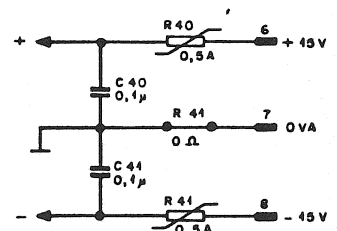
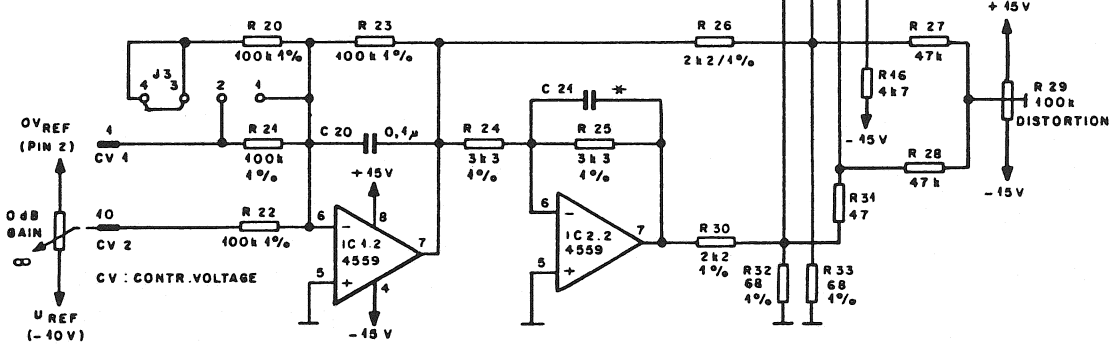
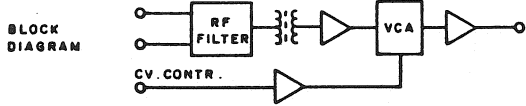
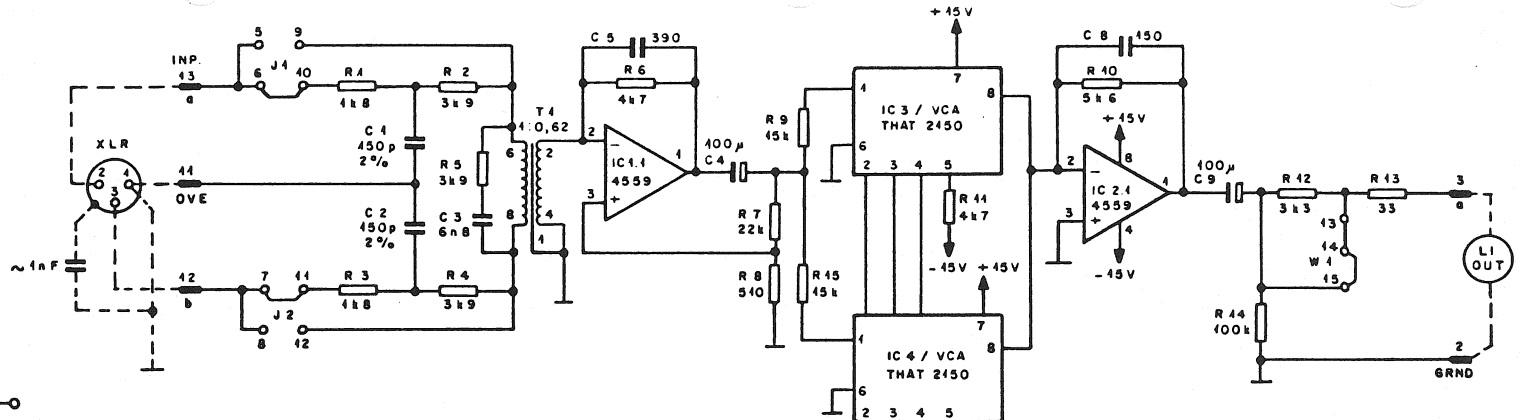
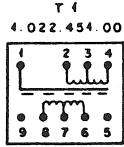


Audio System Components

Earlier Units

		EURO 32 P.			
PIN	CIS	(a)	(b)	(c)	(d)
INP a	13	4	7	24	27
INP b	42	2	8	22	28
OV E	11	3	9	23	29
CV 2	40	17	17	48	48
	9				
-15V	8	14	14	14	44
OVA	7	15	15	15	15
+15V	6	46	46	46	46
	5				
	4				
OUT a	3	4	40	24	30
GRND	2	5	44	25	34
CV 4	4	6	43	26	32



* NOT EQUIPPED

GRND-> Ground is the reference for the control voltage CV and is normally connect to OVA. OV E is wired to the source of the input signal. (to XLR pin 1 and from there to the chassis.)

GENERAL

0dBu = 0,775V eiff	
GAIN @ control voltage CV 0V	attenuation -6 dB
Range 30 Hz ... 16 kHz	
Frequency response	+0 / -0,25 dB
Noise @ gain CV 0V, DIN 45405	N < -100 dBu
Noise CCIR 468 @ gain CV 0V	N < -90 dBu
THD + Noise @ gain 0 dB; input + 6 dBu	d < -65 dB
THD + Noise @ all input levels	d < -55 dB
Power requirements +/- 15 V	+/- 25 mA

INPUT

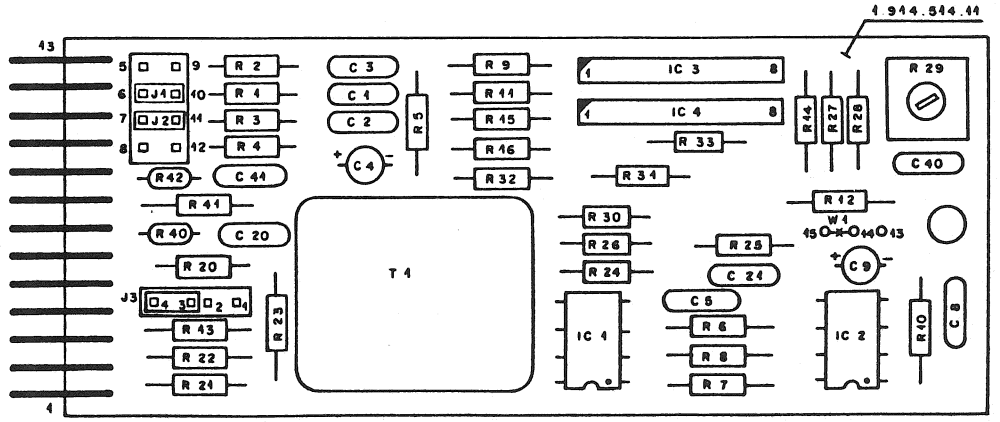
Jumper 6/10, 7/11:	
Balanced, floating RF filter	Ri > 10 kOhm
Max. input level	Uin +24 dBu
Common mode rejection ratio	> 50 dB
Jumper 5/9, 8/12:	
Current input, balanced, floating	Ri approx. 150 Ohm

OUTPUT

Max. output level	Uout +20 dBu
Output impedance	Rout 33 Ohm
without wire link 14/15	Rout 3,3 kOhm
Load (R out 33 Ohm)	RL > 600 Ohm

CONTROL CHARACTERISTICS

positive voltage		amplification
negative voltage		attenuation
Pin 10		10 dB / Volt
Pin 1	Jumper	@ 1-2 1 dB / μ A
	Jumper	@ 2-3 20 dB / Volt
	Jumper	@ 3-4 10 dB / Volt
Control range	Gain/Att	+20...-100 dB



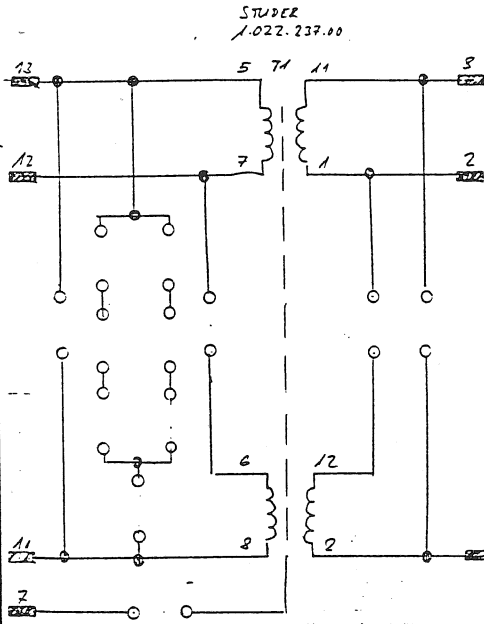
STUOER
 REGENSBORF
 ZUNICH
 LINE IN WITH VCA ESE
 SC 1.914.514.00

208.93 WE
 30.41.93 W/O

1 914.514.44

0 21.09.89 / 1/1

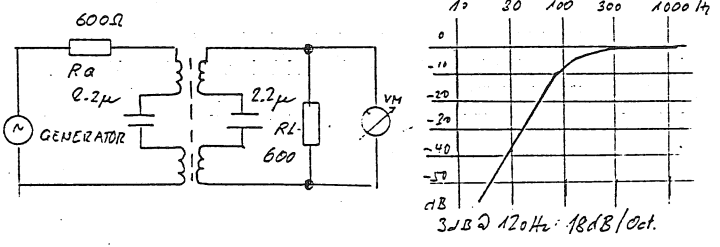
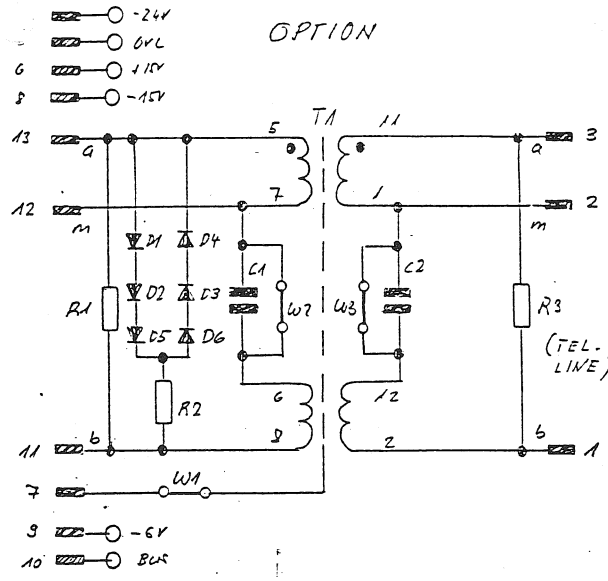
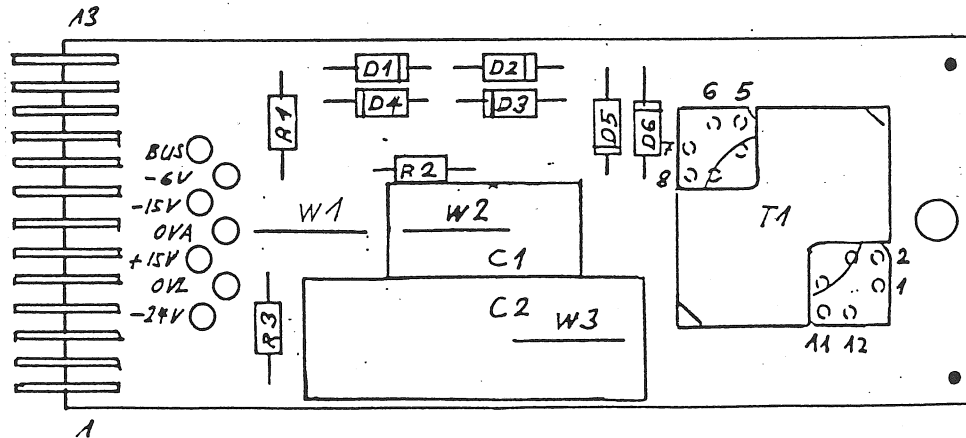
SCHMATIC DIAGRAM



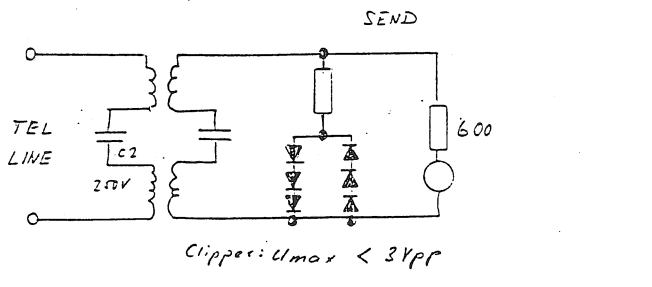
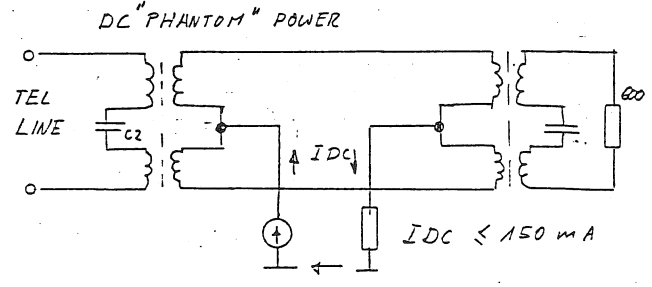
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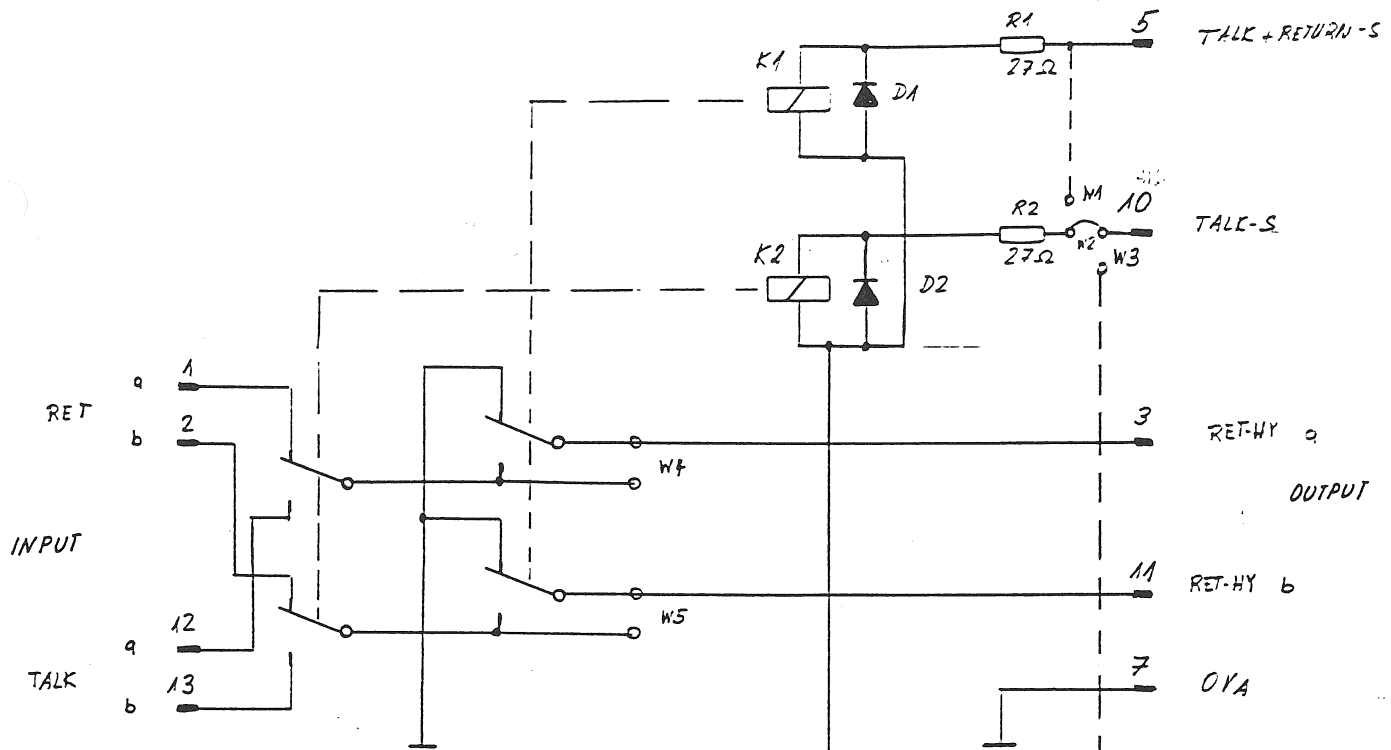
EURD 32P

PIN	①	②	③	④
LINE a	13	1	7	21 27
LINE m	12	2	8	22 28
LINE b	11	3	9	23 29
not used	10	4		
(OVA)	9	5		
	8	6		
	7			
	6			
	5			
	4			
TEL LINE a	3	4	10	24 30
TEL LINE m	2	5	11	25 31
TEL LINE b	1	6	12	26 32



POS	STUDER NR	VALUE	EQUIPPED WITH	REMARK	NORMALLY USED
C1					59.02.0225 2μ2 63V
C2					59.31.7225 2μ2 250V
D1					58.04.0105 1N4004
D2					50.04.0105 1N4004
D3					50.04.0105 1N4004
D4					50.04.0105 1N4004
D5					51.04.0105 1N4004
D6					50.14.0105 1N4004
R1					57.M.3621 620Ω
R2					57.M.3569 5.6Ω
R3					57.M.3621 620Ω
W1					-
W2					-
W3					-
TA	1.022.237.00	1:1	YES		

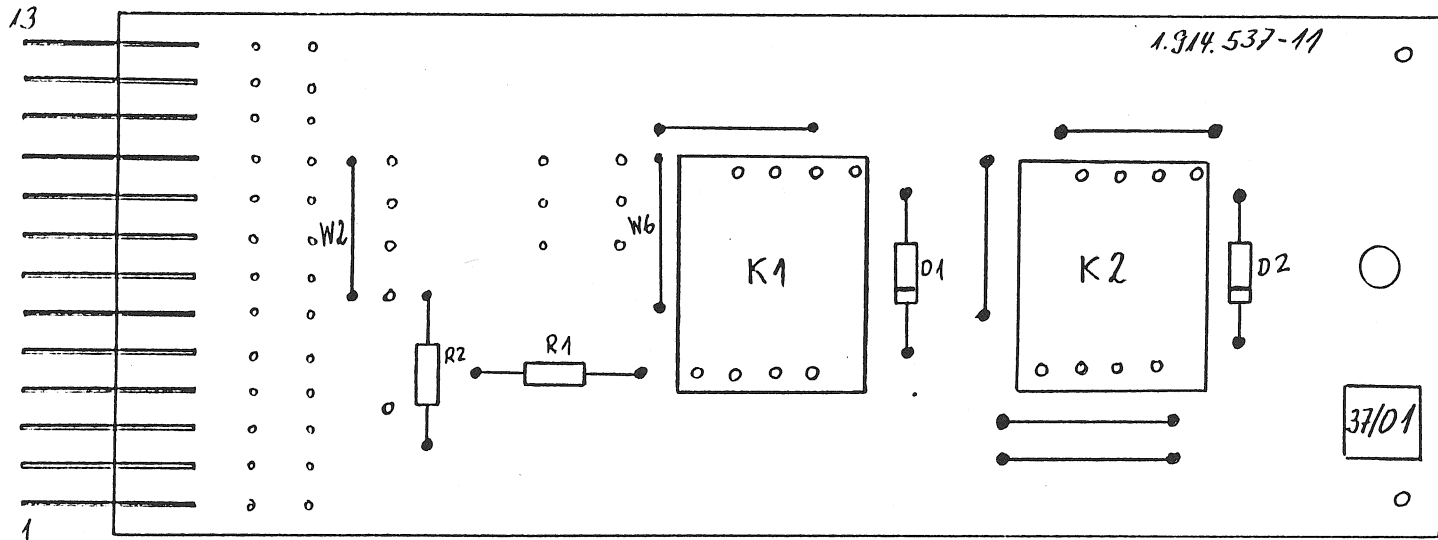


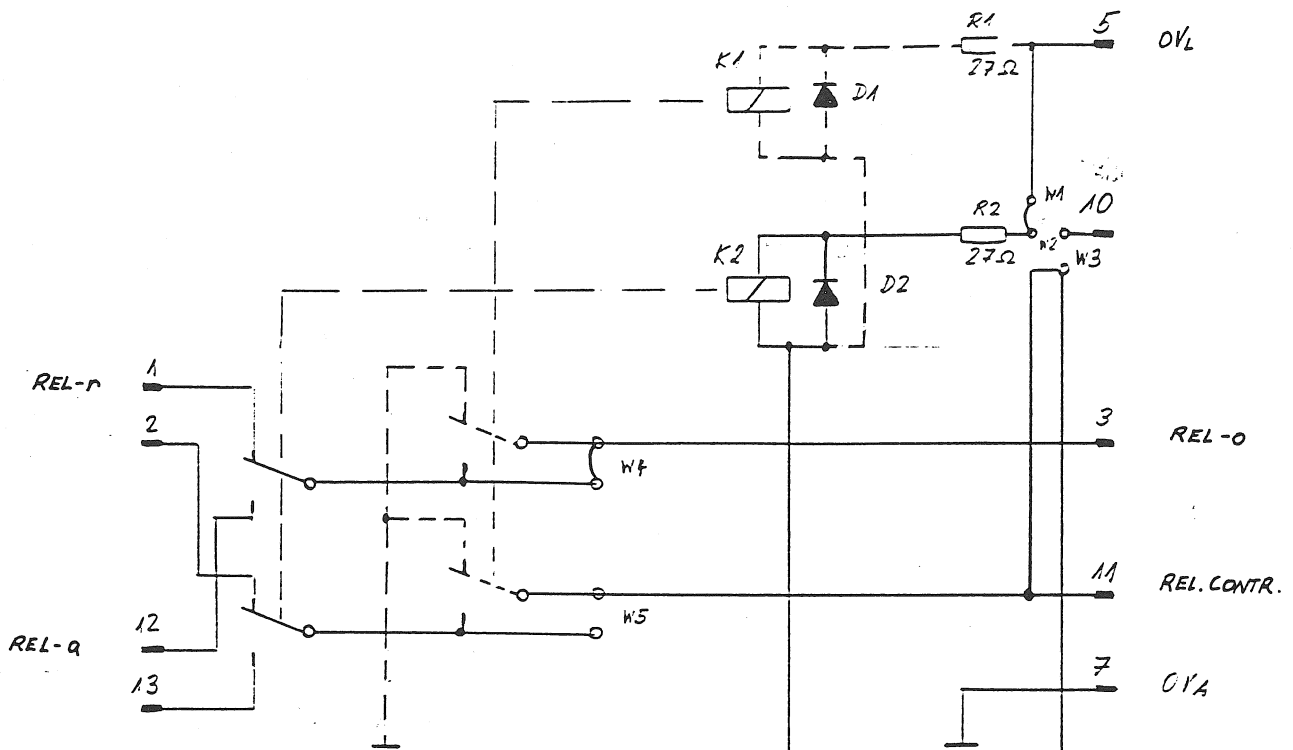


D1, 2 = 1N4448 50.04.0125
 K1, 2 = SM25V 56.04.0170
 Q = BC 337-25 50.03.034D

CIS 13 P		FIN	(a)	(b)	(c)	(d)
INP. TALK - b	13		1	7	21	27
INP. TALK - a	12		2	8	22	28
OUTP. RET-HY - b	11		3	9	23	29
REL. CONTR. TALK-S	10		17	17	18	18
-6V _L	9		12			
	8		14			
OVA	7		15			
	6		16			
REL. CONTR. TALK+RET-S	5		19			
	4		20			
OUTP. RET-HY - a	3		4	10	24	30
INP. RET - b	2		5	11	25	31
INP. RET - a	1		6	13	26	32

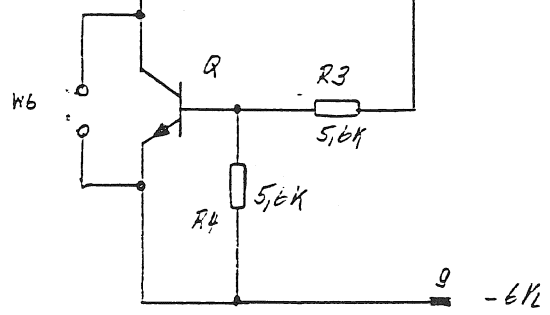
7.3.90	HA
RELAY 2	1	DB	...
RTL CENTRE KIRCHBERG			PAGE 2 OF 2
			1.914.537/101

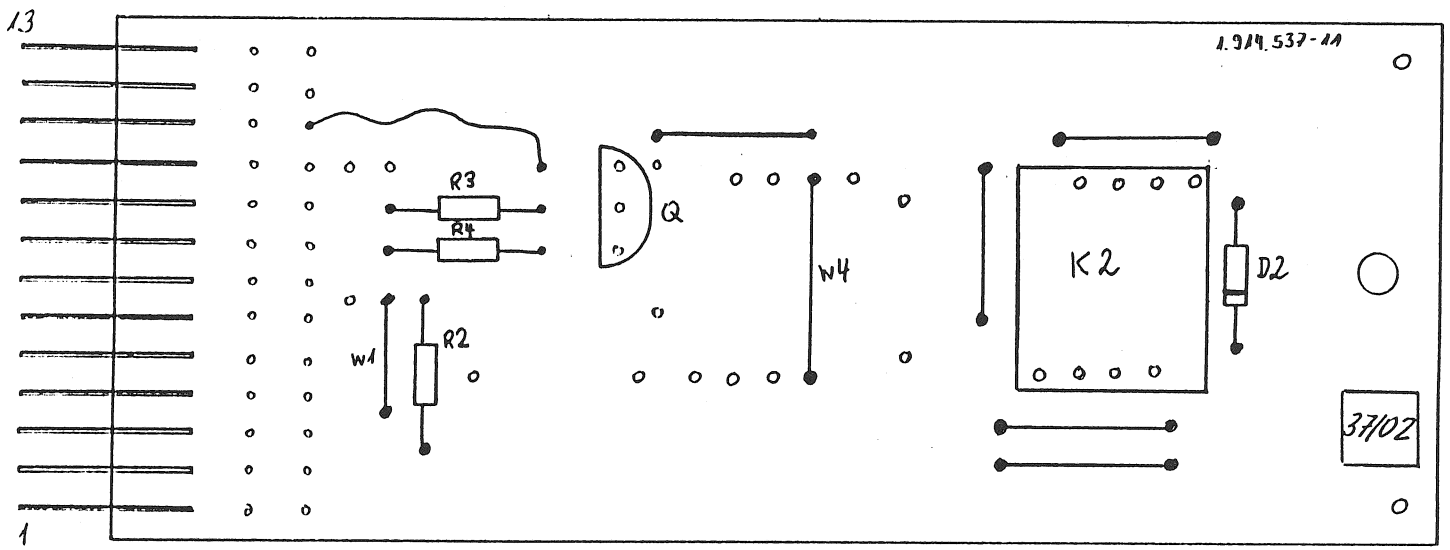




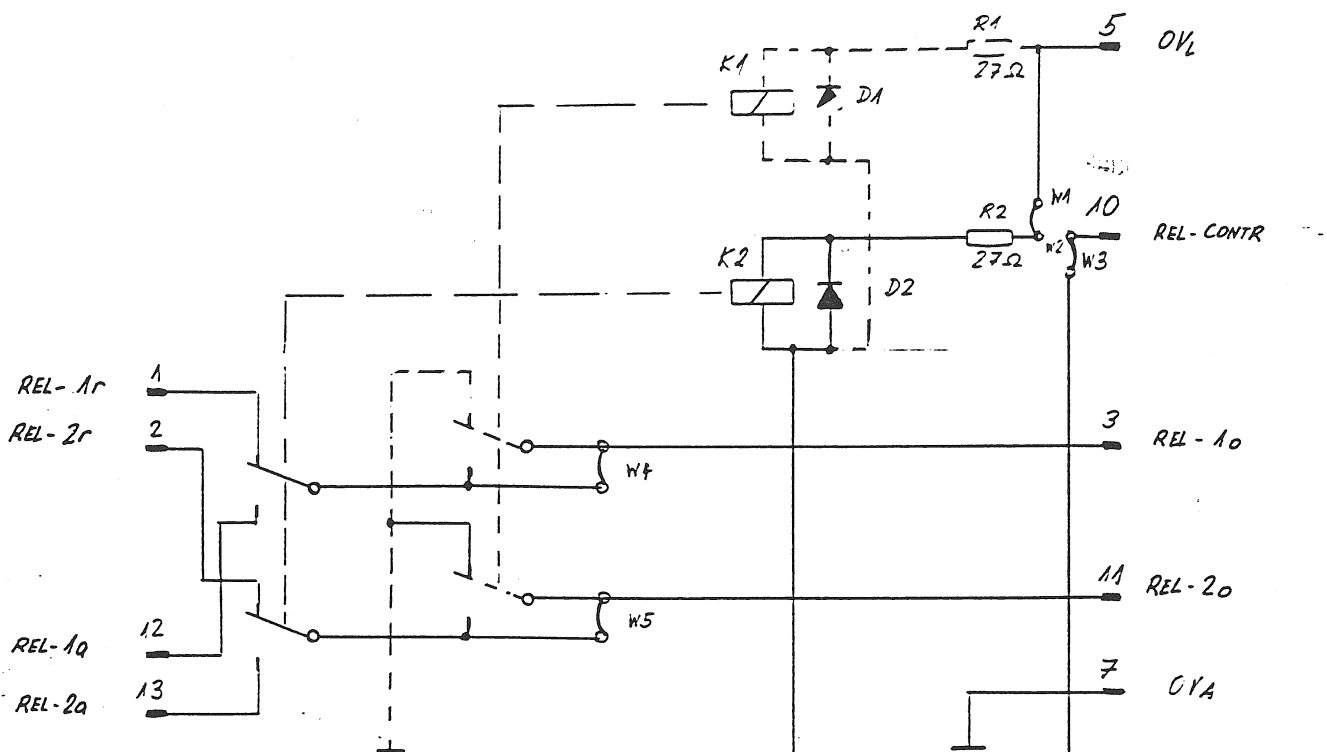
D 2 = 1N4448 50.04.0125
 K 2 = SM25V 56.04.0170
 Q = BC337-25 50.03.0340

CIS 13 P		PIN	(a)	(b)	(c)	(d)
		13	1	7	21	27
REL-q		12	2	8	22	28
REL.CONTR.		11	3	9	23	29
		10	17	17	18	18
	-6V _L	9	12			
		8	14			
	OVA	7	15			
		6	16			
	0V _L	5	19			
		4	20			
REL-o		3	4	10	24	30
		2	5	11	25	31
REL-p		1	6	13	26	32



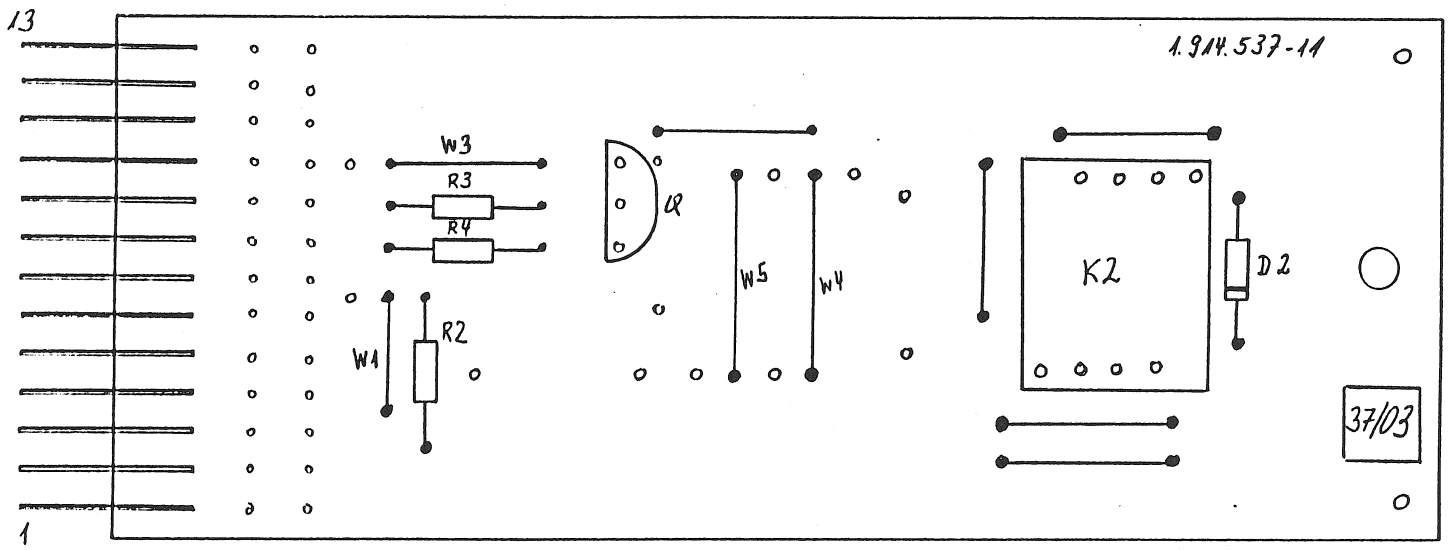


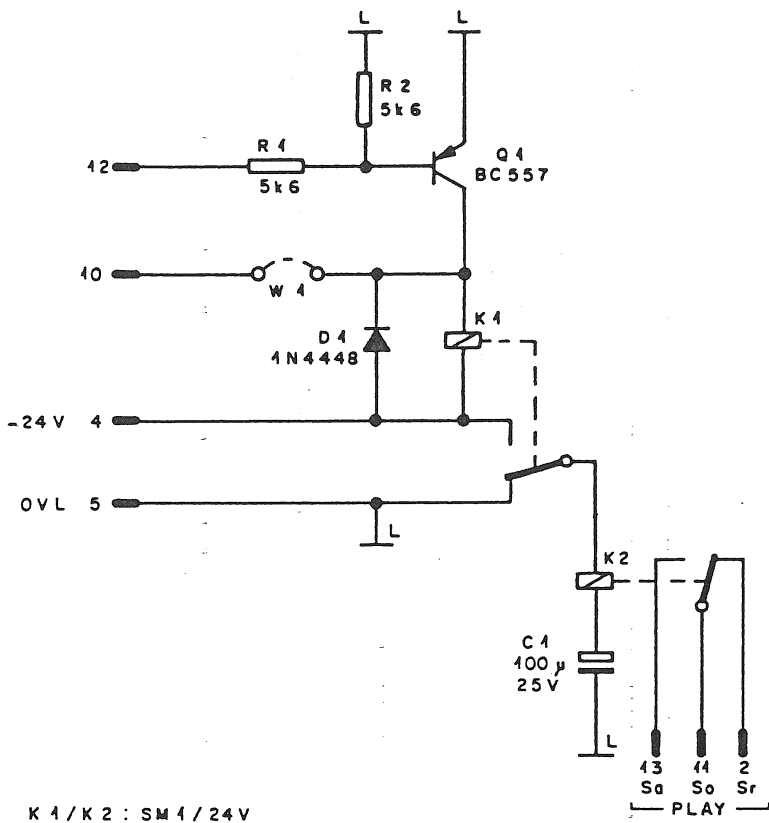
7.3.90
 RYL CENTRE KIRCHBERG
 RELAY 2 / GROUP FADER
 PAGE 2 OF 2
 1.914.537/102



D 2 = 1N4448 50.04.0125
 K 2 = SH25V 56.04.0170
 Q = BC337-25 50.03.0340

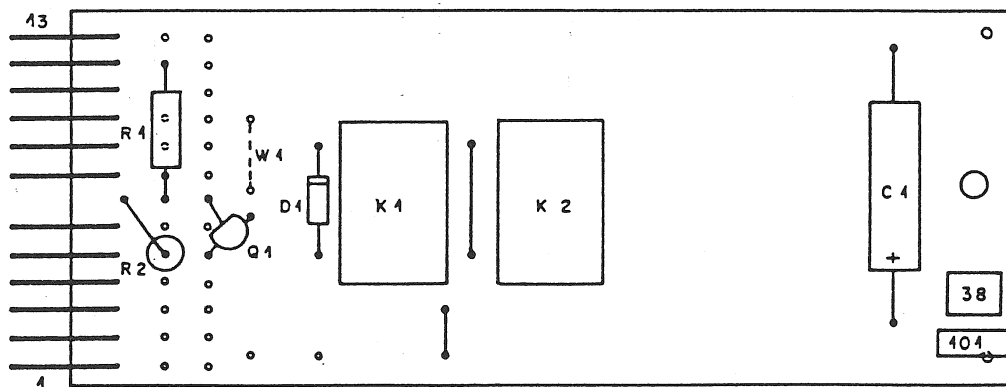
CIS 13 P		PIN	(a)	(b)	(c)	(d)
REL-2a	13	1	7	21	27	
REL-1a	12	2	8	22	28	
REL-2o	11	3	9	23	29	
REL-CONTR.	10	17	17	18	18	
-6V _L	9	12				
	8	14				
OYA	7	15				
	6	16				
OVL	5	19				
	4	20				
REL-1o	3	4	10	24	30	
REL-2r	2	5	11	25	31	
REL-1r	1	6	13	26	32	





