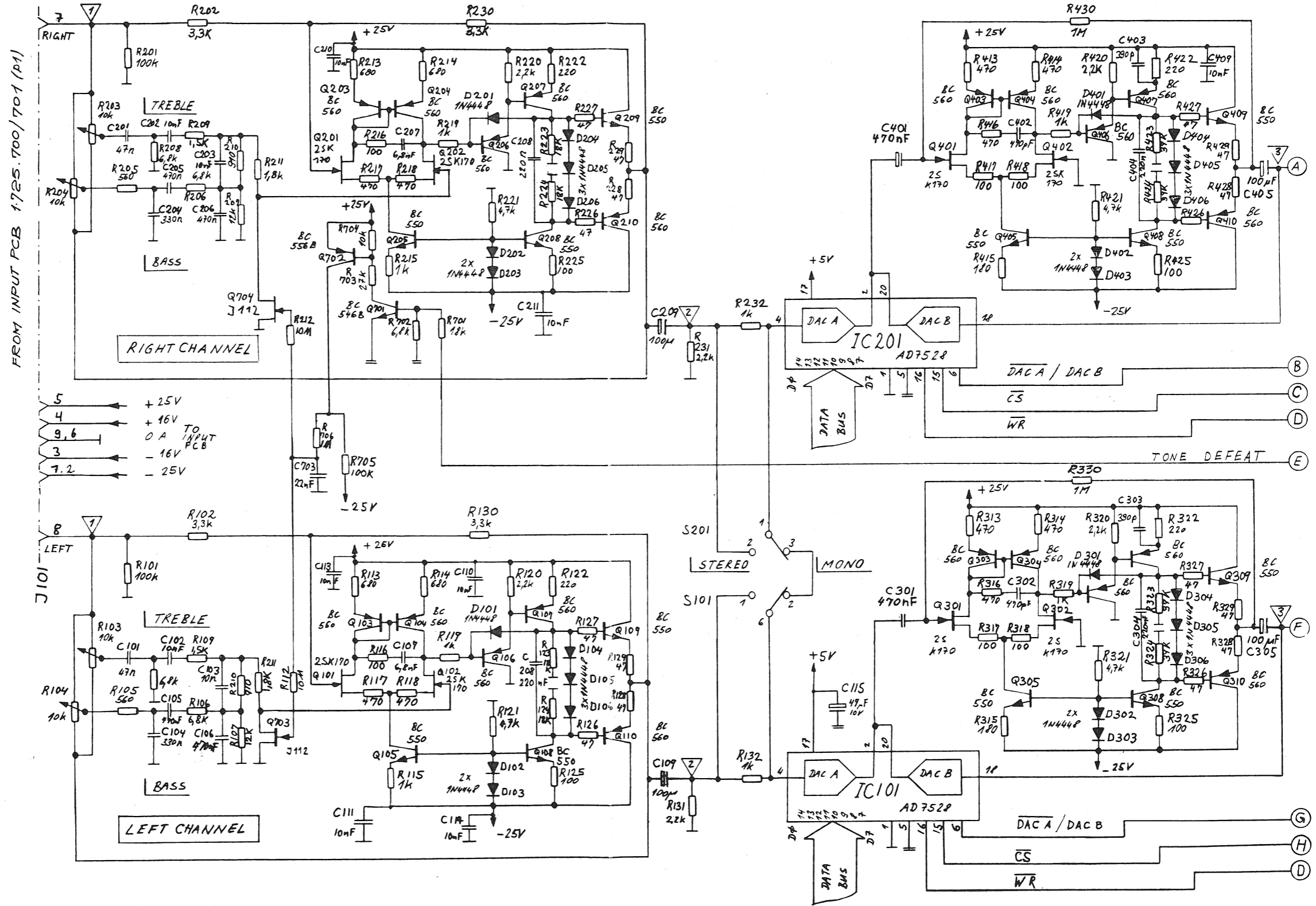
ORIG 83/01/13

S T U D E R 83/01/13 RG MOVING COIL PCB 1.725.900.00 PAGE 2

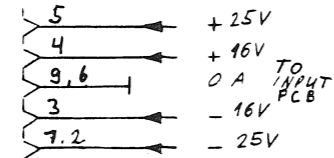
VOLUME PCB 1.725.710-00/81 "ESE"

VERSION 1.725.710-00

- C301 = 10μ
- C305 = 22μ
- C401 = 10μ
- C405 = 22μ
- R131 = 22k
- R231 = 22k
- R333 = 10M
- R335 = 10M
- R433 = 10M
- R435 = 10M

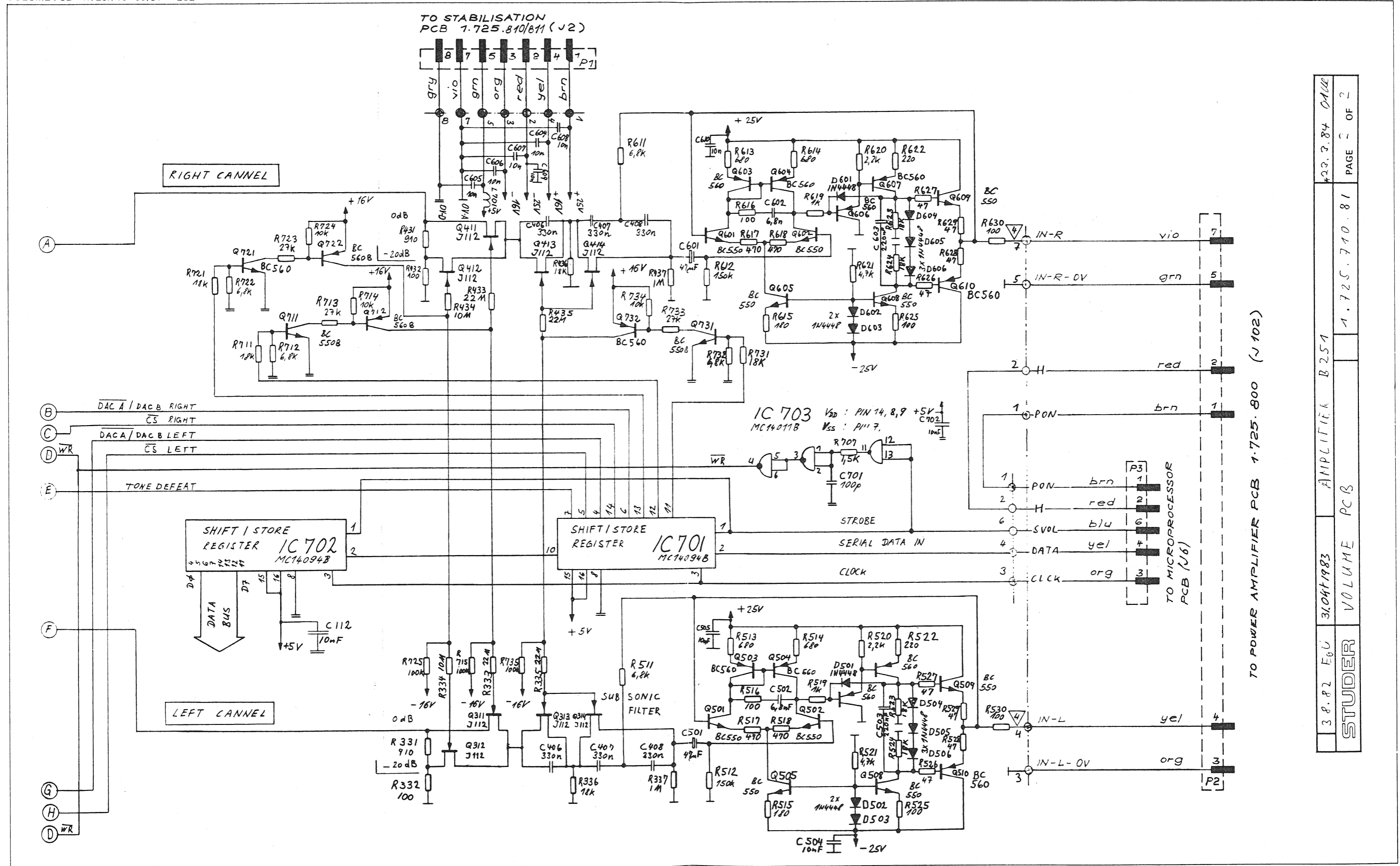


FROM INPUT PCB 1.725.700/701 (P1)



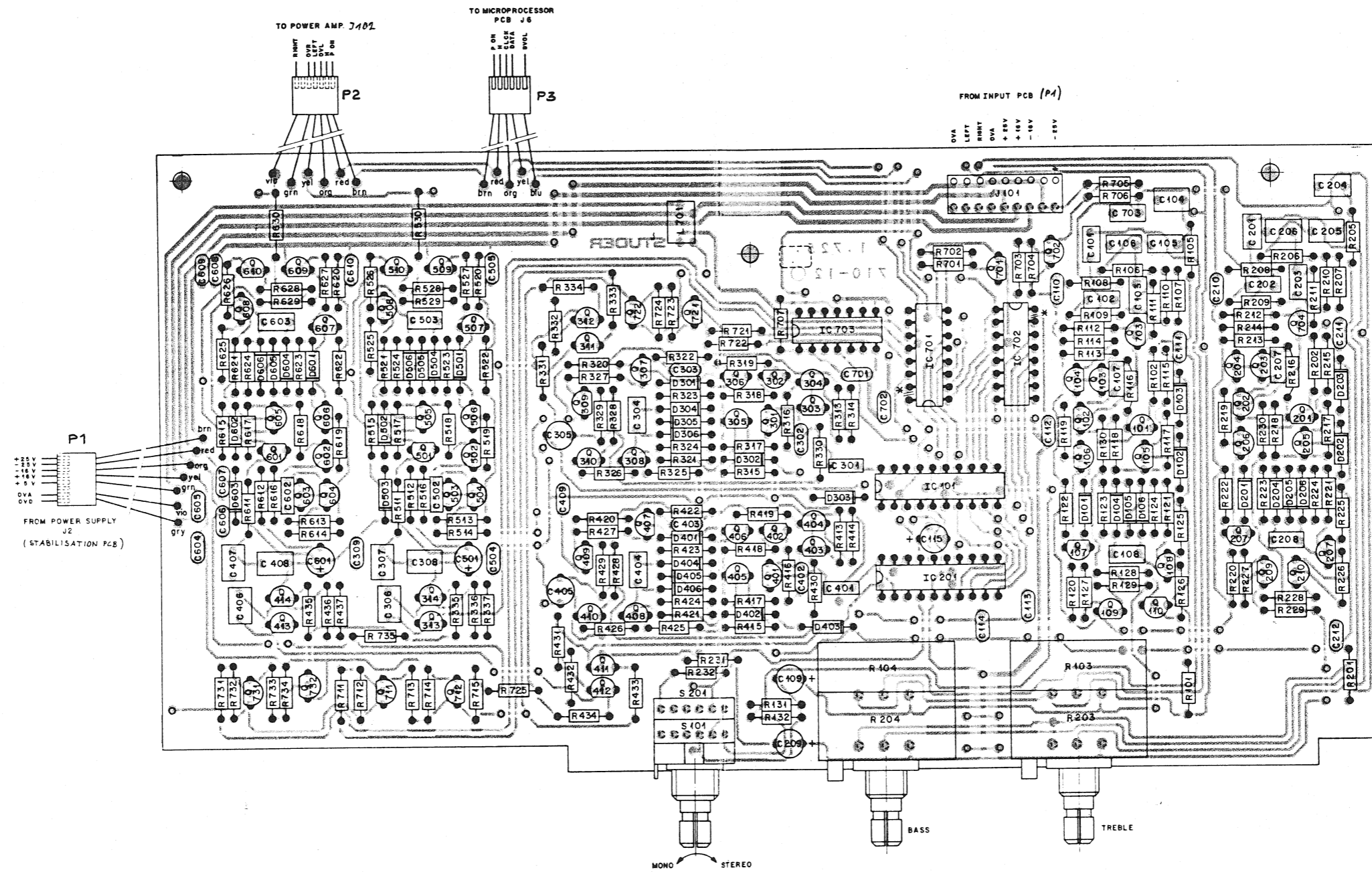
3 8 8 2 E.G. 31. Oct. 1983 Rev. AMPLIFIER B251
 STUDER VOLUME PCB
 1.725.710.81
 PAGE 1 OF 2

VOLUME PCB 1.725.710-00/81 "ESE"



3.8.82 E6U	31.04.1983	AMPLIFIER B 251	1.725.710.81	23.3.84 DAGE
STUDER		VOLUME PCB	PAGE 2	OF 2

VOLUME PCB 1.725.710-00/81 "ESE"



VOLUME PCB 1.725.710-00/81 "ESE"

Table with 4 columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. This block contains the first four columns of the parts list for pages 1, 4, 7, and 10.

S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 1 S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 4 S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 7 S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 10

Table with 4 columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. This block contains the first four columns of the parts list for pages 2, 5, 8, and 11.

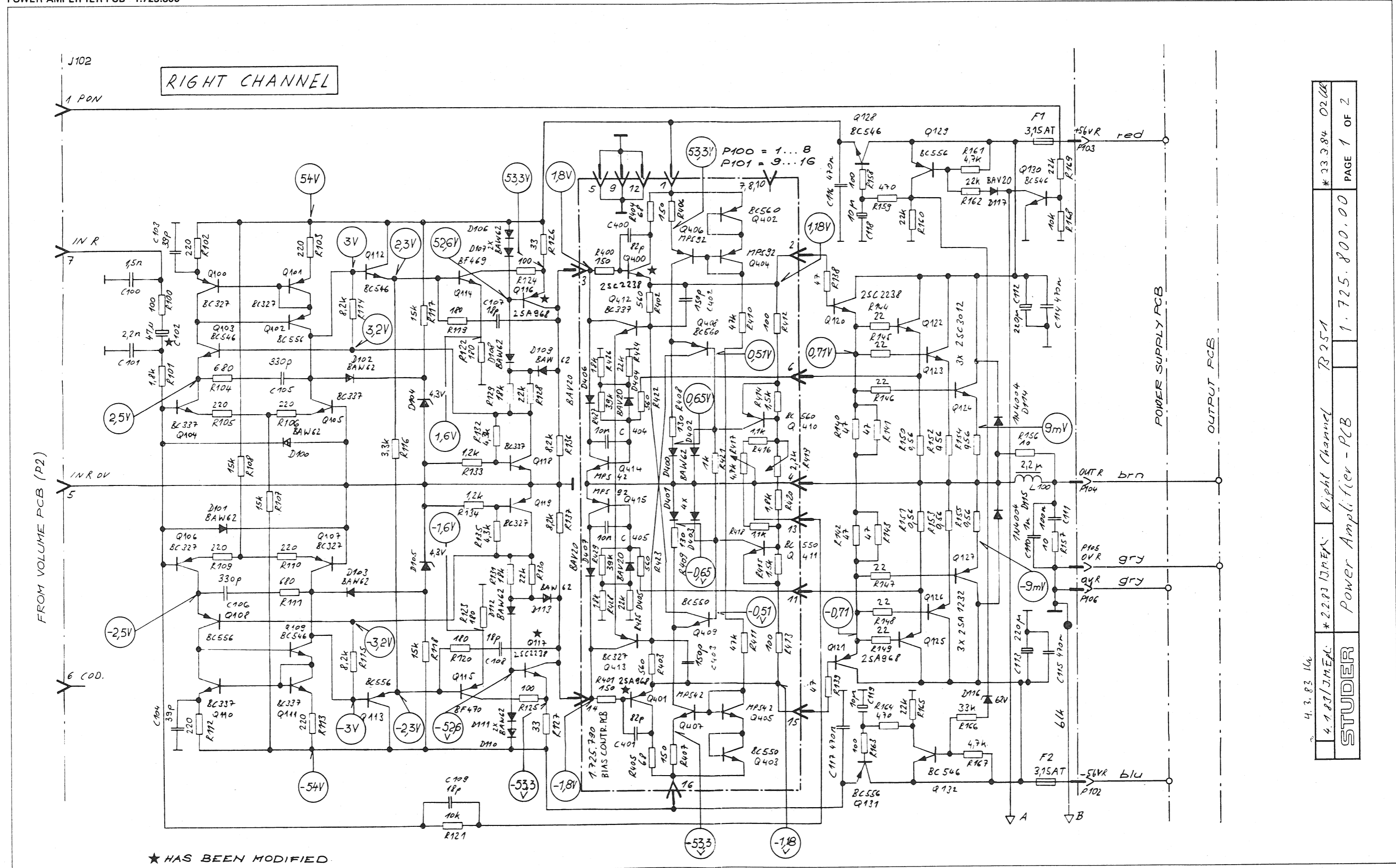
S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 2 S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 5 S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 8 S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 11

Table with 4 columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. This block contains the first four columns of the parts list for pages 3, 6, 9, and 12.

S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 3 S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 6 S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 9 S T U D E R (01) 84/03/23 UL VOLUME PCB 1.725.710-81 PAGE 12

E=Electrolytic, Cer=Ceramic, PETP=Polyester, MF=Metal Film, CC=Carbon Composites, MANUFACTURERS: AD=ANALOG DEVICES, M=MOTOROLA, N=NATIONAL, PH=PHILIPS, S=SIGNETICS, ST=STUDER, SX=SILICONIX, TO=TOSHIBA.