K 1 / K 2 : SM 1 / 24 V

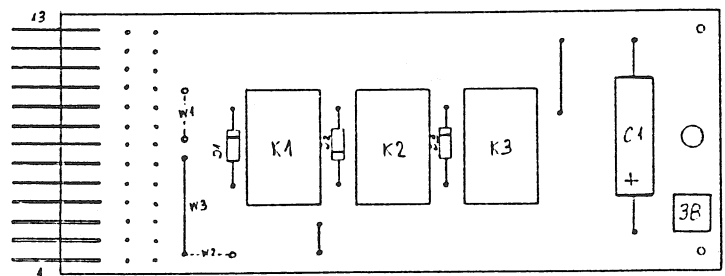
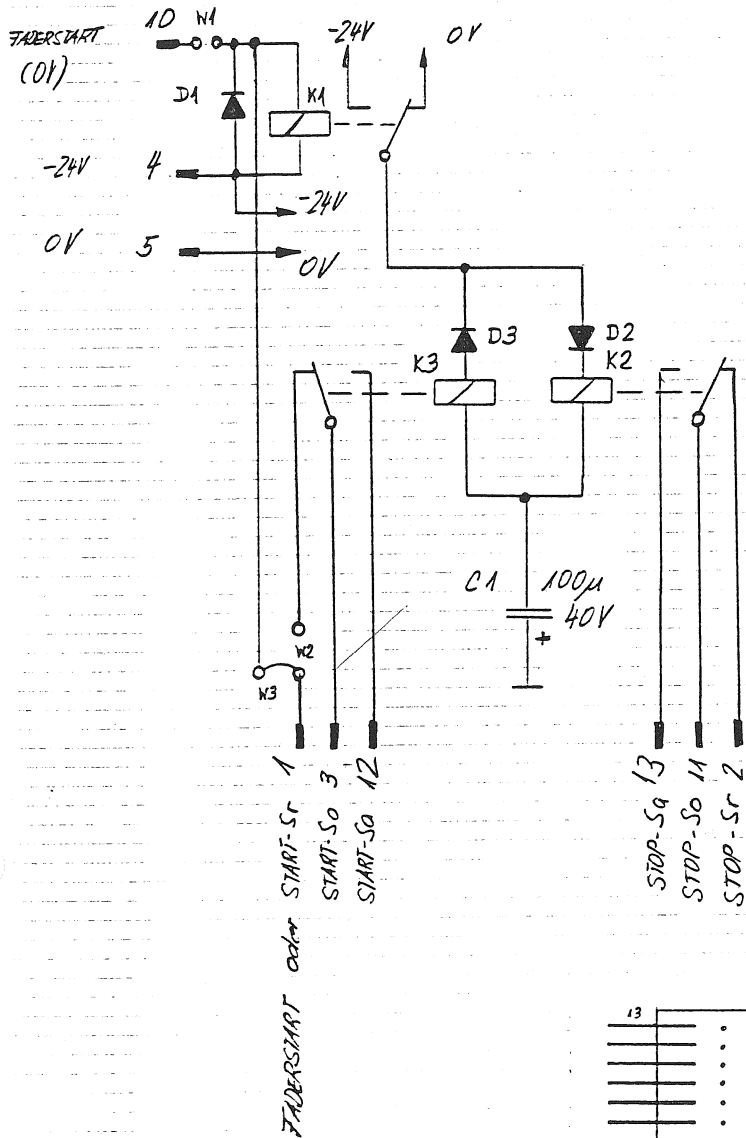
CIS 13 P.	PIN	(a)	(b)	(c)	(d)
PLAY Sa	13	4	7	24	27
FADER SIGN. (-6V)	12	2	8	22	28
PLAY So	44	3	9	23	29
FADER SIGN. (0V)	10	17	17	18	18
	9	42			
	8	14			
	7	15			
	6	16			
OVL	5	49			
-24V	4	20			
	3	4	40	24	30
PLAY Sr	2	5	44	25	34
	1	6	13	26	32



© 25.5.94 <i>je</i>	○	○	○	○
STUDER REGENSDORF ZÜRICH	FADER START IMPULS RELAYS			1.914.538/101

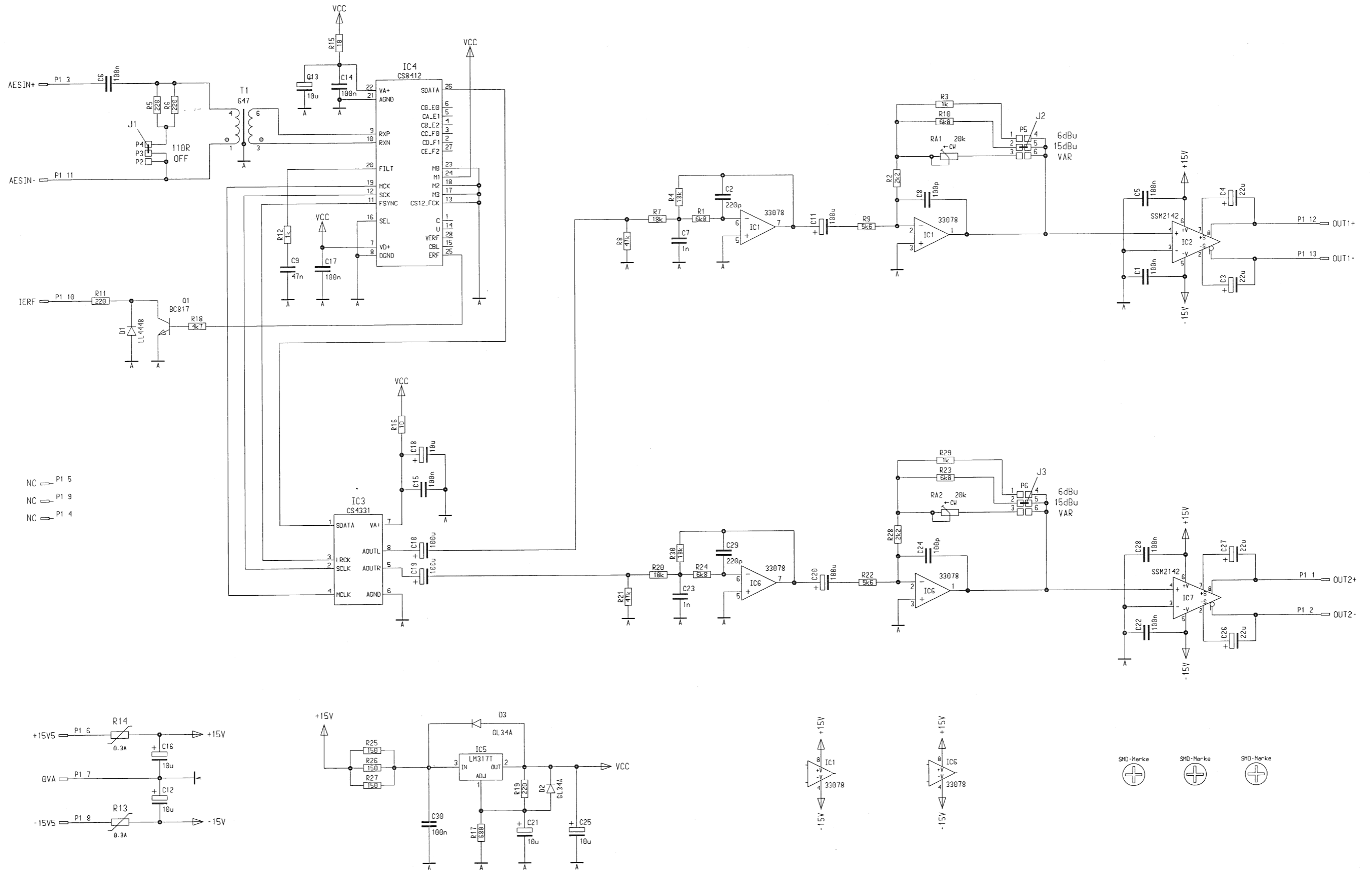
CIS 13 P

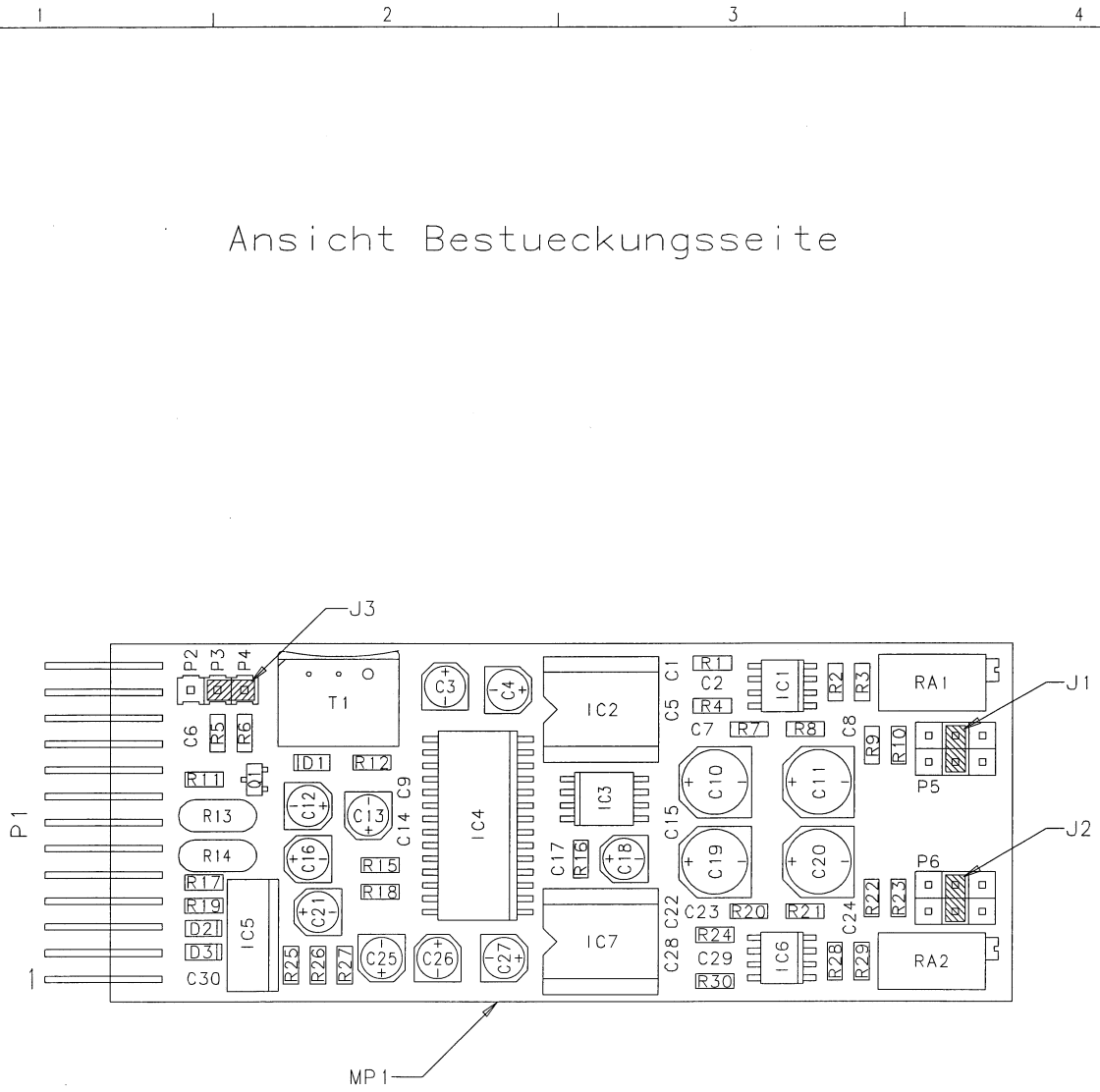
	FIN	a	b	c	d
STDP-Sa	13	1	7	21	27
START-Sa	12	2	8	22	28
STDP-So	14	3	9	23	29
FADERSTART OV (START-Sr)	10	17	17	18	18
	9	12			
	8	14			
	7	15			
	6	16			
OV _L	5	19			
-24V	4	20			
START-So	3	4	10	24	30
STOP-Sr	2	5	11	25	31
FADERSTART OV (START-Sr)	1	6	13	26	32



K1, K3: SH4 124V

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Accompanying documents: Zugehoerige Unterlagen: PL		General tolerance: Freimasstoleranz:	Scale: Masstab: 1.5:1	Edition Ausgabe	29.06.2001	ZT	ML	HW	⊙
Substitute for: Ersatz fuer:				Page: Seite:	1 / 1				
STUDER REGENSDORF		Description: Benennung: D/A CONVERTER, ESE		Z	Number: Number: 1.914.550.00				
					Date Datum	Visa Gez.	Checked Gepr.	Seen Ges.	Index

Parts List

STUDER Professional Audio AG

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805
0	C 2	59.63.1105	1 pce	220p	PPS 50V, 2%, 0805
0	C 3	59.68.0025	1 pce	22u	EL 6V, 4.0*5.7
0	C 4	59.68.0025	1 pce	22u	EL 6V, 4.0*5.7
0	C 5	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805
0	C 6	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805
0	C 7	59.63.1113	1 pce	1n0	PPS 50V, 2%, 0805
0	C 8	59.60.2249	1 pce	100p	CER 50V, 5%, COG, 0603
0	C 9	59.60.3333	1 pce	47n	CER 50V, 10%, X7R, 0805
0	C 10	59.68.0029	1 pce	100u	EL 6V, 6.3*5.7
0	C 11	59.68.0029	1 pce	100u	EL 6V, 6.3*5.7
0	C 12	59.68.0065	1 pce	10u	EL 16V, 4.0*5.7
0	C 13	59.68.0065	1 pce	10u	EL 16V, 4.0*5.7
0	C 14	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805
0	C 15	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805
0	C 16	59.68.0065	1 pce	10u	EL 16V, 4.0*5.7
0	C 17	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805
0	C 18	59.68.0065	1 pce	10u	EL 16V, 4.0*5.7
0	C 19	59.68.0029	1 pce	100u	EL 6V, 6.3*5.7
0	C 20	59.68.0029	1 pce	100u	EL 6V, 6.3*5.7
0	C 21	59.68.0065	1 pce	10u	EL 16V, 4.0*5.7
0	C 22	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805
0	C 23	59.63.1113	1 pce	1n0	PPS 50V, 2%, 0805
0	C 24	59.60.2249	1 pce	100p	CER 50V, 5%, COG, 0603
0	C 25	59.68.0065	1 pce	10u	EL 16V, 4.0*5.7
0	C 26	59.68.0025	1 pce	22u	EL 6V, 4.0*5.7
0	C 27	59.68.0025	1 pce	22u	EL 6V, 4.0*5.7
0	C 28	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805
0	C 29	59.63.1105	1 pce	220p	PPS 50V, 2%, 0805
0	C 30	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805
0	D 1	50.60.8001	1 pce	4448	200mA 75V 4ns SOD 80
0	D 2	50.60.8002	1 pce	GL34A	500mA 50V DO 213
0	D 3	50.60.8002	1 pce	GL34A	500mA 50V DO 213
0	IC 1	50.61.0204	1 pce	MC33078	Dual Op-Amp low noise
0	IC 2	50.09.0124	1 pce	2142	Audio balanced line driver
0	IC 3	50.61.8003	1 pce	CS4331	D/A Converter 18bit Ste SO 8
0	IC 4	50.62.0913	1 pce	CS8412	AES-Receiver
0	IC 5	50.10.0104	1 pce	LM317SP	Series regulator 1.5A ...+37V
0	IC 6	50.61.0204	1 pce	MC33078	Dual Op-Amp low noise
0	IC 7	50.09.0124	1 pce	2142	Audio balanced line driver
0	J 1	54.01.0021	1 pce	Jumper	0.63*0.63mm, Au
0	J 2	54.01.0021	1 pce	Jumper	0.63*0.63mm, Au
0	J 3	54.01.0021	1 pce	Jumper	0.63*0.63mm, Au
0	MP 1	1.914.550.11	1 pce		DA Converter PCB

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STUDER	DA Converter			PL	1.914.550.00 00

Parts List
STUDER Professional Audio AG

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
0	MP 2	1.914.550.04	1 pce		NR.-ETIKETTE 5 * 20
0	MP 3	43.01.0108	1 pce	Label	ESE-WARNSCHILD
0	P 1	54.01.0273	1 pce	13p	P LEISTE 13 POL CIS WINKEL
0	P 2	54.01.0020	1 pce	1p	Pin, 1reihig, gerade
0	P 3	54.01.0020	1 pce	1p	Pin, 1reihig, gerade
0	P 4	54.01.0020	1 pce	1p	Pin, 1reihig, gerade
0	P 5	54.11.0136	1 pce	2*3p	Pin 0.63*0.63, RM2.54
0	P 6	54.11.0136	1 pce	2*3p	Pin 0.63*0.63, RM2.54
0	Q 1	50.60.0050	1 pce	BC817-25	NPN 45V 800mA SOT 23
0	R 1	57.60.1682	1 pce	6k8	MF, 1%, 0204, E24
0	R 2	57.60.1222	1 pce	2k2	MF, 1%, 0204, E24
0	R 3	57.60.1102	1 pce	1k0	MF, 1%, 0204, E24
0	R 4	57.60.1183	1 pce	18k	MF, 1%, 0204, E24
0	R 5	57.60.1221	1 pce	220R	MF, 1%, 0204, E24
0	R 6	57.60.1221	1 pce	220R	MF, 1%, 0204, E24
0	R 7	57.60.1183	1 pce	18k	MF, 1%, 0204, E24
0	R 8	57.60.1473	1 pce	47k	MF, 1%, 0204, E24
0	R 9	57.60.1562	1 pce	5k6	MF, 1%, 0204, E24
0	R 10	57.60.1682	1 pce	6k8	MF, 1%, 0204, E24
0	R 11	57.60.1221	1 pce	220R	MF, 1%, 0204, E24
0	R 12	57.60.1102	1 pce	1k0	MF, 1%, 0204, E24
0	R 13	57.92.7012	1 pce	0.3A	PTC 60V
0	R 14	57.92.7012	1 pce	0.3A	PTC 60V
0	R 15	57.60.1100	1 pce	10R	MF, 1%, 0204, E24
0	R 16	57.60.1100	1 pce	10R	MF, 1%, 0204, E24
0	R 17	57.60.1681	1 pce	680R	MF, 1%, 0204, E24
0	R 18	57.60.1472	1 pce	4k7	MF, 1%, 0204, E24
0	R 19	57.60.1221	1 pce	220R	MF, 1%, 0204, E24
0	R 20	57.60.1183	1 pce	18k	MF, 1%, 0204, E24
0	R 21	57.60.1473	1 pce	47k	MF, 1%, 0204, E24
0	R 22	57.60.1562	1 pce	5k6	MF, 1%, 0204, E24
0	R 23	57.60.1682	1 pce	6k8	MF, 1%, 0204, E24
0	R 24	57.60.1682	1 pce	6k8	MF, 1%, 0204, E24
0	R 25	57.60.1151	1 pce	150R	MF, 1%, 0204, E24
0	R 26	57.60.1151	1 pce	150R	MF, 1%, 0204, E24
0	R 27	57.60.1151	1 pce	150R	MF, 1%, 0204, E24
0	R 28	57.60.1222	1 pce	2k2	MF, 1%, 0204, E24
0	R 29	57.60.1102	1 pce	1k0	MF, 1%, 0204, E24
0	R 30	57.60.1183	1 pce	18k	MF, 1%, 0204, E24
0	RA 1	58.05.0203	1 pce	20k	10%, 0.5W, Cermet
0	RA 2	58.05.0203	1 pce	20k	10%, 0.5W, Cermet
0	T 1	1.022.647.00	1 pce	1:1.4	OUTPUT TRAFO AES/EBU

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STUDER	DA Converter			PL	1.914.550.00 00

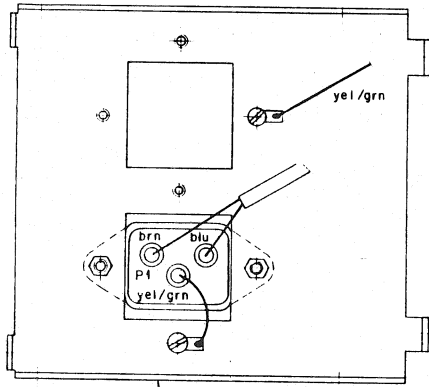
Parts List**STUDER Professional Audio AG**

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
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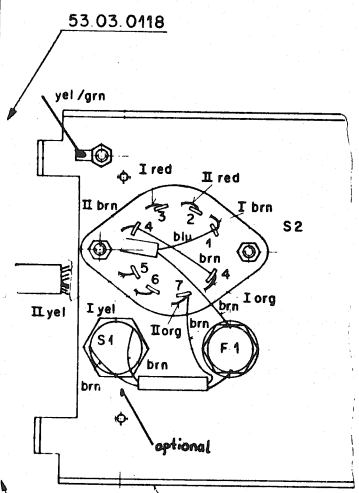
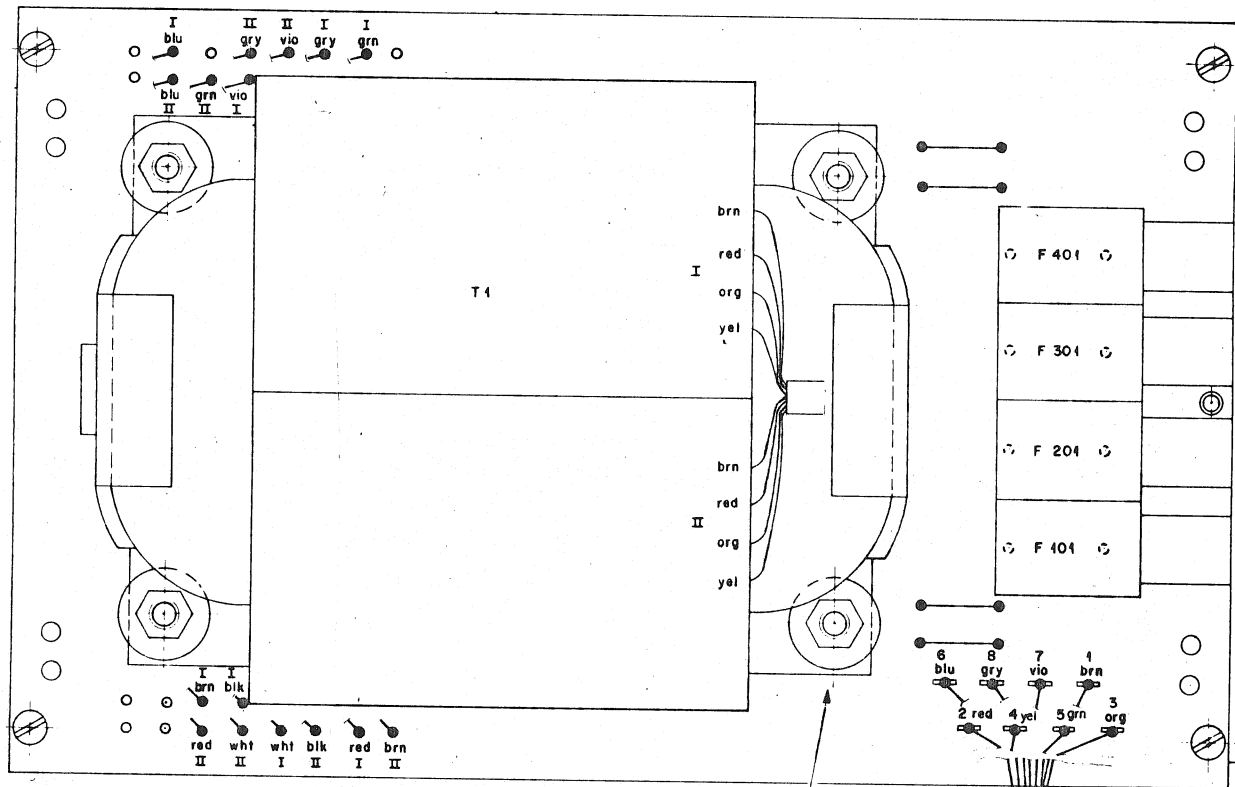
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Comments:

	F	Issue	25.Jun.2001	by ZT	Page 3 / 3
STUDER		DA Converter	PL	1.914.550.00	00



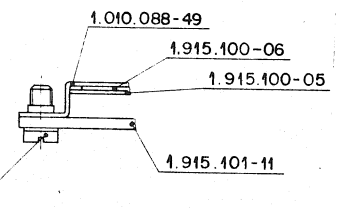
1.915.100-03



53.03.0118

28.21.1350

1.915.100-02



21.01.0279
24.16.1025

1.010.088-49

1.915.100-06

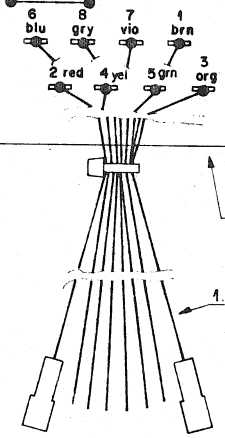
1.915.100-05

1.915.101-11

21.01.0455
24.16.1040
23.01.3043
22.01.8040

54.02.0320 (8 x)

1.915.101-93

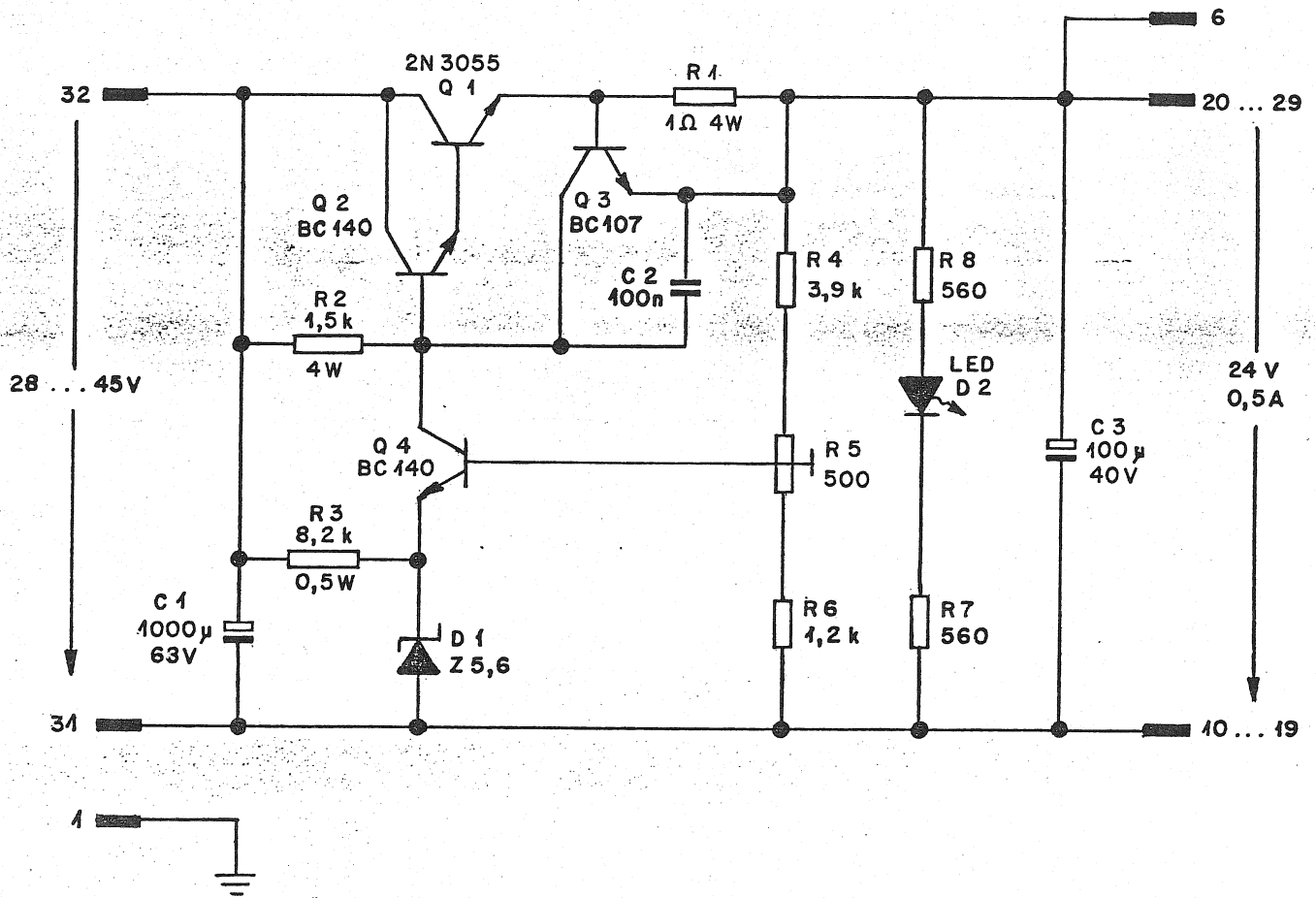


1.010.006-33

TO STABILIZER PCB 1.915.402

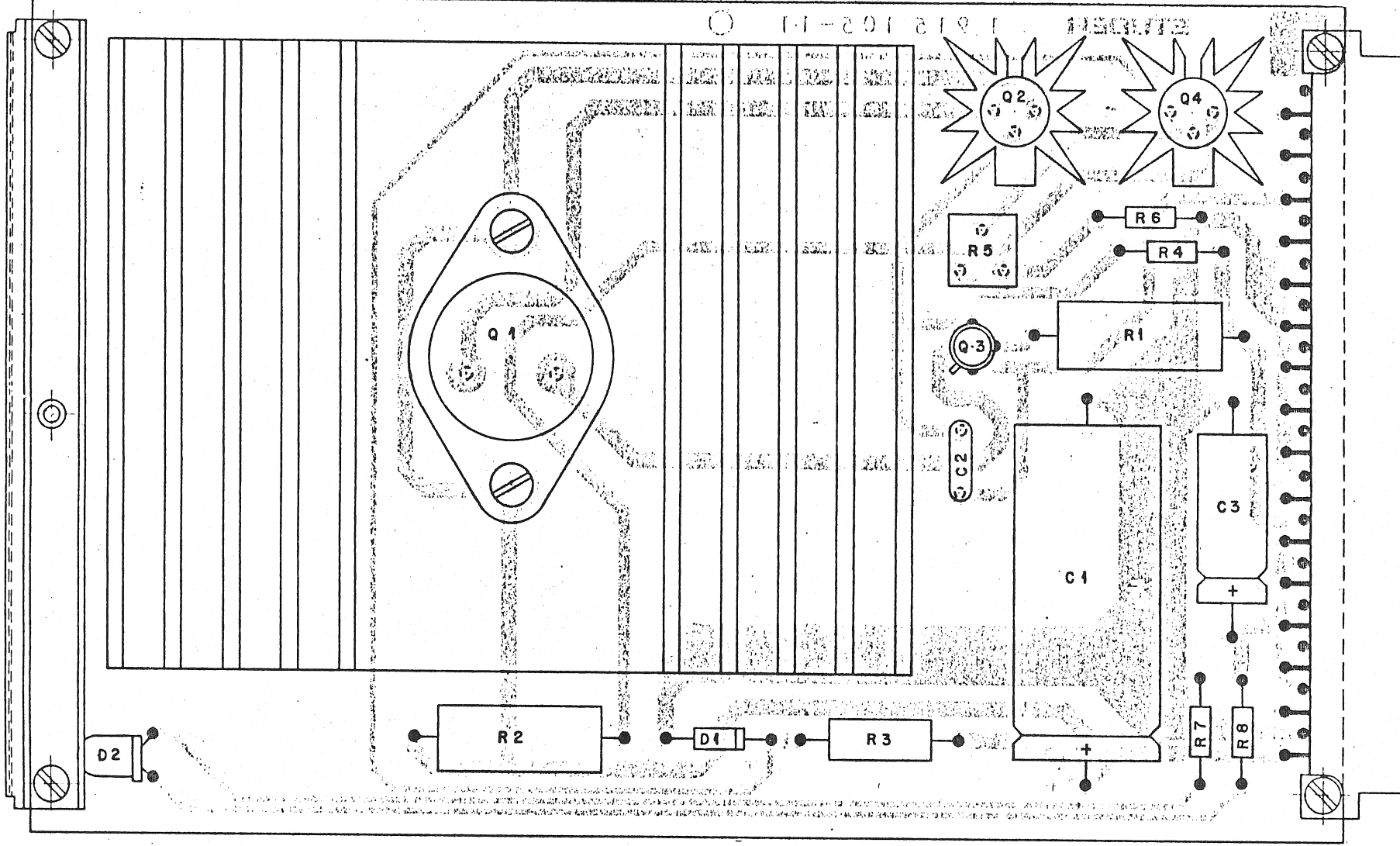
Werkstoff Norm-Nr.: DIN-Bez.:	Güte: Beh.:		Änderung ① ② ③
Abmessung:	Oberfläche:		
Zugehörige Unterlagen: PL 1.915.400	Freimasstoleranz: +	Maßstab: 2:1 (1:1)	Ausgabe 20.11.79 Ho Datum Gez. Gepr. Ges. Inde
Ersatz für:	Ersetzt durch:	Kopie für:	
STUDER REGENSDORF ZÜRICH		Benennung: Trafo - Print	
Nummer: 1.915.101-00			

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 Riproduzione o messa a terzi vietata

Zugehörige Unterlagen:		Freimasstoleranz:	Maßstab:	Ausgabe		18.1.80	si	We	⊙
		±		Datum	Gez.	Gepr.	Ges.	Index	
Ersatz für:		Ersetzt durch:		Kopie für:					
STUDER REGENSDORF ZÜRICH		Benennung: SIGN. POWER STABILIZER				Nummer: SC 1.915.105			



Zugehörige Unterlagen:		Freimassoleranz:	Maßstab:	Ausgabe	
PL		t.	2:1	Datum	Gepr. Ges. Index
Ersatz für		Ersetzt durch		Kopie für:	
STUDER REGENSDORF ZÜRICH		Sign. Power Stabilizer		1.915.105-00	

STABILISATOR 5 ... 24 V

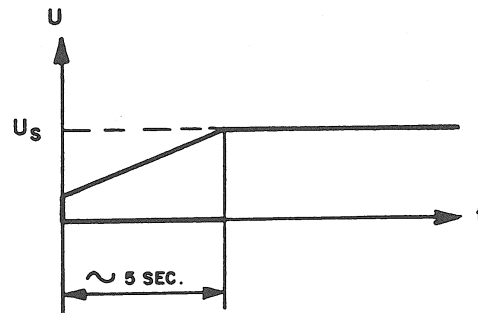
Spannungsstabilisator dessen Ausgangsspannung und Kurzschlussstrom mit Widerständen extern einstellbar ist. Mit Ausnahme der Phantom Stromversorgung werden alle in den Mischpulten der Serie 900 benötigten Betriebsspannungen mit demselben Kartentyp stabilisiert.

Leuchtdiode zur Anzeige des Betriebszustandes.

Drei von vorne zugängliche Messpunkte zur Kontrolle der Referenz- und Ausgangsspannung

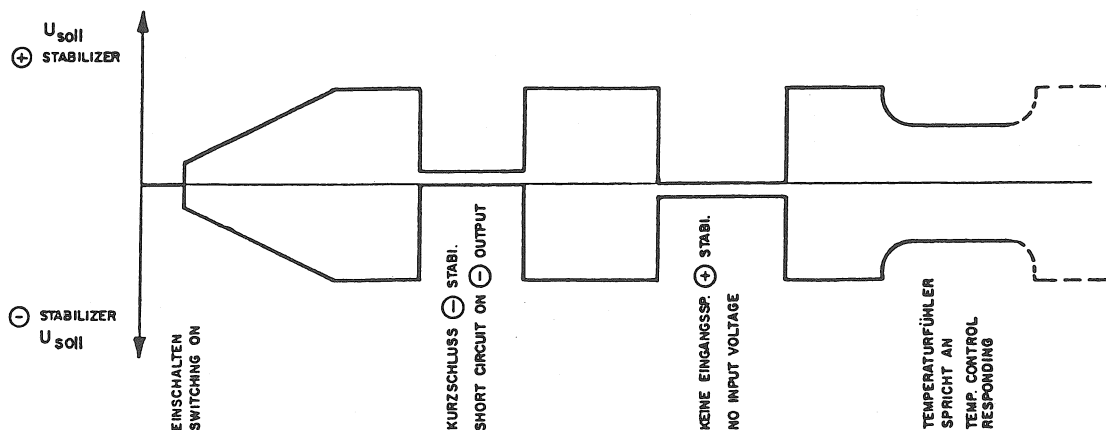
Schutzeinrichtungen:

- "Crow Bar" schaltet ab bei zu hoher Ausgangsspannung
- Temperaturüberwachung am Regeltransistor
- Verpolungsschutz am Ausgang
- Langsames Hochfahren der Spannung beim Einschalten



Beim Betrieb als Doppelstabilisator für die Stromversorgung von Verstärkern mit positiver und negativer Speisespannung werden zwei Stabilisatorkarten gekoppelt.

Die Ausgangsspannung des einen Stabilisators steuert die Ausgangsspannung des anderen (Tracking)



Damit werden die Koppelkondensatoren der angeschlossenen Audioverstärker nicht unnötig belastet.

STABILIZER 5 ... 24 V

The output voltage and the short-circuit current of this voltage stabilizer are externally adjustable with resistors. Except for the phantom supply, all operating voltages of the Series 900 mixers are stabilized with the same type of circuit board.