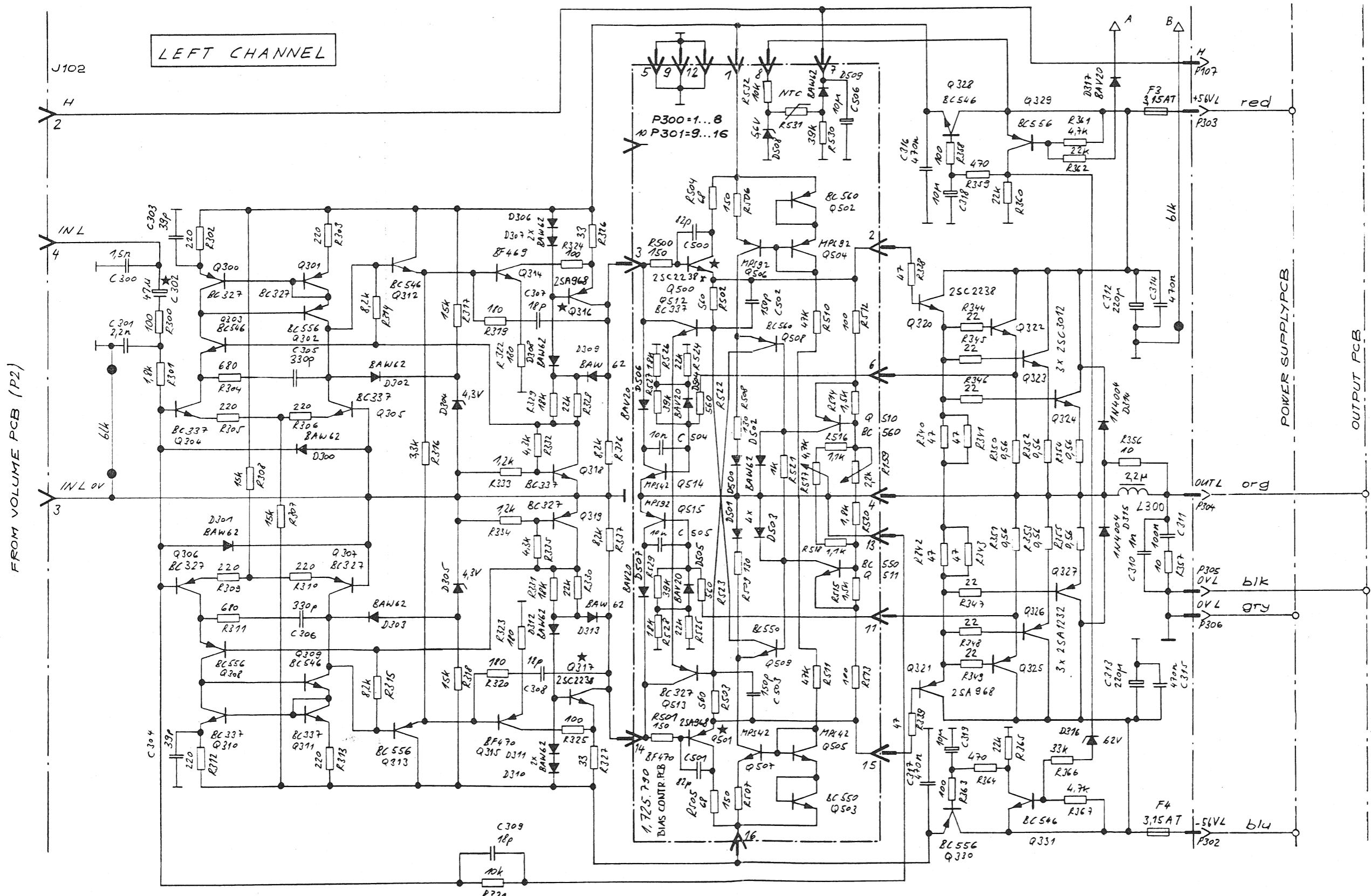
POWER AMPLIFIER PCB 1.725.800



★ HAS BEEN MODIFIED

4.1.83/J.M.E.A.	* 22.03 J.M.E.A.	Right Channel	B 251	* 23.3.84	O2.06
STUDER	Power Amplifier - PCB			1.725.800.00	PAGE 1 OF 2

POWER AMPLIFIER PCB 1.725.800



LEFT CHANNEL

FROM VOLUME PCB (P2)

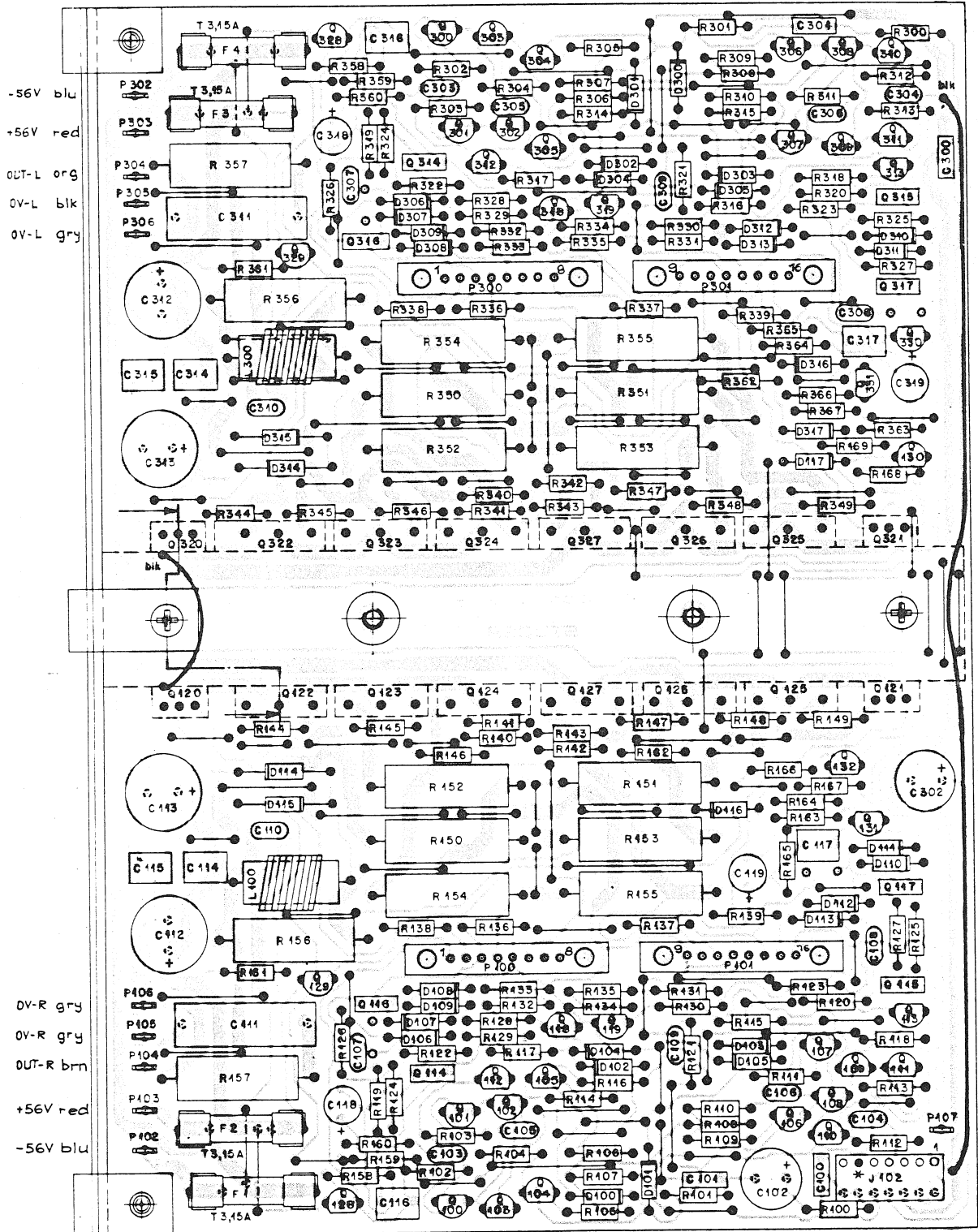
POWER SUPPLY PCB

OUTPUT PCB

★ HAS BEEN MODIFIED

4.1.83 / J.M.F.A.	* 2.2.83 / JHEX - Left Channel B251	* 23.3.84 02.2P
STUDER	Power Amplifier - PCB	PAGE 2 OF 2
4.3.83 Hg	1.725.800.00	

POWER AMPLIFIER PCB 1.725.800



SCHEMA SEE SECTION 5/33, 5/34

POWER AMPLIFIER PCB 1.725.800

Table with columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., QTY., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. (Rows 1-100)

S T U D E R (02) 84/03/23 UL POWER AMPLIFIER PCB 1.725.800.00 PAGE 1 S T U D E R (02) 84/03/23 UL POWER AMPLIFIER PCB 1.725.800.00 PAGE 4

Table with columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., QTY., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. (Rows 101-200)

S T U D E R (02) 84/03/23 UL POWER AMPLIFIER PCB 1.725.800.00 PAGE 7

Table with columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., QTY., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. (Rows 201-300)

S T U D E R (02) 84/03/23 UL POWER AMPLIFIER PCB 1.725.800.00 PAGE 2 S T U D E R (02) 84/03/23 UL POWER AMPLIFIER PCB 1.725.800.00 PAGE 5

Table with columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., QTY., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. (Rows 301-400)

S T U D E R (02) 84/03/23 UL POWER AMPLIFIER PCB 1.725.800.00 PAGE 8

Table with columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., QTY., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. (Rows 401-500)

S T U D E R (02) 84/03/23 UL POWER AMPLIFIER PCB 1.725.800.00 PAGE 3 S T U D E R (02) 84/03/23 UL POWER AMPLIFIER PCB 1.725.800.00 PAGE 6

Table with columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF., QTY., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. (Rows 501-600)

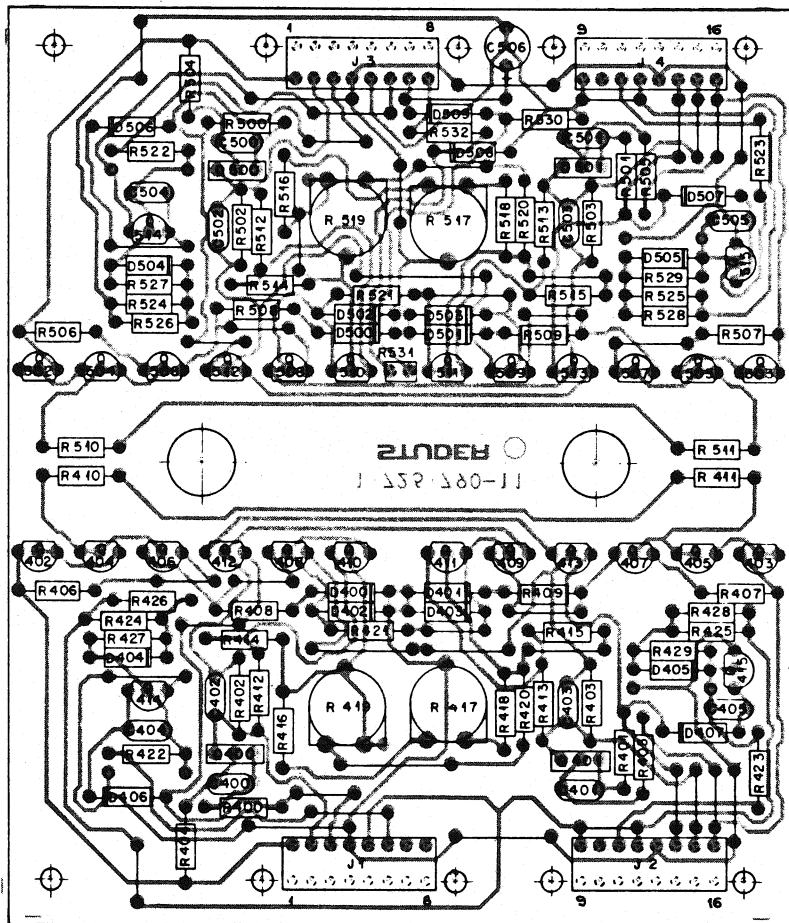
S T U D E R (02) 84/03/23 UL POWER AMPLIFIER PCB 1.725.800.00 PAGE 9

MF:Metallfilm Cer:Ceramic Pcp:Polyester El:Electrolytic Pme:Metallised Polyester MANUFACTURER: ITT=Intermetall, Sier=Siemens, Stp=Studer, To=Toshiba

DRIG 83/01/10 (01) 83/02/16 (02) 84/03/23

BIAS CONTROL PCB 1.725.790

BIAS CONTROL	POWER AMPLIFIER
J1	→ P100
J2	→ P101
J3	→ P303
J4	→ P301



PLUGGED ONTO POWER AMPLIFIER PCB 1.725.800

SCHEMA SEE SECTION 5/33, 5/34

BIAS CONTROL PCB 1.725.790

IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C...	400	59.34.4820	82 pF	5% ± 63V ± Cer	
C...	401	59.34.4820	82 pF	5% ± 63V ± Cer	
C...	402	59.34.4151	150 pF	5% ± 63V ± Cer	
C...	403	59.34.4151	150 pF	5% ± 63V ± Cer	
C...	404	59.32.3103	10 nF	10% ± 63V ± Cer	
C...	405	59.34.4820	82 pF	5% ± 63V ± Cer	
C...	500	59.34.4820	82 pF	5% ± 63V ± Cer	
C...	501	59.34.4151	150 pF	5% ± 63V ± Cer	
C...	502	59.34.4151	150 pF	5% ± 63V ± Cer	
C...	503	59.34.4151	150 pF	5% ± 63V ± Cer	
C...	504	59.32.3103	10 nF	10% ± 63V ± Cer	
C...	505	59.32.3103	10 nF	10% ± 63V ± Cer	
C...	506	59.22.6100	10 pF	-20% ± 35V ± E1	
D...	400	50.04.0132	BAM 62		
D...	401	50.04.0132	BAM 62		
D...	402	50.04.0132	BAM 62		
D...	403	50.04.0132	BAM 62		
D...	404	50.04.0133	BAV 20	Ur=120V	
D...	405	50.04.0133	BAV 20	Ur=120V	
D...	406	50.04.0133	BAV 20	Ur=120V	
D...	407	50.04.0133	BAV 20	Ur=120V	
D...	500	50.04.0132	BAM 62		
D...	501	50.04.0132	BAM 62		
D...	502	50.04.0132	BAM 62		
D...	503	50.04.0132	BAM 62		
D...	504	50.04.0133	BAV 20	Ur=120V	
D...	505	50.04.0133	BAV 20	Ur=120V	
D...	506	50.04.0133	BAV 20	Ur=120V	
D...	507	50.04.0133	BAV 20	Ur=120V	
D...	508	50.04.1108	5 pF	Z ± 0.5M	
D...	509	50.04.0132	BAM 62		
J...	401	54.01.0262	8-Pole	Cis Socket Strip	St
J...	402	54.01.0262	8-Pole	Cis Socket Strip	St
J...	403	54.01.0262	8-Pole	Cis Socket Strip	St
J...	404	54.01.0262	8-Pole	Cis Socket Strip	St

STUDER 83/02/16 AM BIAS CONTROL PCB 1.725.790.00 PAGE 1

IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R...	429	57.11.4393	39 kOhm	5% ± 0.25W ± MF	
R...	500	57.11.4151	150 Ohm	5% ± 0.25W ± MF	
R...	501	57.11.4151	150 Ohm	5% ± 0.25W ± MF	
R...	502	57.11.4561	560 Ohm	2% ± 0.25W ± MF	
R...	503	57.11.4561	560 Ohm	2% ± 0.25W ± MF	
R...	504	57.11.4680	68 Ohm	5% ± 0.25W ± MF	
R...	505	57.11.4680	68 Ohm	5% ± 0.25W ± MF	
R...	506	57.11.4151	150 Ohm	2% ± 0.25W ± MF	
R...	507	57.11.4151	150 Ohm	2% ± 0.25W ± MF	
R...	508	57.11.3131	130 Ohm	2% ± 0.25W ± MF	
R...	509	57.11.3131	130 Ohm	2% ± 0.25W ± MF	
R...	510	57.11.4473	47 kOhm	5% ± 0.25W ± MF	
R...	511	57.11.4473	47 kOhm	5% ± 0.25W ± MF	
R...	512	57.11.4101	100 Ohm	2% ± 0.25W ± MF	
R...	513	57.11.4101	100 Ohm	2% ± 0.25W ± MF	
R...	514	57.11.4152	1.5 kOhm	2% ± 0.25W ± MF	
R...	515	57.11.4152	1.5 kOhm	2% ± 0.25W ± MF	
R...	516	57.11.3112	1.1 kOhm	2% ± 0.25W ± MF	
R...	517	58.02.5472	4.7 kOhm	20% ± 0.1W ± Tin	
R...	518	57.11.3112	1.1 kOhm	2% ± 0.25W ± MF	
R...	519	58.02.5222	2.2 kOhm	20% ± 0.1W ± Tin	
R...	520	57.11.4182	1.8 kOhm	5% ± 0.25W ± MF	
R...	521	57.11.4102	1 kOhm	2% ± 0.25W ± MF	
R...	522	57.11.4561	560 Ohm	5% ± 0.25W ± MF	
R...	523	57.11.4561	560 Ohm	5% ± 0.25W ± MF	
R...	524	57.11.4223	22 kOhm	5% ± 0.25W ± MF	
R...	525	57.11.4223	22 kOhm	5% ± 0.25W ± MF	
R...	526	57.11.4183	1.8 kOhm	5% ± 0.25W ± MF	
R...	527	57.11.4393	39 kOhm	5% ± 0.25W ± MF	
R...	528	57.11.4183	1.8 kOhm	5% ± 0.25W ± MF	
R...	529	57.11.4393	39 kOhm	5% ± 0.25W ± MF	
R...	530	57.11.4393	39 kOhm	5% ± 0.25W ± MF	
R...	531	57.99.0220	MTC	100 C / 16.7 kOhm ± 2322640 90005 Ph	
R...	532	57.11.4103	10 kOhm	5% ± 0.25W ± MF	