Pilot LED for indicating the operating status.

Three test points for checking the reference voltage and the output voltage are accessible from the front.

Protective features:

- Crow bar disconnects if overvoltages are detected
- Temperature monitoring at regulating resistor
- Polarity confusion protection at output
- Slow voltage run-up when unit is switched on

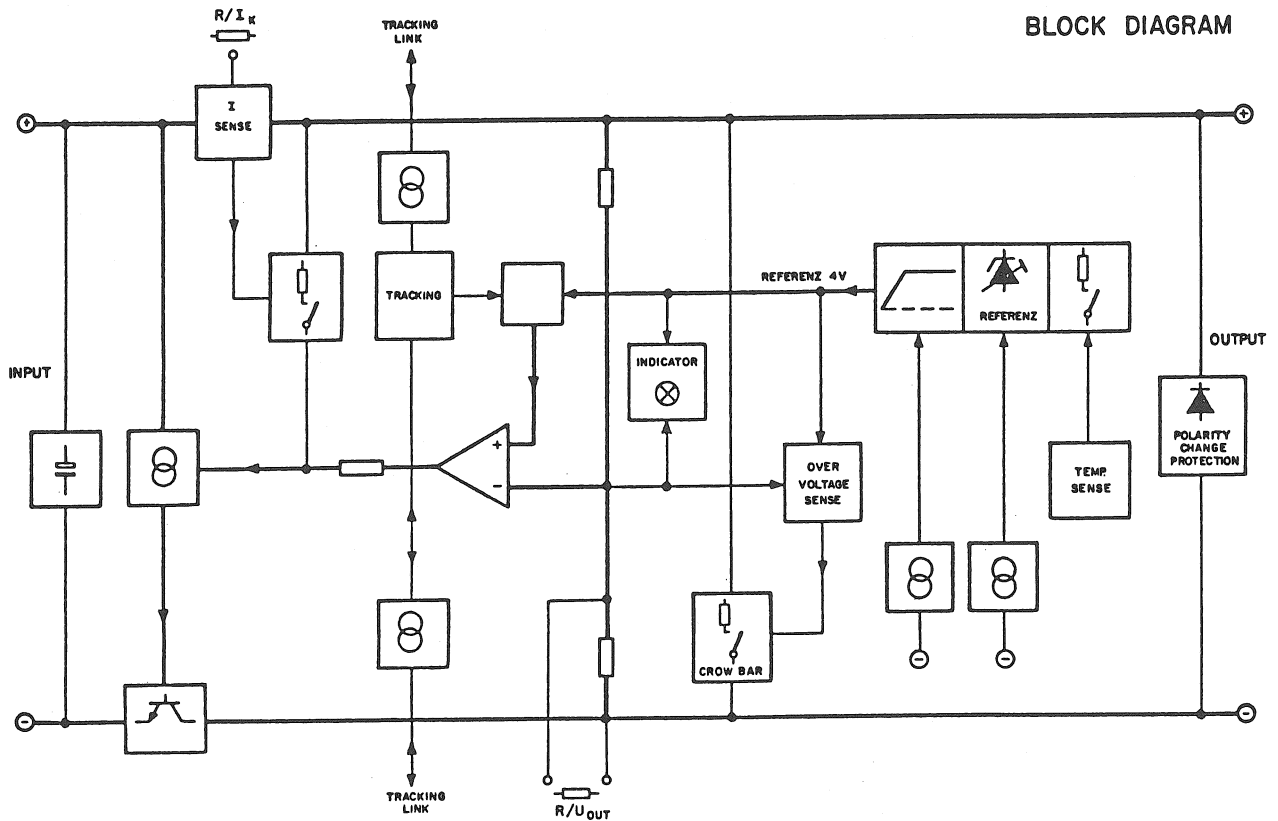
Dual stabilizer operation for supplying amplifiers with negative and positive supply voltages is possible by coupling two stabilizers boards.

The output voltage of the first stabilizer controls the output voltage of the other (tracking)

In this manner the coupling capacitors of the audio amplifiers are not unnecessarily loaded.

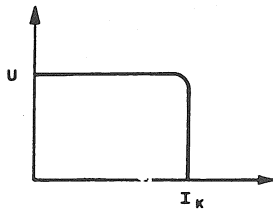
Blockschaltbild

Block Diagram



TECHNISCHE DATEN

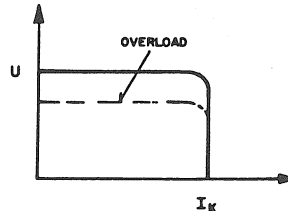
- Ausgangsspannung extern programmierbar
- Minimale Eingangsspannung (ohne Ripple)
- Maximale Eingangsspannung
- Kurzschlussstrom extern programmierbar
- Max. Verlustleistung am Kühlblech
- Kurzschlussverhalten
- Bei Ueberlast regelt der Temperatursensor die Ausgangsspannung zurück.



- Ueberspannungsschutz spricht an bei ca. 15 % Ueberspannung am Ausgang
- Ueberlagerte Brummspannung $U_{Br} \leq 100 \mu V$
- Leerlaufstrom $I_{oa}(U_{in} 30V) = 30 \text{ mA}$

SPECIFICATIONS

- Output voltage externally programmable $U = 5 \div 24 \text{ V}$
- Minimum input voltage (without ripple) $U_{min} = U + 1,5 \text{ V}$
- Maximum input voltage $U_{max} = 36 \text{ V}$
- Short-circuit current, externally progr. $I_{ki} \approx 0,5 \dots 4,5 \text{ A}$
- Max. power dissipation at heat sink $P \text{ ca. } 18 \text{ W}$
- Short circuit response
- In the event of an overload the output voltage is regulated down by the temperature sensor



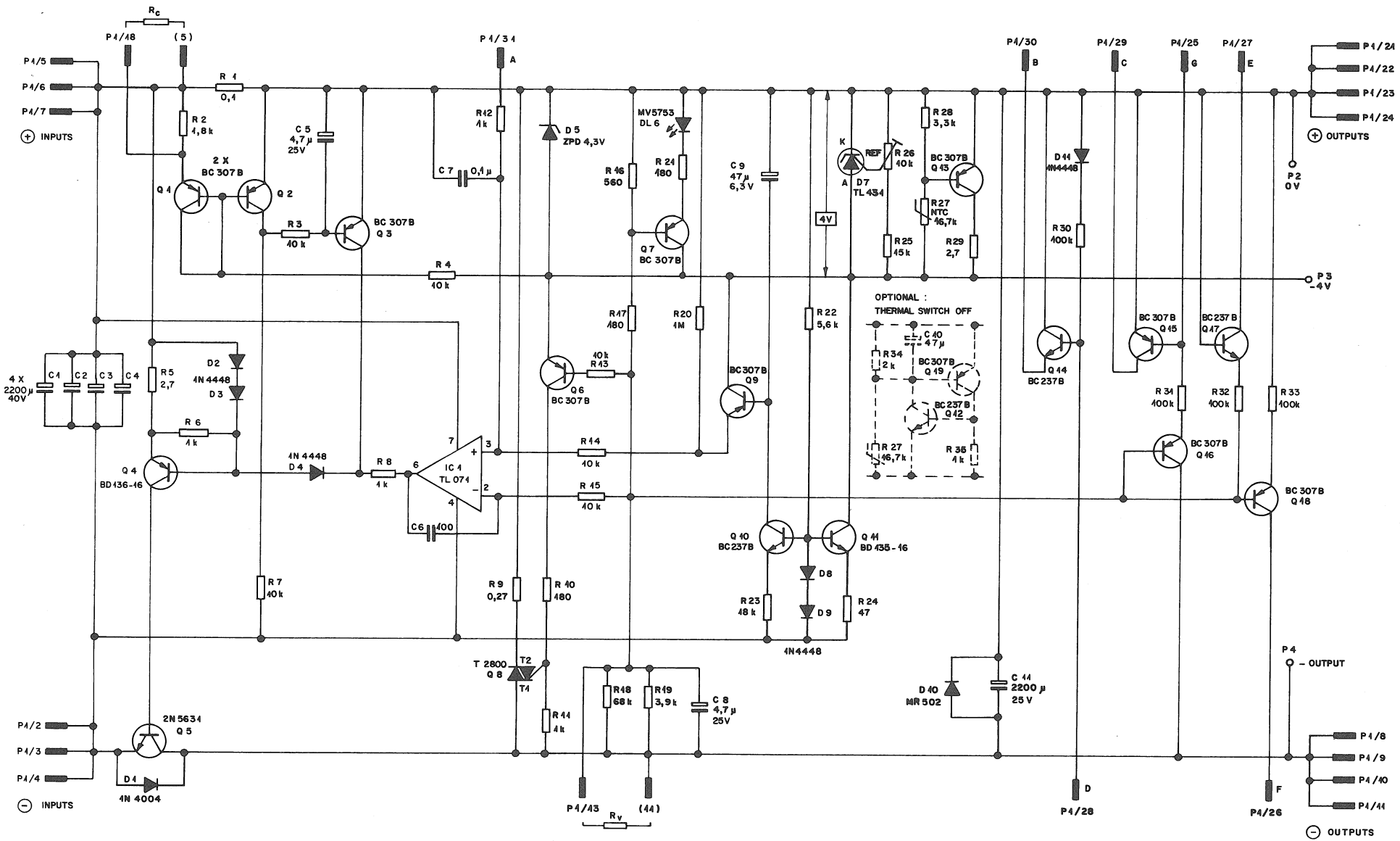
- Over-voltage sense responds at approx. 15 % excess output voltage
- Superimposed ripple voltage $U_{Br} 100 \mu V$
- No-load current $I_{oa} 30 \text{ V } U_{in} = 30 \text{ mA}$

MECHANISCHE DATEN

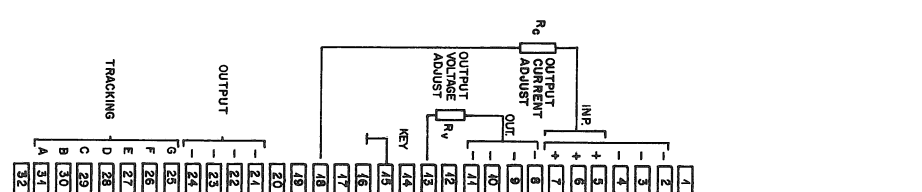
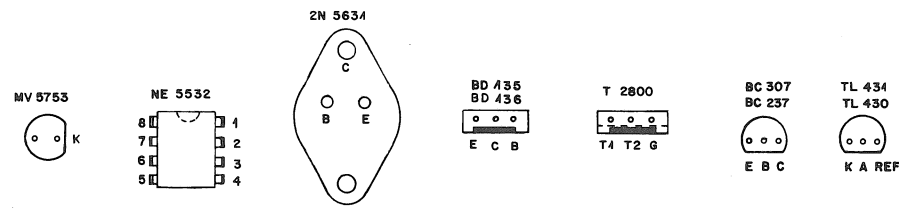
- Abmessungen Europakarte 100 mm x 160 mm
- Breite 33 mm, 7 M
- Steckersystem DIN 41 612 TYP B
- Gewicht ca. 360 gr

MECHANICAL DATA

- Dimensions "Europe" PCB 100 x 160 mm
- Width 33 mm, 7 M
- Connector system DIN 41 612, type B
- Weight 500 g

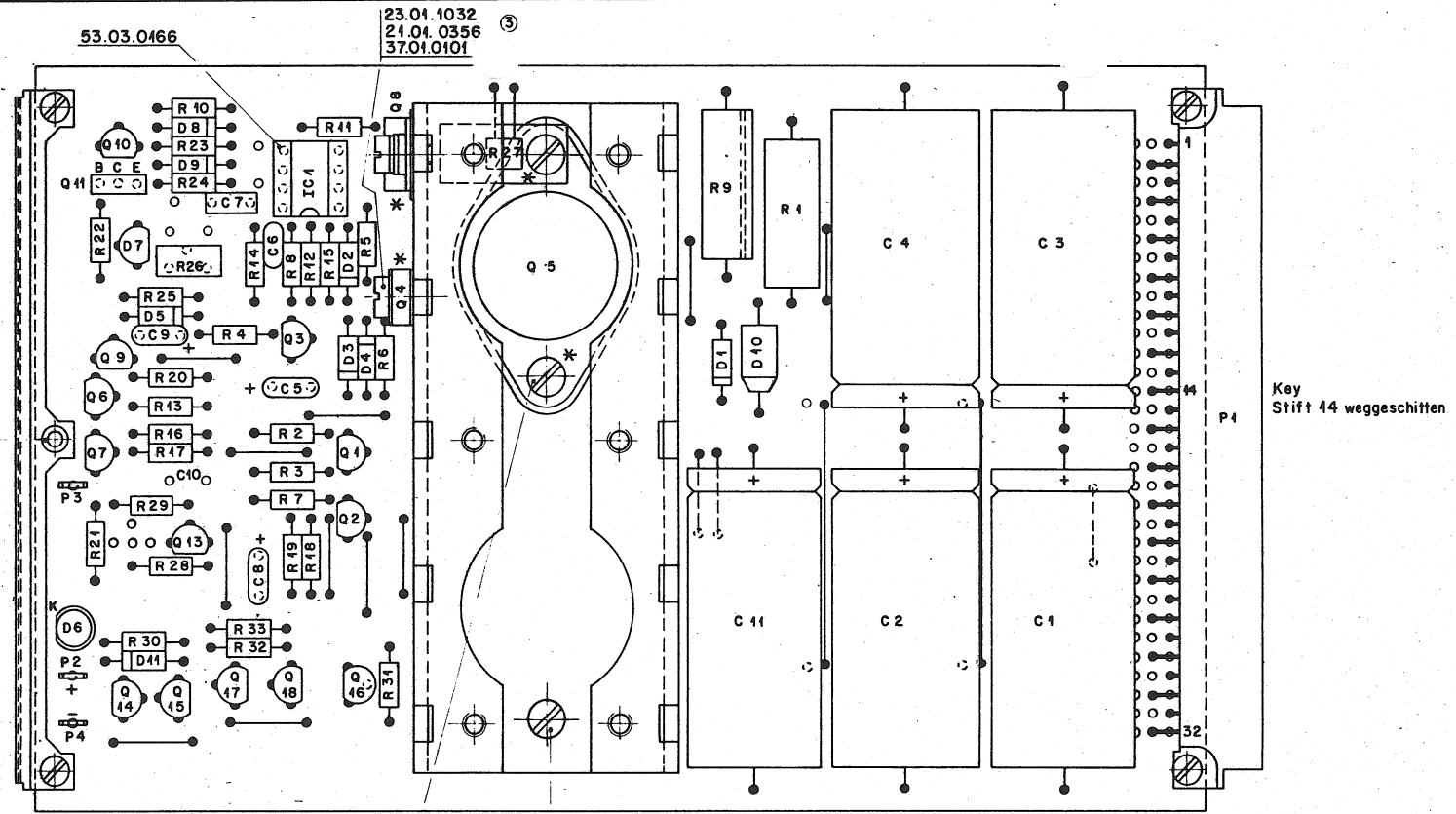


① $R_c = \infty, R_v = \infty : U_{out} = 24V, I_{out} \approx 4,5A$



STUDIER REGENSDORF ZÜRICH	DATE:	2.12.81
	SIGN:	<i>[Signature]</i>
STABILIZER 5 ÷ 24 V	DATE:	22.6.83
	SIGN:	<i>[Signature]</i>
SC 1.915.106		

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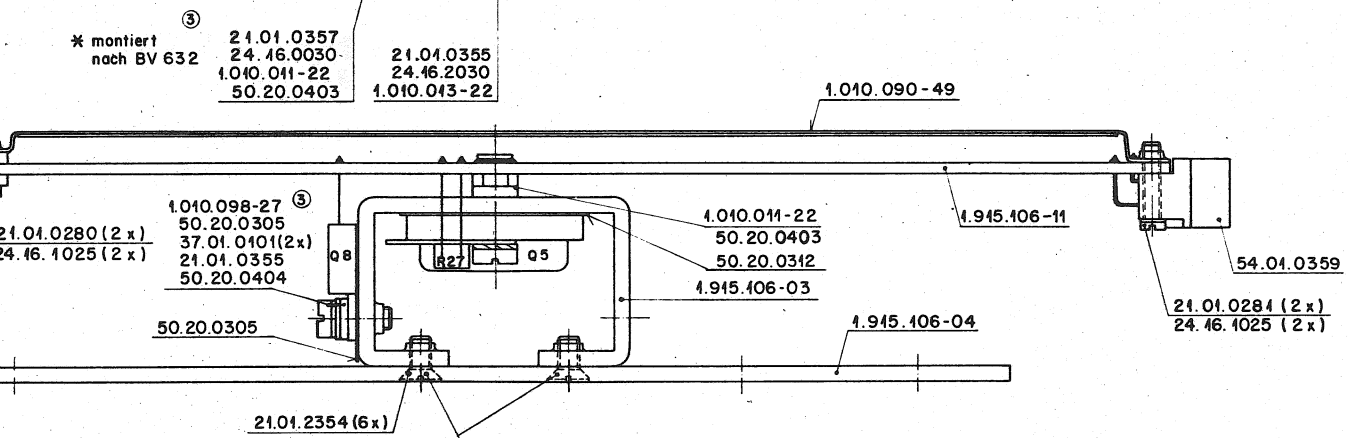


STABILIZER 5 + 24 V

1.945.406-00

Key
Stift 14 weggeschitten

28.21.4380



* montiert nach BV 632

21.01.0357	21.01.0355
24.46.0030	24.46.2030
1.010.011-22	1.010.013-22
50.20.0403	

Flächen mit Wärmeleitpaste 99.01.0506 gefettet

Werkstoff:	Norm-Nr.:	Güte:	Änderung:
DIN-Bez.:	10.186 A.Ho	Oberfläche:	10.186 A.Ho
Abmessung:	4.5.84 A.Ho	Beh.:	4.4.84 A.Ho
Zugehörige Unterlagen:	Freimasstoleranz:	Maßstab:	3.8.84 Ho
PL, BV 632	+	2:1	3.8.84
Ersatz für:	Ersetzt durch:	Kopie für:	Gez. Gepr. Ges. Index
STUDER REGENSDORF ZÜRICH			Nummer: 1.945.406-00

Bestimmung des Kontrollwiderstandes R_V für den Stabilisator 1.915.106

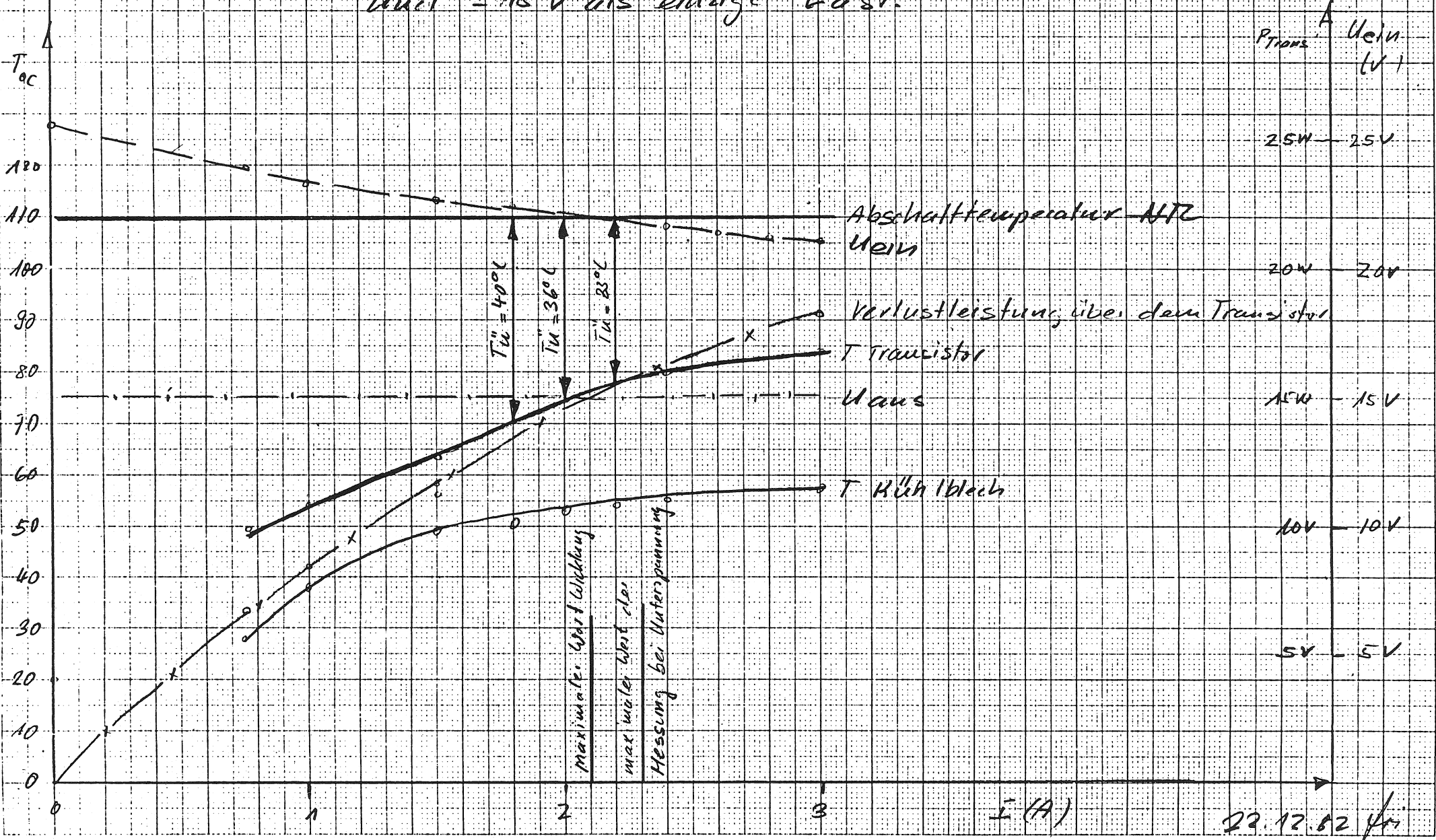
	R_V		U_{out} gerechnet
	R_1	R_2	
5V	193,26	220	4,99V
6V	408,12	470	6,01V
12V	2448,5	2,7k	12,01V
15V	4490	4,7k	15,00V
18V	8574	10k	17,96V
24V	—	—	24,09V

$$\frac{1}{R_V} = \frac{5,4454 \cdot 10^{-3}}{U - U_0} = \frac{1}{3672}$$



1.9.15.106

Temperatur am Transistor bei 10% Überspannung
 und $\pm 15V$ als einzige Last.



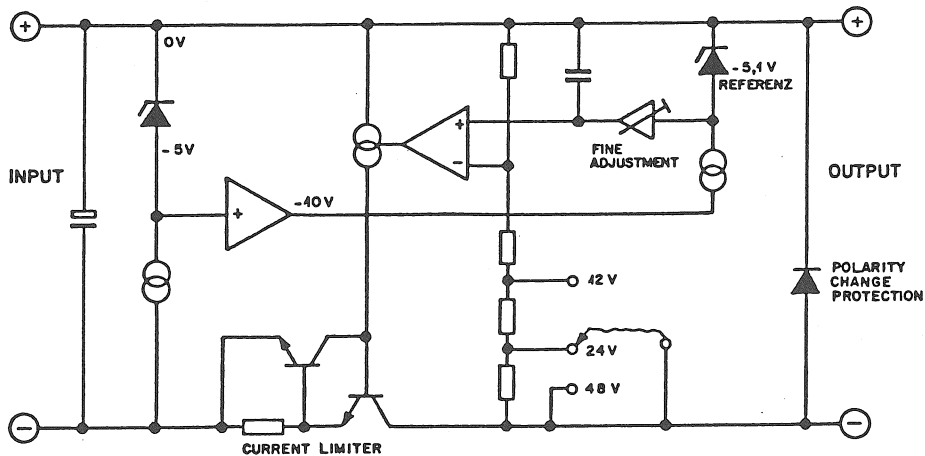
22.12.82 Jrs

PHANTOM / 24 V STABILISATOR

Stabilisatorkarte mit zwei getrennten, isoliert aufgebauten Spannungstabilisatoren für die Phantom- und 24 V Stromversorgung. Zwei Leuchtdioden zeigen den Betriebszustand an. Zwei Messpunktpaare sind mit Messklemmen von vorne zugänglich.

1) Phantomstromversorgung

Die Ausgangsspannung von 12 V, 24 V oder 48 V ist mit einer Brücke einstellbar (Beachten Sie, dass eine Änderung der Phantomspannung auch eine Anpassung der Eingangsspannung und eine Änderung der Phantomeinspeisewiderstände im Mikrokanal bedingt).

Blockschaltbild

TECHNISCHE DATEN

- Ausgangsspannung einstellbar
- Minimale Eingangsspannung für 12 V
- Max. Eingangsspannung
- Kurzschlussstrom
- Laststrom
- Kurzschlussverhalten mit automatisch, spannungsabhängigem "Fold Back"

PHANTOM / 24 V STABILIZER

Stabilizer board with two separate and isolated voltage stabilizers for the phantom supply and the 24 V supply. The two pilot LEDs indicate the operating status. Two pairs of test points are accessible from the front with rest clips.

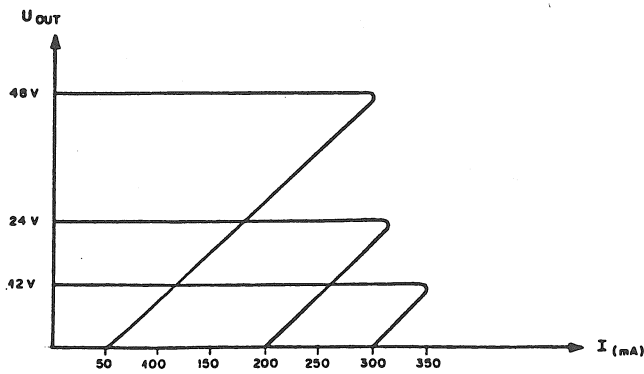
1) PHANTOM SUPPLY

The 12 V, 24 V or 48 V output voltage can be adjusted with a bridge. (Please note that any change of the phantom voltage requires a corresponding adjustment of the input voltage and the replacement of the phantom supply resistors in the microphone channel).

BLOCK DIAGRAM

Specifications

- | | |
|--|-------------------------|
| - Output voltage, variable | U = 12 V, 24 V, 48 V |
| - Minimum input voltage for 12 V | U min = 13 V |
| - Max. input voltage | U max = 100 V |
| - Short-circuit current | I _k = 350 mA |
| - Load current | I max = 300 mA |
| - Short-circuit response with automatic, voltage-dependent fold-back | |



- Ueberlagerte Brummspannung
- Leerlaufstrom

- Superimposed ripple voltage
- No-load current

$U_{Br} \leq 100 \mu V$
 $I_{0\emptyset} \approx 80 \text{ V } U_{iN} = 25 \text{ mA}$

2) 24 V Stabilisator

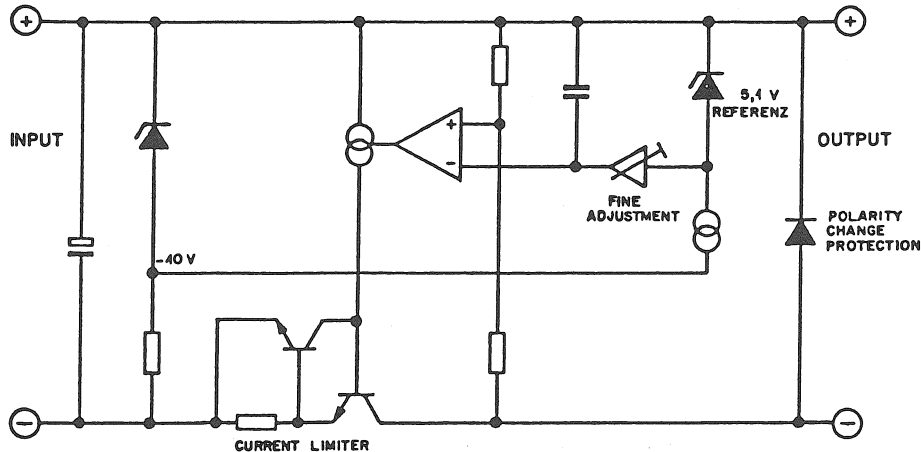
Die Ausgangsspannung ist fest eingestellt auf 24 V DC.

Blockbild

2) 24 V STABILIZER

The output voltage is permanently set to 24 VDC.

BLOCK DIAGRAM



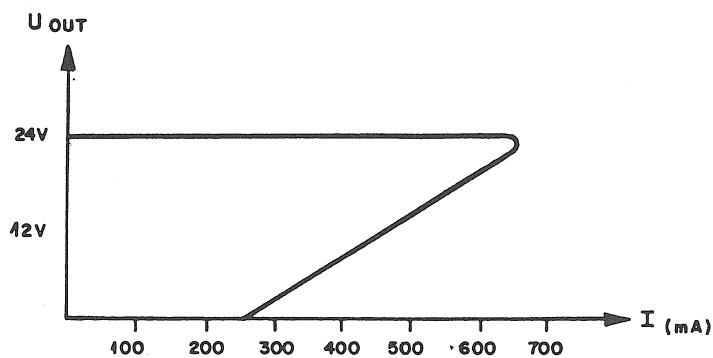
TECHNISCHE DATEN

- Ausgangsspannung
- Minimale Eingangsspannung (ohne Ripple)
- Maximale Eingangsspannung
- Kurzschlussstrom
- Laststrom
- Kurzschlussverhalten mit automatischem "Fold Back"

Specifications

- Output voltage
- Minimum input voltage (without ripple)
- Maximum input voltage
- Short-circuit current
- Load current
- Short-circuit response with automatic-fold-back

$U = 24 \text{ V}$
 $U_{\text{min}} = 25 \text{ V}$
 $U_{\text{max}} = 36 \text{ V}$
 $I_k \sim 660 \text{ mA}$
 $I_{\text{max}} = 600 \text{ mA}$



- Ueberlagerte Brummspannung
- Leerlaufstrom

- Superimposed ripple voltage
- No-load current

$U_{Br} \leq 100 \mu V$
 $I_{0\Omega} U_{in} 30V = 20 \text{ mA}$

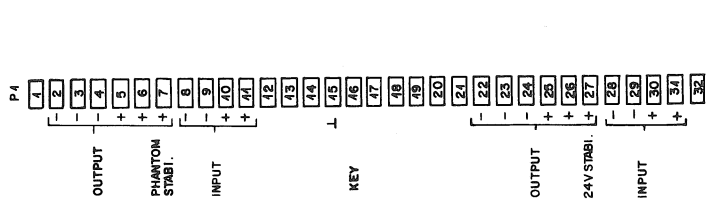
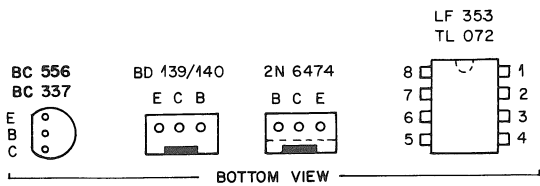
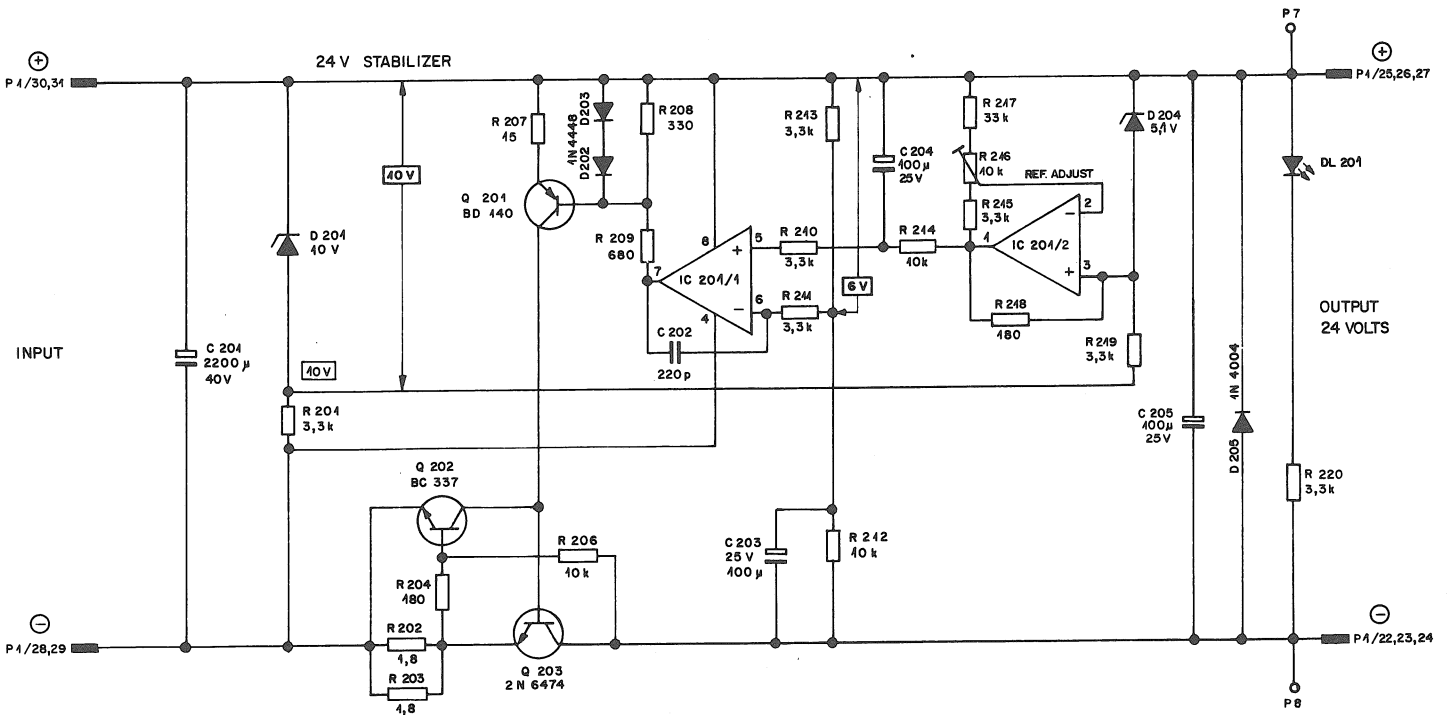
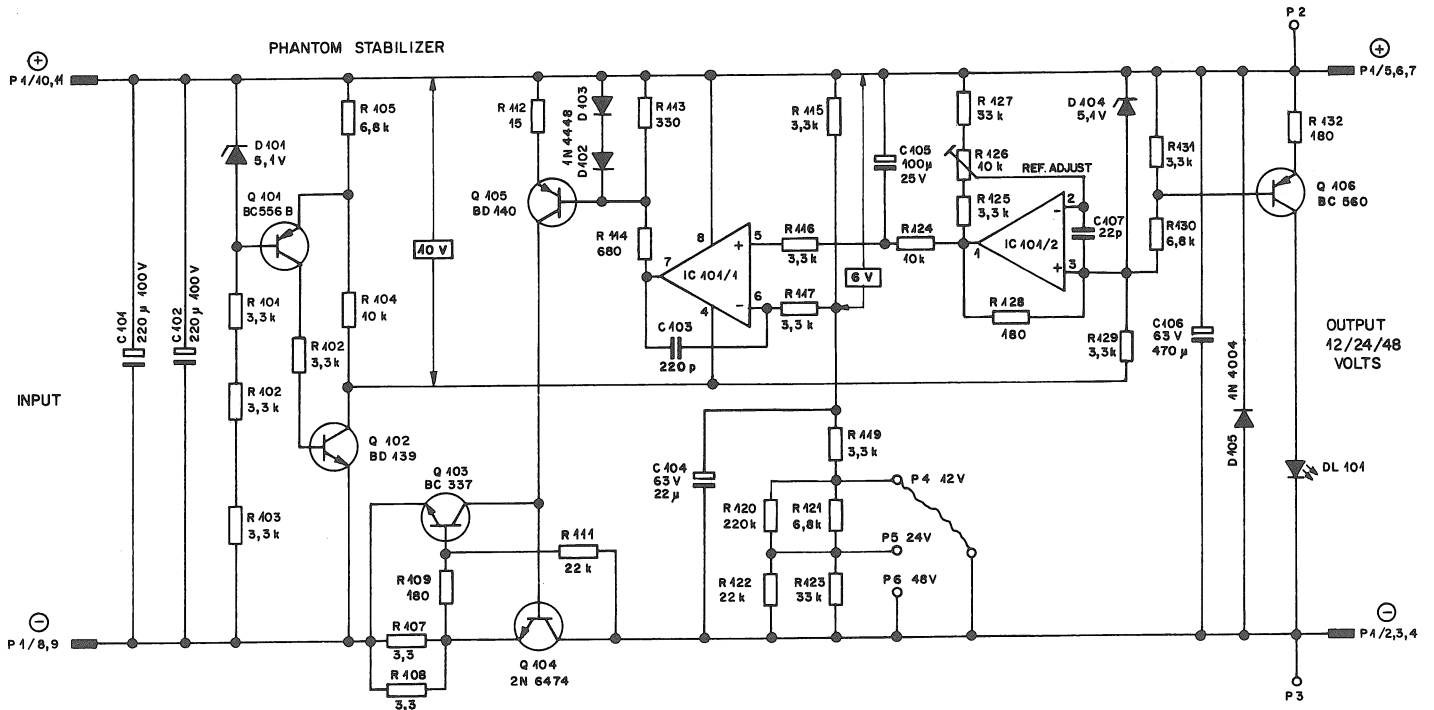
3) Mechanische Daten