STUDER 83/02/16 AM BIAS CONTROL PCB 1.725.790.00 PAGE 4

IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
Q...	400	50.03.0526	BF 469	NPN	Sie
Q...	401	50.03.0776	SC2238	NPN	To
Q...	402	50.03.0353	BF 470	PNP	Sie
Q...	403	50.03.0801	SA 968	PNP	To
Q...	404	50.03.0496	BC 560	PNP	Sie
Q...	405	50.03.0497	BC 550	NPN	Sie
Q...	406	50.03.0485	MPS 92A	PNP	Fc+Mot
Q...	407	50.03.0484	MPS 42A	NPN	Fc+Mot
Q...	408	50.03.0496	BC 560	PNP	Fc+Mot
Q...	409	50.03.0497	BC 550	NPN	Sie
Q...	410	50.03.0496	BC 560	PNP	Sie
Q...	411	50.03.0497	RV 550	NPN	Sie
Q...	412	50.03.0340	BC 337-25	NPN	Sie+Mot
Q...	413	50.03.0351	BC 327-25	PNP	Sie+Mot
Q...	414	50.03.0484	MPS 42A	NPN	Fc+Mot
Q...	415	50.03.0485	MPS 92A	PNP	Fc+Mot
Q...	500	50.03.0526	BF 469	NPN	Sie
Q...	501	50.03.0776	SC2238	NPN	To
Q...	502	50.03.0353	BF 470	PNP	Sie
Q...	503	50.03.0801	SA968	PNP	To
Q...	504	50.03.0496	BC 560	PNP	Sie
Q...	505	50.03.0497	BC 550	NPN	Sie
Q...	506	50.03.0485	MPS 92A	PNP	Fc+Mot
Q...	507	50.03.0484	MPS 42A	NPN	Fc+Mot
Q...	508	50.03.0496	BC 560	PNP	Sie

STUDER 83/02/16 AM BIAS CONTROL PCB 1.725.790.00 PAGE 2

IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
M...	400	57.11.4151	150 Ohm	5% ± 0.25W ± MF	
M...	401	57.11.4151	150 Ohm	5% ± 0.25W ± MF	
M...	402	57.11.4561	560 Ohm	2% ± 0.25W ± MF	
M...	403	57.11.4561	560 Ohm	2% ± 0.25W ± MF	
M...	404	57.11.4680	68 Ohm	5% ± 0.25W ± MF	
M...	405	57.11.4680	68 Ohm	5% ± 0.25W ± MF	
M...	406	57.11.4151	150 Ohm	2% ± 0.25W ± MF	
M...	407	57.11.4151	150 Ohm	2% ± 0.25W ± MF	
M...	408	57.11.3131	130 Ohm	2% ± 0.25W ± MF	
M...	409	57.11.3131	130 Ohm	2% ± 0.25W ± MF	
M...	410	57.11.4473	47 kOhm	5% ± 0.25W ± MF	
M...	411	57.11.4473	47 kOhm	5% ± 0.25W ± MF	
M...	412	57.11.4101	100 Ohm	2% ± 0.25W ± MF	
M...	413	57.11.4101	100 Ohm	2% ± 0.25W ± MF	
M...	414	57.11.4152	1.5 kOhm	2% ± 0.25W ± MF	
M...	415	57.11.4152	1.5 kOhm	2% ± 0.25W ± MF	
M...	416	57.11.3112	1.1 kOhm	2% ± 0.25W ± MF	
M...	417	58.02.5472	4.7 kOhm	20% ± 0.1W ± Tin	
M...	418	57.11.3112	1.1 kOhm	2% ± 0.25W ± MF	
M...	419	58.02.5222	2.2 kOhm	20% ± 0.1W ± Tin	
M...	420	57.11.4182	1.8 kOhm	5% ± 0.25W ± MF	
M...	421	57.11.4102	1 kOhm	2% ± 0.25W ± MF	
M...	422	57.11.4561	560 Ohm	5% ± 0.25W ± MF	
M...	423	57.11.4561	560 Ohm	5% ± 0.25W ± MF	
M...	424	57.11.4223	22 kOhm	5% ± 0.25W ± MF	
M...	425	57.11.4223	22 kOhm	5% ± 0.25W ± MF	
M...	426	57.11.4183	1.8 kOhm	5% ± 0.25W ± MF	
M...	427	57.11.4393	39 kOhm	5% ± 0.25W ± MF	
M...	428	57.11.4183	1.8 kOhm	5% ± 0.25W ± MF	

STUDER 83/02/16 AM BIAS CONTROL PCB 1.725.790.00 PAGE 5

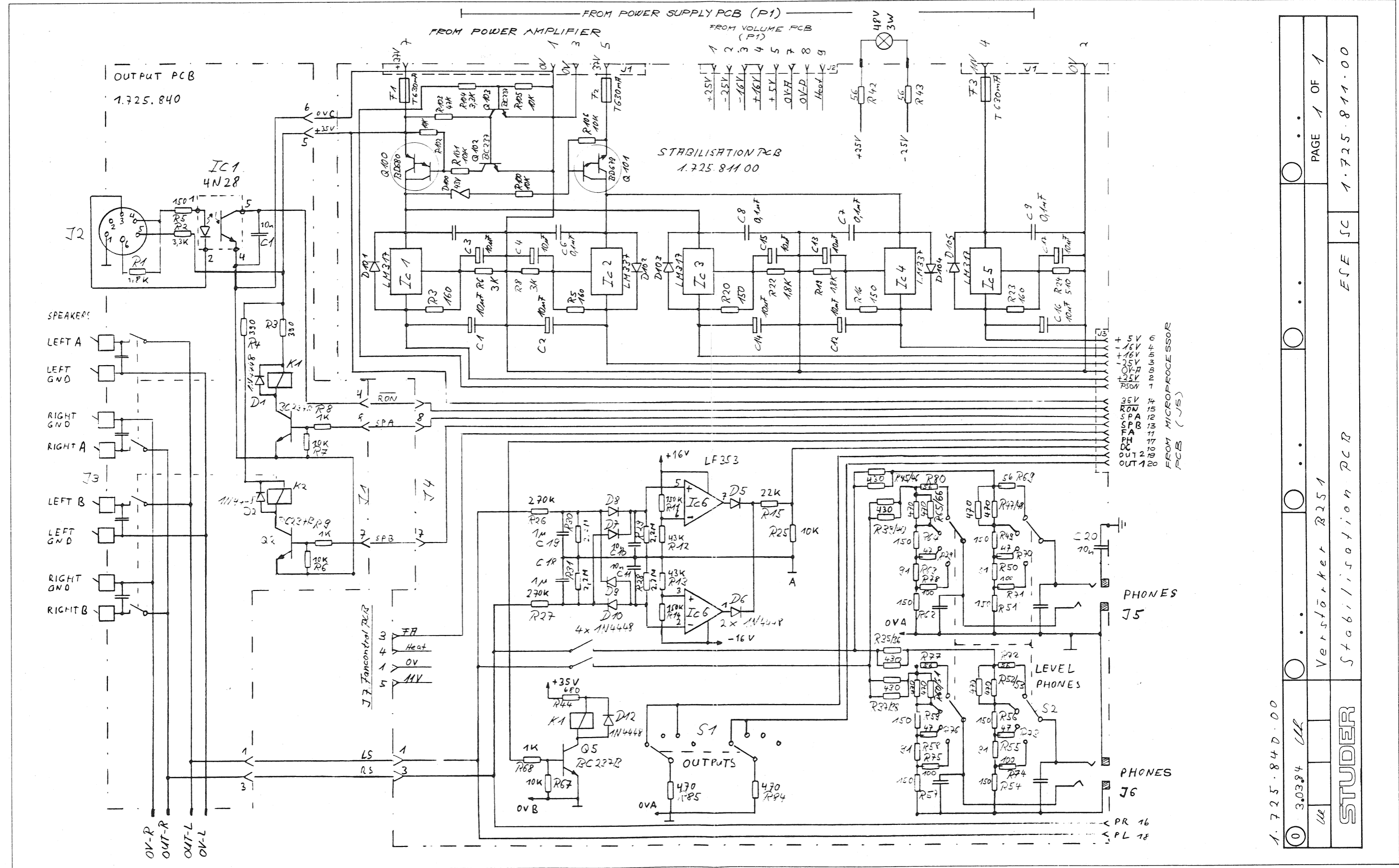
IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
U...	509	50.03.0497	uC 550	PNP	Sie
U...	510	50.03.0496	uC 560	PNP	Sie
U...	511	50.03.0497	RV 550	PNP	Sie
U...	512	50.03.0340	uC 337-25	PNP	Sie+Mot
U...	513	50.03.0351	uC 327-25	PNP	Sie+Mot
U...	514	50.03.0484	MPS 42A	NPN	Fc+Mot
U...	515	50.03.0485	MPS 92A	PNP	Fc+Mot

STUDER 83/02/16 AM BIAS CONTROL PCB 1.725.790.00 PAGE 3

M=Metalfilm
Cer=Ceramic
El=Electrolytic
MANUFACTURER: Ph=Philips, Sie=Siemens, Fc=Fairchild, Mot=Motorola
St=Studer

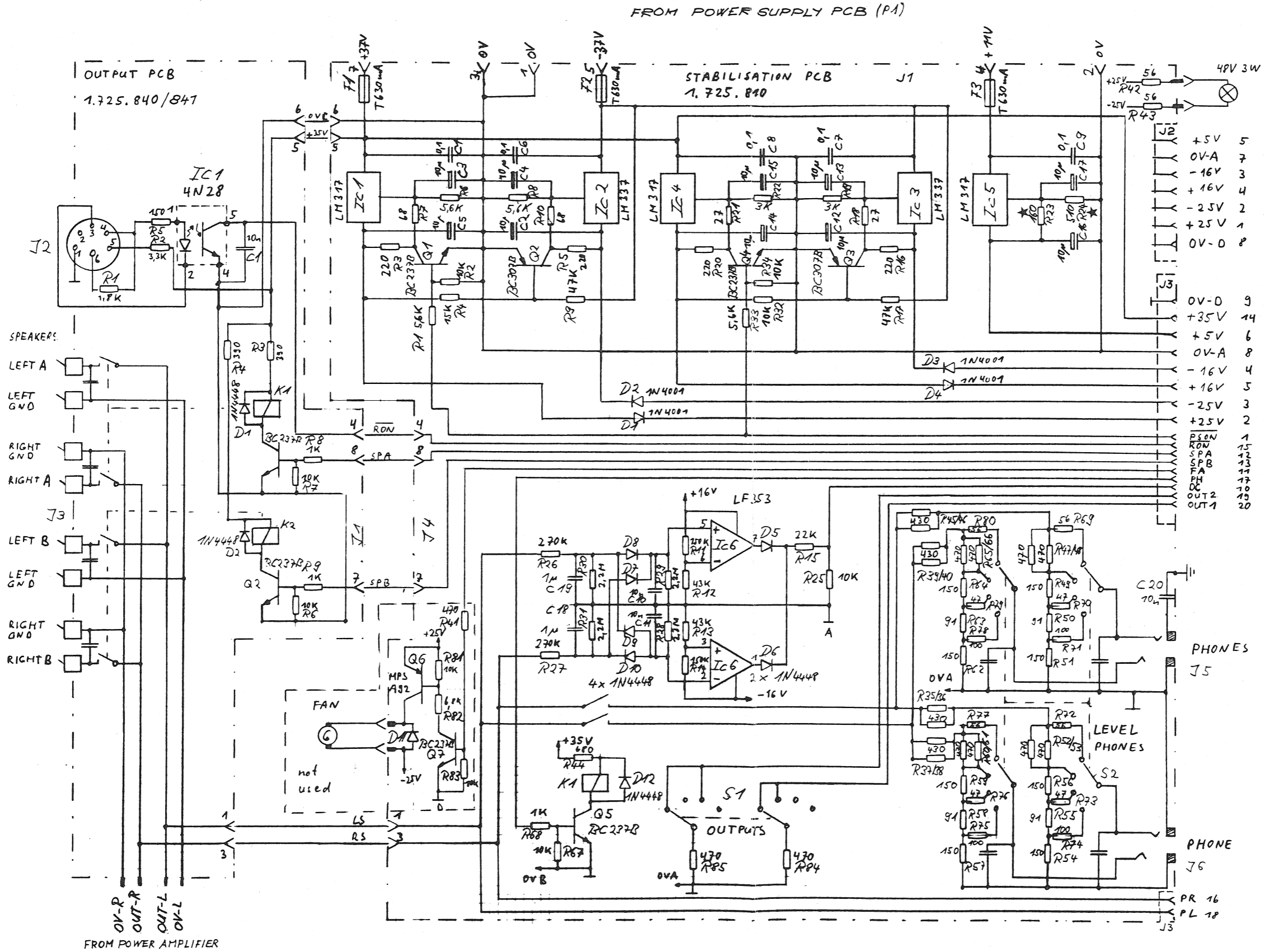
ORIG 83/01/11 (01) 83/02/16

STABILISATION PCB 1.725.811-00 "ESE"



- + 5V 0
- + 16V 1
- + 25V 2
- 0V-C 3
- 0V-L 4
- 0V-B 5
- FROM MICROPROCESSOR PCB (J5) 6
- 35V 7
- RON 8
- SPA 9
- SPB 10
- FA 11
- PH 12
- DC 13
- OUT 2 14
- OUT 1 15

STABILISATION PCB 1.725.810-00 "ESE"

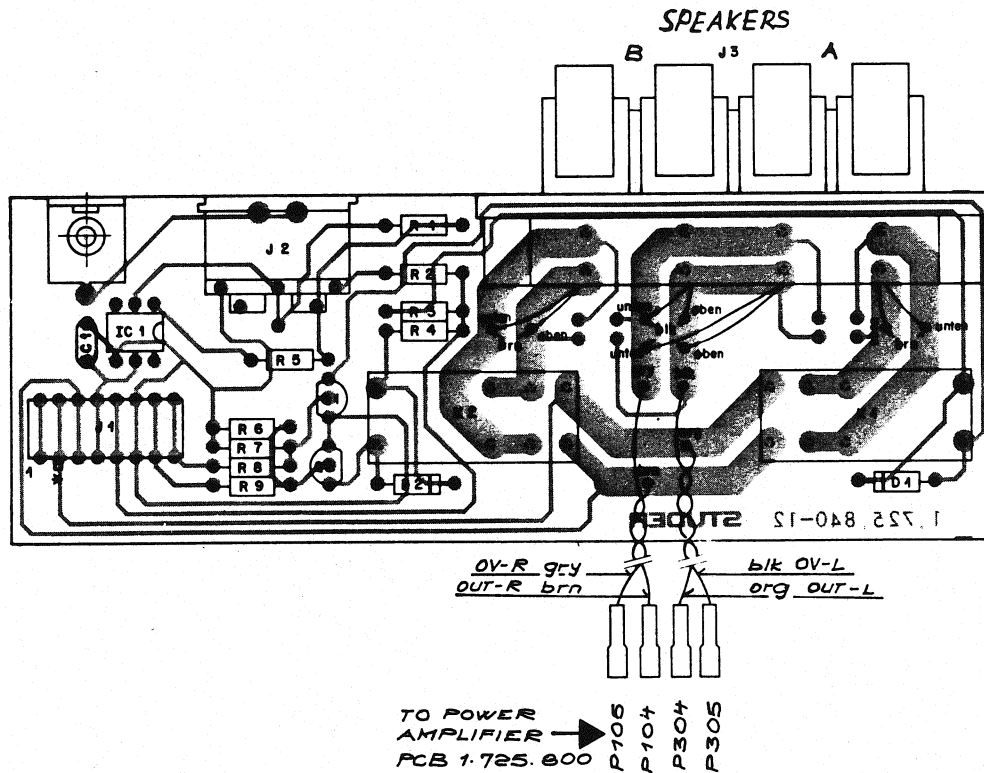


+	5V	5	FROM VOLUME PCB (P1)
+	0V-A	4	
+	-16V	3	
+	+16V	4	
+	-25V	2	
+	+25V	1	
+	0V-D	8	
+	0V-D	9	
+	+35V	14	
+	+5V	6	
+	0V-A	8	
+	-16V	4	
+	+16V	5	
+	-25V	2	
+	+25V	2	
+	0V-A	1	
+	0V-A	1	
+	0V-A	1	
+	0V-A	1	
+	0V-A	1	
+	0V-A	1	
+	0V-A	1	
+	0V-A	1	
+	0V-A	1	
+	0V-A	1	