Abmessungen
Steckersystem
Breite
Gewicht

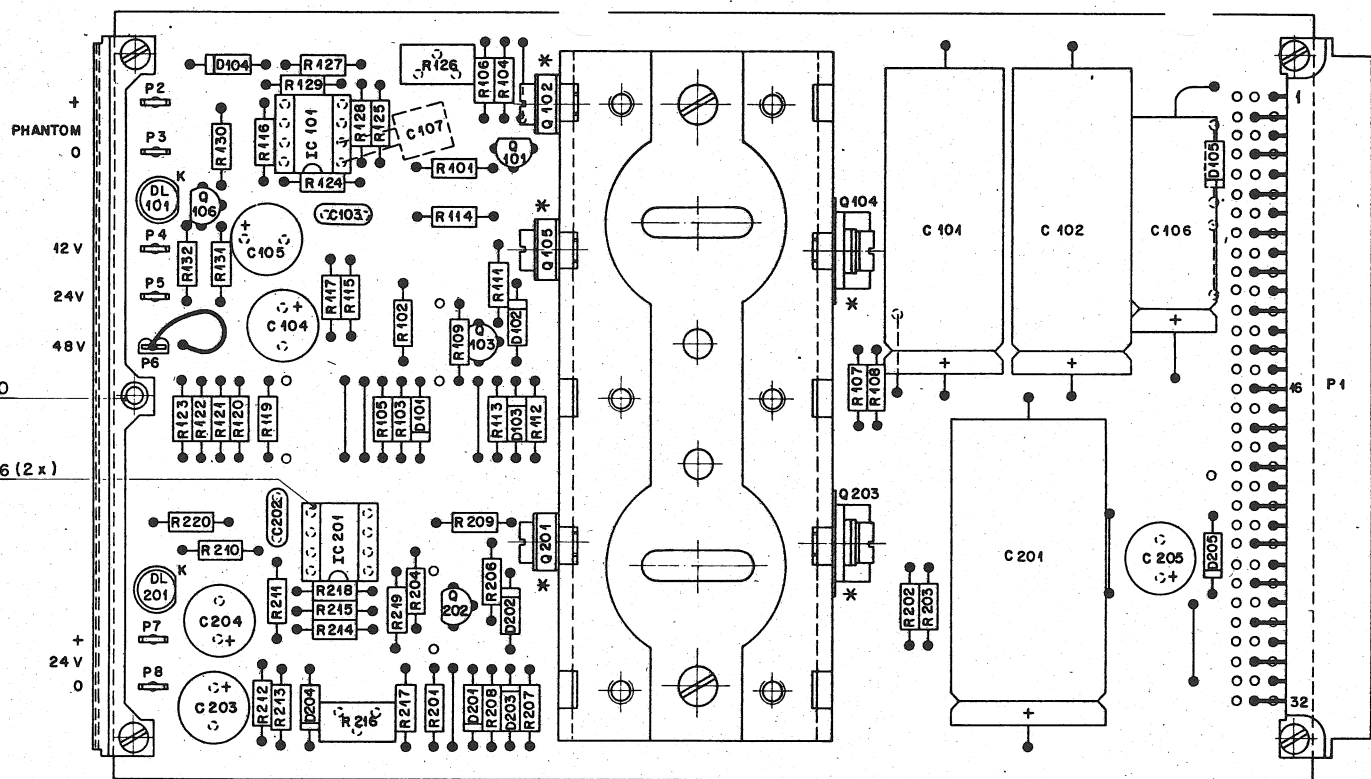
3) Mechanical data

Dimensions
Connector system
Widht
Weight

"EUROPE" PCB 100mm x 160 mm
DIN 416 12 TYP B
33 mm 7 M
ca. 320 gr



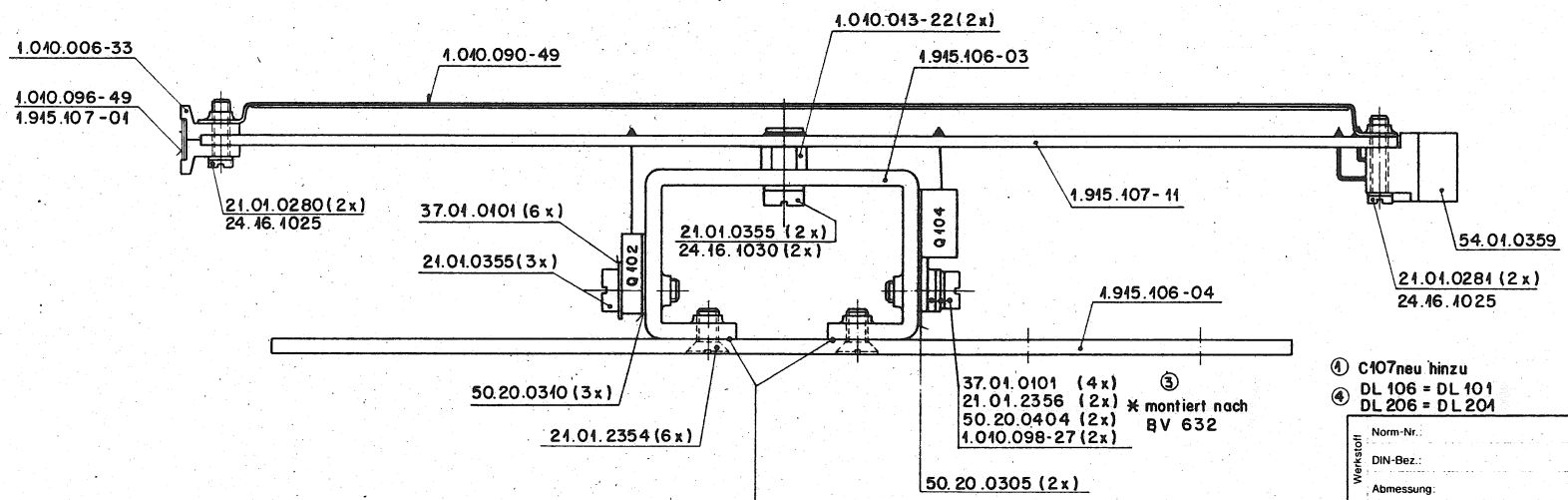
DATE:	5. 11. 84	11. 2. 83				
SIGN:	[Signature]					
STUDER REGENS DORF ZURICH	PHANTOM / 24V STABILIZER					SC. 1.915.107



28.21.1380
53.03.0466 (2x)

PHANTOM / 24 V STAB.
1.915.107-00

Key
Stift 46
weggeschnitten



Flächen mit Wärmeleitpaste 99.01.0506 gefettet

- ① C107neu hinzu
- ④ DL 106 = DL 101
- DL 206 = DL 204

Werkstoff	Norm-Nr.:	Güte:
DIN-Bez.:	Abmessung:	Beh.:
Zugehörige Unterlagen:	Freimasstoleranz:	Maßstab:
PL, LL, BV632	+	2:1
Ersatz für:	Ersetzt durch:	Kopie für:

22.1.86	A.Ho	W	W	④
10.1.86	A.Ho	W	W	③
4.4.84	A.Ho	W	W	②
13.1.83	A.Ho	W	W	①
3.8.81	Ho	W	W	①
Datum	Gez	Gepr	Ges	Index

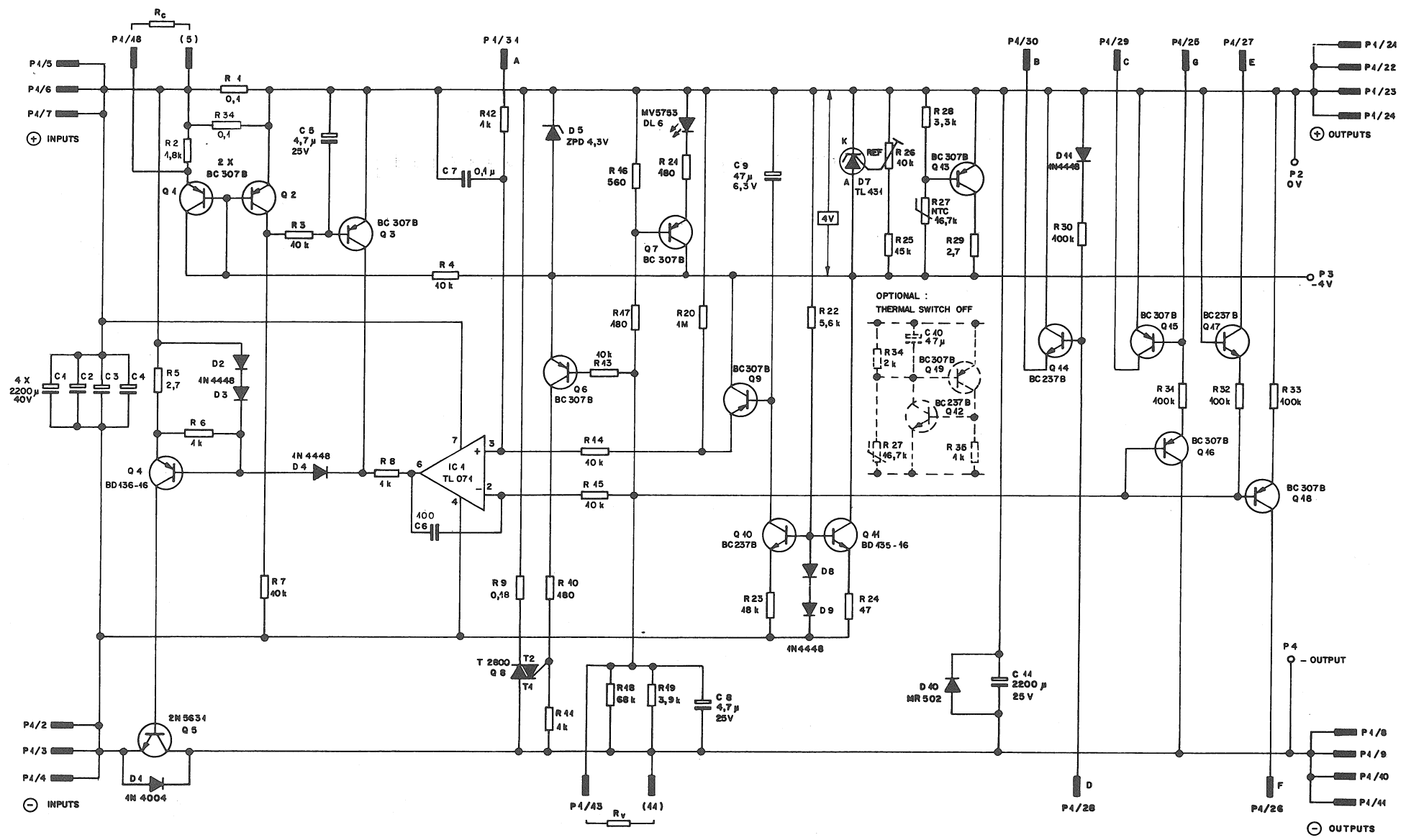
STUDER
REGENSDORF
ZÜRICH

Benennung:
Phantom 24V Stab.

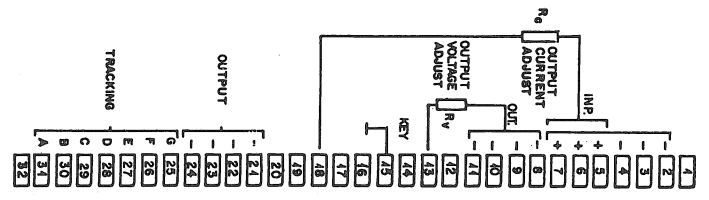
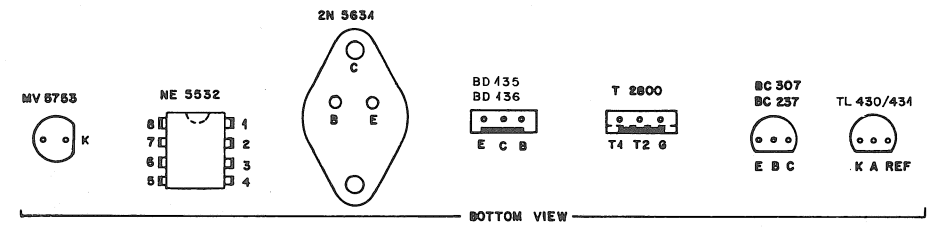
Nummer:
1.915.107-00

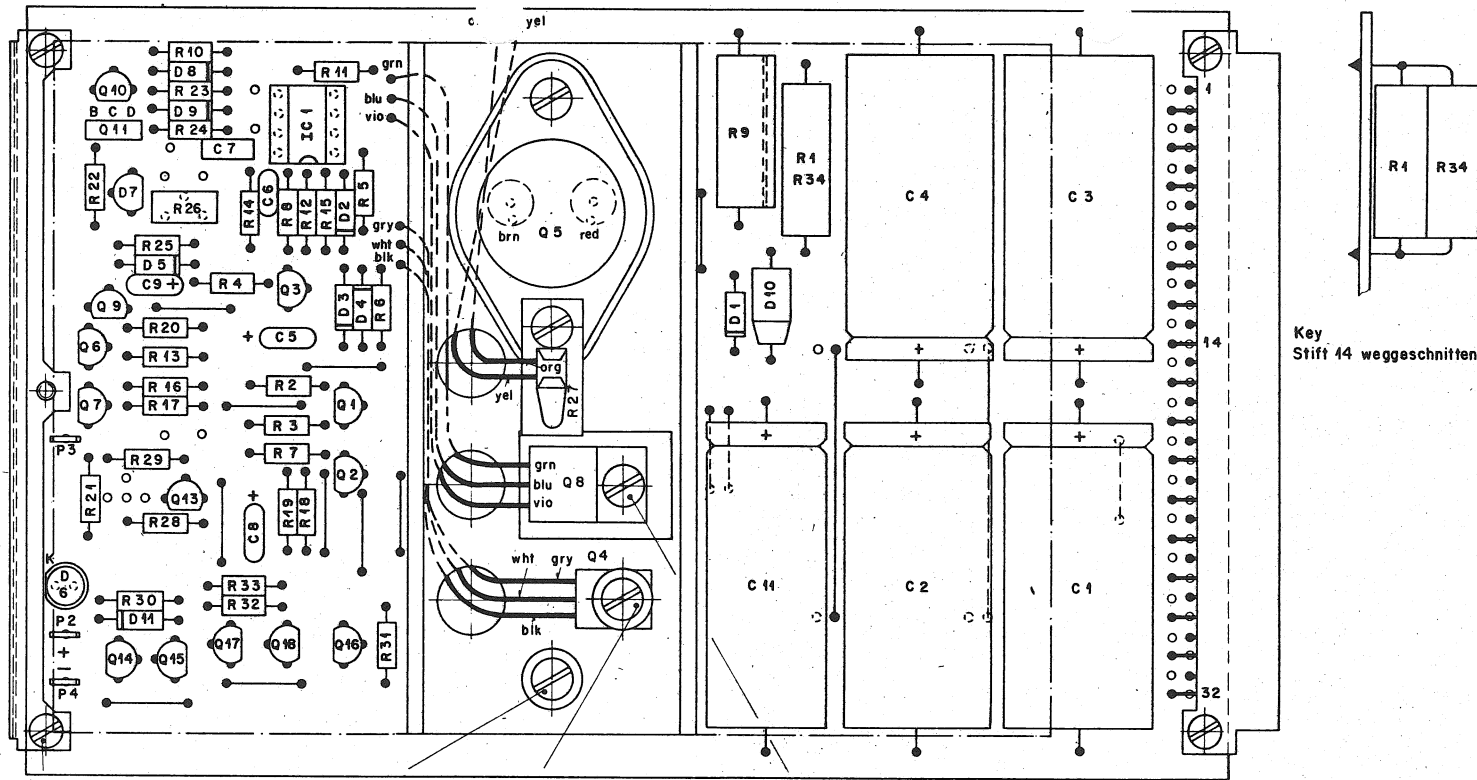
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STUDIER REGENSODRF ZÜRICH	DATE:	1.12.82
	SIGN:	<i>[Signature]</i>
STABILIZER 5 ÷ 24 V/5A	DATE:	22.6.83
	SIGN:	<i>[Signature]</i>
SC 1.915.108		



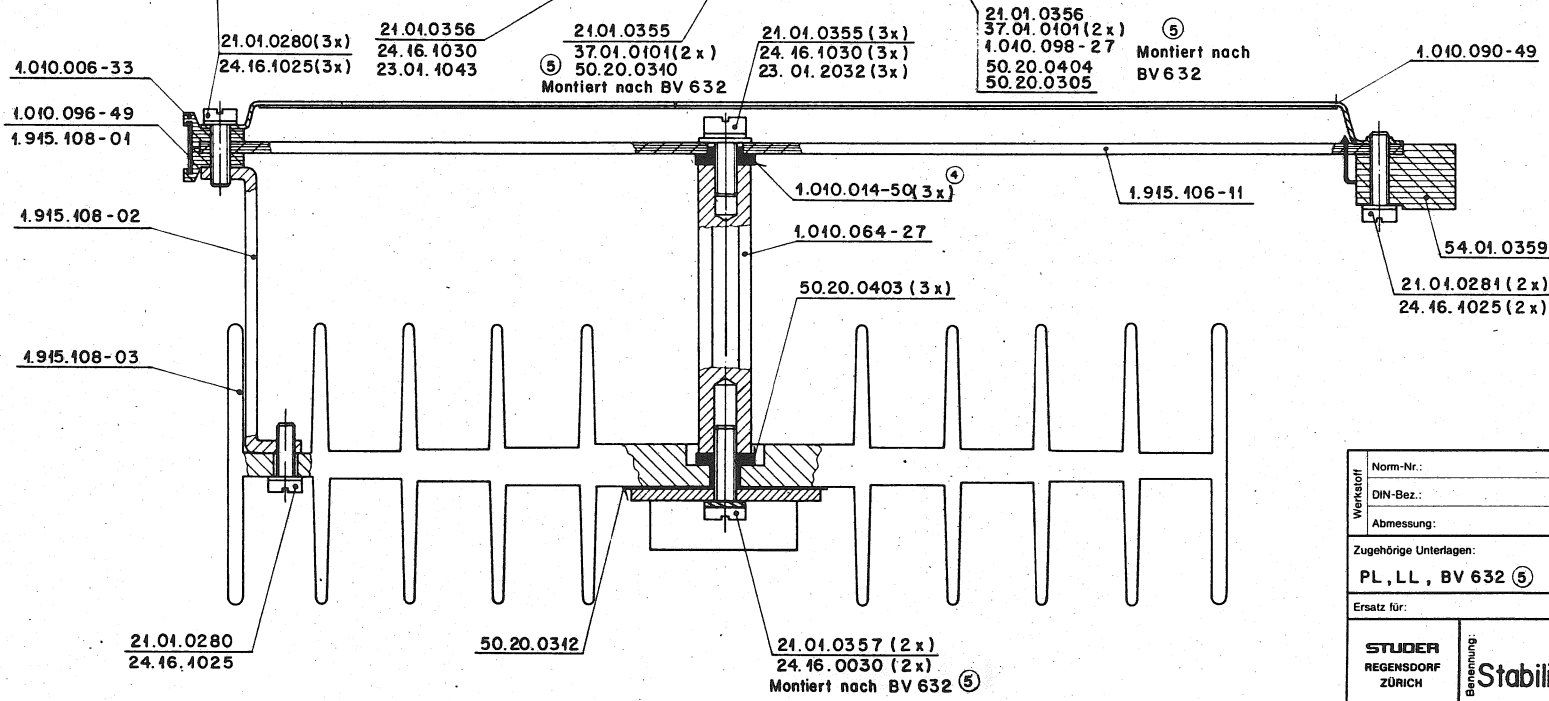
① $R_v = \infty : U_{out} = 24V$





STABILIZER 5 ÷ 24V
1.915.108-00

Key
Stift 14 weggeschnitten



- 21.01.0280(3x) 21.01.0356 21.01.0355 21.01.0355 (3x) 21.01.0356 ⑤
- 24.16.1025(3x) 24.16.1030 37.01.0101(2x) 24.16.1030 (3x) 37.01.0101(2x) ⑤
- 23.01.1043 50.20.0340 23.01.2032 (3x) 50.20.0404 50.20.0305
- Montiert nach BV 632 Montiert nach BV 632

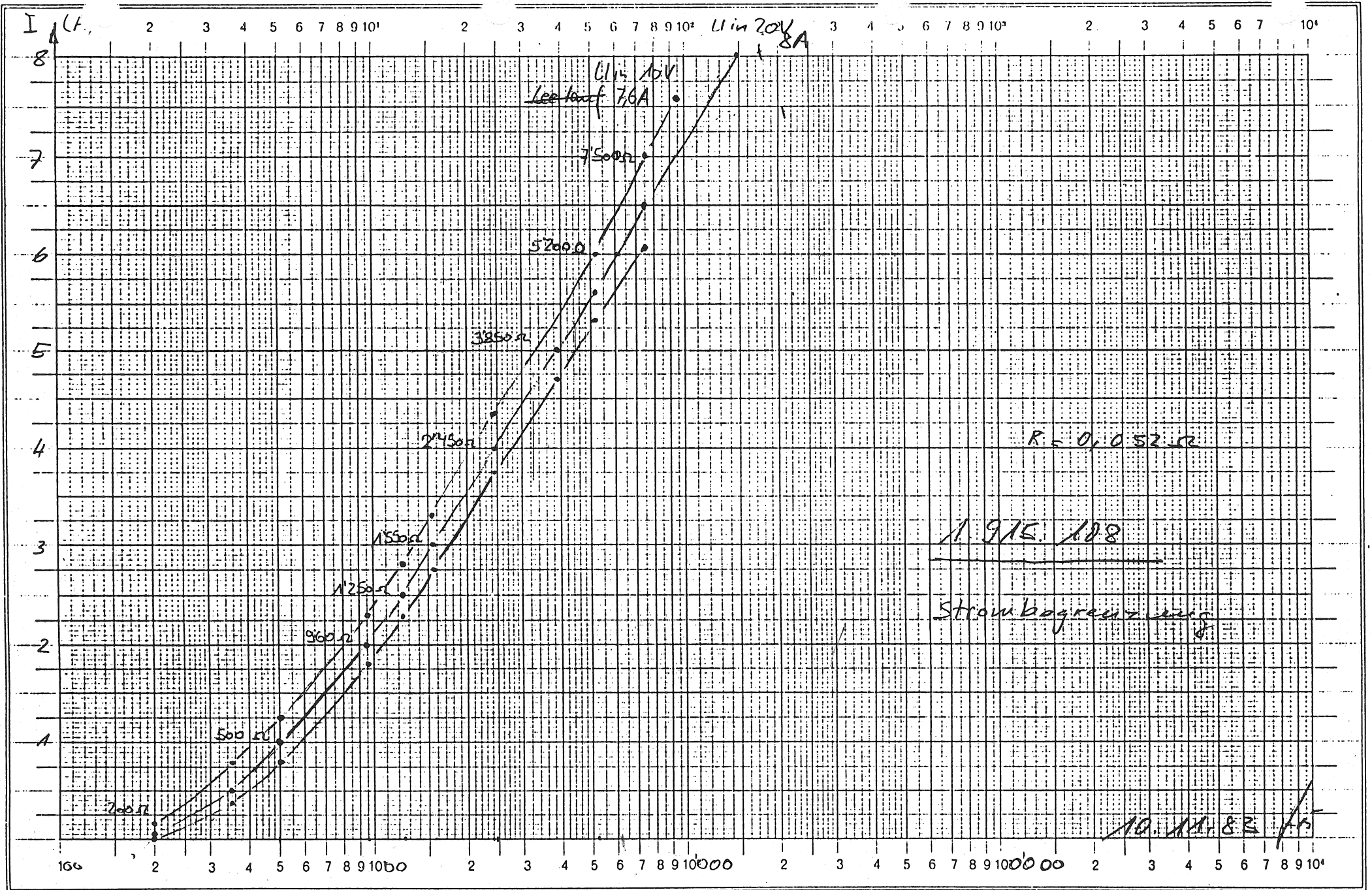
- 4.010.006-33
- 1.010.096-49
- 1.915.108-01
- 1.915.108-02
- 4.915.108-03

- 1.010.090-49
- 1.010.014-50(3x) ④
- 1.915.106-11
- 1.010.064-27
- 54.01.0359
- 21.01.0281(2x)
- 24.16.1025(2x)

- 21.01.0280
- 24.16.1025
- 50.20.0342
- 21.01.0357 (2x)
- 24.16.0030 (2x)
- Montiert nach BV 632 ⑤

Werkstoff	Norm-Nr.:	Oberfläche	Güte:	Ausgabe	17.1.86	A.Ho	✓	✓	⑤
	DIN-Bez.:		Beh.:		20.3.85	A.Ho	✓	✓	④
Abmessung:	Zugehörige Unterlagen:	Freimasstoleranz:	Maßstab:	Datum	4.4.84	A.Ho	✓	✓	②
	PL, LL, BV 632 ⑤				±	2:1	1.4.84	A.Ho	✓
Ersatz für:	Ersetzt durch:			Kopie für:					
STUDER REGENSDORF ZÜRICH		Benennung: Stabilizer 5÷24V/5A			Nummer: 1.915.108-00				

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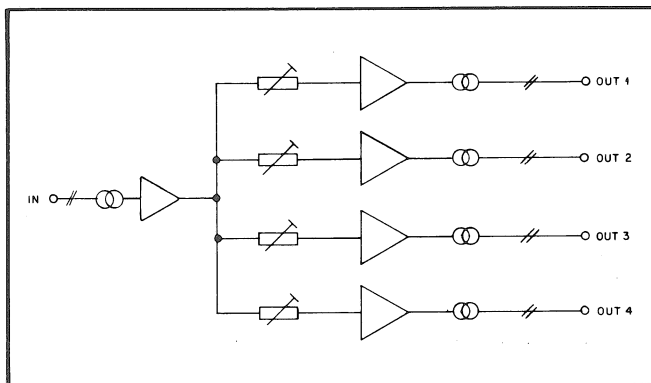
Logar. Teilung } 1-10000 Einheit } 62,5 mm
 Division } Unité }

DISTRIBUTION AMPLIFIER

Five amplifiers on one EURO-card in a circuit configuration which provides for the distribution of one signal input to four separate, individually adjustable outputs.

The input and all outputs are transformer-equipped, thus they are balanced and floating.

Used singly, or in combination with other system components, any complex signal routing and distribution requirement can be satisfied with this versatile amplifier.

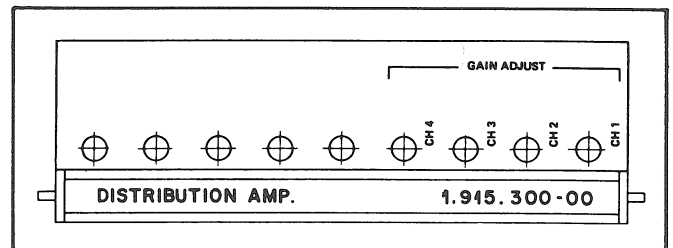


Technical Specifications

(dBu based on 0.775 V.
Across 600 Ohms, dBu equals dBm)

Input:	balanced/floating
Impedance:	> 5 kOhms
Gain, adjustable:	- 1...+ 10 dB
Output:	balanced/floating
Output impedance:	< 50 Ohms
Maximum output level into 200 Ohm load:	+ 21 dBu / 8,7 V
Frequency response, 30 Hz...15 kHz:	+ 0,2 / - 0,5 dB

Total harmonic distortion
40 Hz...15 kHz
+ 21 dBm/600 Ohms: < 0,5 %



Output noise voltage: - 95 dBu / 14 μ V

Level drop on one output when:

short-circuiting one other output: 0,3 dB

short-circuiting three outputs: 0,9 dB

Required supply voltage: + 15 V DC

Current consumption:

Idling 25 mA

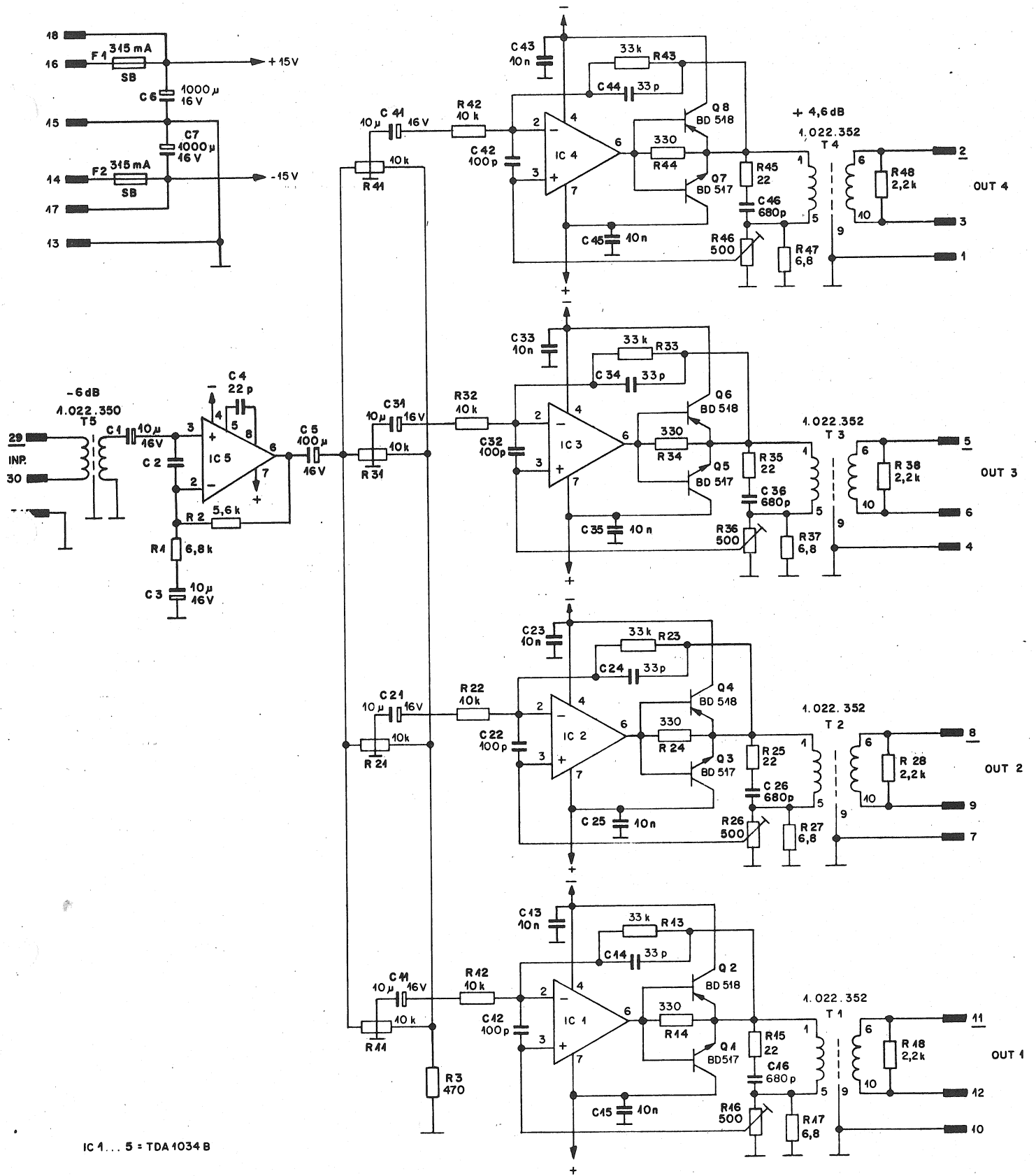
All outputs + 6 dBu into 200 Ohms 50 mA

All outputs + 21 dBu into 200 Ohms 180 mA

Dimensions

EURO-card: 100 x 160 mm
7 M units wide

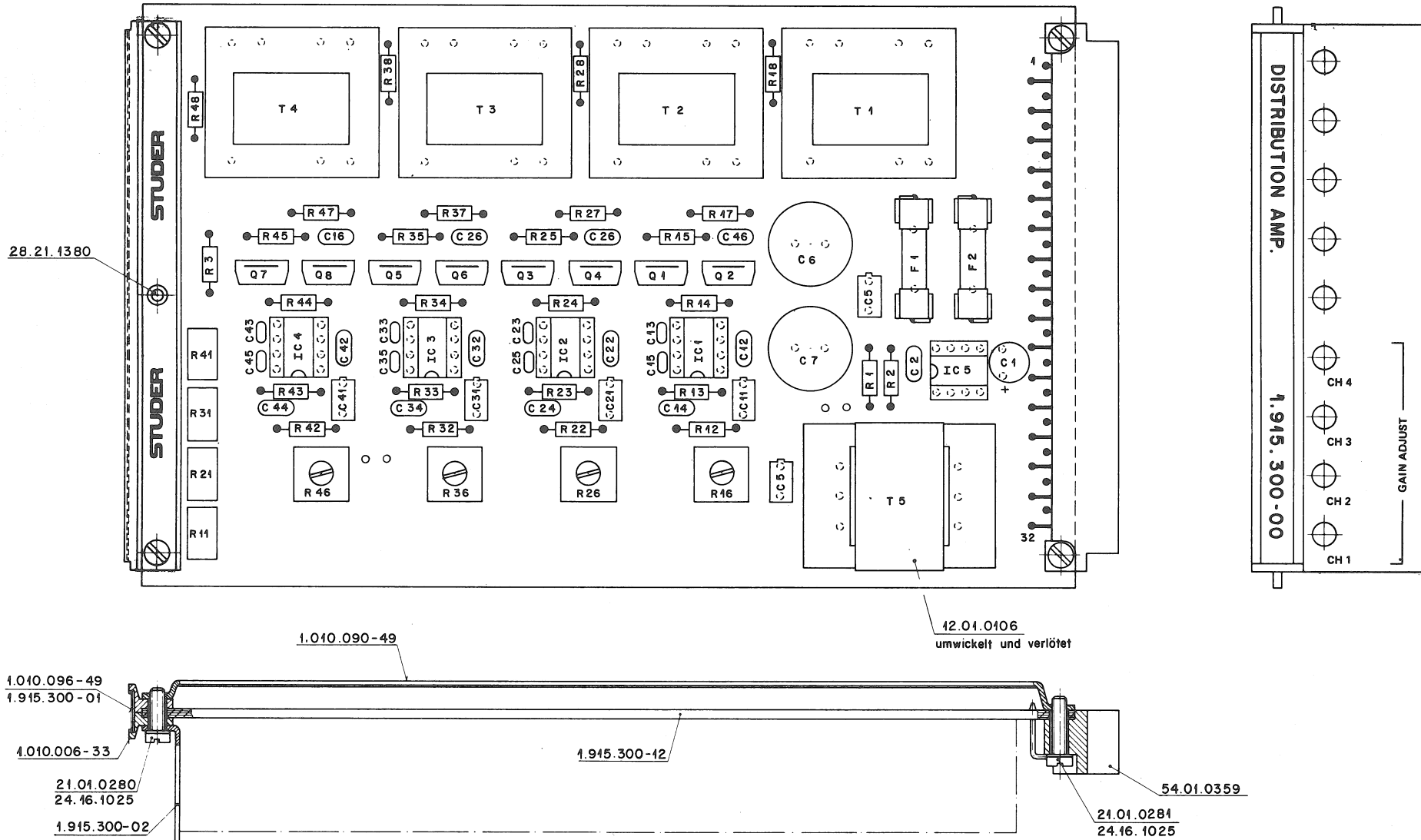
Weight: 500 g/17,5 ozs. approx.