1) 7. 6. 83 Mw

AMPLIFIER B 251	PAGE	OF
STABILISATION / OUTPUTS		

OUTPUT PCB 1.725.840



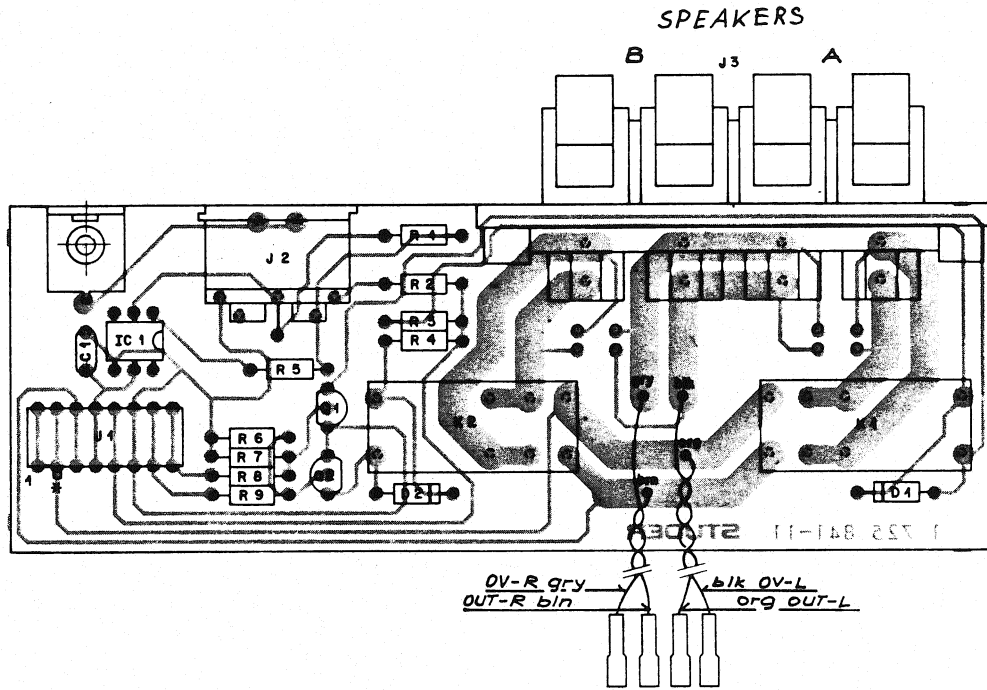
IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C.....1		55.32.3103	10 nF	-20%, 40V	CFR
D.....1		50.04.0125	1N4448		any
D.....2		50.04.0125	1N4448		any
IC.....1		50.99.0126	4N26	Opto-Coupler	INT
J.....1		54.01.0306	8PDL	CIS-socket-strip	
J.....2		54.20.2001	6PDL	Stereo Print	
J.....3		53.05.0119	6PDL	Speakers Connector	
K.....1		56.01.0120	2A	220V/4A	
K.....2		56.01.0120	2A	220V/4A	
R.....1		57.11.4102	18 kOhm	5%, 0.25W	
R.....2		57.11.4332	3.3 kOhm	5%, 0.25W	
R.....3		57.11.4391	390 Ohm	5%, 0.25W	
R.....4		57.11.4391	390 Ohm	5%, 0.25W	
R.....5		57.11.4151	150 Ohm	5%, 0.25W	
R.....6		57.11.4103	10 kOhm	5%, 0.25W	
R.....7		57.11.4103	10 kOhm	5%, 0.25W	
R.....8		57.11.4102	1 kOhm	5%, 0.25W	
R.....9		57.11.4102	1 kOhm	5%, 0.25W	
Q.....1		50.03.0436	BC237P	BC547B/BC550B	STE, MNT
Q.....2		50.03.0436	BC237P	BC547B/BC550B	STE, MNT

EI=Electrolytic, CER=Ceramic, PETP=Polyester,
 MANUFACTURER: TI=Texas Instruments, Mot=Motorola

ORIG 82/12/DB
 S T U D E R 83/01/18 UL OUTPUT PCB 1.725.840.00 PAGE 1

SCHEMA SEE SECTION 5/39

OUTPUT PCB 1.725.841



INC.	PCS-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C.....1		55.32.3103	10 nF	-20%, 40V	CER
D.....1		50.C4.0125	1N4448		any
D.....2		50.C4.0125	1N4448		any
IC.....1		50.99.0126	4N26	Cpto-Coupler	MOT
J.....1		54.C1.0306	8POL	CIS-socket-strip	
J.....2		54.20.2001	6POL	Stereo Print	
J.....3		53.C5.0119	8POL	Speakers Connector	
K.....1		56.C1.012C	2A	220V/4A	
K.....2		56.C1.012C	2A	220V/4A	
R.....1		57.11.4182	1,8 kOhm	5%, 0.25W	
R.....2		57.11.4332	3,3 kOhm	5%, 0.25W	
R.....3		57.11.4391	390 Ohm	5%, 0.25W	
R.....4		57.11.4391	390 Ohm	5%, 0.25W	
R.....5		57.11.4151	150 Ohm	5%, 0.25W	
R.....6		57.11.4103	10 kOhm	5%, 0.25W	
R.....7		57.11.4103	10 kOhm	5%, 0.25W	
R.....8		57.11.4102	1 kOhm	5%, 0.25W	
R.....9		57.11.4102	1 kOhm	5%, 0.25W	
Q.....1		50.C3.0436	BC237B	BC547B/BC550B	SIE-MOT
Q.....2		50.C3.0436	BC237B	BC547B/BC550B	SIE-MOT

E1=Electrolytic, CER=Ceramic, PETP=Polyester,
 MANUFACTURER: TI=Texas Instruments, Mot=Motorola

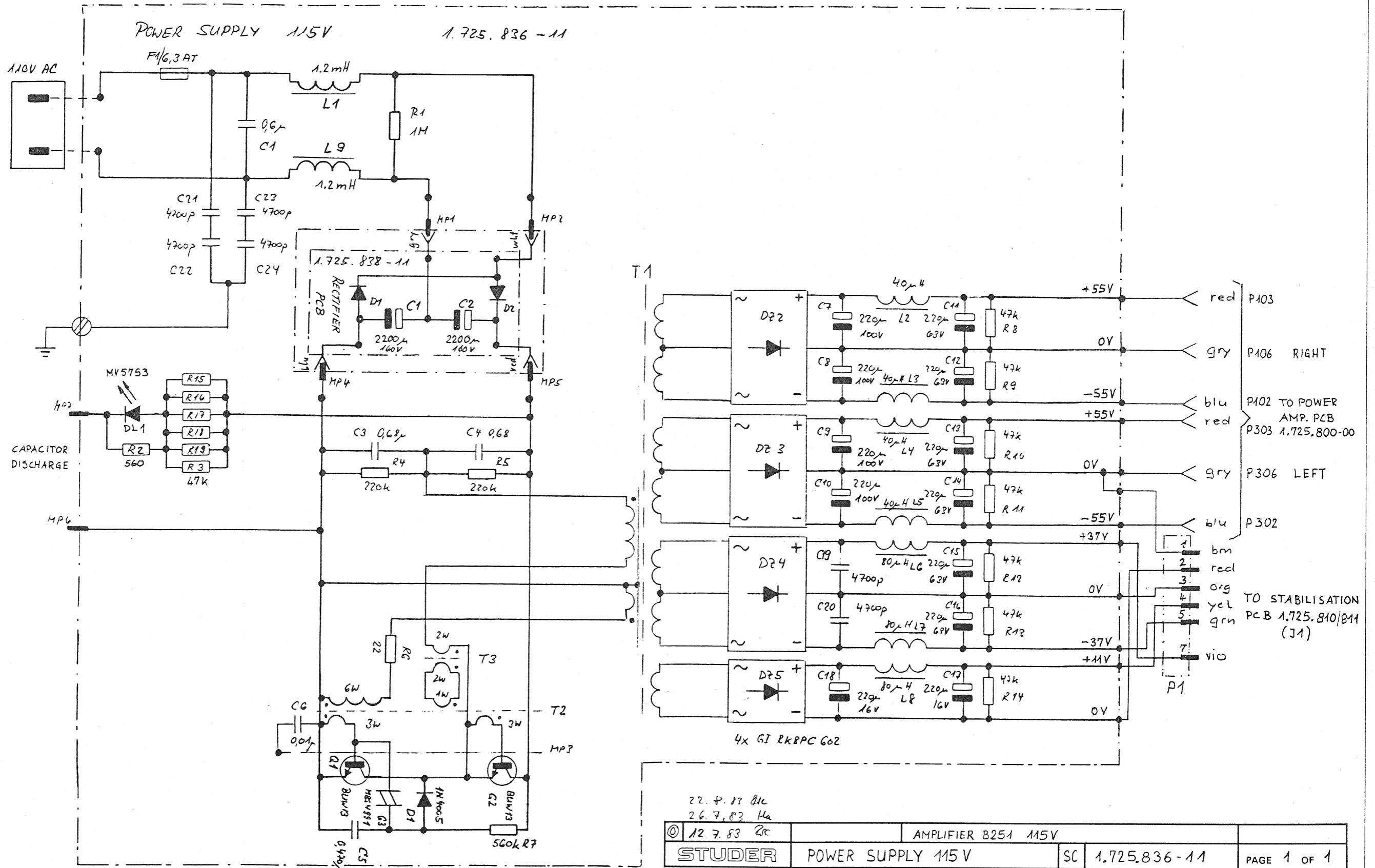
CRIG 83/C4/21

STUDER 83/04/21 UL OUTPUT PCB

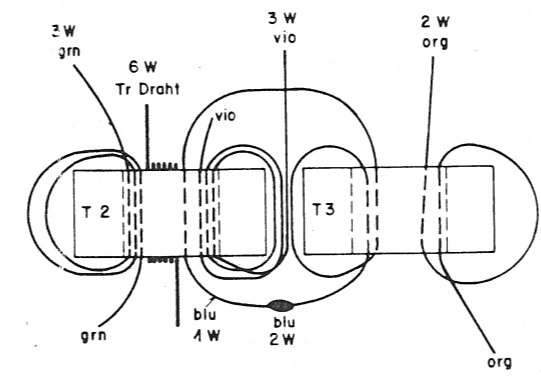
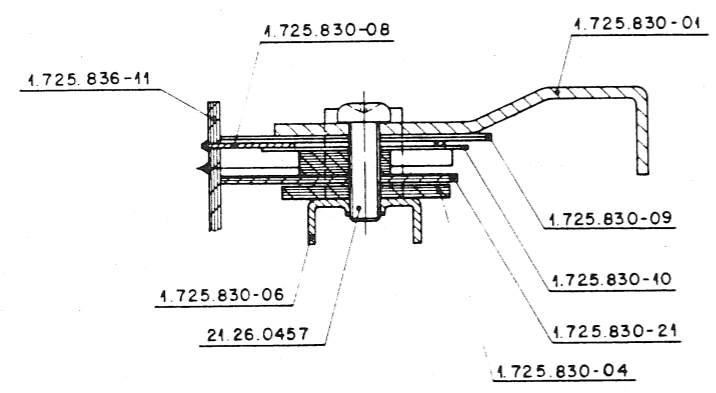
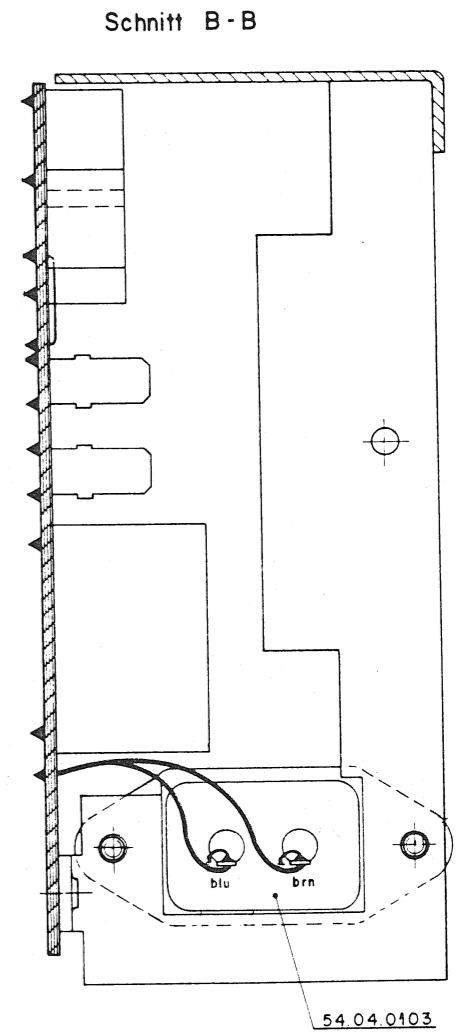
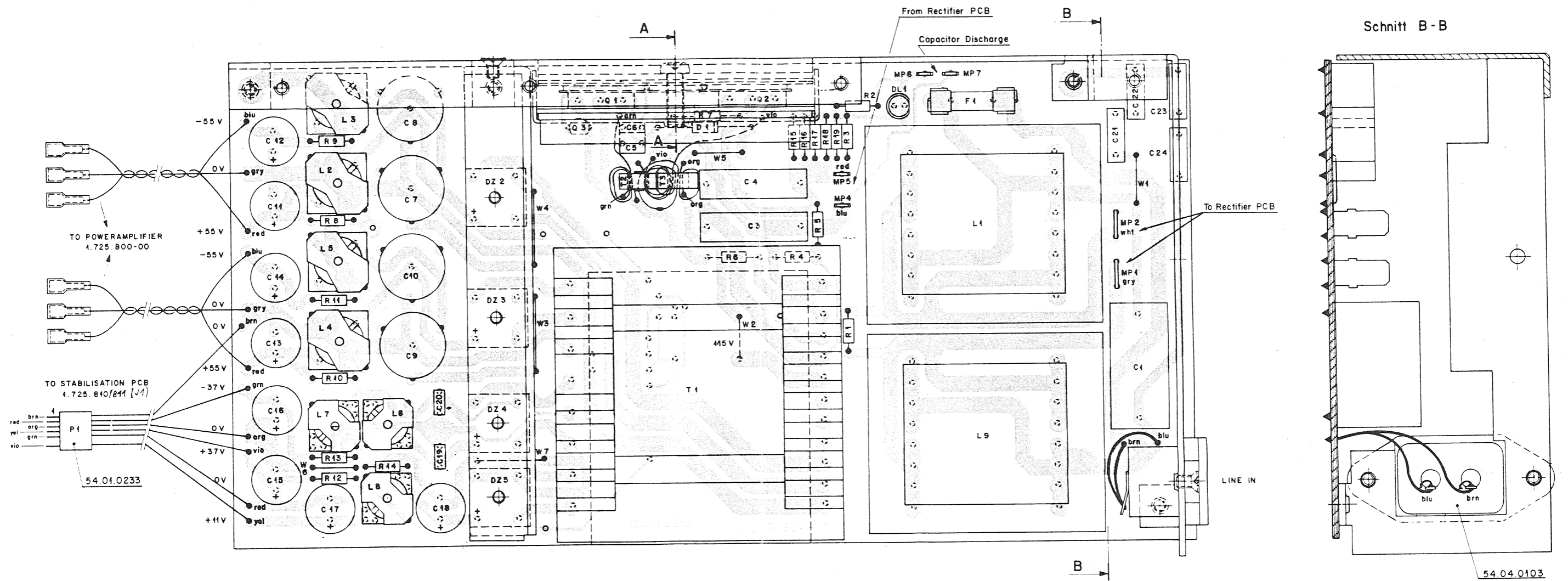
1.725.841.00 PAGE 1

SCHEMA SEE SECTION 5/39

POWER SUPPLY 115V 1.725.836-00



POWER SUPPLY 115V 1.725.836-00



Schnitt A-A

Schnitt B-B

POWER SUPPLY 115V 1.725.836-00

IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C.....1		59.99.0463	0.6 uF	-20%, 250V	MP, Ri
C.....3		59.99.0221	0.68 uF	-10%, 250V	PP
C.....4		59.99.0221	0.68 uF	-10%, 250V	PP
C.....5		59.06.0476	0.67 uF	-10%, 63V	PETP
C.....6		59.06.0103	0.01 uF	-10%, 63V	PETP
C.....7		59.22.9221	220 uF	-10%, 100V	EL
C.....8		59.22.9221	220 uF	-10%, 100V	EL
C.....9		59.22.9221	220 uF	-10%, 100V	EL
C.....10		59.22.9221	220 uF	-10%, 100V	EL
C.....11		59.41.8221	220 uF	-10%, 63V	EL
C.....12		59.41.8221	220 uF	-10%, 63V	EL
C.....13		59.41.8221	220 uF	-10%, 63V	EL
C.....14		59.41.8221	220 uF	-10%, 63V	EL
C.....15		59.41.8221	220 uF	-10%, 63V	EL
C.....16		59.41.8221	220 uF	-10%, 63V	EL
C.....17		59.41.4221	220 uF	-10%, 16V	EL
C.....18		59.41.4221	220 uF	-10%, 16V	EL
C.....19		59.06.0472	4700 pF	-10%, 63V	PETP
C.....20		59.06.0472	4700 pF	-10%, 63V	PETP
C.....21		59.99.0458	4700 pF	-20%, 250V	MP, Ri
C.....22		59.99.0458	4700 pF	-20%, 250V	MP, Ri
C.....23		59.99.0458	4700 pF	-20%, 250V	MP, Ri
C.....24		59.99.0458	4700 pF	-20%, 250V	MP, Ri
D.....1		50.04.0502	1N 4005		
DL.....1		50.04.0502	MV 5753	LED	
DZ.....2		70.01.0234		200V/10A FAST RECOVERY	GI, Va
DZ.....3		70.01.0234		200V/10A FAST RECOVERY	GI, Va
DZ.....4		70.01.0234		200V/10A FAST RECOVERY	GI, Va
DZ.....5		70.01.0234		200V/10A FAST RECOVERY	GI, Va
F.....1		51.01.0123	T6.3A	FUSE 5x20 SLOW BLOW	
L.....1		1.022.004.00	1.2 mH		St
L.....2		1.022.232.00	40 uH		St

S T U D E R 83/08/25 SC POWER SUPPLY 115 R 1.725.836.00 PAGE 1

IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
L.....3		1.022.232.00	40 uH		St
L.....4		1.022.232.00	40 uH		St
L.....5		1.022.232.00	40 uH		St
L.....6		1.022.228.00	80 uH		St
L.....7		1.022.228.00	80 uH		St
L.....8		1.022.228.00	80 uH		St
L.....9		1.022.004.00	1.2 mH		St
P.....1		54.02.0335	6.300.8		
P.....2		54.02.0335	6.300.8		
P.....3		54.02.0320	2.800.8		
P.....4		54.02.0320	2.800.8		
P.....5		54.02.0320	2.800.8		
P.....6		54.02.0320	2.800.8		
Q.....1		50.03.0525	8UM13	BUS48P	Ph, Mot
Q.....2		50.03.0525	8UM13	BUS48P	Ph, Mot
Q.....3		1.010.314.50	2N 4991		Mot
R.....1		57.11.4105	1 MOhm	5%, 0.25W	
R.....2		57.11.4561	560 Ohm	5%, 0.25W	
R.....3		57.11.4473	47 kOhm	5%, 0.25W	
R.....4		57.11.4224	220 kOhm	5%, 0.25W	
R.....5		57.11.4224	220 kOhm	5%, 0.25W	
R.....6		57.11.4220	22 Ohm	5%, 0.25W	
R.....7		57.11.4564	560 kOhm	5%, 0.25W	
R.....8		57.11.4473	47 kOhm	5%, 0.25W	
R.....9		57.11.4473	47 kOhm	5%, 0.25W	
R.....10		57.11.4473	47 kOhm	5%, 0.25W	
R.....11		57.11.4473	47 kOhm	5%, 0.25W	
R.....12		57.11.4473	47 kOhm	5%, 0.25W	
R.....13		57.11.4473	47 kOhm	5%, 0.25W	
R.....14		57.11.4473	47 kOhm	5%, 0.25W	
R.....15		57.11.4473	47 kOhm	5%, 0.25W	
R.....16		57.11.4473	47 kOhm	5%, 0.25W	
R.....17		57.11.4473	47 kOhm	5%, 0.25W	
R.....18		57.11.4473	47 kOhm	5%, 0.25W	

S T U D E R 83/09/25 SC POWER SUPPLY 115 R 1.725.835.00 PAGE 2

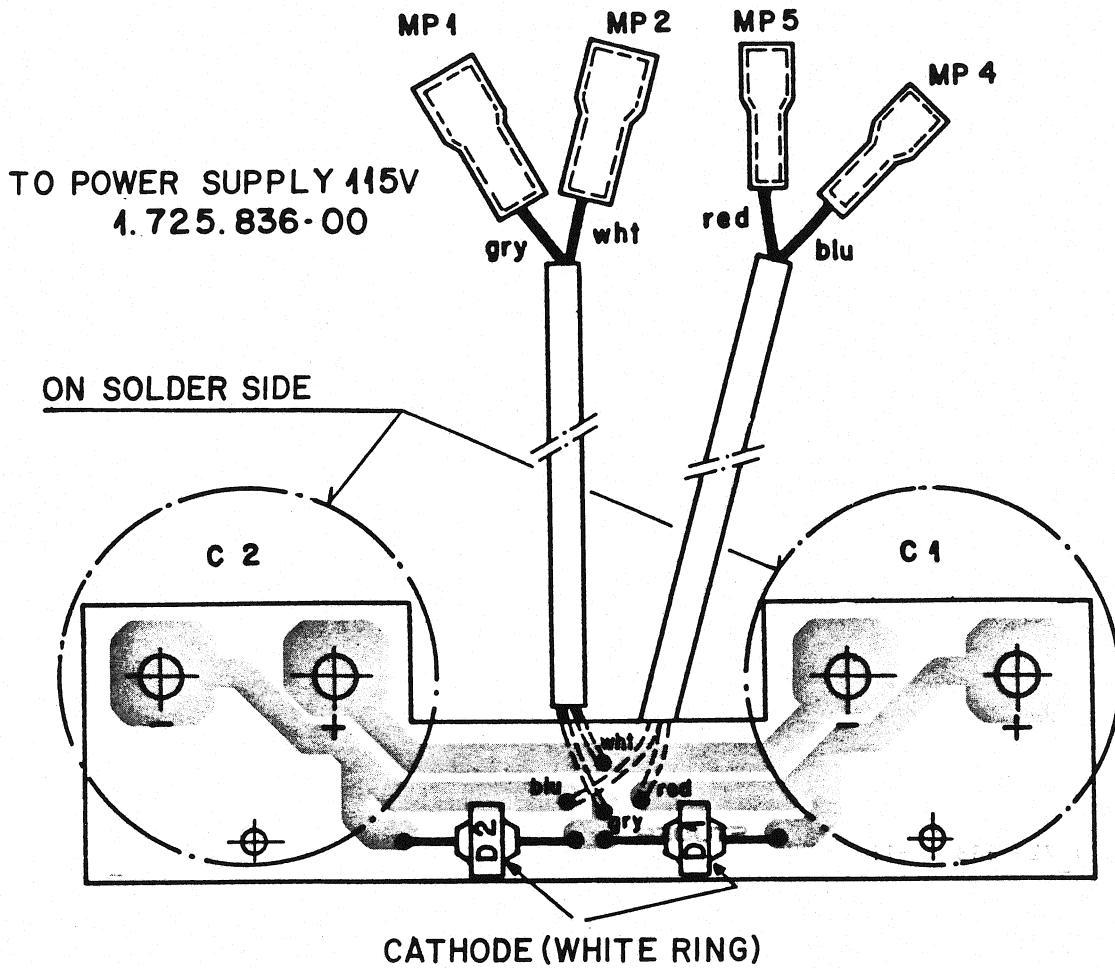
IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R.....19		57.11.4473	47 kOhm	5%, 0.25W	
T.....1		1.022.227.00			St
T.....2		61.02.0119			St
T.....3		61.02.0119			St

El=Electrolytic, MP=Metallized Paper, PETP=Polyester.

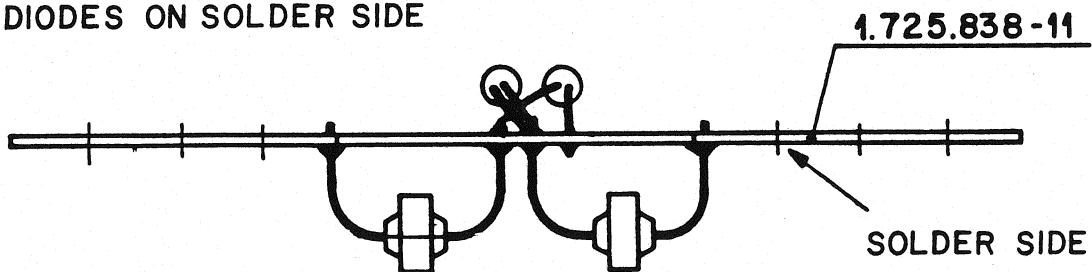
MANUFACTURER: Mot=Motorola, GI=General Instruments, Ri=Rifa, Ph=Philips, Sie=Siemens, Va=Varov, St=Studer.

ORIG 83/08/25
S T U D E R 83/09/25 SC POWER SUPPLY 115 R 1.725.836.00 PAGE 3

RECTIFIER PCB 1.725.838



DIODES ON SOLDER SIDE



IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C.....1		59.07.0001	2200 uF	10%, 200V	EL-Ri
C.....2		59.07.0001	2200 uF	10%, 200V	EL-Ri
D.....1		50.04.0955	MR 754		Mot
D.....2		50.04.0955	MR 754		Mot

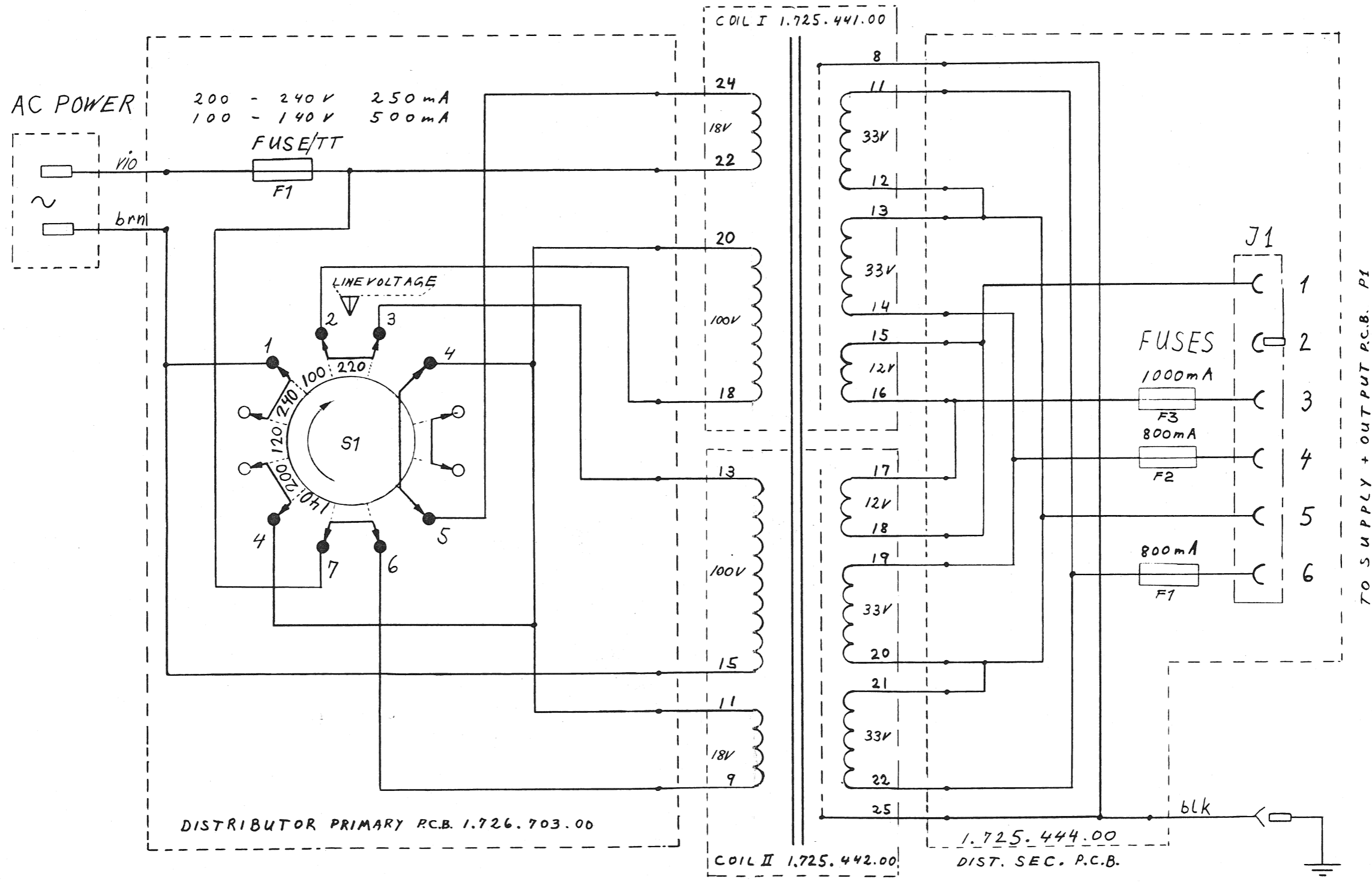
EI=Electrolytic

MANUFACTURER: Mot=Motorola
Ri=Rifa

ORIG 03/08/25

STUDER 03/08/25 SC RECTIFIER PCB R 1.725.838.00 PAGE 1

MAINS TRANSFORMER UNIT 1.725.440-00

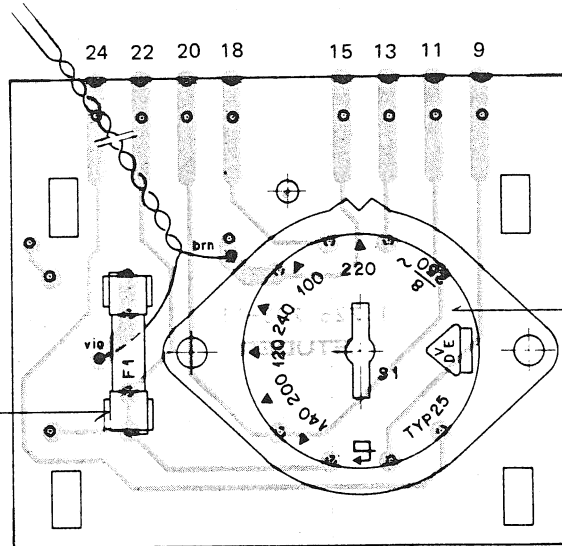


4 Jan 1984 R. G. G. G.	PREAMPLIFIER	B252
STUDER	MAINS TRANSFORMER B252	PAGE 1 OF 1

MAINS TRANSFORMER UNIT 1.725.440-00

F1:
 200...240V = 51.99.0124 250mATT
 100...140V = 51.99.0125 500mATT

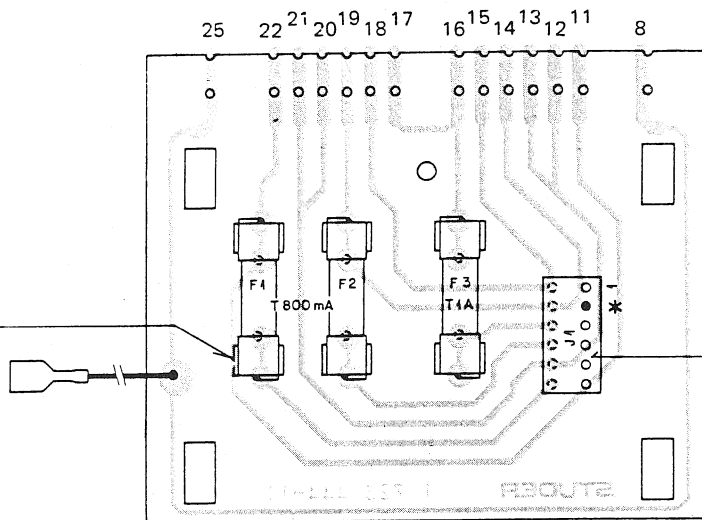
XF: 53.03.0142



1.726.703-00

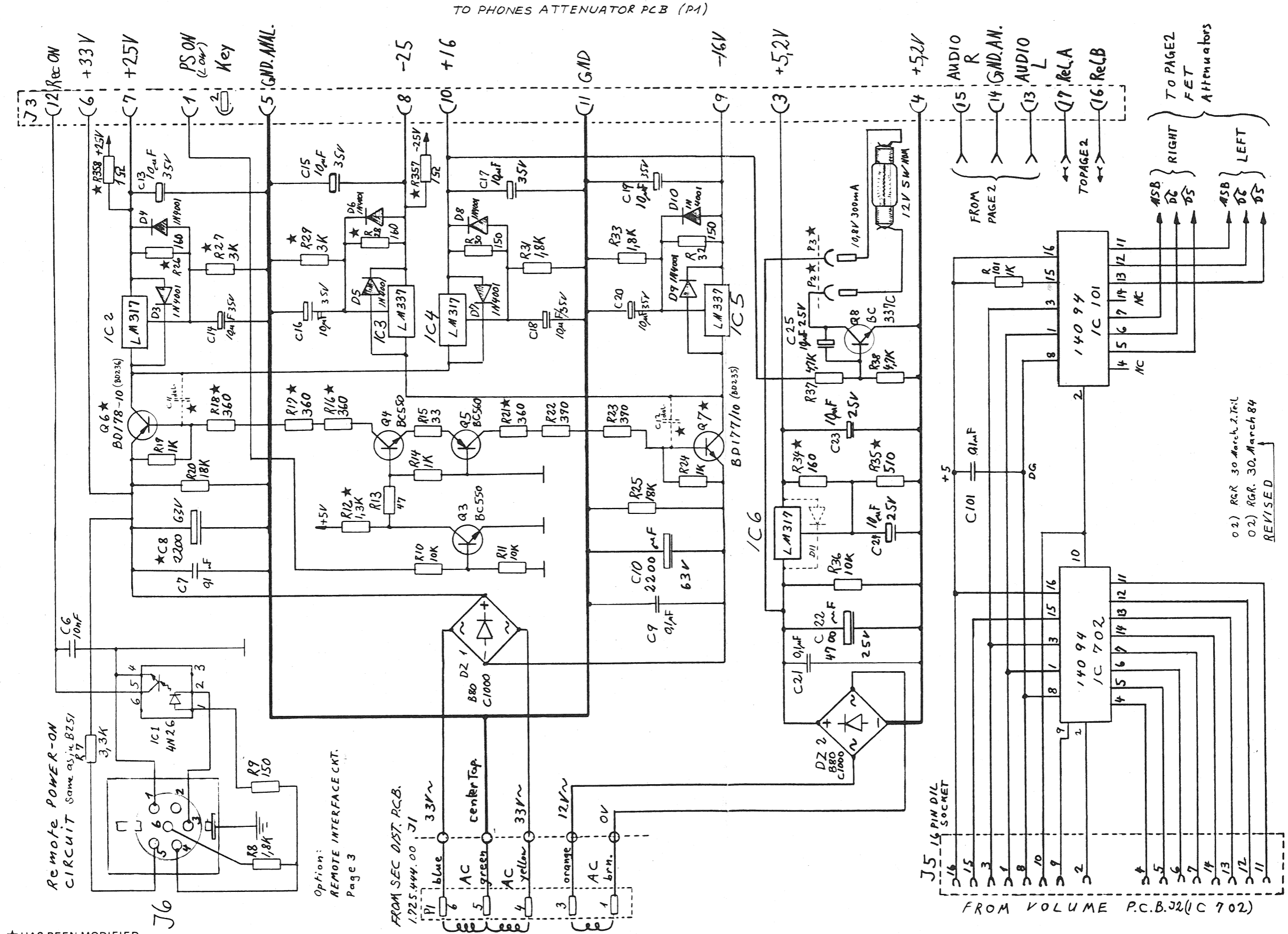
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XF: 53.03.0142