IC 1... 5 = TDA 1034 B

Anderung					③
Anderung					②
Anderung	26.10.79	Si	<i>er</i>		①
Ausgabe	9.7.79	Si	<i>en</i>		①
Datum		Gez.	Gepr.	Ges.	Index

Ersatz für:	Ersetzt durch:	Kopie für:
STUDER REGENSDORF ZÜRICH	Benennung: DISTRIBUTION AMP MK II	Nummer: SC 1.915.300/1



28.21.1380

1.010.096-49
1.915.300-01

1.010.006-33

21.01.0280
24.46.1025

1.915.300-02

1.010.090-49

1.915.300-12

12.01.0106
umwickelt und verlötet

54.01.0359

21.01.0281
24.46.1025

Werkstoff Norm-Nr. DIN-Bez. Abmessung	Gute Beh.		Änderung 4.4.84 A.Ho <i>W W</i> ①
	Freimasstoleranz		
Zugehörige Unterlagen PL	Ausgabe 26.10.79 Ho <i>W W</i> ②		Datum Gez. Gepr. Ges. Index
Ersatz für	Ersetzt durch.		Kopie für
STUDER REGENDORF ZÜRICH	Benennung Distribution AMP		Nummer 1.915.300-00

POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT	MFR
R 1	57.11.4682	6,8K	5% 1/6 W C5CH		
R 2	57.11.4562	5,6K	5% " "		
R3..10	-				
R 11/21 31/41	58.01.7103	10K	10% 1/2 W PMG		
12..42	57.11.4103	10K	5% 1/4 W C5CH		
13..43	11.4333	33K	5% " "		
14..44	11.4331	330	5% " "		
15..45	11.4220	22	5% " "		
16..46	58.01.8501	500	10% 1/2 W PMG		
17..47	57.11.4689	6,8	5% 1/6 W C5CH		
18..48	57.11.4222	2,2K	5% " "		
C 1/3	59.30.4100	10µ	-20% 16V TA		
C 2	-				
C 4	59.32.0220	22p	20% 400V KER		
C 5	59.30.4101	100µ	-20% 16V TA		
C 6/7	59.22.4102	1000µ	-10% 16V EL		
C8..10	-				
11/21 31/41	59.30.4100	10µ	-20% 16V TA		
12..42	59.32.0101	100p	20% 400V KER		
13..43	59.32.3103	0,01µ	+80% 40V KER		
14..44	59.32.1330	33p	10% 400V KER		
15..45	59.32.3103	0,01µ	+80% 40V KER		
16..46	59.32.2681	680p	10% KER		
Q 1/3/5/7	50.03.0455	BD 517-5	NPN		
Q 2/4/6/8	50.03.0456	BD 518-5	PNP		
T 1/2/3/4	1.022.352.00	1:1,7	T124FO		STU
TS	1.022.350.00	1:2			STU
K A..5	50.05.0243	TDA 1034 B	OPAMP	NE5543	
F A, 2	51.01.0112	315 MA T	SILVERCING		

C5CH → CARBON FILM
 PMG → TRIMMER
 TA → TANTAL
 KER → CERAMIC
 EL → ELECTROLYT-

STU → STUDER

④
 ③
 ②
 ①
 ○

24.3.80

We

IND

DATE

NAME

STUDER

DISTRIBUTION ANIP MMG

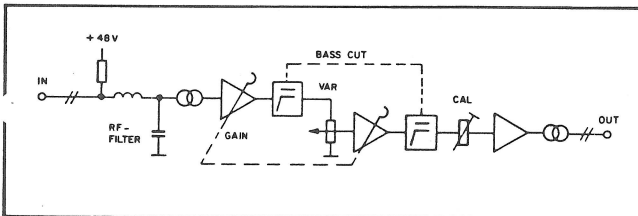
1.915.300

PAGE
1 of 1

MICROPHONE AMPLIFIER

Basically, this is a microphone amplifier with sufficient gain to amplify a low level signal up to line level. There are three user accessible controls on the amplifier's front panel for gain adjustment in six 12 dB steps, an overlapping fine adjustment, as well as a bass-cut filter to eliminate rumbles and extreme low frequency signals (impact sounds).

With the wide range of gain settings available and by applying good engineering practice, this amplifier lends itself to a variety of useful applications. To avoid distortion due to output signal clipping, the designer must observe that a sufficient overload margin is allowed for, depending on the type of level meters used in a system.



Technical Specifications

Input

Impedance,
balanced/floating: > 2 kOhms

Sensitivity
(for + 21 dBu into
200 Ohms): - 66 dBu

Input
overload point: + 10 dBu

Adaptation for microphone phantom powering possible.

Output

Impedance,
balanced/floating: < 50 Ohms

Maximum level into
200 Ohms: + 21 dBu

Frequency Response

30 Hz... 15 kHz: + 0,2 / - 1 dB
With bass cut: - 3 dB / 100 Hz
- 14 dB / 30 Hz

Gain

Adjustable,
six steps: 12, 24, 36, 48
60 and 72 dB

Range of over-
lapping fine
control: 15 dB

Minimum gain: 12 dB

Maximum gain: 87 dB

Distortion

At + 21 dBu into
200 Ohms
30 Hz...50 kHz: < 0.5 % THD

Noise Performance

Noise figure, input
terminated with
200 Ohms, gain
72 dB: < 5 dB

(This represents - 124 dBu of unweighted equivalent input noise).

Absolute unweighted
noise level at the
output with gain set
to 12 dB: < - 95 dBu

Power Requirement

Operating voltage: + 15 V

Current consumption, idling: 15 mA

With + 6 dBu into 200 Ohms: 25 mA

With + 21 dBu into 200 Ohms: 55 mA

Dimensions

EURO-card: 100 x 160 mm,
7 M units wide

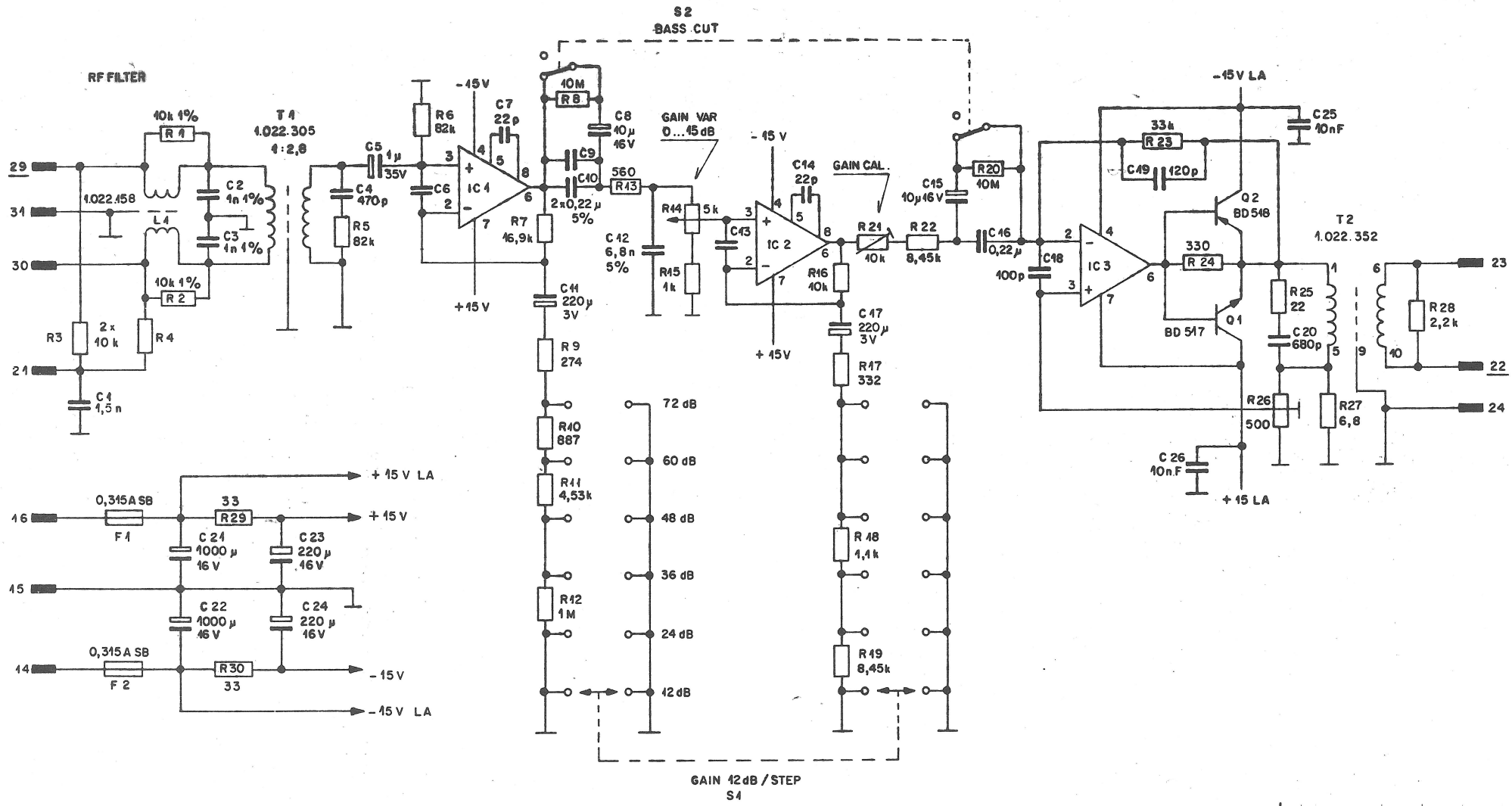
Weight: 350 g/12,5 ozs.
approx.

Ordering

1.915.301.00

Microphone Amplifier

Weitergabe, Verweilung oder Nachdruck nicht gestattet
 All rights for transmission, duplicating or reprint reserved
 Tous droits, distribution, cession et reproduction réservés
 Riproduzione e rimessa a terzi vietata



IC 1...3 = TDA 1034 B

Anderung				③
				②
	29.10.79	Si	<i>W</i>	①
Ausgabe	30.5.78	Si	<i>M</i>	①
Datum	Gez.	Gepr.	Ges.	Index

Ersatz für:	Ersetzt durch:	Kopie für:
STUDER REGENSDORF ZÜRICH	LINE AMP. WITH MIC. INPUT	Nummer: SC 1.915.301

NO	PART NO	VALUE	SPECIFICA	NS	EQUIVALENT	MFR
R 1/2	57.39.1002	10K	1%	1/4W	MF	
3/4	57.99.0250	68K	0.1%		MF	
5/6	57.41.6823	82K	5%		CSCH	
7	57.39.1692	16.9K	1%		MF	
8/20	57.02.5106	10M	10%		CMA	
9	57.39.2740	274	1%		MF	
10	57.39.8870	887	10%		MF	
11	57.39.4531	4.53K	1%		MF	
12	57.41.4105	11K	5%		CSCH	
13	57.41.4561	560	5%			
14	58.02.0502	5k POT	10%	1/4W	PSCM	
15	57.41.4102	11K	5%	1/4W	CSCM	
16	57.39.1002	10K	1%		MF	
17	57.39.3320	332	1%		MF	
18	57.39.1101	1.1K	1%		MF	
19/22	57.39.8451	8.45K	1%		MF	
21	58.01.8103	10K TPT1	10%	1/4W	PMG	
23	57.41.4333	33K	5%	1/4W	CSCM	
24	57.41.4331	330	5%	1/4W	CSCM	
25	57.41.4220	22	5%	1/4W	CSCM	
26	58.01.0502	500 POT	10%	1/4W	PMG	
27	57.41.4689	68	5%	1/4W	CSCM	
28	57.41.4722	2.2K	5%	1/4W	CSCM	
29/30	57.41.4330	33	5%	1/4W	CSCM	
C 1	59.32.1152	1.5nF	10%	400V	NER	
2/3	59.12.9102	1nF	1%	100V	PS	
4	59.32.1171	470p	10%	400V	NER	
5	59.30.6109	1nF	-20%	35V	TA	
6	-	-	-	-	-	
7/14	59.32.0720	22p	20%	400V	NER	
8/15	59.30.4100	10n	-20%	16V	TA	
9/20/16	59.12.2224	0.22n	5%	100V	HPETP	
11/17	59.30.1221	220n	-20%	3V	TA	
12	59.11.7682	68n	5%	160V	PC	
13	-	-	-	-	-	
18	59.32.0101	100p	20%	400V	NER	
19	59.32.0101	100p	20%	100V	NER	
20	59.32.2681	680p	10%		NER	
21/22	59.22.4102	1000n	-10%	16V	EL	
23/24	59.25.3221	220n	-10%	16V	EL	
25/26	59.32.3103	10n	-20%	40V	NER	

MF	TA	④		
CSCM	EL	③		
CMA	HPETP	②		
PSCM	PC	①	15.4.83	VR
PMG		○	25.3.80	WR
NER		IND	DATE	NAME

STUDER

LINE AMP WITH MIC INPUT

A.915.301

PAGE 1 of 2

POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT	IFR
JC 1-3	50.05.0243	NE 5534N	OP AMP	NE 5534P	
F 1,2	51.01.0122	315 MAT	FUSE		
Q1	50.03.0456	BD 517	PNP		
Q2	50.03.0455	BD 518	NPN		
SA	55.01.0205	2x6pos	DIGITAL		
S2	55.01.0157	3x ON-OFF	KNIPPSCHALTER		
L1	1.022.158.00	HF DISSIP			ST
TA	1.022.305.00	1:2.8			ST
T2	1.022.352.00	1:1.7			ST

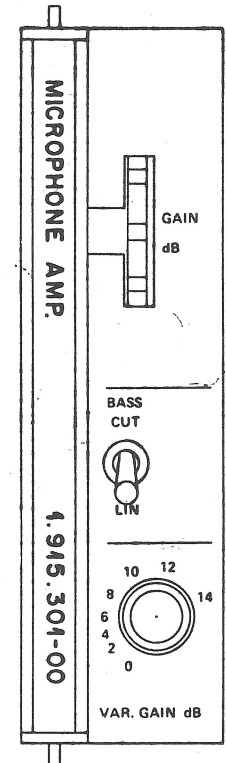
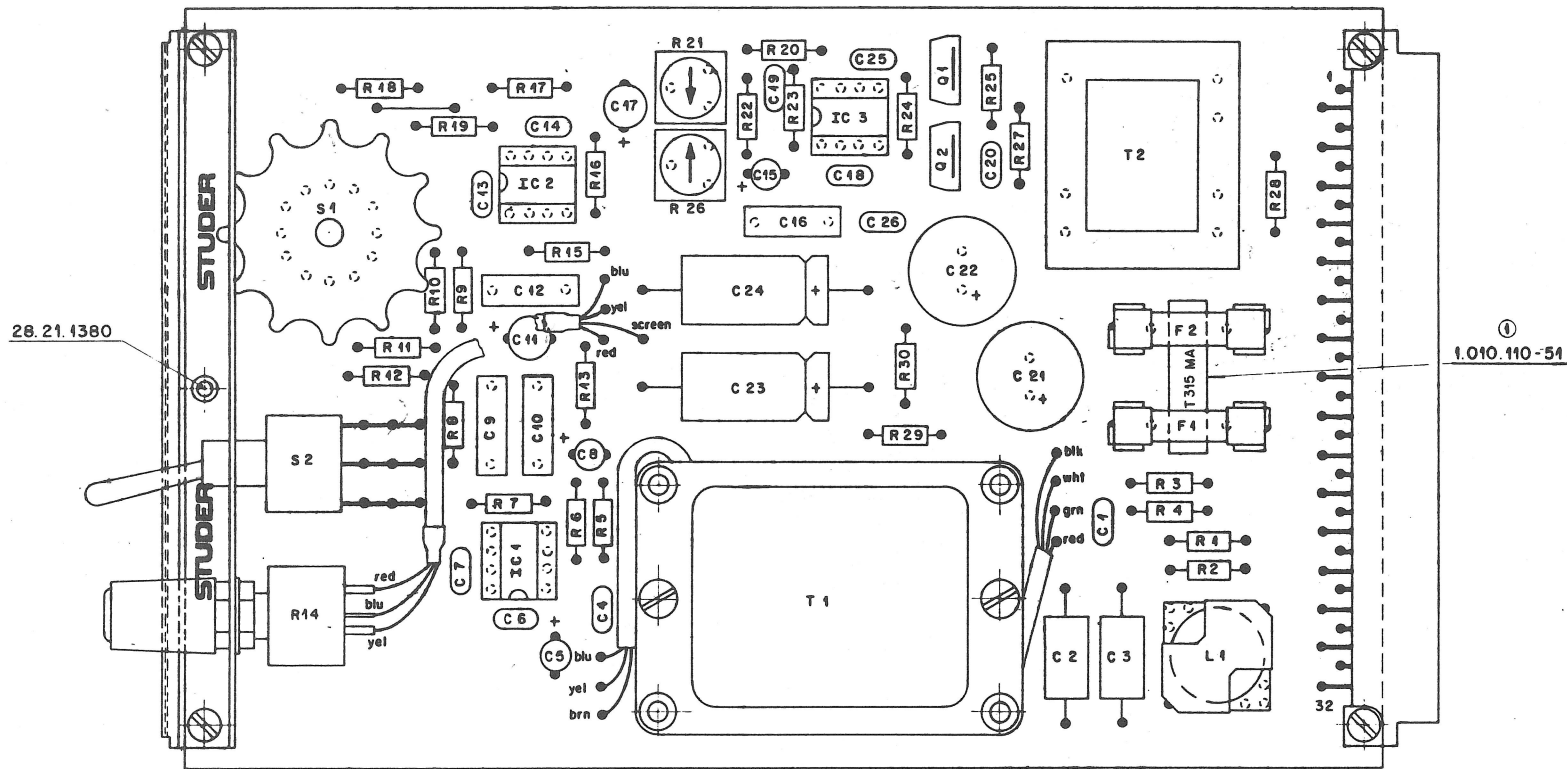
S → STUDER	④		
	③		
	②		
	①	15.4.83	VR
	○	25.3.80	WR
IND	DATE	NAME	

STUDER

LINE AMP WITH MIC INPUT

A.915.301

PAGE 2 of 2



28.21.1380

1.010.110-51

1.040.090-49

1.040.096-49
1.915.301-01

1.040.006-33

1.915.301-12

54.01.0359

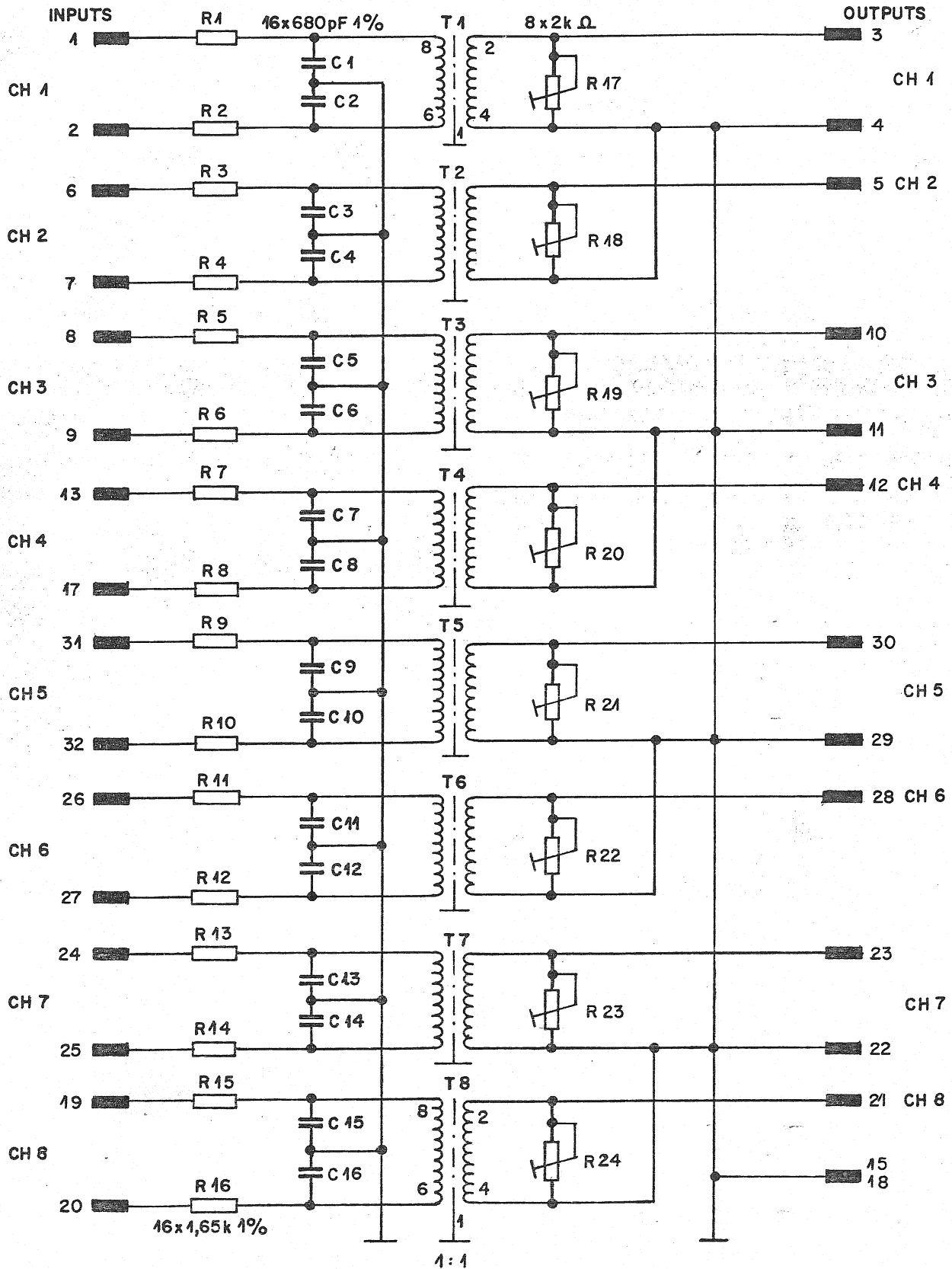
21.01.0280
24.16.1025

21.01.0281
24.16.1025

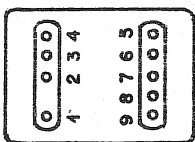
1.915.301-02

Riproduzione e rimessa a terzi vietata

Norm-Nr	Gute	Anforderung	3
DIN-Bez	Beh		2
Abmessung		23.1183 A.Ho	1
Zugehörige Unterlagen	Freimasstoleranz	Maßstab	26.10.79 Ho
PL		2:1	Datum Gez Gepr Ges Inge
Ersatz für	Ersetzt durch	Kopie für	
STUDER REGENSDORF ZURICH	Benennung Microphone AMP.	Nummer 1.915.301-00	



T1... 8
4.022.405



BOTTOM VIEW

Ausgabe	22. 5. 80	Si	<i>NA</i>		①
Datum		Gez.	Gepr.	Ges.	Index

Kopie für:

STUDER
REGENSDORF
ZÜRICH

Benennung:

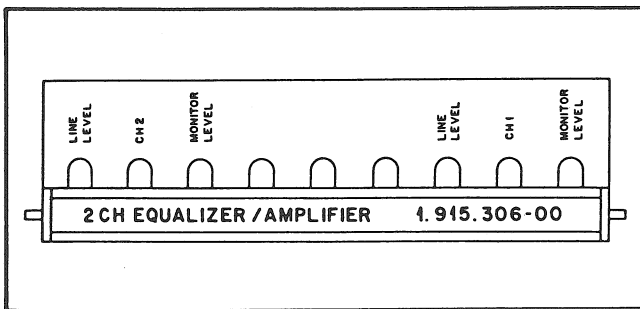
TRANSFORMER - UNIT

Nummer:

SC 1.915.302

PHONO PRE-AMPLIFIER, STEREO

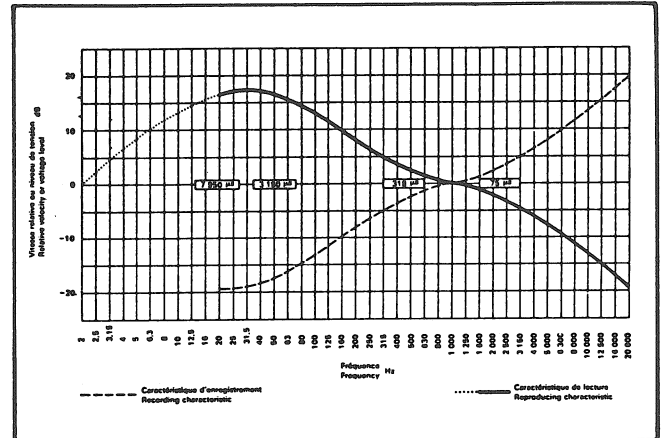
A 2-channel (stereo) phono pre-amplifier on one EURO-card, equalized to match the IEC 98 curve, with a low-frequency roll-off, according to modification 4 1976 (new RIAA). This modification was introduced to limit the extreme low-frequency response of a system (below 20 Hz) for reduced rumble and impact noise interference.



The amplifier is designed to work with magnetic cartridges, requiring a 47 kOhm load and a parallel capacity of 220 pF. There is sufficient gain in this amplifier to raise the signal to line level output from the input provided by an average cartridge.

The length of the interconnecting cable between turntable and pre-amplifier should be so chosen that cable capacity plus the amplifier's input capacity does not exceed the maximum recommended capacitive load for the cartridge in use. Using normal audio cable, this will usually permit a length of up to 2 meters.

A special output circuitry is employed to ensure extremely low distortion performance.



Technical Specifications

(dBu based on 0.775 V.
Across 600 Ohms, dBu equals dBm)

Input	unbalanced
Impedance:	47 kOhms / 220 pF
Sensitivity at 1 kHz (for output of + 20 dBm into 600 Ohms):	- 48 dBu / 3 mV
Overload margin:	30 dB
Equalization	in accordance with IEC 98, Mod. 4 1976 (new RIAA)
Gain, max. at 1 kHz:	68 dB

Output balanced

Output level,
adjustable: -9 dBu...+ 20 dBu

Internal impedance
30 Hz...16 kHz: <30 Ohms

Total harmonic
distortion
(+ 15 dBm into
600 Ohms):

30 Hz <0.2 %

60 Hz...16kHz <0.1 %

Output level
capability for
0.2 % THD
30 Hz to 16 kHz:

into 200 Ohms + 14 dBu / 3.9 V

into 600 Ohms + 16 dBm / 4.9 V

Signal to noise
ratio, input
terminated with
1 kOhm, gain 63 dB
at 1 kHz:

linear, rms
reading >65 dB

A weighted >75 dB

Channel
separation
30 Hz...16 kHz
at nominal
output of
15 dBu:

>60 dB

Power Requirement

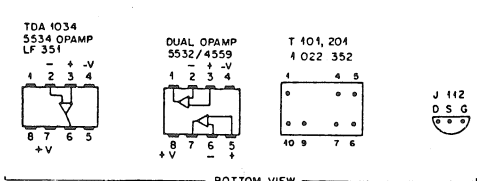
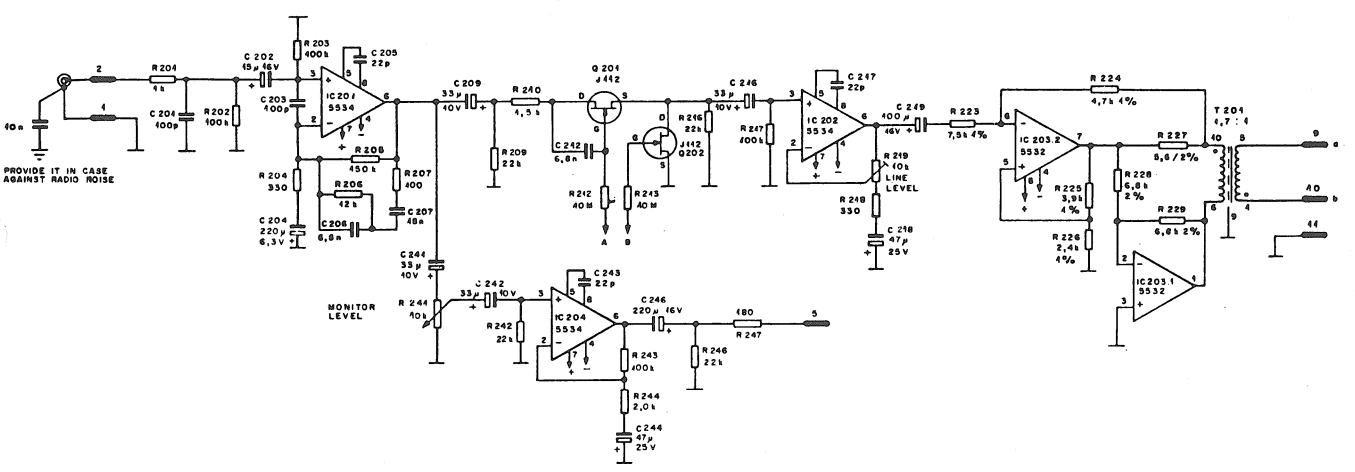
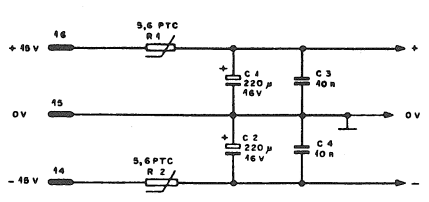
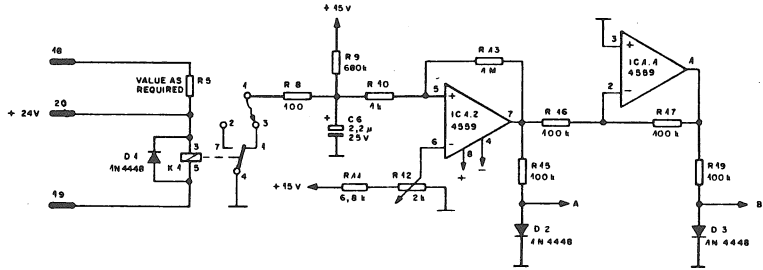
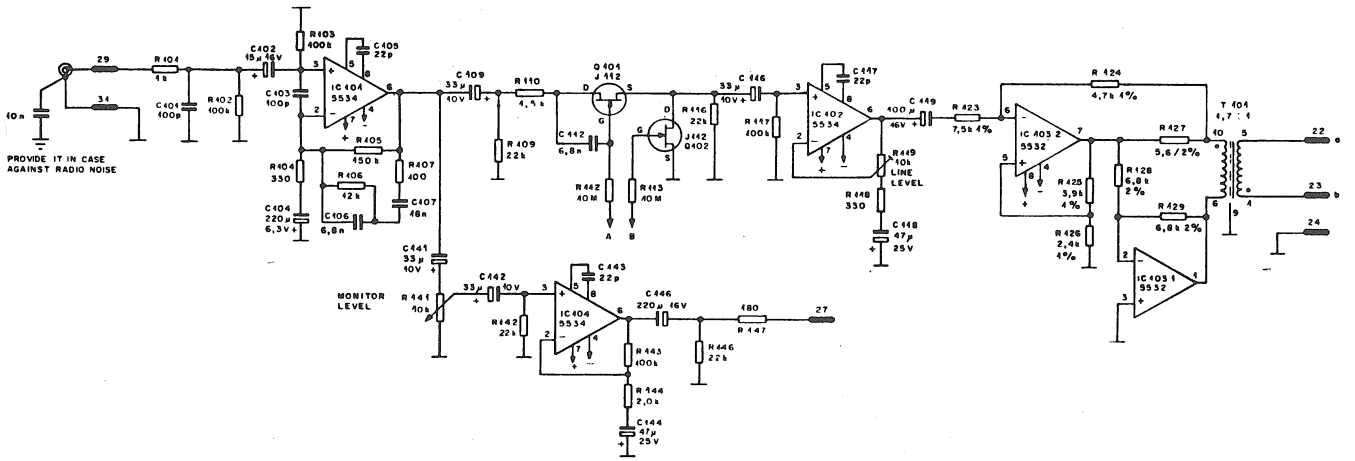
Supply Voltage: + 15 V DC

Current
consumption: 50 mA

Dimensions

EURO-card: 100 x 160 mm
7 M units wide

Weight: 320 g/11 ozs.
approx.



BOTTOM VIEW

DATE	5.12.83			
SIGN:	<i>di</i>			
REGENDORF ZÜRICH	2 CH PHONO EQUALIZER / AMP WITH FADERSTART AND MONITOR			SC 1.915.305

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
C	1	59.23.4221	220 μ	-20% 16V EL	
	2	59.23.4221	220 μ	-20% 16V EL	
	3	59.32.3103	10 n	40V CER	
	4	59.32.3103	10 n	40V CER	
	6	59.26.5223	22 μ	20% 25V SAL	
	..01	59.34.4101	100 p	5% 63V CER	
	..02	59.26.2150	15 μ	20% 16V SAL	
	..03	59.34.4101	100 p	5% 63V CER	
	..04	59.22.2221	220 μ	-20% 63V EL	
	..05	59.34.2220	22 p	5% 63V CER	
	..06	59.11.3682	6.8 n	5% 160V PC	
	..07	59.12.4183	18 n	5% 250V MPETP	
	..09	59.26.1330	33 μ	20% 10V SAL	
	..12	59.06.0682	6.8 n	10% 63V PETP	
	..16	59.26.1330	33 μ	20% 10V SAL	
	..17	59.34.2220	22 p	5% 63V CER	
	..18	59.22.5470	47 μ	-20% 25V EL	
	..19	59.22.4101	100 μ	-20% 16V EL	
	..21	59.26.1330	33 μ	20% 10V SAL	
	..42	59.26.1330	33 μ	20% 10V SAL	
	..43	59.34.2220	22 p	5% 63V CER	
	..44	59.22.5470	47 μ	-20% 25V EL	
	C..46	59.22.4221	220 μ	-20% 16V EL	

IND	DATE	NAME	
④			CER CERAMIC SAL SOLID ALUMINUM
③			EL ELECTROLYTIC
②			MPETP POLYESTER
①			PC POLYCARBONATE
○	31.8.84	OL	PETP POLYESTER

STUDER 2CH PHONO EQUAL./AMP. WITH FADERSTART 1.915.305-00 PAGE 1 OF 4

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
R	12	58.01.8202	2 K	TRIM - POT.	
	13	57.11.4106	1 M		
	15	57.11.4104	100 K		
	16	57.11.4104	100 K		
	17	57.11.4104	100 K		
	19	57.11.4104	100 K		
	..01	57.11.4102	1 K		
	..02	57.11.4104	100 K		
	..03	57.11.4104	100 K		
	..04	57.11.4331	330		
	..05	57.11.4154	150 K		
	..06	57.11.4123	12 K		
	..07	57.11.4101	100		
	..09	57.11.4223	22 K		
	..10	57.11.4152	15K		
	..12	57.11.5106	10 M	5%	
	..13	57.11.5106	10 M	5%	
	..16	57.11.4223	22 K		
	..17	57.11.4104	100 K		
	..18	57.11.4331	330		
	..19	58.01.9103	10 K	TRIM - POT.	
	..23	57.11.3752	7.5K	1%	
	R..24	57.11.3472	4.7K	1%	

IND	DATE	NAME	
④			RESISTORS METALFILM
③			
②			
①			
○	31.8.84	OL	

STUDER 2CH PHONO EQUAL./AMP. WITH FADERSTART 1.915.305-00 PAGE 3 OF 4

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
D	1	50.04.0125	JN 4448		
	2	50.04.0125	JN 4448		
	D3	50.04.0125	JN 4448		
	IC1	50.09.0107	RC 4659 NB	UPC 4659 DUAL OP AMP	RA, NE
	..01	50.05.0244	NE 5534 AN	5534 ANB OP AMP	SIG, RA
	..02	50.05.0244	NE 5534 AN	5534 ANB OP AMP	SIG, RA
	..03	50.09.0105	NE 5532 N	XR...N, RC...NB DUAL OP AMP	SIG, EX
	IC..04	50.05.0244	NE 5534 AN	5534 ANB OP AMP	SIG, RA
	K1	56.02.1001	1 μ /24V		NAT
	Q..01	1.010.295.50	J112, MPF 4392	J-N-FET / Q-GESICKT, 50.03.0350 FORM B, A M	
	..02	1.010.295.50	J112, MPF 4392	J-N-FET / Q-GESICKT, 50.03.0350 FORM B, A M	
	R1	57.99.0209	5.6	PHILIPS 2322.662.91008	
	2	57.99.0209	5.6		
	8	57.11.4101	100		
	9	57.11.4684	680 K		
	10	57.11.4102	1 K		
	R11	57.11.4682	6.8 K		