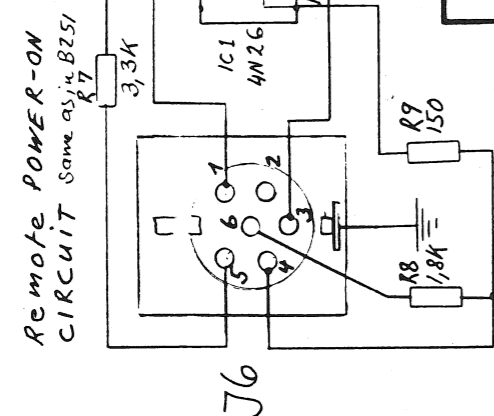


1.725.444-00

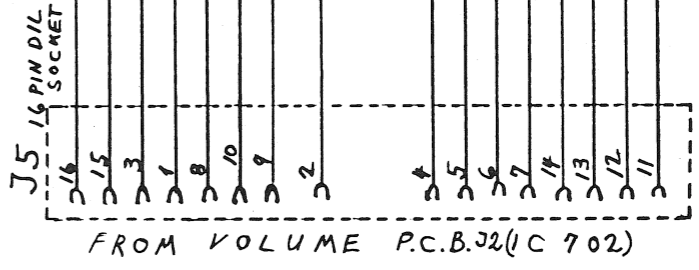
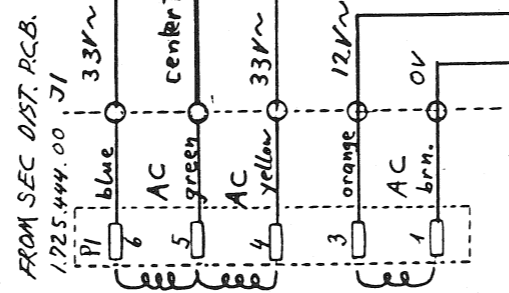
SUPPLY AND OUTPUT PCB 1.725.470-00 "ESE"



★ HAS BEEN MODIFIED



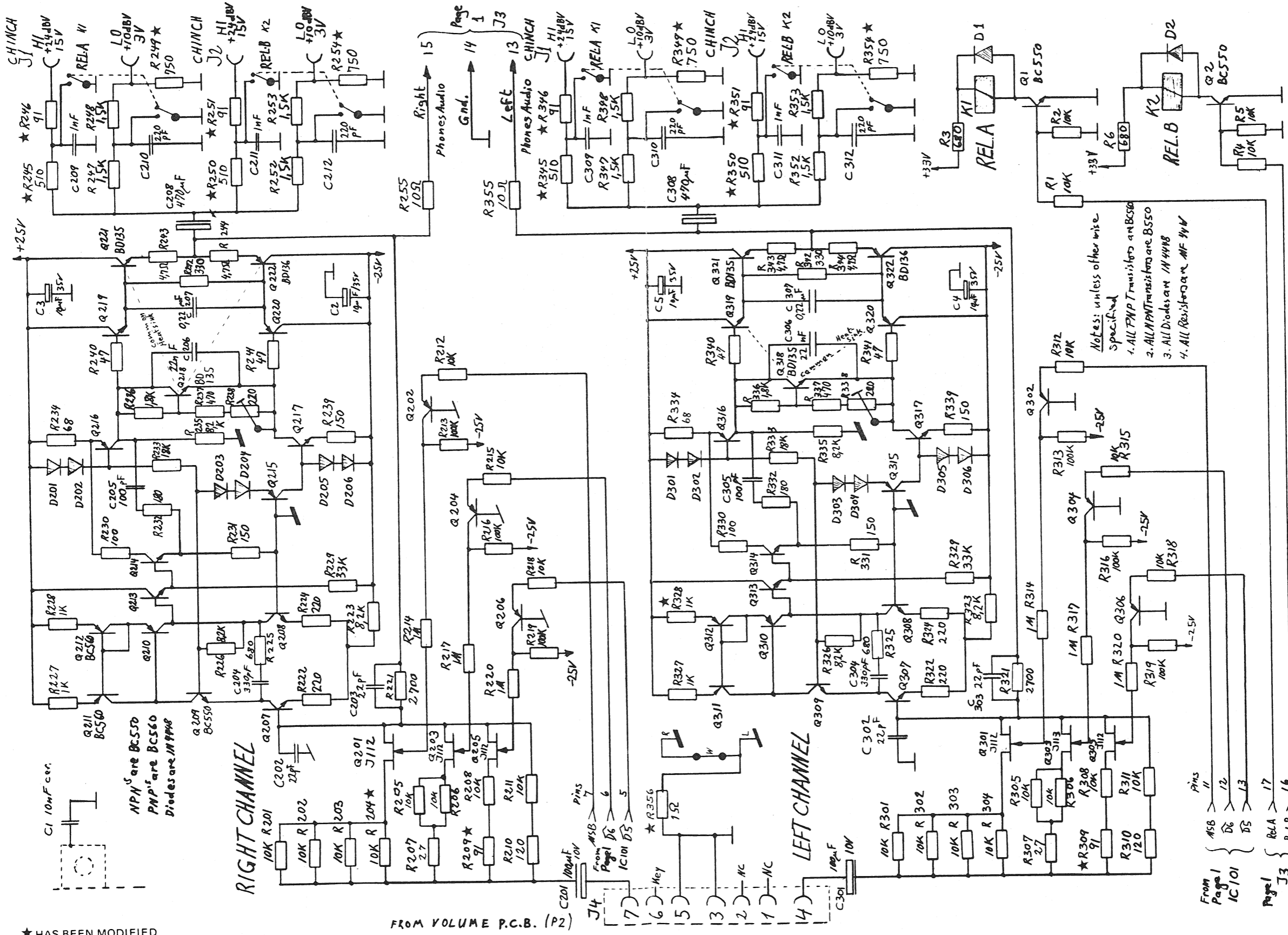
Option:
 REMOTE INTERFACE CKT.
 Page 3



02) RGR 30 March 2. Teil
 02) RGR. 30. March 84
 REVISED

René Greutmann	12. July 1983	PREAMPLIFIER	B252
STUDER	SUPPLY + OUTPUT P.C.B.	1.725.470.00	PAGE 1 OF 2 (3)

SUPPLY AND OUTPUT PCB 1.725.470-00 "ESE"



★ HAS BEEN MODIFIED

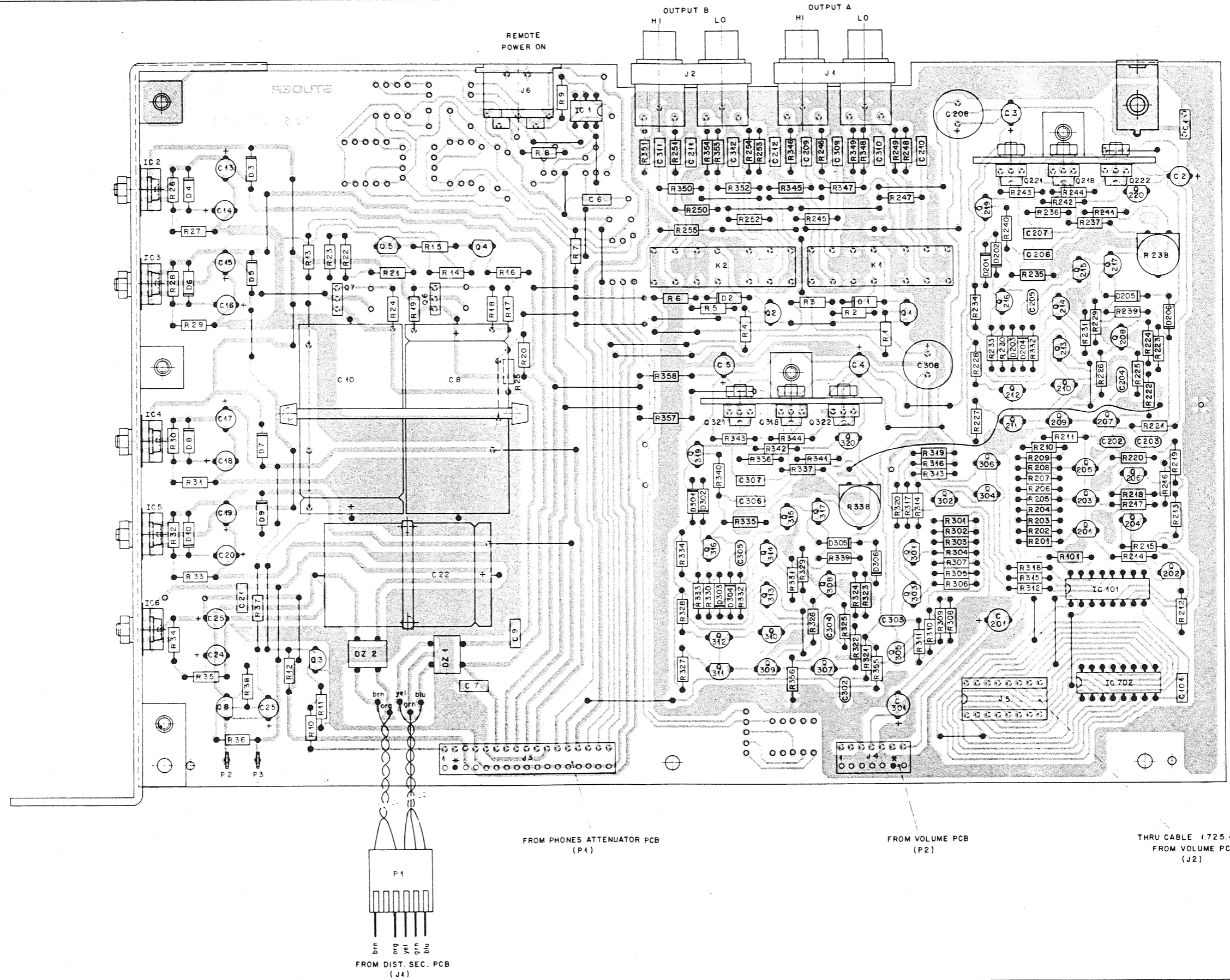
FROM VOLUME P.C.B. (P2)

From Page 1 IC/101
 Pins 11, 12, 13
 Rel A 17
 Rel B 16

Notes: unless otherwise specified
 1. All PNP Transistors are BC550
 2. All NPN Transistors are BC550
 3. All Diodes are 1N4948
 4. All Resistors are MF 4W

REVISED: 02) RGR 30. Mar 84	B 252
19. Apr 83 R G reutmann 5. Jan. 84 R. G. R.	PREAMPLIFIER
STUDER	SUPPLY + OUTPUT P.C.B.
1.725.470.00	PAGE 2 OF 2 (3)

SUPPLY AND OUTPUT PCB 1.725.470-00 "ESE"



FROM PHONES ATTENUATOR PCB (P1)

FROM VOLUME PCB (P2)

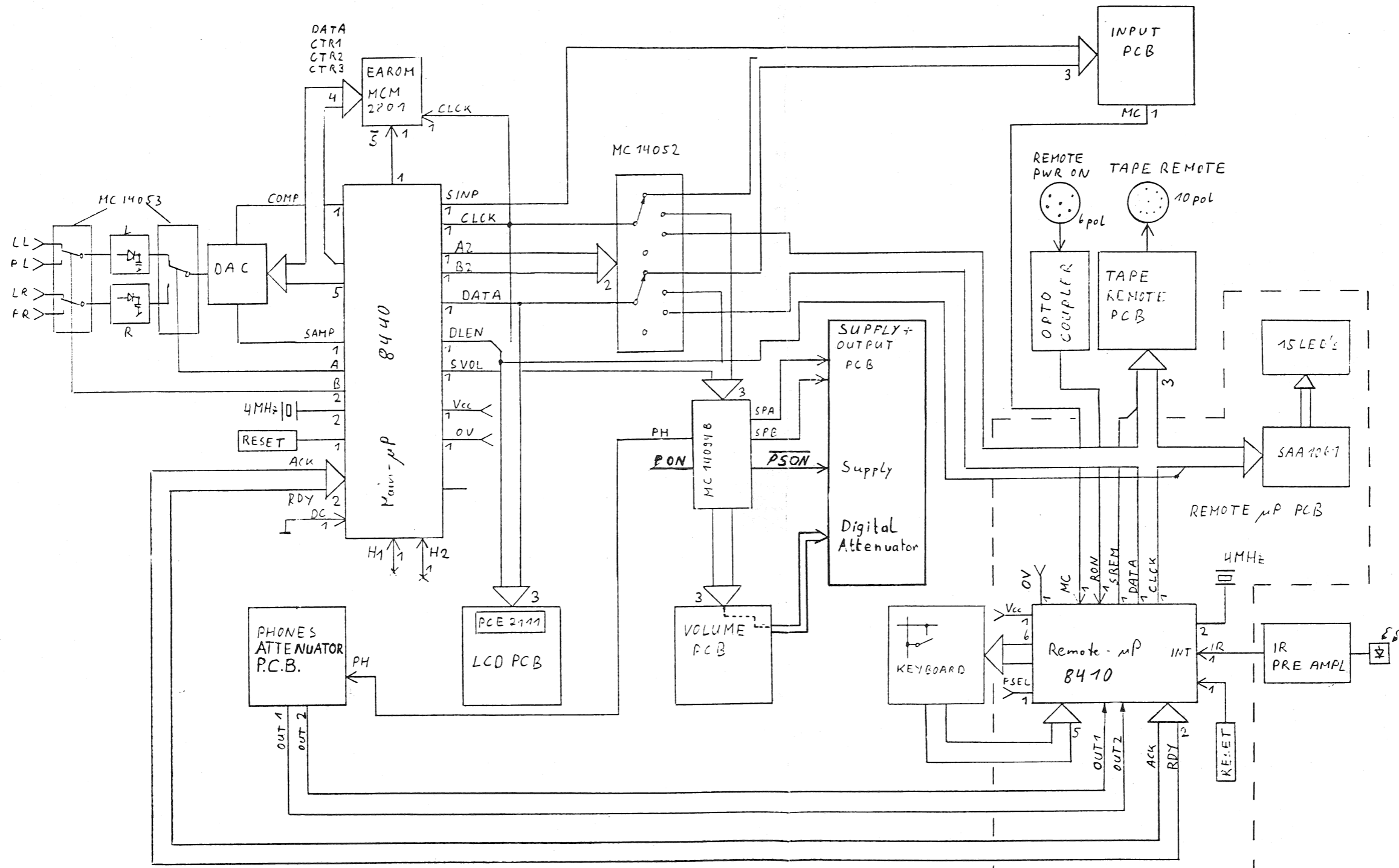
THRU CABLE 1.725.490-00 FROM VOLUME PCB (J2)

FROM DIST. SEC. PCB (J1)

SUPPLY AND OUTPUT PCB 1.725.470-00 "ESE"