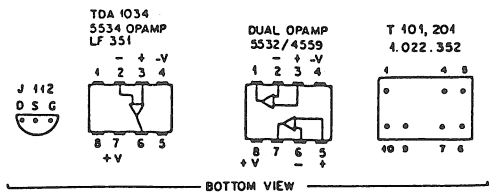
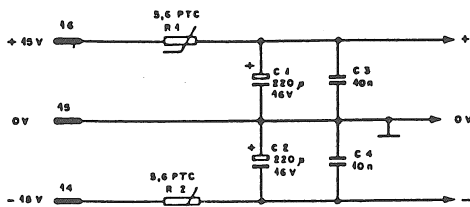
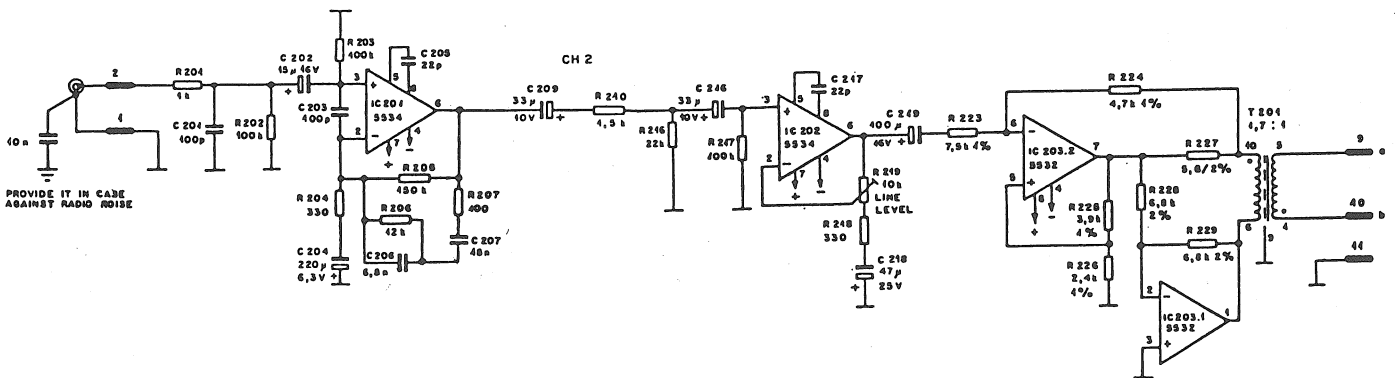
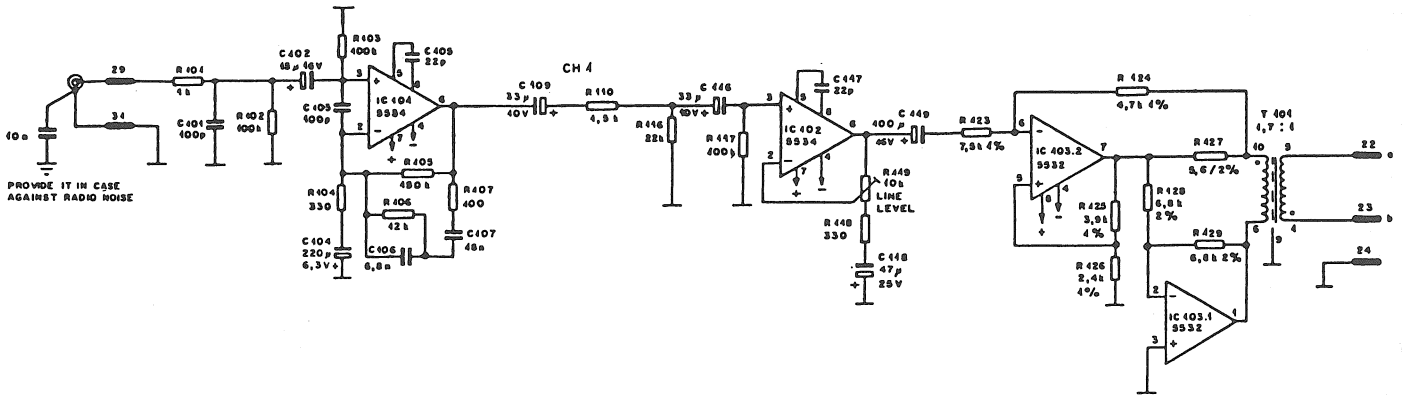
IND	DATE	NAME	
④			EX EXAR SIG SIGNETICS
③			M MOTOROLA
②			NAT NATIONAL
①			NE NIPPON ELECTRIC (NEC)
○	31.8.84	OL	RA RAYTHEON

STUDER 2CH PHONO EQUAL./AMP. WITH FADERSTART 1.915.305-00 PAGE 2 OF 4

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
R	25	57.11.3392	3.9 K	1%	
	..26	57.11.3242	2.4 K	1%	
	..27	57.11.4569	5.6		
	..28	57.11.4682	6.8 K		
	..29	57.11.4682	6.8 K		
	..41	58.01.9103	10 K	TRIM - POT.	
	..42	57.11.4223	22 K		
	..43	57.11.4104	100 K		
	..44	57.11.3202	2 K	1%	
	..46	57.11.4223	22 K		
	R..47	57.11.4181	180		
	T..01	1.022.352.00	1.71A	OUTPUT TRANSFORMER	STUDER
	X1C	53.03.0166	DIL 8P	IC - SOCKET, 8 PIN	

IND	DATE	NAME	
④			
③			
②			
①			
○	31.8.84	OL	

STUDER 2CH PHONO EQUAL./AMP. WITH FADERSTART 1.915.305-00 PAGE 4 OF 4



DATE:	5.12.83			
SIGN:	<i>Li</i>			
STUDER REGENDORF ZÜRICH	2 CH PHONO EQUALIZER / AMPLIFIER			SC 1.915.306

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
C	1	59.22.4224	220 μ	-20% 16V EL	
	2	59.22.4224	220 μ	-20% 16V EL	
	3	59.32.3103	10 n	40V CER	
	4	59.32.3103	10 n	40V CER	
	..04	59.34.4104	100 p	5% 63V CER	
	..02	59.26.2150	16 μ	20% 16V SAL	
	..03	59.34.4104	100 p	5% 63V CER	
	..04	59.22.2224	220 μ	-20% 63V EL	
	..05	59.34.2220	22 p	5% 63V CER	
	..06	59.11.3682	6.8 n	5% 160V PC	
	..07	59.12.4183	12 n	5% 250V MPETP	
	..05	59.26.1330	33 μ	20% 10V SAL	
	..16	59.26.1330	33 μ	20% 10V SAL	
	..17	59.34.2220	22 p	5% 63V CER	
	..18	59.22.5470	47 μ	-20% 25V EL	
C..15		59.22.4104	100 μ	-20% 16V EL	
IC..01		50.05.0244	ME 5534 AN	5534 ANB OP AMP	516, RA
..02		50.05.0244	ME 5534 AN	5534 ANB OP AMP	516, RA
IC..03		50.08.0105	ME 5532 N	NR... N, RC... NB DUAL OP AMP	516, EX

IND	DATE	NAME			
④			CER	CERAMIC	EX EXAR
③			EL	ELECTROLYTIC	RA RAYTHEON
②			MPETP	POLYESTER	SK SIGNETICS
①			PC	POLYCARBONATE	
○	31.8.84	AL	SAL	SOLID ALUMINUM	

STUDER 2CH PHONO EQUALIZER / AMPLIFIER 1.915.306-00 PAGE 1 OF 3

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
		53.03.0166	DL 6P	IC - SOCKET, 8PIN	

IND	DATE	NAME			
④					
③					
②					
①					
○	31.8.84	AL			

STUDER 2CH PHONO EQUALIZER / AMPLIFIER 1.915.306-00 PAGE 3 OF 3

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
R	1	57.99.0203	5,6	PHILIPS 2322.662.31005	
	2	57.99.0203	5,6		
	..01	57.11.4102	1 K		
	..02	57.11.4104	100 K		
	..03	57.11.4104	100 K		
	..04	57.11.4334	330		
	..05	57.11.4154	150 K		
	..06	57.11.4123	12 K		
	..07	57.11.4104	100		
	..10	57.11.4153	15 K		
	..16	57.11.4223	22 K		
	..17	57.11.4104	100 K		
	..18	57.11.4334	330		
	..19	58.01.9103	10 K	TRIM - POT.	
	..23	57.11.3752	7,5 K	1%	
	..24	57.11.3472	4,7 K	1%	
	..25	57.11.3332	3,3 K	1%	
	..26	57.11.3242	2,4 K	1%	
	..27	57.11.4563	5,6		
	..28	57.11.4682	6,8 K		
R..29		57.11.4682	6,8 K		
T..01		1.022.352.00	1,7:1	OUTPUT TRANSFORMER	STUDER

IND	DATE	NAME			
④			REGISTORS	METALFILM	
③					
②					
①					
○	31.8.84	AL			

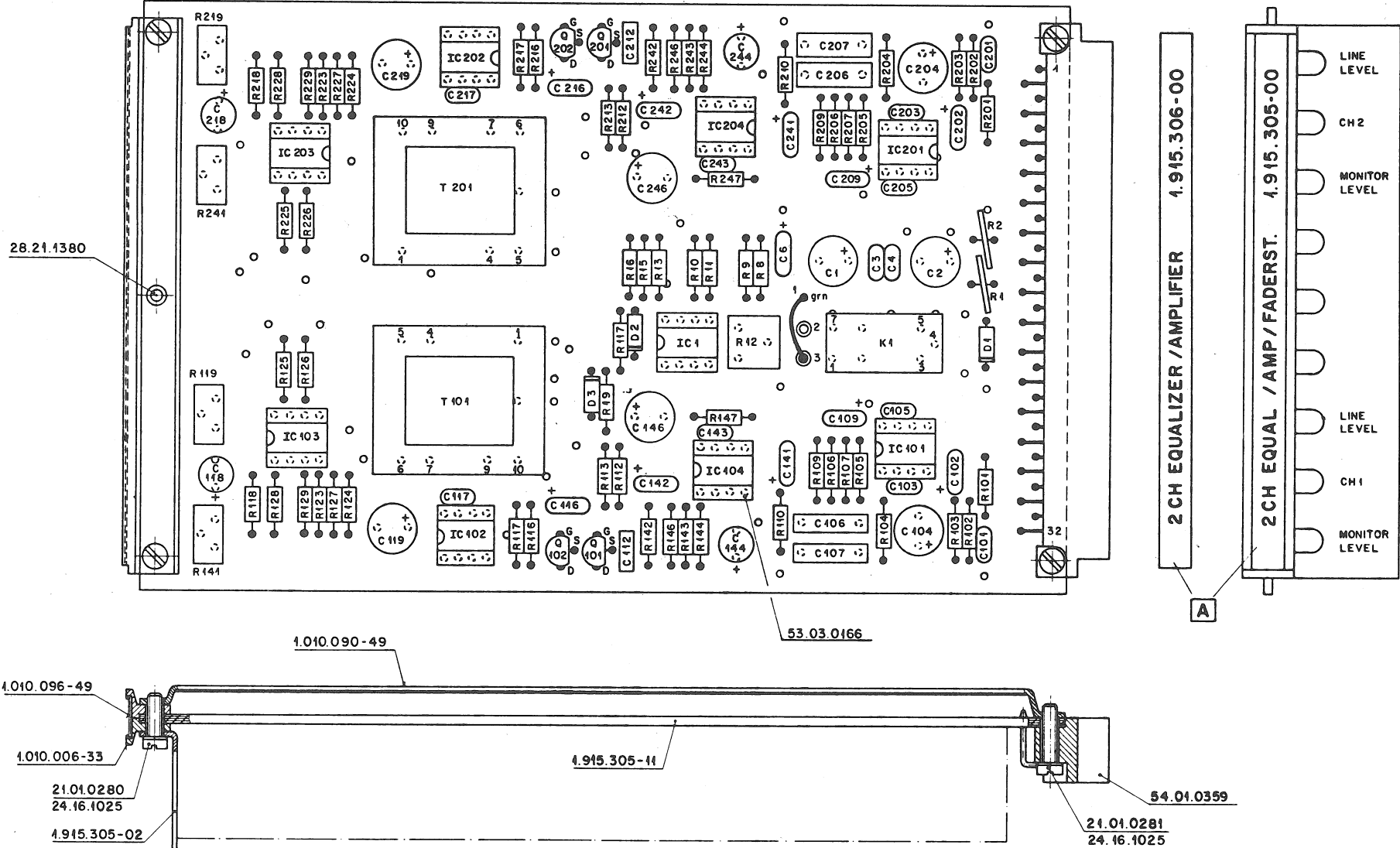
STUDER 2CH PHONO EQUALIZER / AMPLIFIER 1.915.306-00 PAGE 2 OF 3

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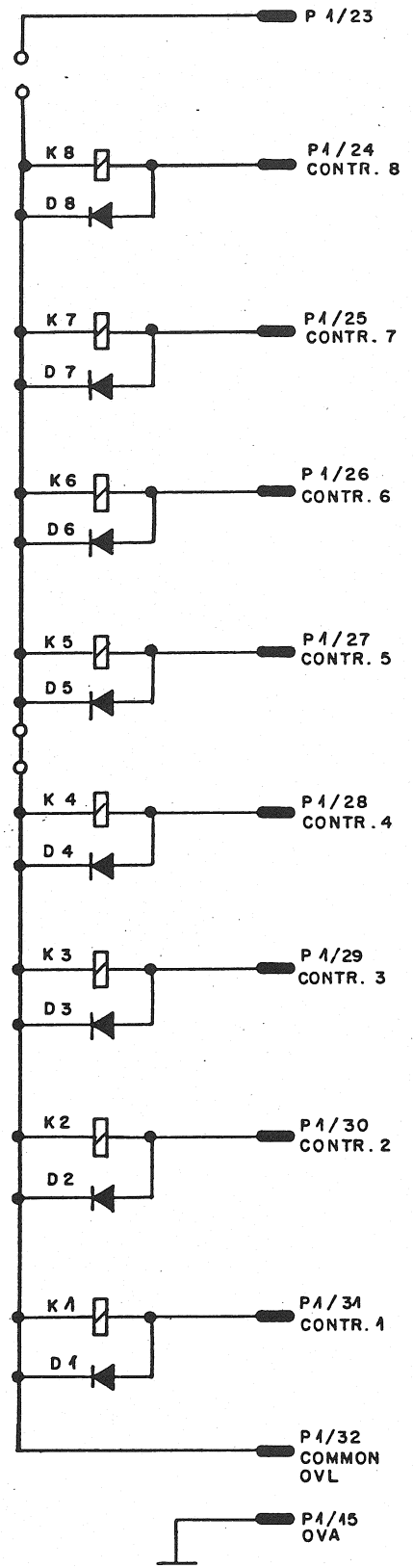
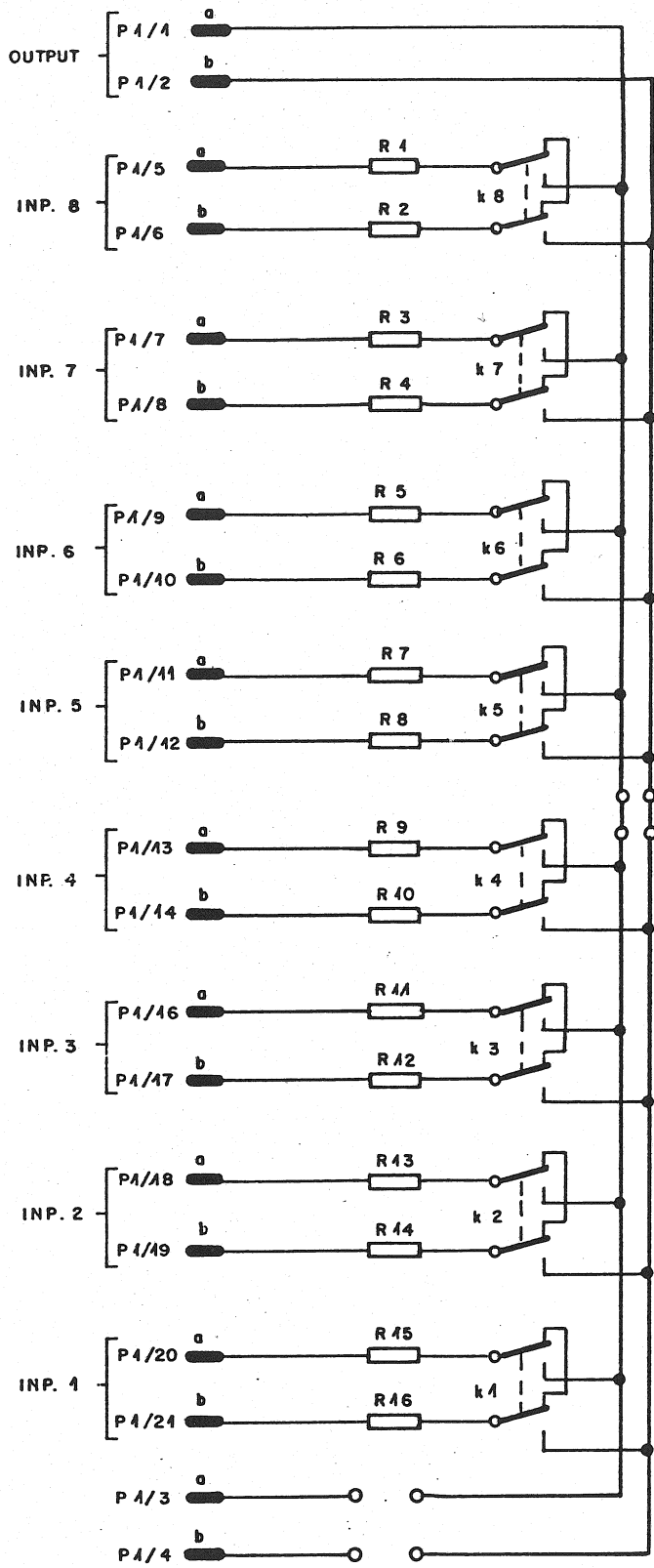
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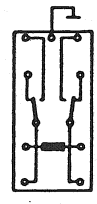


VALID FOR	NR UNIT	NR PL	A
2 CH PHONO EQUAL / AMP WITH FADERSTART	4.915.305-00	4.915.305-00	4.915.305-04
2 CH PHONO EQUAL / AMPLIFIER	4.915.306-00	4.915.306-00	4.915.306-04

Werkstoff Norm-Nr DIN-Bez. Abmessung	Güte Oberfläche Beh.		Änderung ③ ② ①
	Zugehörige Unterlagen	Fremmasstoleranz	
Ersatz für	Ersetzt durch	Ausgabe 3.11.83 A.Ho Datum Gez Gepr Gts Index	
STUDDER REGENSDORF ZÜRICH	Benennung 2 CH Phono Equalizer/ Amplifier / Faderstart	Kopie für 1.915.305.00 1.915.306.00	



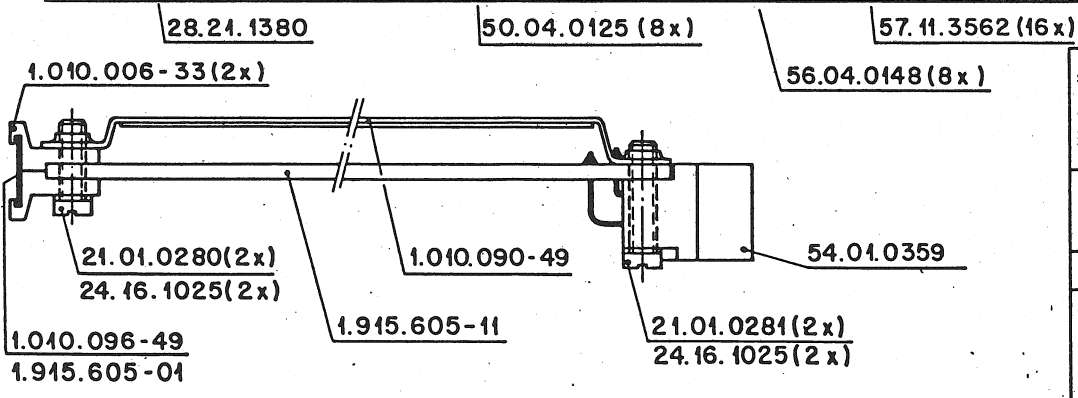
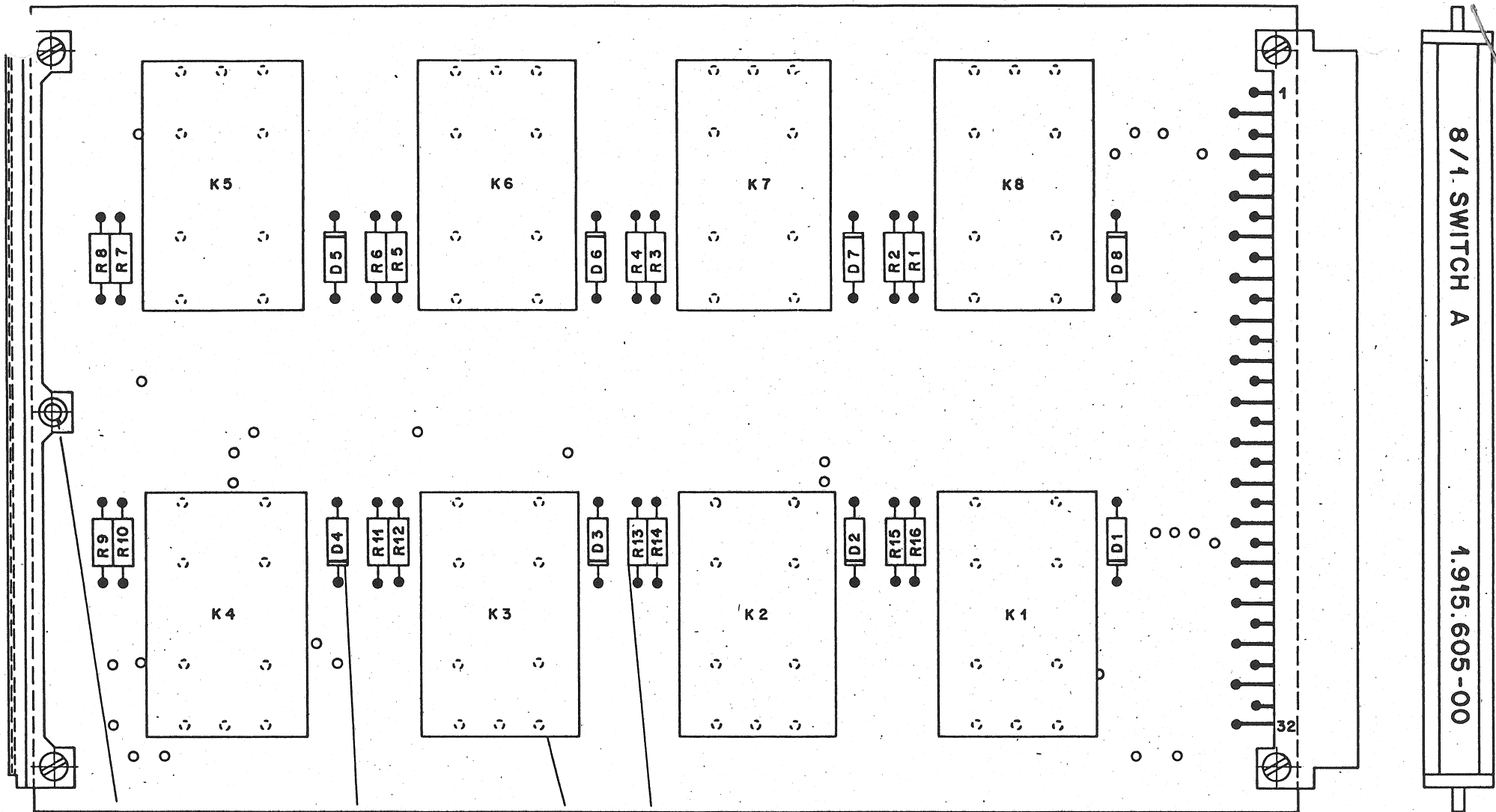
D 1... D 8 = 1N4448
 R 1... R 16 = 5,6kΩ 1%



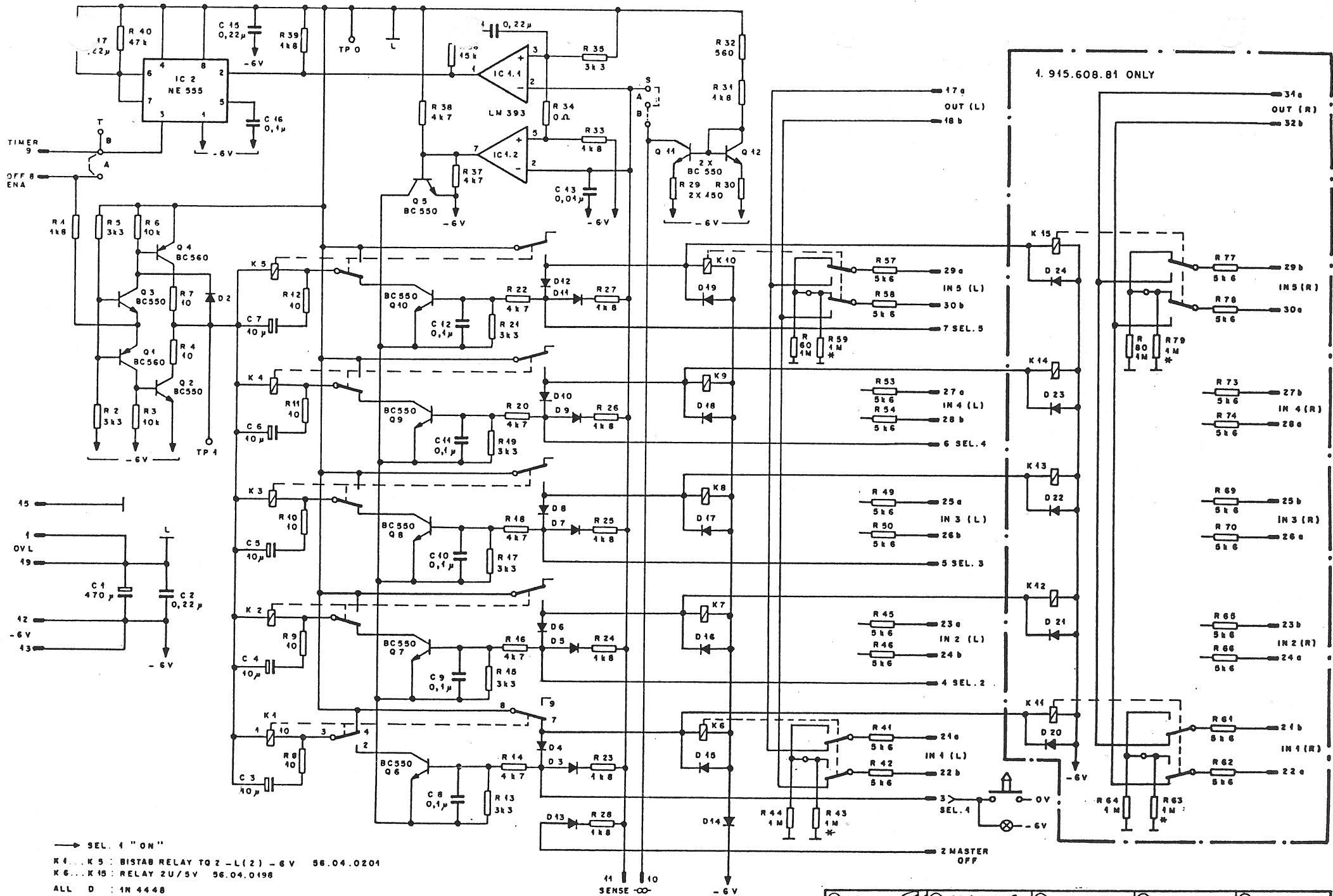
BOTTOM VIEW

① 28.1.86	① 14.1.87	○	○	○
STUDER REGENSDORF. ZÜRICH		MONITOR RELAYS 8/1 SWITCH.		SC 1.915.605

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Werkstoff	Norm-Nr.:	Güte:		Änderung					③
	DIN-Bez.:	Oberfläche:							
	Abmessung:	Beh.:							①
Zugehörige Unterlagen:		Freimasstoleranz:	Maßstab:	Änderung					④
		±	2:1	Datum	5.3.86	Gez.	A.Ho	Gepr.	①
Ersatz für:		Ersetzt durch:		Ges.					
STUDER REGENSDORF ZÜRICH		Benennung: 8/1 SWITCH A		Kopie für:					
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→ SEL. 1 "ON"

K 4...K 5 : BISTAB RELAY TO 2 -L(2) -6V 56.04.0204

K 6...K 15 : RELAY 2U/3V 56.04.0198

ALL D : 1N 4448

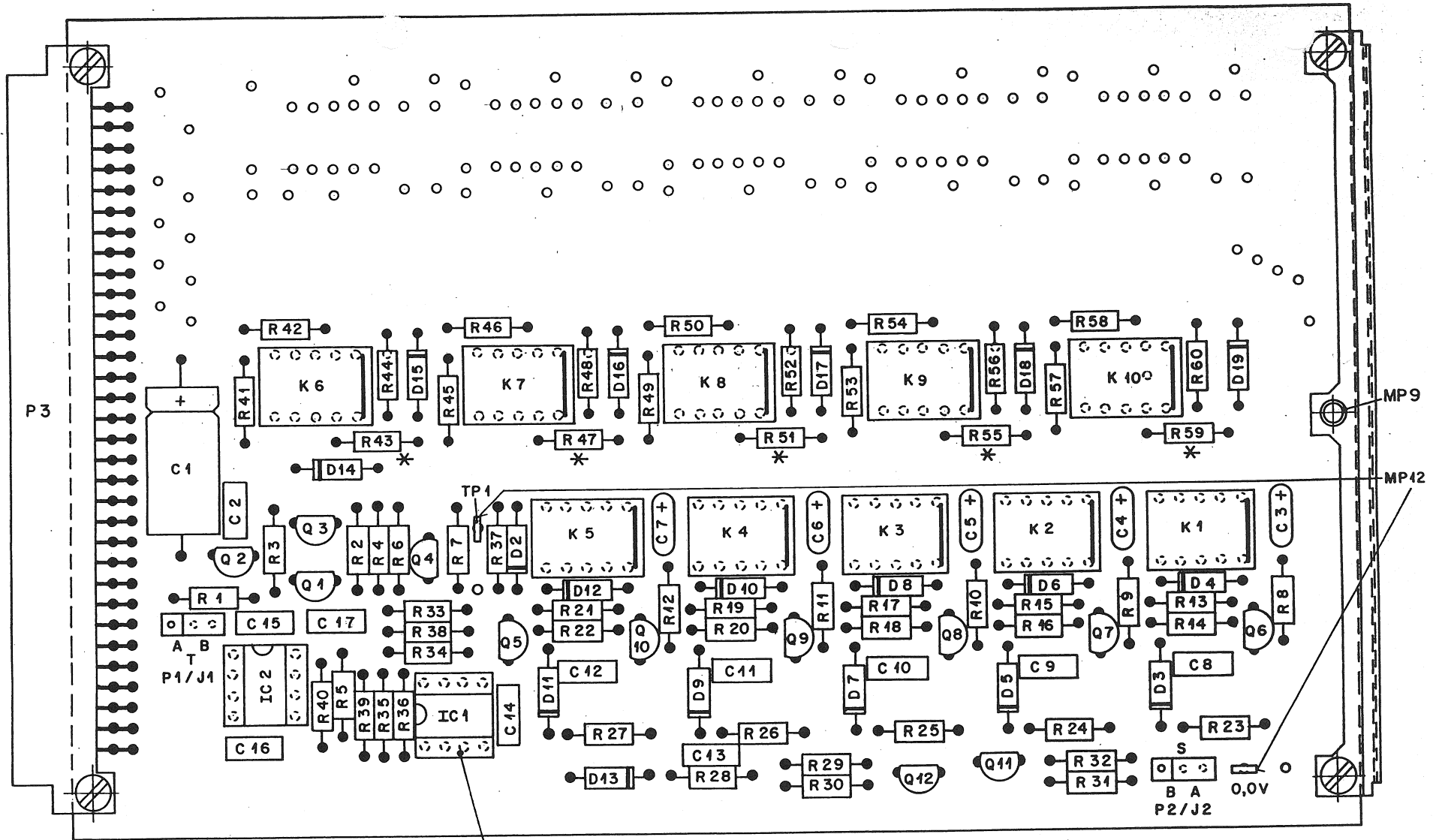
D 4, 6, 8, 10, 42 : BAT 85

* OPTION.

② 25.2.93	④ 29.1.96	○	○	○
STUOER REGENSDORF ZURICH		BISTABIL REL.UNIT 5/1 MONO		SC 1.945.607.84
		BISTABIL REL.UNIT 5/1 STEREO		SC 1.945.608.84

1.915.607.81

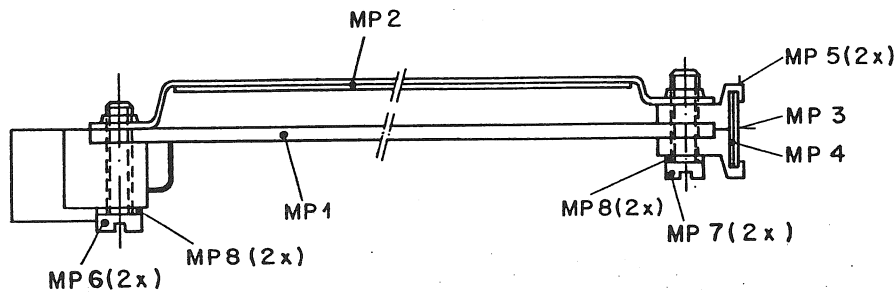
BISTABIL RELAY 5/1 MONO



MP 10 (2 x)

Schild MP 11 aufgeklebt nach Produktionsmuster

* Option



Zugehörige Unterlagen	Freimasstoleranz.	Maßstab	Änderung						
PL	±	2 : 4				③			
Ersatz für:	Ersetzt durch:	Kopie für:				②			
						④			
						①			
STUDER REGENSDORF ZÜRICH	BISTABIL REL. 5/1 MONO ESE		Ausg. Datum	14.8.96	Gez. 2	Gepr. V	Ges. RK	Index	①
			Kopie für:						
			1.915.607.81						

Parts List

STUDER Professional Audio AG

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.25.2471		470u	C-EL, 20%, 10V
0	C 2	59.40.0224			C .22 U , 10%, 63V , PETP
0	C 3	59.42.5100			C 10 U , 20%, 25V , SAL
0	C 4	59.42.5100			C 10 U , 20%, 25V , SAL
0	C 5	59.42.5100			C 10 U , 20%, 25V , SAL
0	C 6	59.42.5100			C 10 U , 20%, 25V , SAL
0	C 7	59.42.5100			C 10 U , 20%, 25V , SAL
0	C 8	59.40.0104			C .1 U , 10%, 63V , PETP
0	C 9	59.40.0104			C .1 U , 10%, 63V , PETP
0	C 10	59.40.0104			C .1 U , 10%, 63V , PETP
0	C 11	59.40.0104			C .1 U , 10%, 63V , PETP
0	C 12	59.40.0104			C .1 U , 10%, 63V , PETP
0	C 13	59.06.0103		10n	PETP, 63V, 10%, RM5
0	C 14	59.40.0224			C .22 U , 10%, 63V , PETP
0	C 15	59.40.0224			C .22 U , 10%, 63V , PETP
0	C 16	59.40.0104			C .1 U , 10%, 63V , PETP
0	C 17	59.40.0224			C .22 U , 10%, 63V , PETP
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	50.04.0127		BAT85	200mA, Schottky
0	D 5	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 6	50.04.0127		BAT85	200mA, Schottky
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 8	50.04.0127		BAT85	200mA, Schottky
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 10	50.04.0127		BAT85	200mA, Schottky
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35
0	D 12	50.04.0127		BAT85	200mA, Schottky
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	IC 1	50.05.0283		LM393	Dual Comparator
0	IC 2	50.05.0158		LM555	IC LM 555 CN
0	J 1	54.11.0126	3 pcs	1p	P STIFT, 11.3 MM 1 PIN=1 STK.
0	J 2	54.11.0126	3 pcs	1p	P STIFT, 11.3 MM 1 PIN=1 STK.
0	K 1	56.04.0201		2u	6V, 125V/2A, Ag/Au, bistable
0	K 2	56.04.0201		2u	6V, 125V/2A, Ag/Au, bistable
0	K 3	56.04.0201		2u	6V, 125V/2A, Ag/Au, bistable
0	K 4	56.04.0201		2u	6V, 125V/2A, Ag/Au, bistable

Parts List

STUDER Professional Audio AG

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	K 5	56.04.0201		2u	6V, 125V/2A, Ag/Au, bistable
0	K 6	56.04.0198		2u	5V, 125V/2A, AG/AU
0	K 7	56.04.0198		2u	5V, 125V/2A, AG/AU
0	K 8	56.04.0198		2u	5V, 125V/2A, AG/AU
0	K 9	56.04.0198		2u	5V, 125V/2A, AG/AU
0	K 10	56.04.0198		2u	5V, 125V/2A, AG/AU
0	MP 1	1.915.607.13	1 pce		BISTABIL RELAY PCB
0	MP 2	1.010.090.49	1 pce	Screen	ABSCHIRMUNG KOMPLETT
0	MP 3	1.010.096.49	1 pce	-	KLARSICHTSCHILD
0	MP 4	1.915.607.01	0 pce		BEZ.STREIFEN 6,3 * 91
0	MP 5	1.010.006.33	2 pcs	Handle	GRIFFHAELFTE
0	MP 6	21.01.0281	2 pcs		Z - SCHR. , ZN , M2.5 * 10
0	MP 7	21.01.0280	2 pcs		Z - SCHR. , ZN , M2.5 * 8
0	MP 8	24.16.1025	4 pcs		RIPPENSCHIEBE D 2.7/ 5
0	MP 9	28.21.1380	1 pce		ROHRNIETE, D2.25* 6.5
0	MP 10	53.03.0166	2 pcs	8p	DIL 0.3", lot, gerade
0	MP 11	43.01.0108	1 pce	Label	ESE-WARNSCHILD
0	MP 12	54.02.0320	2 pcs	1p	Flatpin, 2.8*0.8mm
0	P 1	54.11.0128		Jumper	J BRUECKE 2 * .63
0	P 2	54.11.0128		Jumper	J BRUECKE 2 * .63
0	P 3	54.01.0359		32-P	P EU-B 2 * 16
0	Q 1	50.43.0601			Q BC 560 C ,A
0	Q 2	50.43.0407			Q BC 550 C,
0	Q 3	50.43.0407			Q BC 550 C,
0	Q 4	50.43.0601			Q BC 560 C ,A
0	Q 5	50.43.0407			Q BC 550 C,
0	Q 6	50.43.0407			Q BC 550 C,
0	Q 7	50.43.0407			Q BC 550 C,
0	Q 8	50.43.0407			Q BC 550 C,
0	Q 9	50.43.0407			Q BC 550 C,
0	Q 10	50.43.0407			Q BC 550 C,
0	Q 11	50.43.0407			Q BC 550 C,
0	Q 12	50.43.0407			Q BC 550 C,
0	R 1	57.11.3182		1k8	MF, 1%, 0207
0	R 2	57.11.3332		3k3	MF, 1%, 0207
0	R 3	57.11.3103		10k	MF, 1%, 0207
0	R 4	57.11.3100		10R	MF, 1%, 0207
0	R 5	57.11.3332		3k3	MF, 1%, 0207
0	R 6	57.11.3103		10k	MF, 1%, 0207
0	R 7	57.11.3100		10R	MF, 1%, 0207
0	R 8	57.11.3100		10R	MF, 1%, 0207
0	R 9	57.11.3100		10R	MF, 1%, 0207
0	R 10	57.11.3100		10R	MF, 1%, 0207

Parts List STUDER Professional Audio AG

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 11	57.11.3100		10R	MF, 1%, 0207
0	R 12	57.11.3100		10R	MF, 1%, 0207
0	R 13	57.11.3332		3k3	MF, 1%, 0207
0	R 14	57.11.3472		4k7	MF, 1%, 0207
0	R 15	57.11.3332		3k3	MF, 1%, 0207
0	R 16	57.11.3472		4k7	MF, 1%, 0207
0	R 17	57.11.3332		3k3	MF, 1%, 0207
0	R 18	57.11.3472		4k7	MF, 1%, 0207
0	R 19	57.11.3332		3k3	MF, 1%, 0207
0	R 20	57.11.3472		4k7	MF, 1%, 0207
0	R 21	57.11.3332		3k3	MF, 1%, 0207
0	R 22	57.11.3472		4k7	MF, 1%, 0207
0	R 23	57.11.3182		1k8	MF, 1%, 0207
0	R 24	57.11.3182		1k8	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	57.11.3151		150R	MF, 1%, 0207
0	R 30	57.11.3151		150R	MF, 1%, 0207
0	R 31	57.11.3182		1k8	MF, 1%, 0207
0	R 32	57.11.3561		560R	MF, 1%, 0207
0	R 33	57.11.3182		1k8	MF, 1%, 0207
0	R 34	57.11.3000		0R0	MF, 0207
0	R 35	57.11.3332		3k3	MF, 1%, 0207
0	R 36	57.11.3153		15k	MF, 1%, 0207
0	R 37	57.11.3472		4k7	MF, 1%, 0207
0	R 38	57.11.3472		4k7	MF, 1%, 0207
0	R 39	57.11.3182		1k8	MF, 1%, 0207
0	R 40	57.11.3473		47k	MF, 1%, 0207
0	R 41	57.11.3562		5k6	MF, 1%, 0207
0	R 42	57.11.3562		5k6	MF, 1%, 0207
0	R 43	not used		1M0	MF, 1%, 0207
0	R 44	57.11.3105		1M0	MF, 1%, 0207
0	R 45	57.11.3562		5k6	MF, 1%, 0207
0	R 46	57.11.3562		5k6	MF, 1%, 0207
0	R 47	not used		1M0	MF, 1%, 0207
0	R 48	57.11.3105		1M0	MF, 1%, 0207
0	R 49	57.11.3562		5k6	MF, 1%, 0207
0	R 50	57.11.3562		5k6	MF, 1%, 0207
0	R 51	not used		1M0	MF, 1%, 0207
0	R 52	57.11.3105		1M0	MF, 1%, 0207
0	R 53	57.11.3562		5k6	MF, 1%, 0207
0	R 54	57.11.3562		5k6	MF, 1%, 0207
0	R 55	not used		1M0	MF, 1%, 0207
0	R 56	57.11.3105		1M0	MF, 1%, 0207
0	R 57	57.11.3562		5k6	MF, 1%, 0207

Parts List STUDER Professional Audio AG

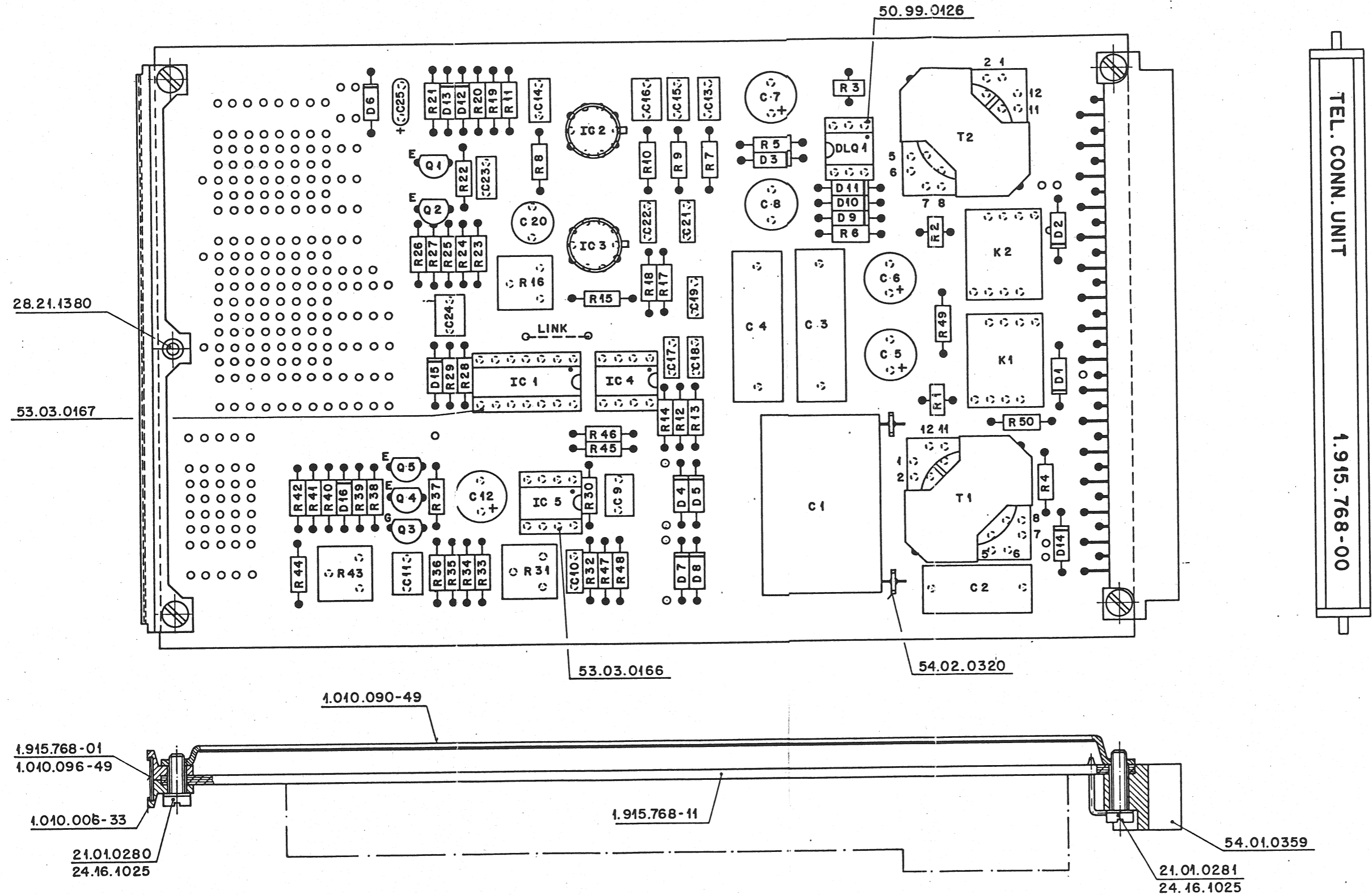
Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 58	57.11.3562		5k6	MF, 1%, 0207
0	R 59	not used		1M0	MF, 1%, 0207
0	R 60	57.11.3105		1M0	MF, 1%, 0207

End of List

Comments:

	1. Issue 09.Dez.1996 by Vo	Last Change	by Vo	Page 3 / 4
STUDER	BISTABIL RELAY 5/1 MONO ,A	PL	1.915.607.81	00

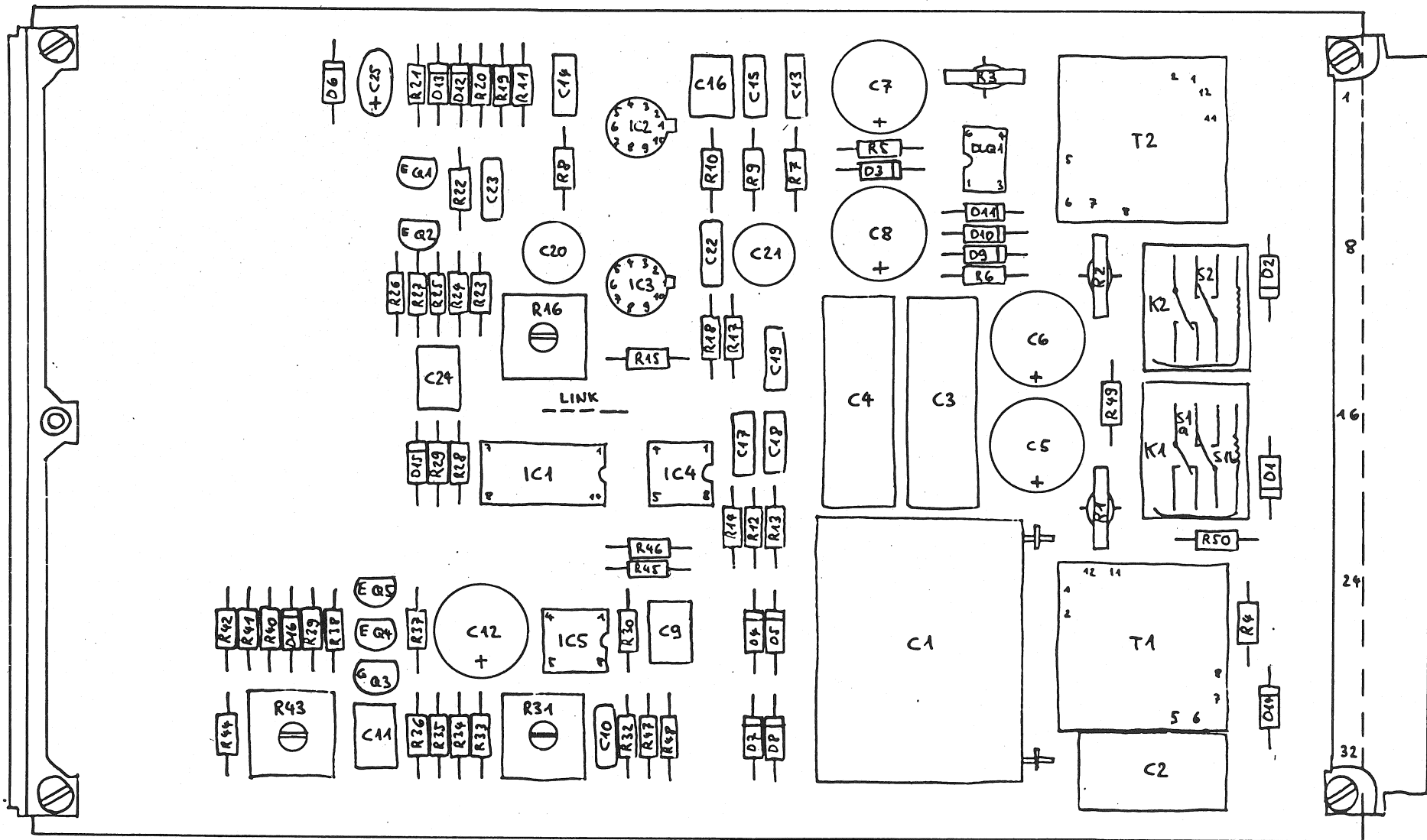
	1. Issue 09.Dez.1996 by Vo	Last Change	by Vo	Page 4 / 4
STUDER	BISTABIL RELAY 5/1 MONO ,A	PL	1.915.607.81	00



TEL. CONN. UNIT
1.915.768-00

Werkstoff Norm-Nr.: DIN-Bez.: Abmessung:	Gute:		Änderung	③
	Beh.:			
Zugehörige Unterlagen: PL	Freimasstoleranz	Maßstab: 2:1	Ausgabe Datum	①
Ersatz für:		Ersetzt durch:	Kopie für: <u>Studiebau</u>	
STUDER REGENSDORF ZÜRICH		Benennung: Tel. Connection Unit		④
			1.3. APR 1984	
			Nummer: 1.915.768-00	

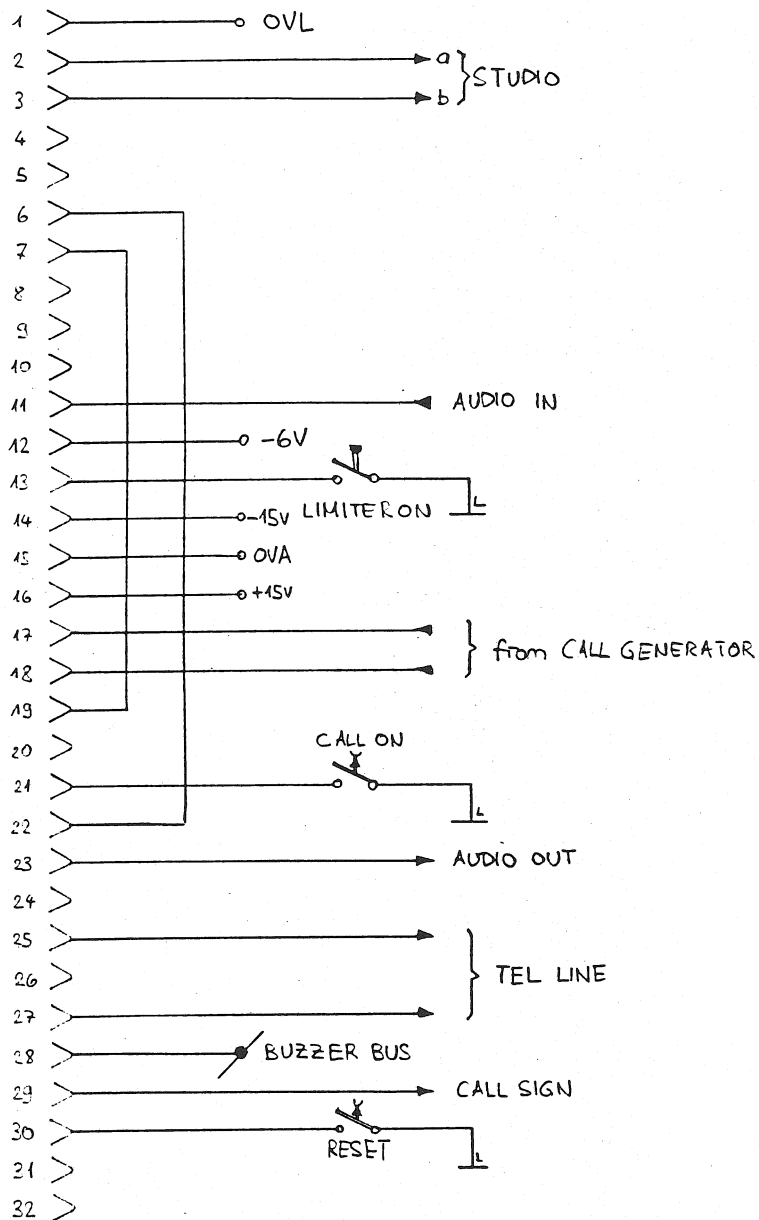
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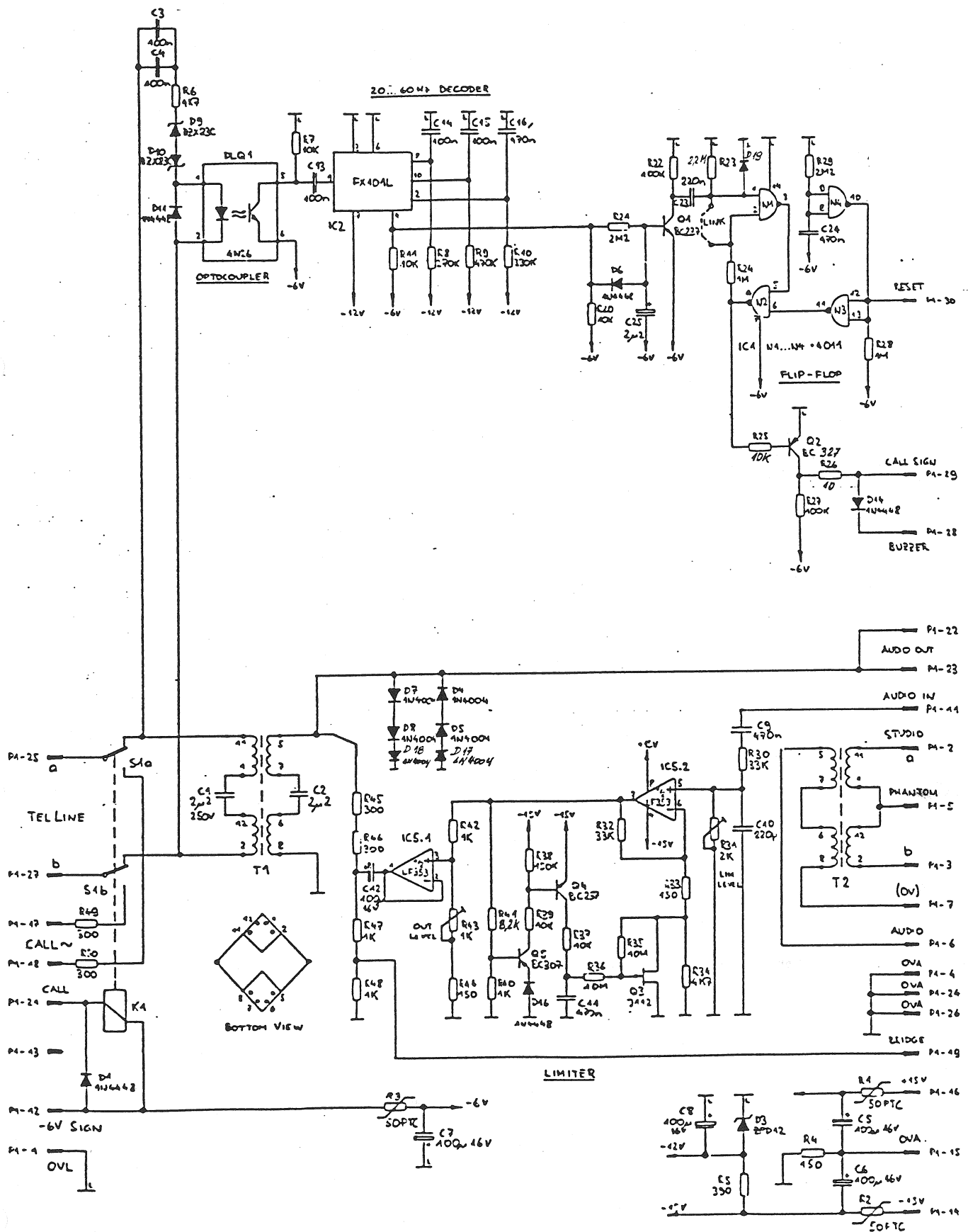
TEL CONNECTION UNIT 1.915.768.00

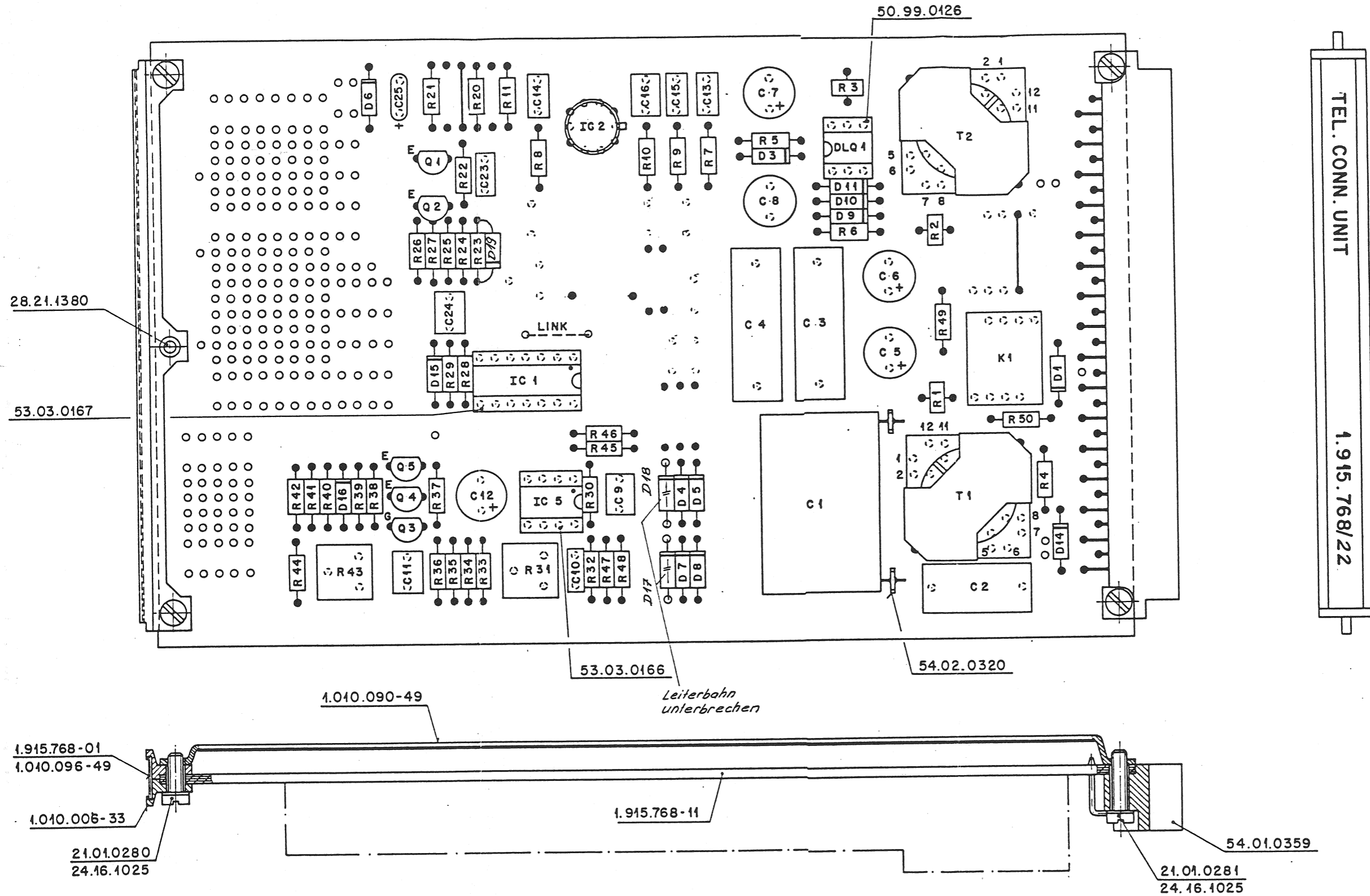
BESTÜCKUNGSPLAN

Nr	Name	Bemerkung
1	OVL	
2	STUDIO a	
3	STUDIO b	
4	OVA	
5	STUDIO PHANTOM	
6	STUDIO AUDIO	
7	STUDIO (OV)	
8		NC
9		NC
10		NC
11	AUDIO	
12	-6V	
13	LIMITER ON	
14	-15V	
15	OV	
16	+15V	
17	CALL	
18	CALL	
19	BRIDGE	
20		NC
21	CALL ON	
22	AUDIO	
23	AUDIO	
24	OVA	
25	TEL LINE a	
26	OVA	
27	TEL LINE b	
28	BUZZER BUS	
29	CALL SIGN	
30	RESET	
31		NC
32		NC



7 April 83	W. Markl	CONNECTION DIAGRAM	
STUDER	TEL. CONNECTION UNIT	1.915.768.00	PAGE OF





TEL. CONN. UNIT
1.915.768/22

Werkstoff	Norm-Nr.:	Güte:		Änderung	23.7.87	Ha	③	
	DIN-Bez.:	Beh.:						
Zugehörige Unterlagen	Abmessung:	Freimasstoleranz:	Maßstab:	Ausgabe	4.4.84	A.Ho	Vr Vr	①
	PL		2:1					
Ersetzt für:		Ersetzt durch:		Kopie für:				
STUDER REGENSDORF ZÜRICH		Benennung Tel. Connection Unit		Nummer: 1.915.768/22				

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT		MFR
	C 1	59.12.4225	2,2 μ	250 V	MPETP	
	2	59.05.1125	2,2 μ		MPC	
	3	59.99.0453	100 n	250 V	PME	
	4	59.99.0453	100 n	250 V	PME	
	5	59.22.4101	100 μ	16 V	EL	
	6	59.22.4101	100 μ	16 V	EL	
	7	59.22.4101	100 μ	16 V	EL	
	8	59.22.4101	100 μ	16 V	EL	
	9	59.06.0474	470 n		PETP	
	10	59.34.4221	220 p		KER	
	11	59.06.0474	470 n		PETP	
	12	59.22.4101	100 μ	16 V	EL	
	13	59.06.0104	100 n		PETP	
	14	59.06.5104	100 n		PETP	
	15	59.06.5104	100 n		PETP	
	16	59.06.0474	470 n		PETP	
	17	59.06.0102	1 n		PETP	
	18	59.06.0102	1 n		PETP	
	19	59.06.0222	2,2 n		PETP	
	20	59.05.1472	4,7 n	1%	PP	
	21	59.				
	22	59.06.0103	10 n		PETP	
	23	59.06.0224	220 n		PETP	
	24	59.06.0474	470 n		PETP	
	25	59.26.5229	2,2 μ		SAL	
	D- 1	50.04.0125	1N4448			
	2	50.04.0125	1N4448			
	3	50.04.1117	ZPD12	12 V		
	4	50.04.0105	1N4004			

IND	DATE	NAME
④		
③		
②		
①	23.7.87	<i>W</i>
○	3. Feb.83	W.Markl

STUDER TEL CONNECTION UNIT PL 1.915.768/22 PAGE 1 OF 4

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	D175	50.04.0105	1N4004		
	6	50.04.0125	1N4448		
	7	50.04.0105	1N4004		
	18,8	50.04.0105	1N4004		
	9	50.04.1109	BZX83C	20V	
	10	50.04.1109	BZX83C	20V	
	11	50.04.0125	1N4448		
	12	50.04.0125	1N4448		*
	13	50.04.0125	1N4448		
	14	50.04.0125	1N4448		
	15	50.04.0125	1N4448		
	16	50.04.0125	1N4448		
	19	50.04.0125	1N4448		
	DLQ1	50.99.0126	4N28		
	K 1	56.04.0170	2*U	5V 135Ω	
	2	56.04.0170	2*U	5V 135Ω	
	Q 1	50.03.0436	BC237		
	2	50.03.0515	BC307	50.03.0351	BC327
	3	50.03.0350	J112		
	4	50.03.0436	BC237		
	5	50.03.0515	BC307		
	IC 1	50.07.0011	4011		
	2	50.07.0032	FX101L		
	3		FX101L		
	4	50.03.0103	TL071		
	5	50.09.0101	TL072		

IND	DATE	NAME
④		
③		
②		
①	23.7.87	<i>[Signature]</i>
○	3.Feb.83	W.Mark!

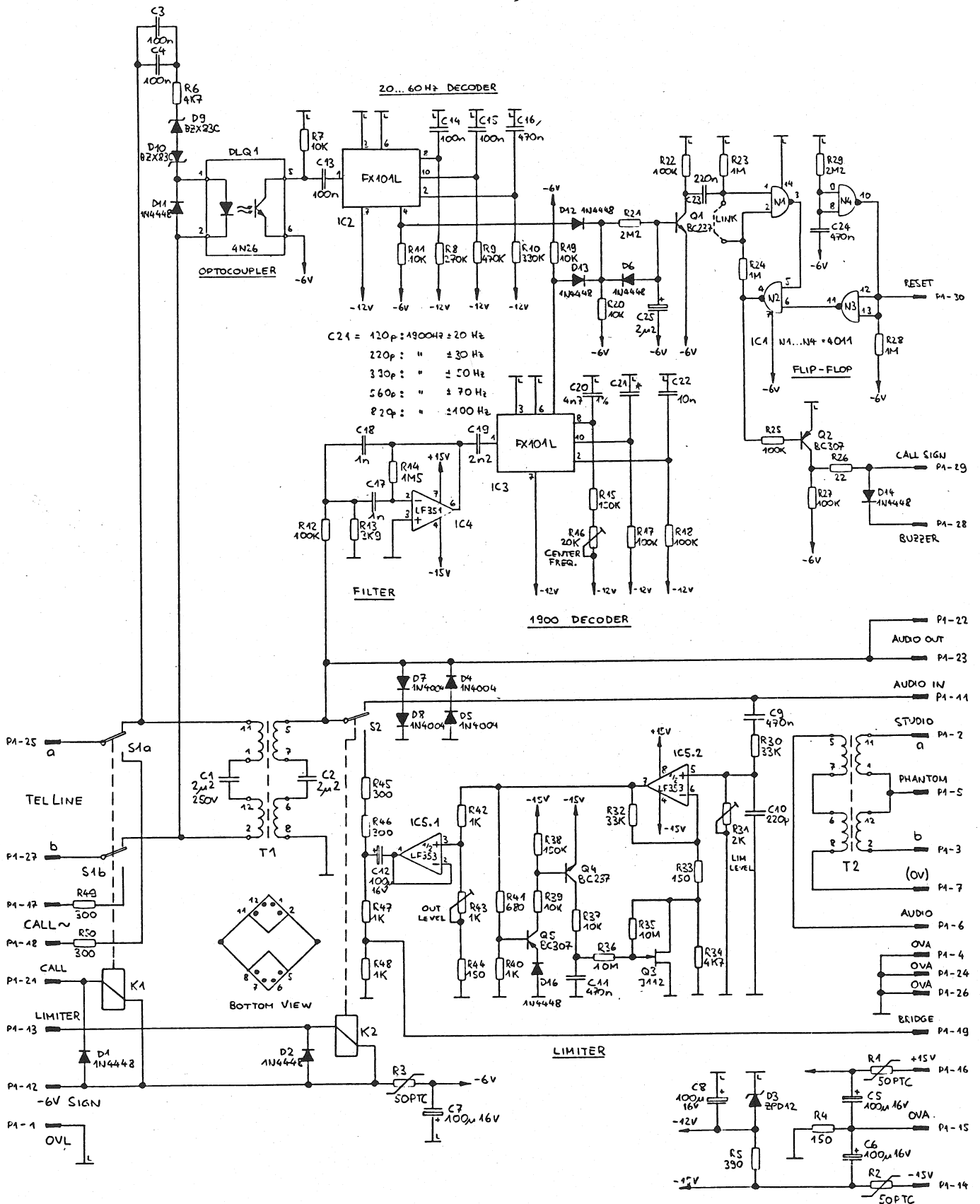
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	R 1	57.99.0206	50	PTC	
	2	57.99.0206	50	PTC	
	3	57.99.0206	50	PTC	
	4	57.11.4151	150		
	5	57.11.4391	390		
	6	57.11.4472	4,7 K		
	7	57.11.4103	10 K		
	8	57.11.4274	270K		
	9	57.11.4474	470K		
	10	57.11.4334	330K		
	11	57.11.4103	10 K		
	12	57.11.4104	100K		
	13	57.11.4392	3,9 K		
	14	57.11.5155	1,5 M		
	15	57.11.4154	150 K		
	16	58.01.8209	20 K	TRIM	PMG
	17	57.11.4104	100K		
	18	57.11.4104	100K		
	19	57.11.4103	10 K		
	20	57.11.4103	10 K		
	21	57.11.5225	2,2 M		
	22	57.11.4104	100K		
	23	57.11.4105	1 M	→ 57.11.5225	2,2 M
	24	57.11.4105	1 M		
	25	57.11.4104	100K	→ 57.11.4103	10K
	26	57.11.4220	22	→ 57.11.4100	10
	-27	57.11.4104	100K		
	28	57.11.4105	1 M		
	29	57.11.5225	2,2 M		
	30	57.11.4333	33 K		

IND	DATE	NAME
④		
③		
②		
①	23.7.87	#
○	3. Feb. 83	W. Marki

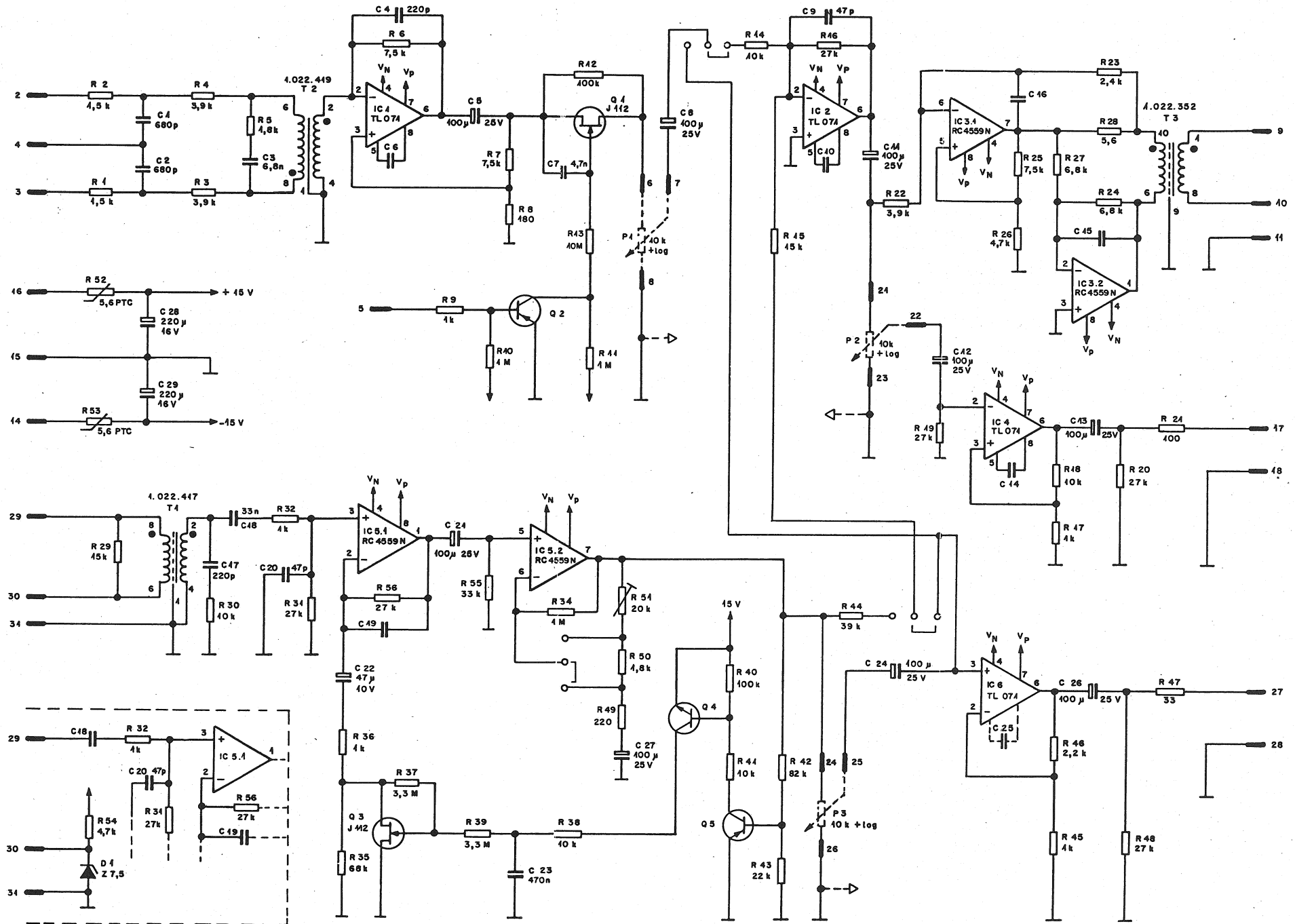
IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	R 31	58.01.8202	2 K	TRIM PMG	
	32	57.11.4333	33 K		
	33	57.11.4151	150		
	34	57.11.4472	4,7 K		
	35	57.11.6106	10 M		
	36	57.11.6106	10 M		
	37	57.11.4103	10 K		
	38	57.11.4154	150 K		
	39	57.11.4103	10 K		
	40	57.11.4102	1 K		
	41	57.11.4681	680	→ 57.11.4822	
	42	57.11.4102	1 K		
	43	58.01.8102	1 K	TRIM PMG	
	44	57.11.4151	150		
	45	57.11.3301	300		
	46	57.11.3301	300		
	47	57.11.4102	1 K		
	48	57.11.4102	1 K		
	49	57.11.3301	300		
	50	57.11.3301	300		
	S 1		AgAu 2u	KOMBINED WITH K1	
	2		AgAu 2u	KOMBINED WITH K2	
	T 1	1.022.237.00		TEL TRAF0	
	2	1.022.237.00		TEL TRAF0	
	XIC	50.03.0166	8 pol		
	XIC	50.03.0167	14 pol		