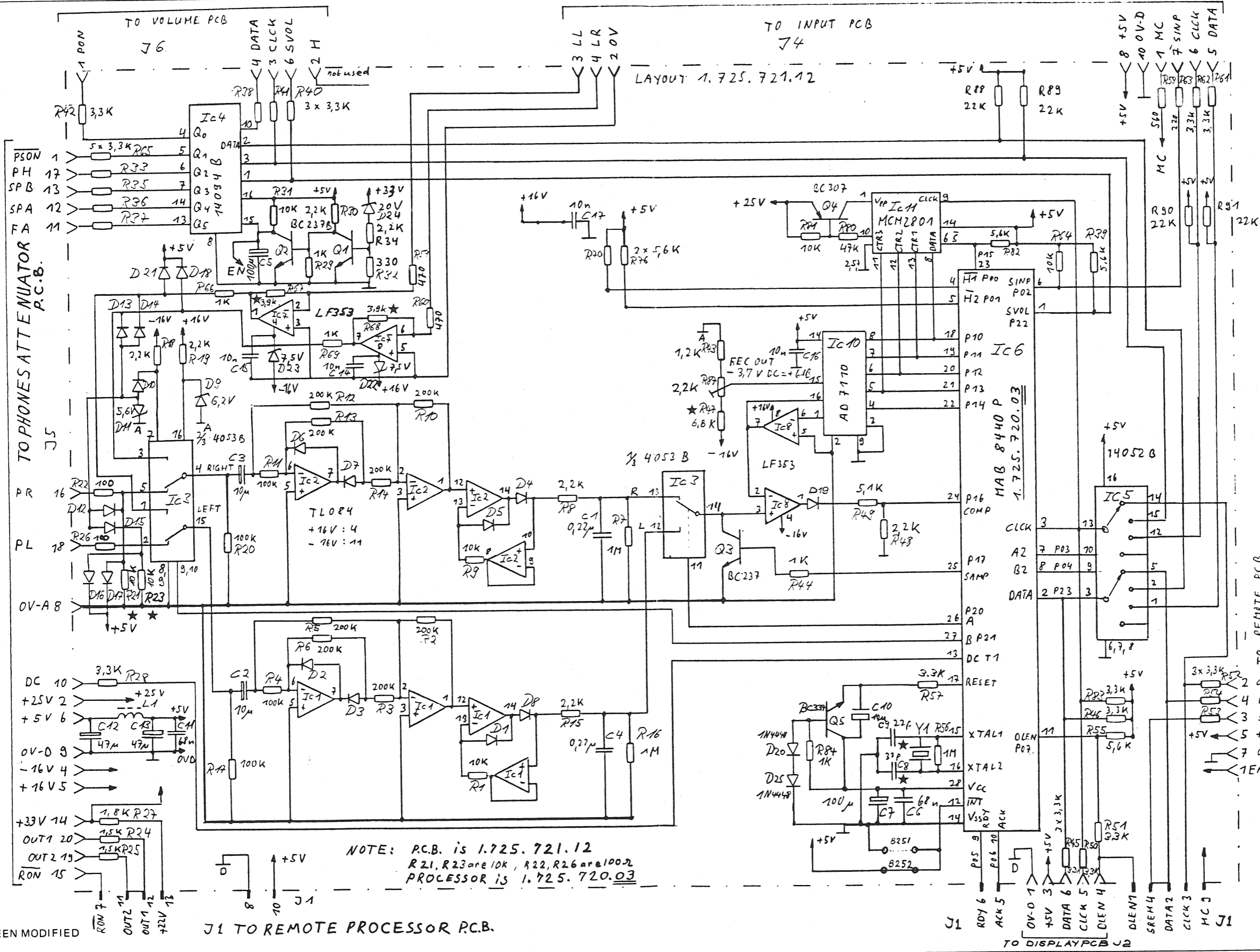
IND.	POS.ND.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.ND.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.ND.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.ND.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
C....1	59.32.3103	10 nF	20%	40V	Cer.	C....1	50.03.0497	BC 550C	NPN			R...204	57.11.3103	10 kOhm	1%	0.25W	MF	R...348	57.11.4152	1.5 kOhm	2%	0.25W	MF
C....2	59.22.6100	10 uF	-20%	35V	EL	C....2	50.03.0497	BC 550C	NPN			R...205	57.11.3103	10 kOhm	1%	0.25W	MF	(00) R...349	57.11.4751	750 Ohm	2%	0.25W	MF
C....3	59.22.6100	10 uF	-20%	35V	EL	C....3	50.03.0497	BC 550C	NPN			R...206	57.11.3103	10 kOhm	1%	0.25W	MF	(01) R...349	57.11.3751	750 Ohm	2%	0.25W	MF
C....4	59.22.6100	10 uF	-20%	35V	EL	C....4	50.03.0497	BC 550C	NPN			R...207	57.11.4270	27 Ohm	5%	0.25W	MF	(00) R...350	57.11.3511	510 Ohm	2%	0.25W	MF
C....5	59.22.6100	10 uF	-20%	35V	EL	C....5	50.03.0497	BC 550C	NPN			R...208	57.11.3103	10 kOhm	1%	0.25W	MF	(01) R...350	57.11.3511	510 Ohm	2%	0.25W	MF
C....6	59.32.3103	10 nF	20%	40V	Cer.	C....6	50.03.0452	BD 140/10	PNP	Sie.		R...209	57.11.4910	91 Ohm	5%	0.25W	MF	(00) R...351	57.11.4910	91 Ohm	5%	0.25W	MF
C....7	59.06.0104	100 nF	10%	63V	PETP	C....7	50.03.0751	BD 178/10	PNP	Mot.		R...210	57.11.3910	91 Ohm	5%	0.25W	MF	(01) R...351	57.11.4910	91 Ohm	5%	0.25W	MF
C....8	59.34.4220	2200 uF	-10%	63V	EL	C....8	50.03.0451	BD 139/10	NPN	Mot.		R...211	57.11.3103	10 kOhm	1%	0.25W	MF	(01) R...351	57.11.3910	91 Ohm	5%	0.25W	MF
C....9	59.06.0104	100 nF	10%	63V	PETP	C....9	50.03.0516	BC 337C	NPN	Sie.		R...212	57.11.4103	10 kOhm	5%	0.25W	MF	(00) R...352	57.11.4152	1.5 kOhm	2%	0.25W	MF
C....10	59.25.6222	2200 uF	-10%	63V	EL	C....10	50.03.0350	J112	FET	Sx,NA		R...213	57.11.4104	100 kOhm	5%	0.25W	MF	(01) R...352	57.11.4152	1.5 kOhm	2%	0.25W	MF
C....11	59.22.6100	10 uF	-20%	35V	EL	C....11	50.03.0496	BC 560C	PNP	Sx,NA		R...214	57.11.4105	100 kOhm	5%	0.25W	MF	(02) R...352	57.11.4152	1.5 kOhm	2%	0.25W	MF
C....12	59.22.6100	10 uF	-20%	35V	EL	C....12	50.03.0350	J112	FET			R...215	57.11.4103	10 kOhm	5%	0.25W	MF	(00) R...353	57.11.4152	1.5 kOhm	2%	0.25W	MF
C....13	59.22.6100	10 uF	-20%	35V	EL	C....13	50.03.0496	BC 560C	PNP			R...216	57.11.4104	100 kOhm	5%	0.25W	MF	(01) R...354	57.11.4751	750 Ohm	2%	0.25W	MF
C....14	59.22.6100	10 uF	-20%	35V	EL	C....14	50.03.0496	BC 560C	PNP			R...217	57.11.4105	100 kOhm	5%	0.25W	MF	(02) R...354	57.11.3751	750 Ohm	2%	0.25W	MF
C....15	59.22.6100	10 uF	-20%	35V	EL	C....15	50.03.0497	BC 550C	NPN			R...218	57.11.4103	10 kOhm	5%	0.25W	MF	(00) R...355	57.11.4100	10 Ohm	5%	0.25W	MF
C....16	59.22.6100	10 uF	-20%	35V	EL	C....16	50.03.0497	BC 550C	NPN			R...219	57.11.4104	100 kOhm	5%	0.25W	MF	(01) R...355	57.11.4100	10 Ohm	5%	0.25W	MF
C....17	59.22.6100	10 uF	-20%	35V	EL	C....17	50.03.0496	BC 560C	PNP			R...220	57.11.4105	100 kOhm	5%	0.25W	MF	(02) R...355	57.11.4100	10 Ohm	5%	0.25W	MF
C....18	59.22.6100	10 uF	-20%	35V	EL	C....18	50.03.0496	BC 560C	PNP			R...221	57.11.4272	2.7 kOhm	2%	0.25W	MF	(00) R...356	57.11.4109	1 Ohm	5%	0.25W	MF
C....19	59.22.6100	10 uF	-20%	35V	EL	C....19	50.03.0497	BC 550C	NPN			R...222	57.11.4221	220 Ohm	2%	0.25W	MF	(01) R...356	57.11.4109	1 Ohm	5%	0.25W	MF
C....20	59.22.6100	10 uF	-20%	35V	EL	C....20	50.03.0496	BC 560C	PNP			R...223	57.11.4822	8.2 kOhm	5%	0.25W	MF	(02) R...356	57.11.4109	1 Ohm	5%	0.25W	MF
C....21	59.06.0104	100 nF	10%	63V	PETP	C....21	50.03.0497	BC 550C	NPN			R...224	57.11.4221	220 Ohm	2%	0.25W	MF	(00) R...357	57.11.4109	1 Ohm	5%	0.25W	MF
C....22	59.25.4472	4700 uF	-10%	25V	EL	C....22	50.03.0497	BC 550C	NPN			R...225	57.11.4681	680 Ohm	5%	0.25W	MF	(01) R...357	57.11.4109	1 Ohm	5%	0.25W	MF
C....23	59.22.6100	10 uF	-20%	35V	EL	C....23	50.03.0496	BC 560C	PNP			R...226	57.11.4822	8.2 kOhm	5%	0.25W	MF	(02) R...357	57.11.4109	1 Ohm	5%	0.25W	MF
C....24	59.22.6100	10 uF	-20%	35V	EL	C....24	50.03.0497	BC 550C	NPN			R...227	57.11.4272	2.7 kOhm	2%	0.25W	MF	(00) R...358	57.11.4109	1 Ohm	5%	0.25W	MF
C....25	59.22.6100	10 uF	-20%	35V	EL	C....25	50.03.0496	BC 560C	PNP			R...228	57.11.4102	1 kOhm	5%	0.25W	MF	(01) R...358	57.11.4109	1 Ohm	5%	0.25W	MF
C....26	59.06.0104	100 nF	10%	63V	PETP	C....26	50.03.0497	BC 550C	NPN			R...229	57.11.4332	33 kOhm	5%	0.25W	MF	(02) R...358	57.11.4109	1 Ohm	5%	0.25W	MF
C....27	59.06.0104	100 nF	10%	63V	PETP	C....27	50.03.0496	BC 560C	PNP			R...230	57.11.4332	33 kOhm	5%	0.25W	MF	(00) R...359	57.11.4109	1 Ohm	5%	0.25W	MF
C....28	59.34.4220	22 pF	5%	25V	Cer.	C....28	50.03.0497	BC 550C	NPN			R...231	57.11.4151	150 Ohm	5%	0.25W	MF	(01) R...359	57.11.4109	1 Ohm	5%	0.25W	MF
C....29	59.34.4220	22 pF	5%	25V	Cer.	C....29	50.03.0496	BC 560C	PNP			R...232	57.11.4181	180 Ohm	5%	0.25W	MF	(02) R...359	57.11.4109	1 Ohm	5%	0.25W	MF
C....30	59.34.4220	22 pF	5%	25V	Cer.	C....30	50.03.0497	BC 550C	NPN			R...233	57.11.4183	180 Ohm	5%	0.25W	MF	(00) R...360	57.11.4109	1 Ohm	5%	0.25W	MF
C....31	59.34.4220	22 pF	5%	25V	Cer.	C....31	50.03.0496	BC 560C	PNP			R...234	57.11.4680	68 Ohm	5%	0.25W	MF	(01) R...360	57.11.4109	1 Ohm	5%	0.25W	MF
C....32	59.06.0224	22 nF	10%	63V	PETP	C....32	50.03.0497	BC 550C	NPN			R...235	57.11.4822	8.2 kOhm	5%	0.25W	MF	(02) R...360	57.11.4109	1 Ohm	5%	0.25W	MF
C....33	59.06.0224	22 nF	10%	63V	PETP	C....33	50.03.0496	BC 560C	PNP			R...236	57.11.4822	8.2 kOhm	5%	0.25W	MF	(00) R...361	57.11.4109	1 Ohm	5%	0.25W	MF
C....34	59.22.2471	470 uF	-20%	6.3V	EL	C....34	50.03.0496	BC 560C	PNP			R...237	57.11.4471	470 Ohm	5%	0.25W	MF	(01) R...361	57.11.4109	1 Ohm	5%	0.25W	MF
C....35	59.22.2471	470 uF	-20%	6.3V	EL	C....35	50.03.0350	J112	FET			R...238	58.02.5221	220 Ohm	20%	0.10W	CF ADJUSTABLE	(02) R...361	57.11.4109	1 Ohm	5%	0.25W	MF

MICROPROCESSOR CONTROL BLOCKDIAGRAM



12.7.83 H ₀	PRE AMPLIFIER	B252
2.3.82 H ₀	μP CONTROL BLOCKDIAGRAM	PAGE OF
STUDER		

MICROPROCESSOR PCB 1.725.450-00 "ESE"



★ HAS BEEN MODIFIED

J1 TO REMOTE PROCESSOR P.C.B.

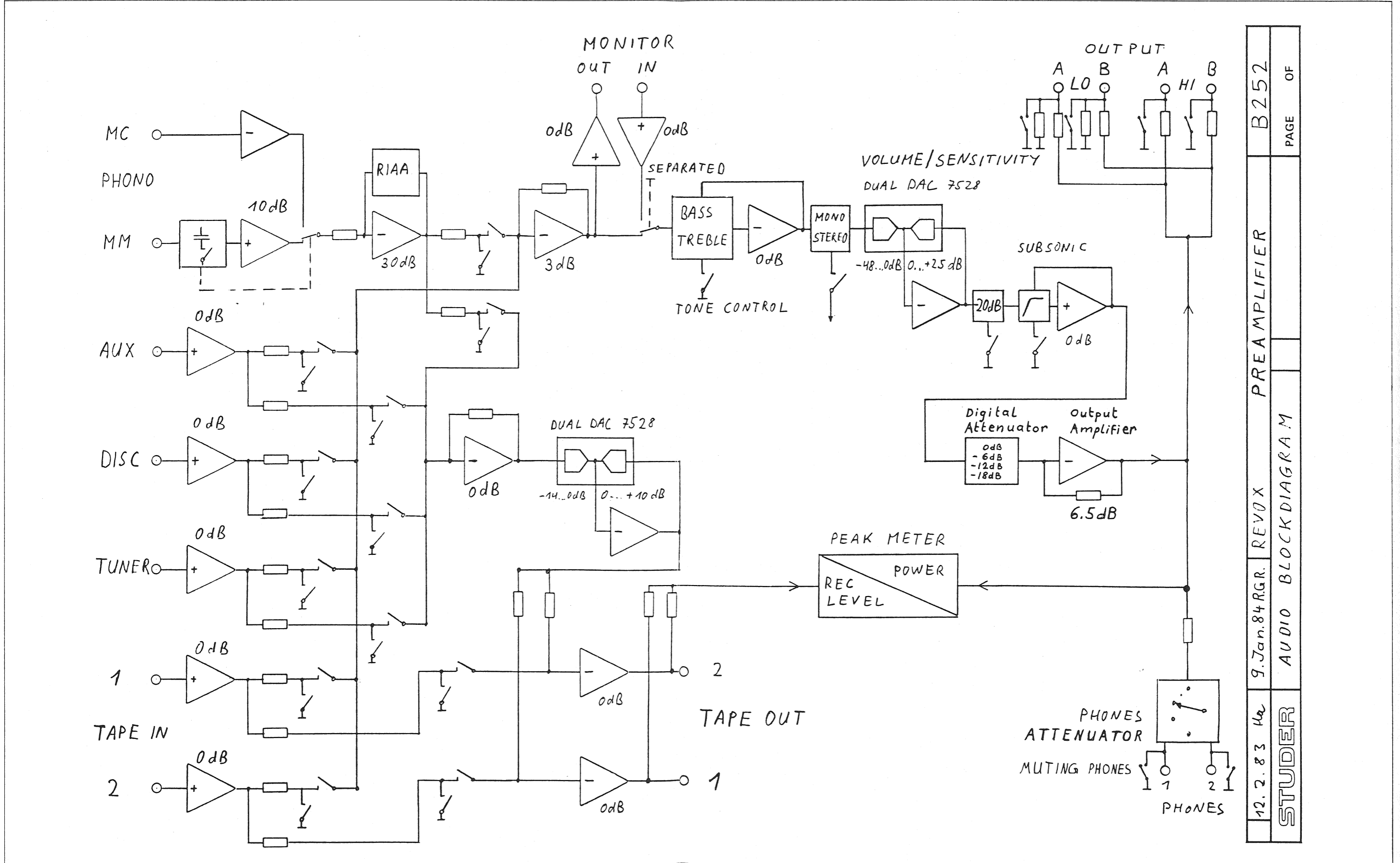
NOTE: P.C.B. is 1.725.721.12
 R21, R23 are 10K, R22, R26 are 100Ω
 PROCESSOR is 1.725.720.03

TO REMOTE PCB
 J3

6. Jan. 84 R.G.R.
 16. 1. 9. 11. 83
 R.G.R. 24. Apr. 84
 R.G.R. 2) 5. Apr. 84

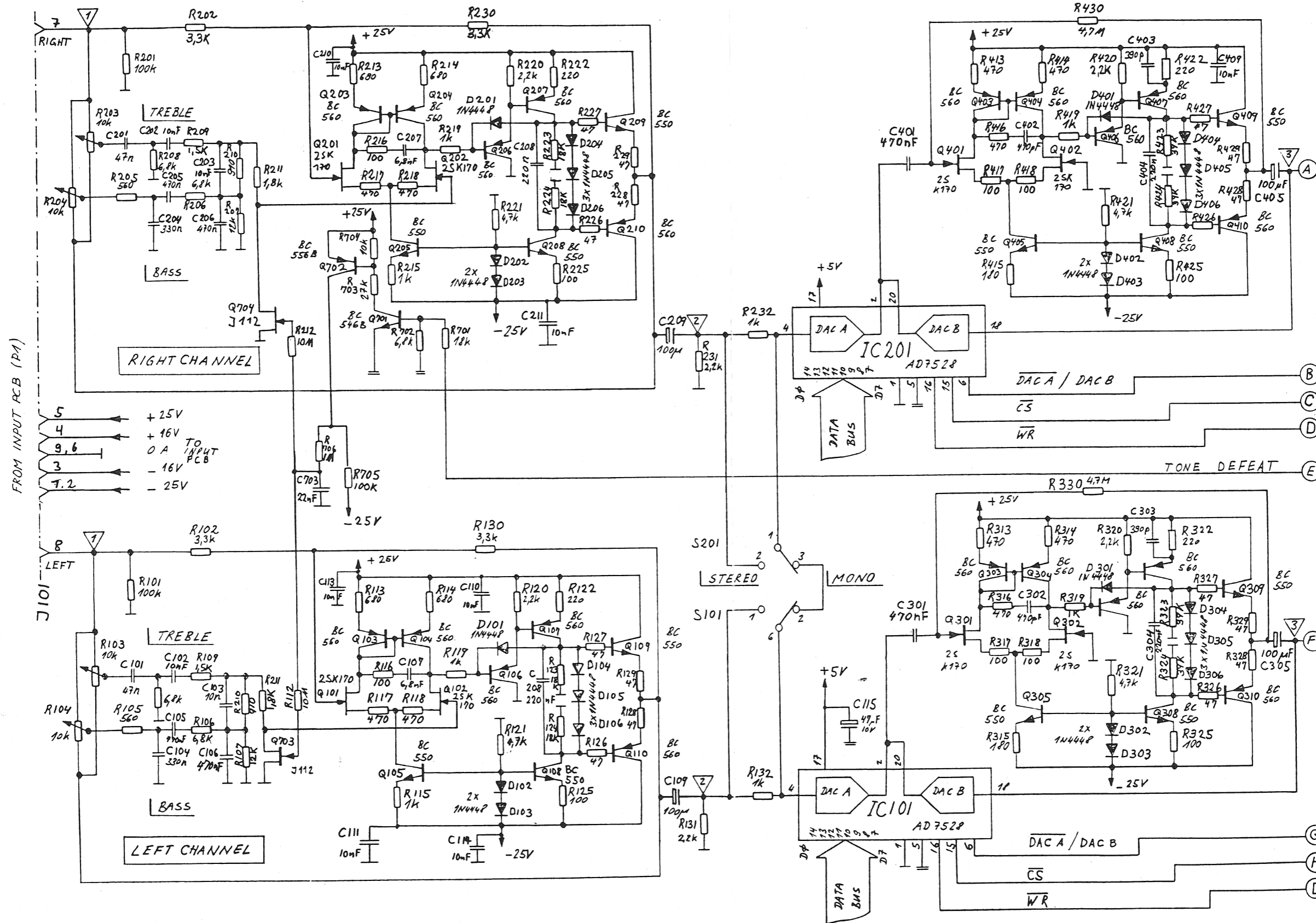
STUDER		PROCESSOR PCB	
16. 1. 9. 11. 83		6. Jan. 84 R.G.R.	
R.G.R. 2) 5. Apr. 84		R.G.R. 24. Apr. 84	
PAGE		OF	
1.725.450.00		B252	

AUDIO BLOCKDIAGRAM

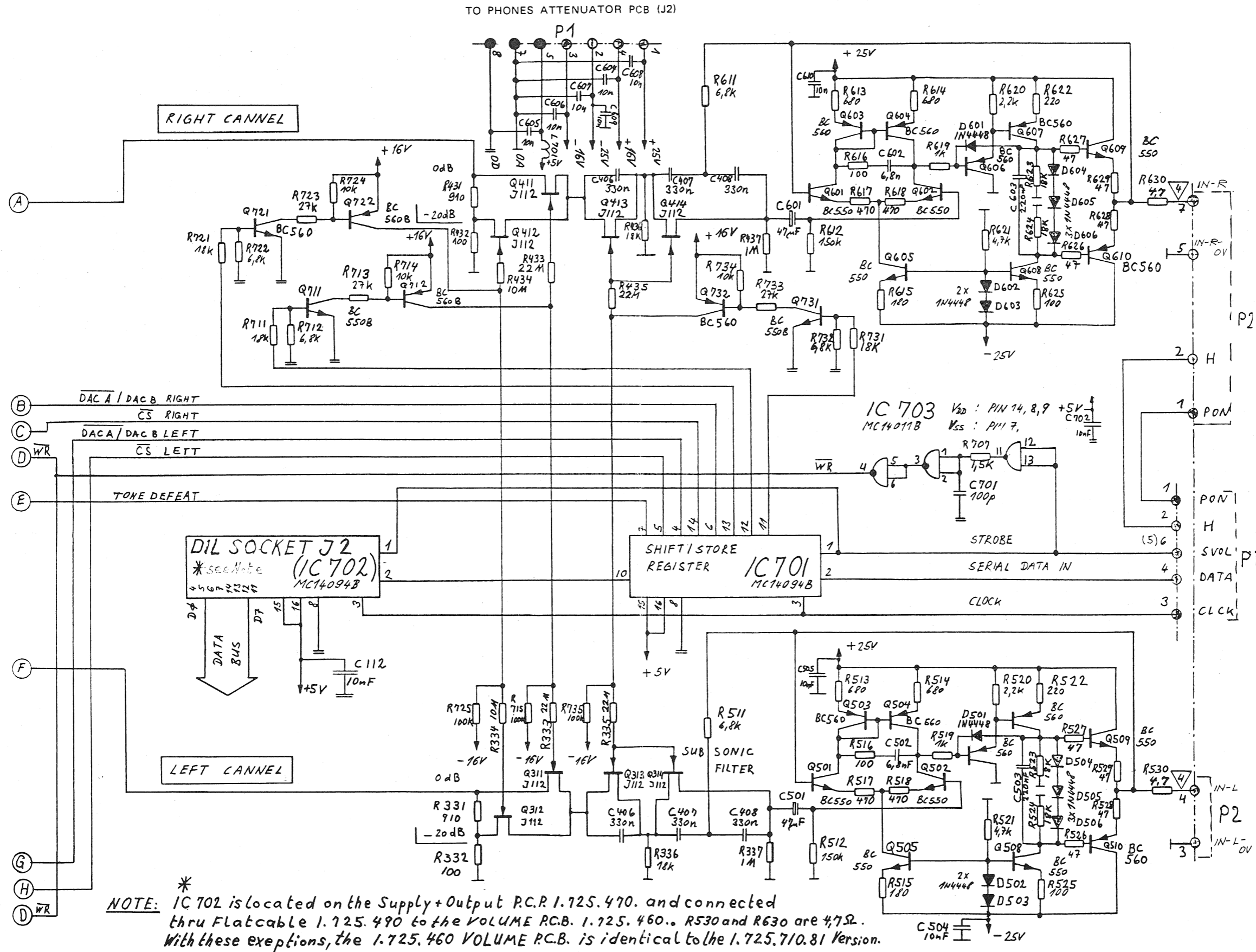


12.2.83	9. Jan. 84 RGR.	REVOX	PREAMPLIFIER	B252
STUDER	AUDIO BLOCKDIAGRAM		PAGE	OF

VOLUME PCB 1.725.460-00 "ESE"



Note: PAGE 1 is identical to Version 1.725.710.81. FOR PAGE 2 see Note there.
6 Jan 84 RGR. PREAMPLIFIER
 VOLUME PCB
 3.8.82 EgU
STUDER
 B252
 1.725.460.00
 PAGE 1 OF 2



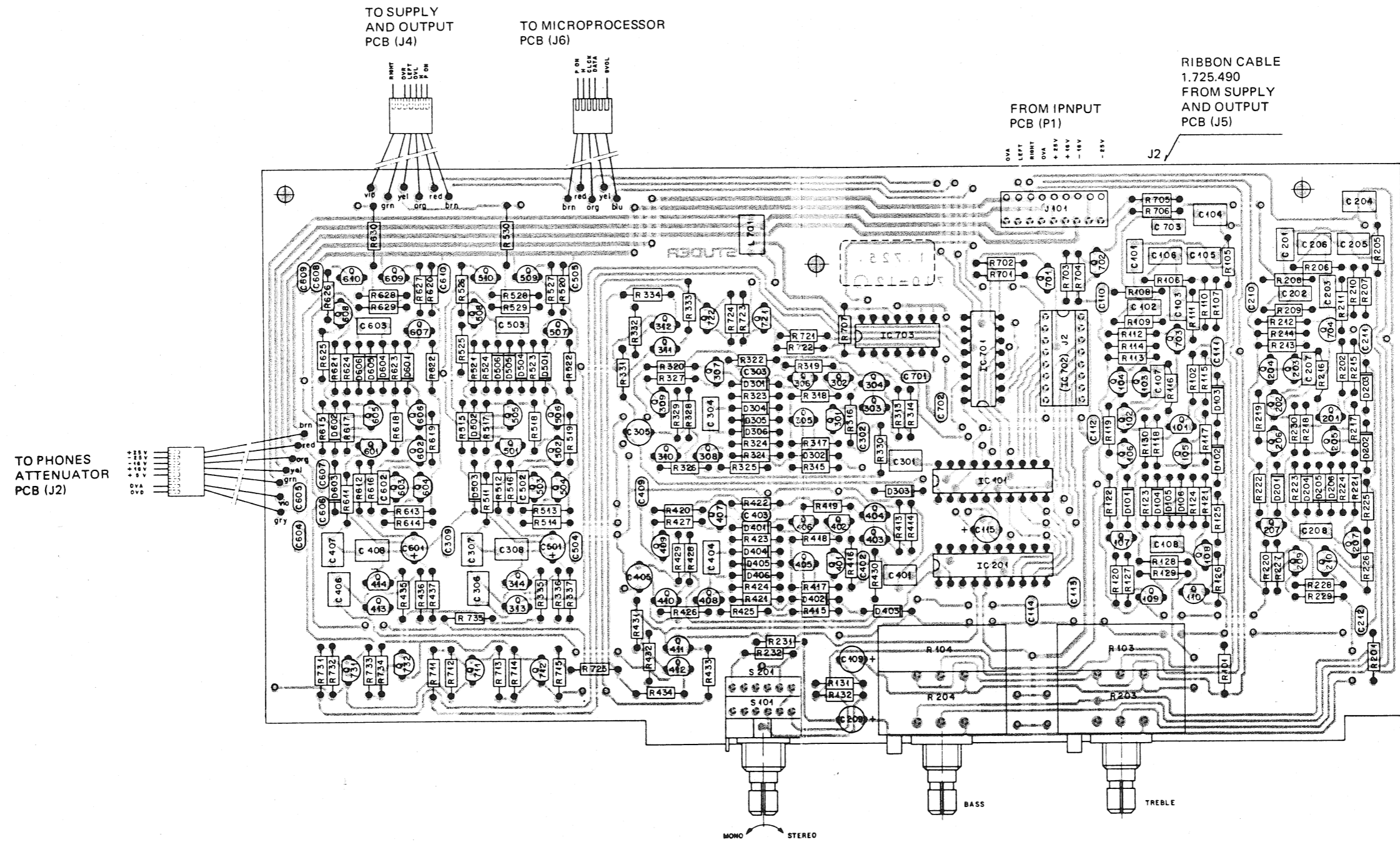
*
 NOTE: IC 702 is located on the Supply + Output P.C.B. 1.725.470. and connected thru Flatcable 1.725.490 to the VOLUME P.C.B. 1.725.460. R530 and R630 are 4,7Ω. With these exceptions, the 1.725.460 VOLUME P.C.B. is identical to the 1.725.710.81 Version.

P2: TO SUPPLY AND OUTPUT PCB (J4)
 P3: TO MICROPROCESSOR PCB (J6)

Similar to 1.725.710.81 see NOTE *

3.8.82 E8U	PREAMPLIFIER	B252
STUDER	VOLUME PCB	1.725.460.00
		PAGE 2 OF 2

VOLUME PCB 1.725.460-00 "ESE"



VOLUME PCB 1.725.460-00 "ESE"

Table with 4 columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. This is the first page of a multi-page component list.

STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 1 STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 4 STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 7 STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 10

Table with 4 columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. This is the second page of a multi-page component list.

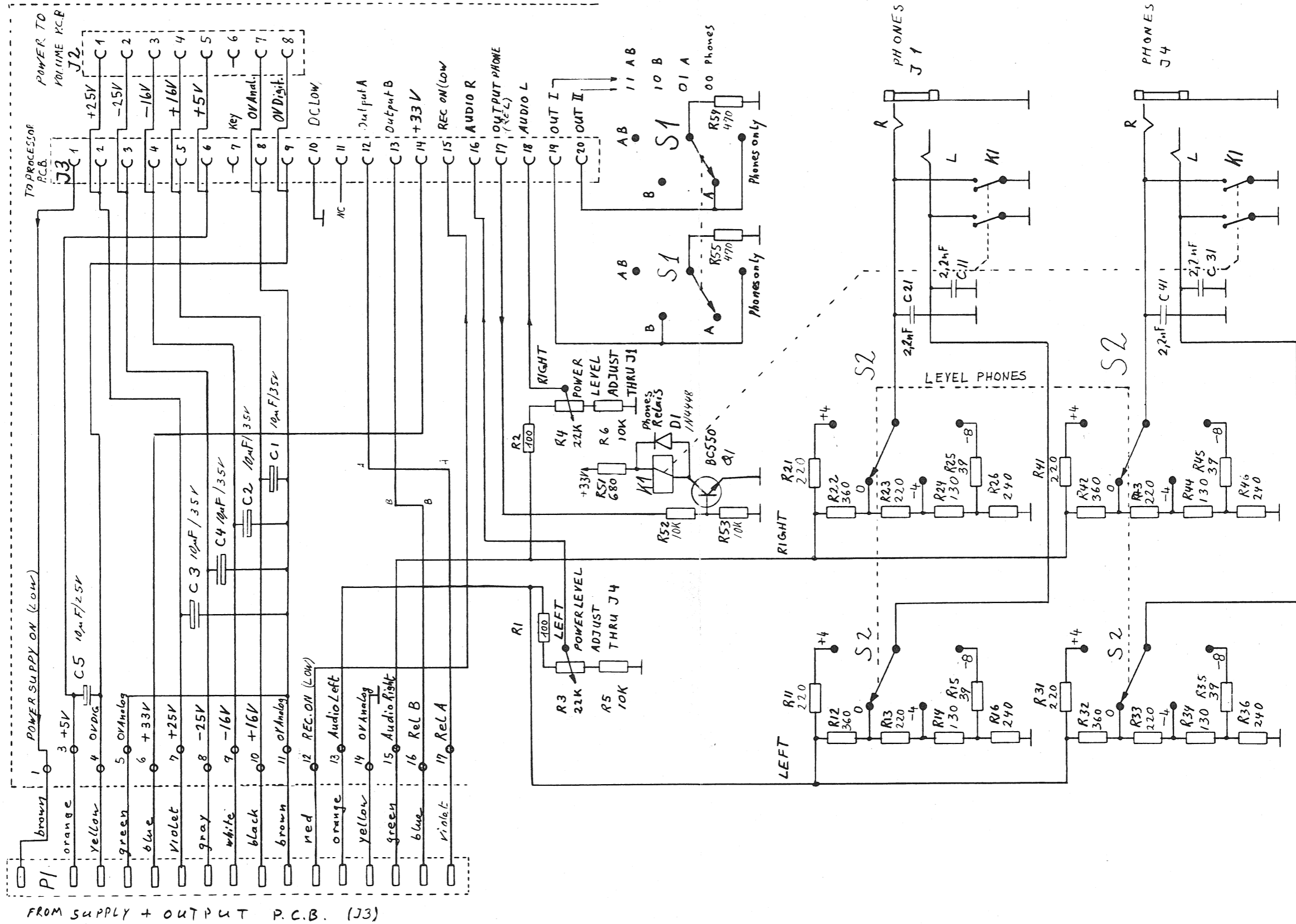
STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 2 STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 5 STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 8 STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 11

Table with 4 columns: IND., POS.ND., PART NO., VALUE, SPECIFICATIONS / EQUIVALENT, MANUF. This is the third page of a multi-page component list.

STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 3 STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 6 STUDER 83/09/21 RG VOLUME PCB 1.725.460.00 PAGE 9

E=Electrolytic, Cer=Ceramic, PLT=Polyester, MF=Metal Film, CC=Carbon Composite, Manufacturers: AD=ANALOG DEVICES, M=Motorola, N=NATIONAL, PH=PHILIPS, S=SIGNETEC, ST=STUDER, SX=SILICONIX, T=TOSHIBA

PHONES ATTENUATOR PCB 1.725.480-00



Revised: 11 July 83 R.G.R. Revised: NOV. 15. 83 POS. NUMBERS R.G.R. DEC. 15. 83 REF. 24484 (R4,R2)

20. May 83 R.G.R.	PREAMPLIFIER	B252
STUDER	PHONES ATTENUATOR P.C.B.	PAGE 1 OF 1

PHONES ATTENUATOR PCB 1.725.480-00