IND	DATE	NAME
④		
③		
②		
①	23.7.87	HA
○	3.Feb.83	W.Markl

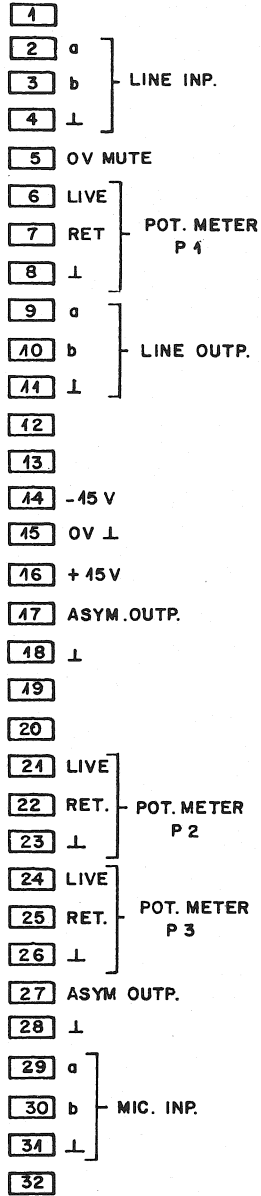
STUDER	TEL CONNECTION UNIT	PL 1.915.768/22	PAGE 4 OF 4
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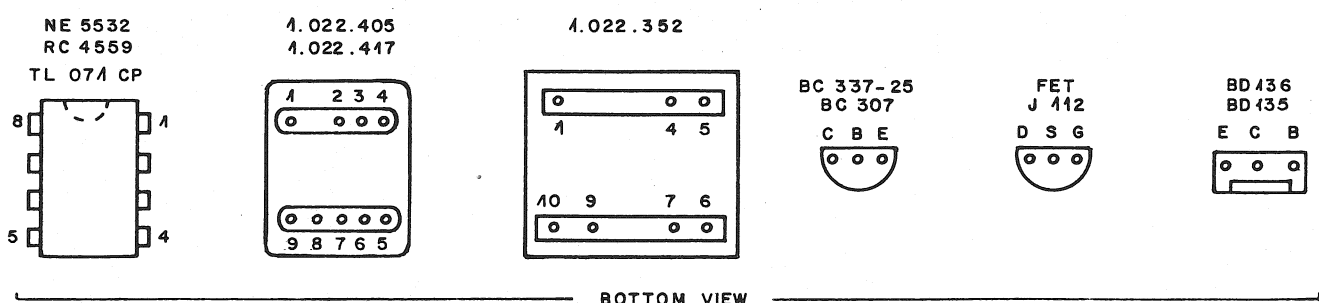
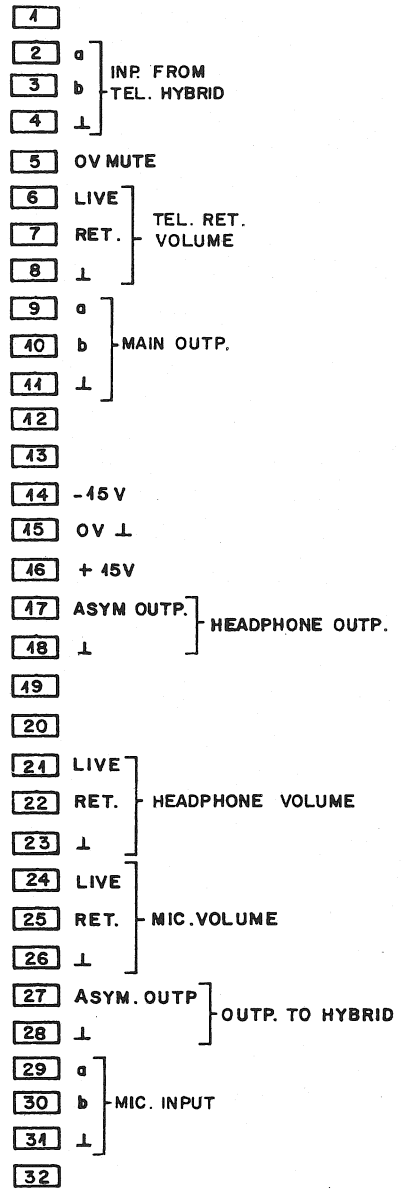
STUOER REGENSDORF ZÜRICH	DATE:	9.9.82
	SIGN:	<i>[Signature]</i>
MIC / LINE AMPLIFIER		
SC 1.915.912	PAGE 1 OF 2	



NORMAL VERSION



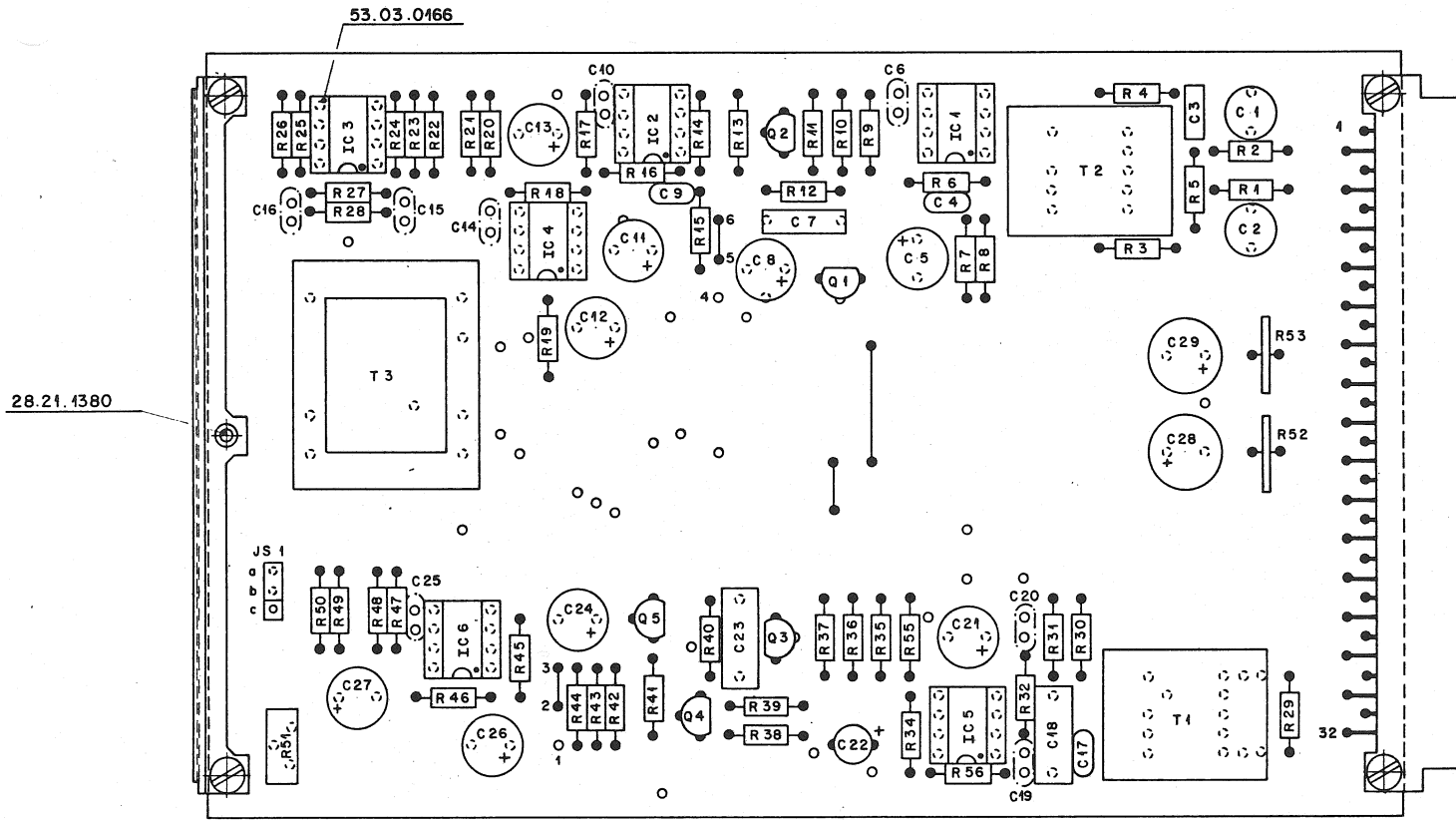
FOR TEL. SYSTEM



BOTTOM VIEW

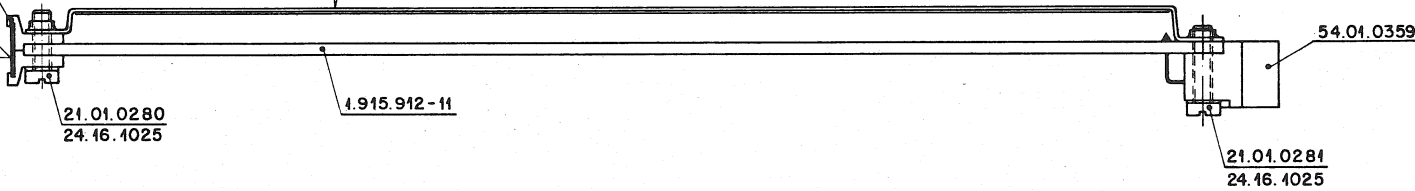
DATE:	9.9. 82					
SIGN:	<i>B</i>					PAGE 2 OF 2
STUDER REGENSDORF ZÜRICH	MIC/LINE AMPLIFIER					1.915.912

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4.010.006-33

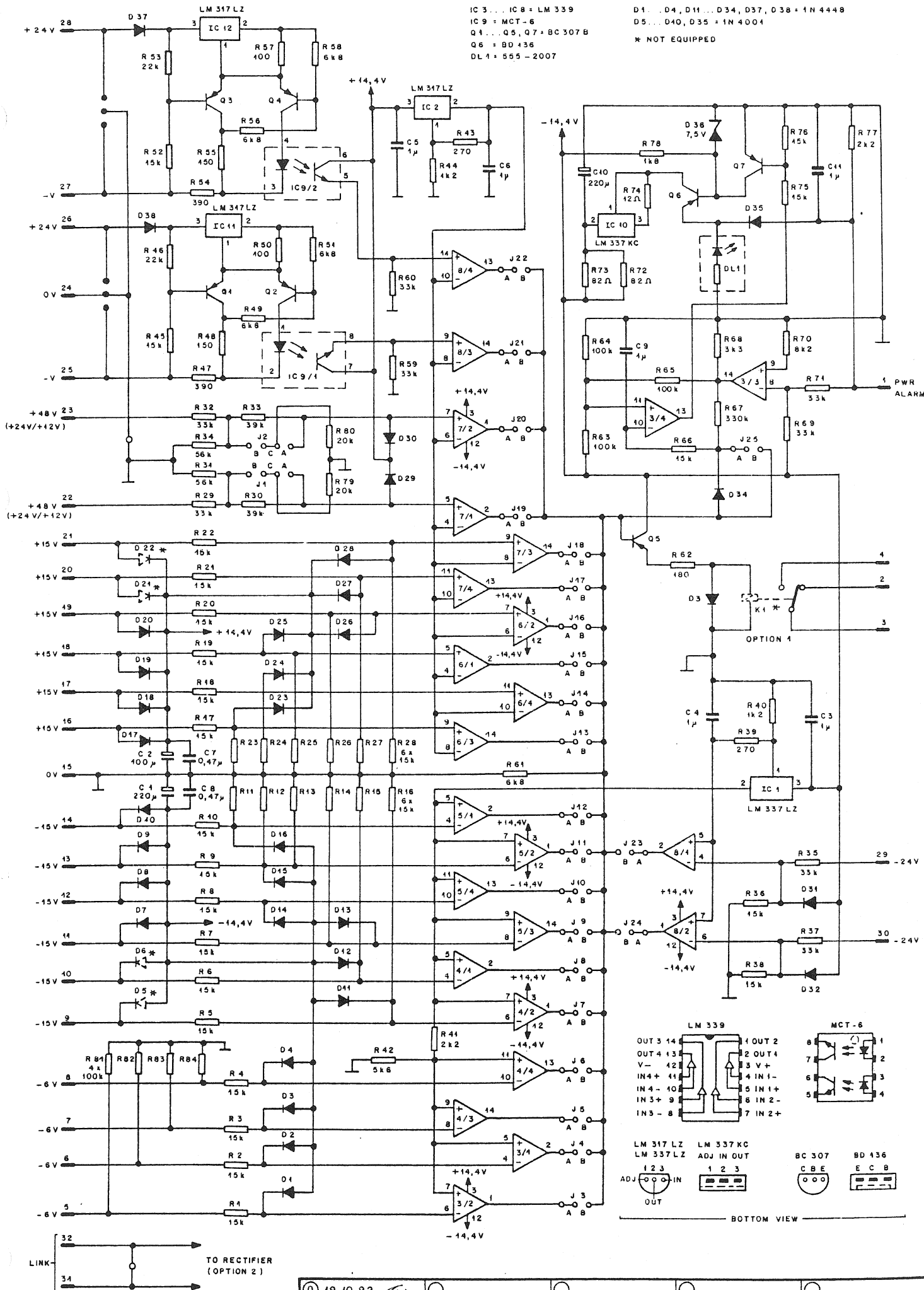
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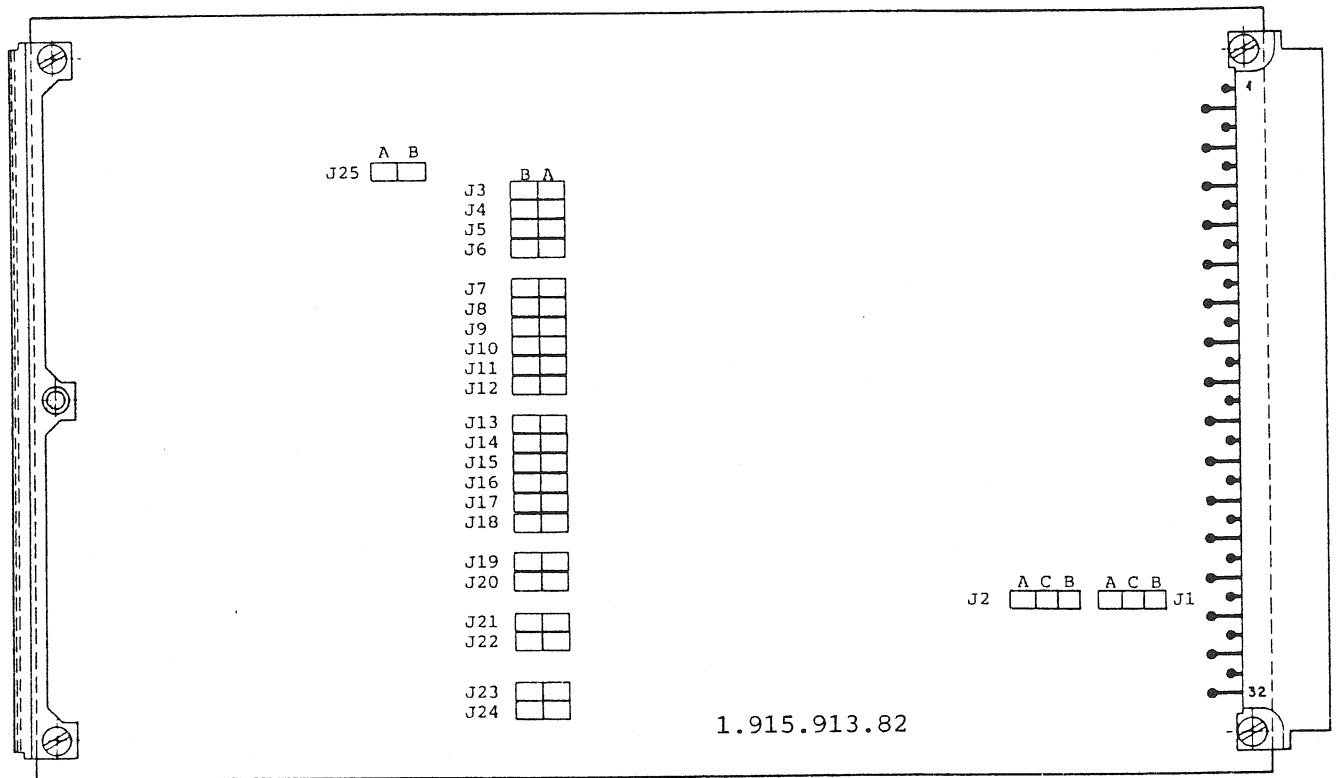


MIC / LINE AMP
 1.915.912-00

Werkstoff Norm-Nr.:	Gute:	Anänderung 10.5.85 <i>7H vr vr</i> (3) 4.4.84 A.Ho <i>vr vr</i> (1)
DIN-Bez.:	Beh.:	
Abmessung:		
Zugehörige Unterlagen: PL	Freimasstoleranz: +	Maßstab 2:1
Ersatz für:	Ersetzt durch:	Kopie für:
STUDER REGENSDORF ZÜRICH		Benennung Mic-Line Amplifier
		Nummer: 1.915.912-00

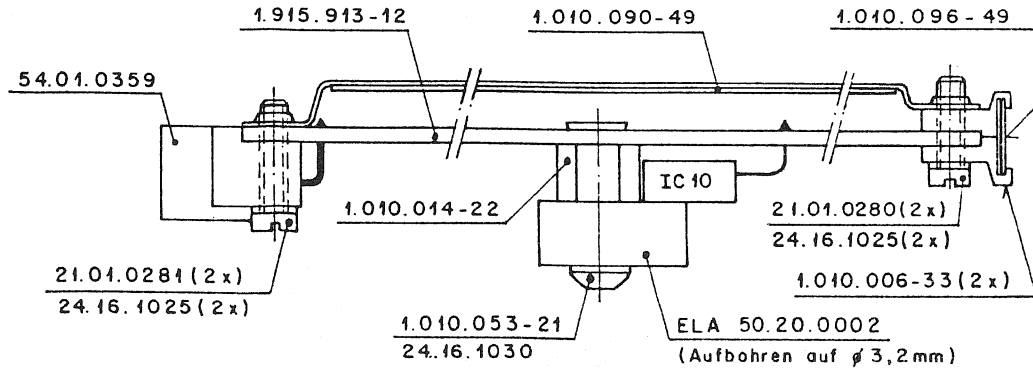
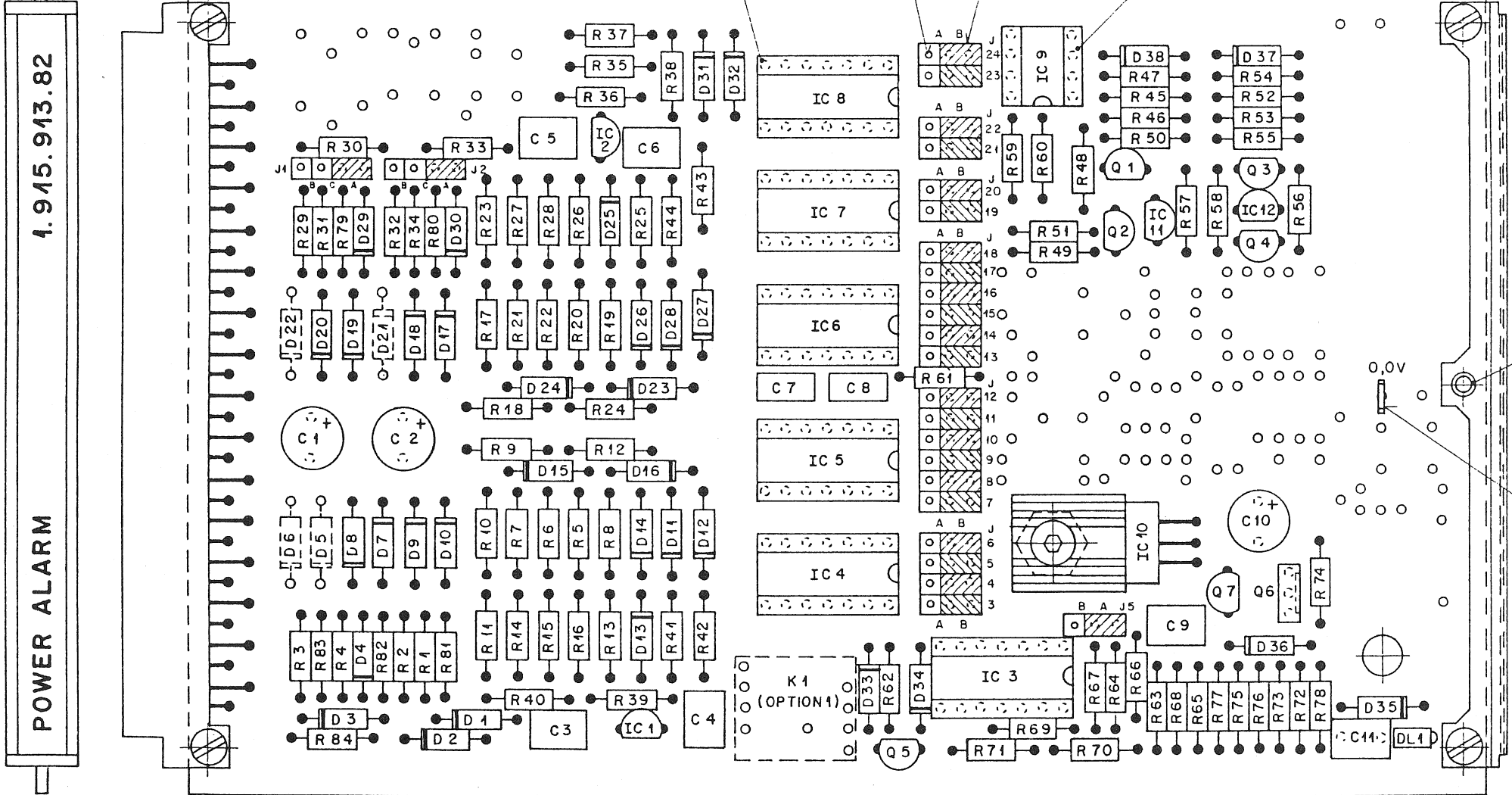
13.4.83 A.Ho *vr vr* (0)
 Datum Gez. Gepr. Ges. Index





JUMPER	CORRESP. CONN. PIN	VOLTAGE	JUMPER SETTING		
			A	B	C
J1	22	+48/24/12V	+48V	+24V	+12V
J2	23	+48/24/12V	+48V	+24V	+12V
J3	5	-6V	NOT ACTIVE	ACTIVE	
J4	6	-6V	NOT ACTIVE	ACTIVE	
J5	7	-6V	NOT ACTIVE	ACTIVE	
J6	8	-6V	NOT ACTIVE	ACTIVE	
J7	9	-15V	NOT ACTIVE	ACTIVE	
J8	10	-15V	NOT ACTIVE	ACTIVE	
J9	11	-15V	NOT ACTIVE	ACTIVE	
J10	12	-15V	NOT ACTIVE	ACTIVE	
J11	13	-15V	NOT ACTIVE	ACTIVE	
J12	14	-15V	NOT ACTIVE	ACTIVE	
J13	16	+15V	NOT ACTIVE	ACTIVE	
J14	17	+15V	NOT ACTIVE	ACTIVE	
J15	18	+15V	NOT ACTIVE	ACTIVE	
J16	19	+15V	NOT ACTIVE	ACTIVE	
J17	20	+15V	NOT ACTIVE	ACTIVE	
J18	21	+15V	NOT ACTIVE	ACTIVE	
J19	22	+48/24/12V	NOT ACTIVE	ACTIVE	
J20	23	+48/24/12V	NOT ACTIVE	ACTIVE	
J21	25/26	24V	NOT ACTIVE	ACTIVE	
J22	27/28	24V	NOT ACTIVE	ACTIVE	
J23	29	-24V	NOT ACTIVE	ACTIVE	
J24	30	-24V	NOT ACTIVE	ACTIVE	
J25	1	ALARM OUTPUT	FLASHING	CONT.	

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Werkstoff	Norm-Nr.:	Güte:		Änderung	③		
	DIN-Bez.:	Beh.:			②		
	Abmessung:	Oberfläche:			①		
Zugehörige Unterlagen:	Freimasstoleranz:	Maßstab:	Ausgabe		④		
PL	±	2 : 1	Datum	Gez.	Gepr.	Ges.	Index
Ersatz für:	Ersetzt durch:		Kopie für:				
STUDER REGENSDORF ZÜRICH		Benennung:			1.915.913-82		
		POWER ALARM			Nummer:		

Pos.	Bauteil No.	Bezeichnung	Stk.	Bemerkung
R1	57.11. 3153	WIDERSTAND 15K HF 1% (0,125w)		
R2	" 3153	" 15K "		
R3	" 3153	" 15K "		
R4	" 3153	" 15K "		
R5	" 3153	" 15K "		
R6	" 3153	" 15K "		
R7	" 3153	" 15K "		
R8	" 3153	" 15K "		
R9	" 3153	" 15K "		
R10	" 3153	" 15K "		
R11	" 3153	" 15K "		
R12	" 3153	" 15K "		
R13	" 3153	" 15K "		
R14	" 3153	" 15K "		
R15	" 3153	" 15K "		
R16	" 3153	" 15K "		
R17	" 3153	" 15K "		
R18	" 3153	" 15K "		
R19	" 3153	" 15K "		
R20	" 3153	" 15K "		
R21	" 3153	" 15K "		
R22	" 3153	" 15K "		
R23	" 3153	" 15K "		
R24	" 3153	" 15K "		
R25	" 3153	" 15K "		
R26	" 3153	" 15K "		
R27	" 3153	" 15K "		
R28	" 3153	" 15K "		
R29	" 3333	" 33K "		
R30	" 3393	" 39K "		
R31	" 3563	" 56K "		
R32	" 3333	" 33K "		
R33	" 3393	" 39K "		
R34	" 3563	" 56K "		
R35	" 3333	" 33K "		

Aenderungen	① 19. MRZ 1992	②	③	④	⑤
STUDER REGENSDORF ZÜRICH	<u>Positionsliste</u> POWER ALARM UNIT 1. 915. 913 / 82			Erstellt: <i>W. Lüh</i>	
				Geprüft:	
				Blatt: 1 Blätter 5	
Kopie für:		Ersetzt für:		1. 915. 913 . 82	
		Ersetzt durch:			

Pos.	Bauteil No.	Bezeichnung	Stk.	Bemerkung
R 36	57.11. 3153	WIDERSTAND 15K MF 1% (0,125W)		
R 37	" . 3333	" 33K "		
R 38	" . 3153	" 15K "		
R 39	" . 3271	" 270Ω "		
R 40	" 3122	" 1,2K "		
R 41	" 3222	" 2,2K "		
R 42	" 3562	" 5,6K "		
R 43	" 3271	" 270Ω "		
R 44	" 3122	" 1,2K "		
R 45	" 3153	" 15K "		
R 46	" 3223	" 22K "		
R 47	" 3391	" 390Ω "		
R 48	" 3151	" 150Ω "		
R 49	" 3682	" 6,8K "		
R 50	" 3101	" 100Ω "		
R 51	" 3682	" 6,8K "		
R 52	" 3153	" 15K "		
R 53	" 3223	" 22K "		
R 54	" 3391	" 390Ω "		
R 55	" 3151	" 150Ω "		
R 56	" 3682	" 6,8K "		
R 57	" 3101	" 100Ω "		
R 58	" 3682	" 6,8K "		
R 59	" 3333	" 33K "		
R 60	" 3333	" 33K "		
R 61	" 3682	" 6,8K "		
R 62	" 3181	" 180Ω "		
R 63	" 3104	" 100K "		
R 64	" 3104	" 100K "		
R 65	" 3104	" 100K "		
R 66	" 3153	" 15K "		
R 67	" 3334	" 330K "		
R 68	" 3332	" 3,3K "		
R 69	" 3333	" 33K "		
R 70	" 3822	" 8,2K "		

Aenderungen	① 23. MRZ 1992	②	③	④	⑤
STUDER REGENSDORF ZÜRICH	Positionenliste POWER ALARM UNIT 1. 915. 913. 82			Erstellt: <i>Wickert</i>	
				Geprüft:	
				Blatt: 2	Blätter: 5
Kopie für:		Ersatz für:		1. 915. 913. 82	
		Ersetzt durch:			

Pos.	Bauteil No.	Bezeichnung	Stk.	Bemerkung
D1	50.04.0125	DIODE 1N 4448		
D2	50.04.0125	" "		
D3	50.04.0125	" "		
D4	50.04.0125	" "		
D5	50.04.0122	" 1N 4001		NICHT BESTÜCKT (OPT.)
D6	50.04.0122	" "		NICHT BESTÜCKT (OPT.)
D7	50.04.0122	" "		
D8	50.04.0122	" "		
D9	50.04.0122	" "		
D10	50.04.0122	" "		
D11	50.04.0125	" 1N 4448		
D12	50.04.0125	" "	-	
D13	50.04.0125	" "		
D14	50.04.0125	" "		
D15	50.04.0125	" "		
D16	50.04.0125	" "		
D17	50.04.0125	" "		
D18	50.04.0125	" "		
D19	50.04.0125	" "		
D20	50.04.0125	" "		
D21	50.04.0125	" "		NICHT BESTÜCKT (OPT.)
D22	50.04.0125	" "		NICHT BESTÜCKT (OPT.)
D23	50.04.0125	" 1N 4448		
D24	50.04.0125	" "		
D25	50.04.0125	" "		
D26	50.04.0125	" "		
D27	50.04.0125	" "		
D28	50.04.0125	" "		
D29	50.04.0125	" "		
D30	50.04.0125	" "		
D31	50.04.0125	" "		
D32	50.04.0125	" "		
D33	50.04.0125	" "		
D34	50.04.0125	" "		
D35	50.04.0122	" 1N 4001		

Aenderungen	① 26. MRZ 1992	②	③	④	⑤
STUDER REGENSDORF ZÜRICH	Positionsliste			Erstellt: <i>W. Schuler</i>	
	POWER ALARM UNIT			Geprüft:	
	1. 915. 913. 82			Blatt: 4 Blätter: 5	
Kopie für:		Ersatz für:		1. 915. 913. 82	
		Ersetzt durch:			

Pos.	Bauteil No.	Bezeichnung	Stk.	Bemerkung
D36	50.04.103	ZENER DIODE 7,5V / 500mW		
D37	50.04.0125	DIODE 1N4448		
D38	50.04.0125	" "		
DL1	50.04.2107	LED ROT 555-2007		
IC1	50.10.0109	VOLTAGE REGULATOR LM 337L2		
IC2	50.10.0108	" LM 317L2		
IC3	50.11.0104	QUAD KOMPARATOR LM 339		
IC4	50.11.0104	" LM 339		
IC5	50.11.0104	" LM 339		
IC6	50.11.0104	" LM 339		
IC7	50.11.0104	" LM 339		
IC8	50.11.0104	" LM 339		
IC9	50.99.0111	OPTO COUPLER MCT-6		
IC10	50.10.0105	VOLTAGE REGULATOR LM 337 KC		
IC11	50.10.0108	" LM 317L2		
IC12	50.10.0108	" LM 317L2		
K1	56.04.0171	RELAIS 12 VOLT 2*ULL		(OPT.)
Q1	50.03.0515	PNP TRANSISTOR BC 307B		
Q2	50.03.0515	" BC 307B		
Q3	50.03.0515	" BC 307B		
Q4	50.03.0515	" BC 307B		
Q5	50.03.0515	" BC 307B		
Q6	50.03.0510	" BD 136		
Q7	50.03.0515	" BC 307B		

Aenderungen	① 26. MRZ 1992	②	③	④	⑤
STUDER REGENSDORF ZURICH	Positionsliste				Erstellt: <i>Widul</i>
	POWER ALARM UNIT				Geprüft:
	1.915.913.82				Blatt: 5 Blätter: 5
Kopie für:	Ersatz für:		1.915.913.82		
	Ersetzt durch:				

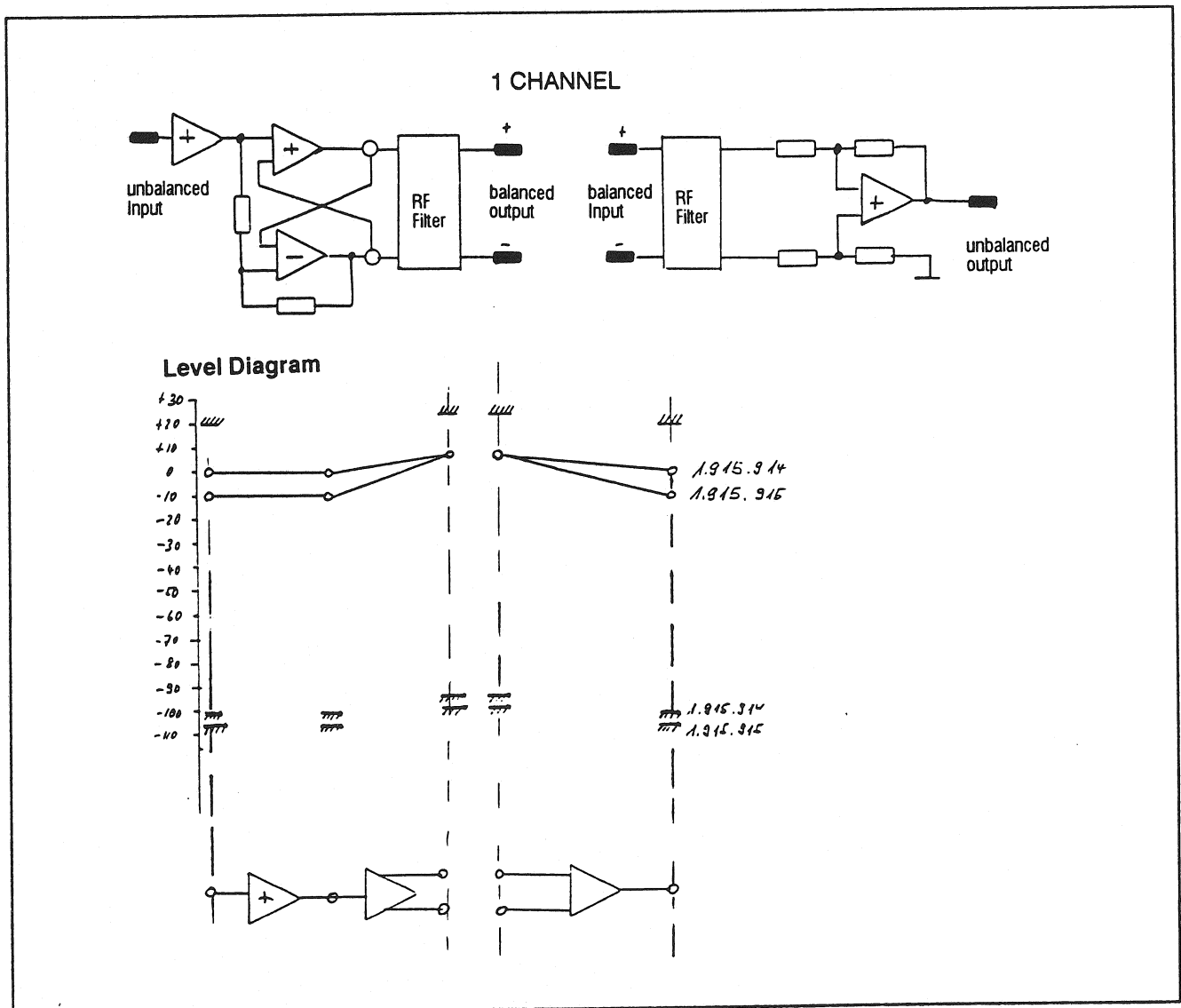
4 Kanal - Symmetrierverstärker

6dB: 1.915.914
16dB: 1.915.915

Der Symmetrierverstärker wird für den Anschluss halbproufessioneller Geräte mit asymmetrischen Leitungen an symmetrische Ein- und Ausgänge benötigt. Eine weitere Anwendung bietet sich in der Symmetrierung asymmetrischer Insert-Send und -Return Punkte.

Die Europakarte wandelt getrennt vier symmetrische Signale in asymmetrische und vier asymmetrische Signale in symmetrische. Die Symmetrierung erfolgt bei Ein- und Ausgängen transformatorlos.

Block- und Pegeldiagramm



SYMMETRIERVERSTÄRKER 6dB/16dB

Technische Daten

Allgemein:	Frequenzgang	$\pm 0.5\text{dB}$	30Hz ...16kHz
	Klirrdämpfung	$> 80\text{dB}$	
	Fremdspannungsabstand	100dB	
	Verstärkung asym./sym.	6dB	
	Dämpfung sym./asym.	6dB	
	Spelsung	+ 15V	70mA
	- 15V	70mA	

Verstärkerteil 1:

asymmetrischer Eingang:	Eingangsimpedanz	$> 10\text{k}\Omega$
	Max. Eingangspegel	$+ 20\text{dBu}$
symmetrischer Ausgang: (transformerlos)	Ausgangsimpedanz	$< 50\Omega$
	Max. Ausgangspegel	$+ 24\text{dBu}$
	Min. Last	$> 600\Omega$

Verstärkerteil 2:

symmetrischer Eingang: (transformerlos)	Eingangsimpedanz	$> 10\text{k}\Omega$
	Max. Eingangspegel	$+ 24\text{dBu}$
asymmetrischer Ausgang:	Ausgangsimpedanz	$< 100\Omega$
	Max. Ausgangspegel	$+ 20\text{dBu}$
	Min. Last	$> 1\text{k}\Omega$

Steckersystem: DIN 41612, Typ B

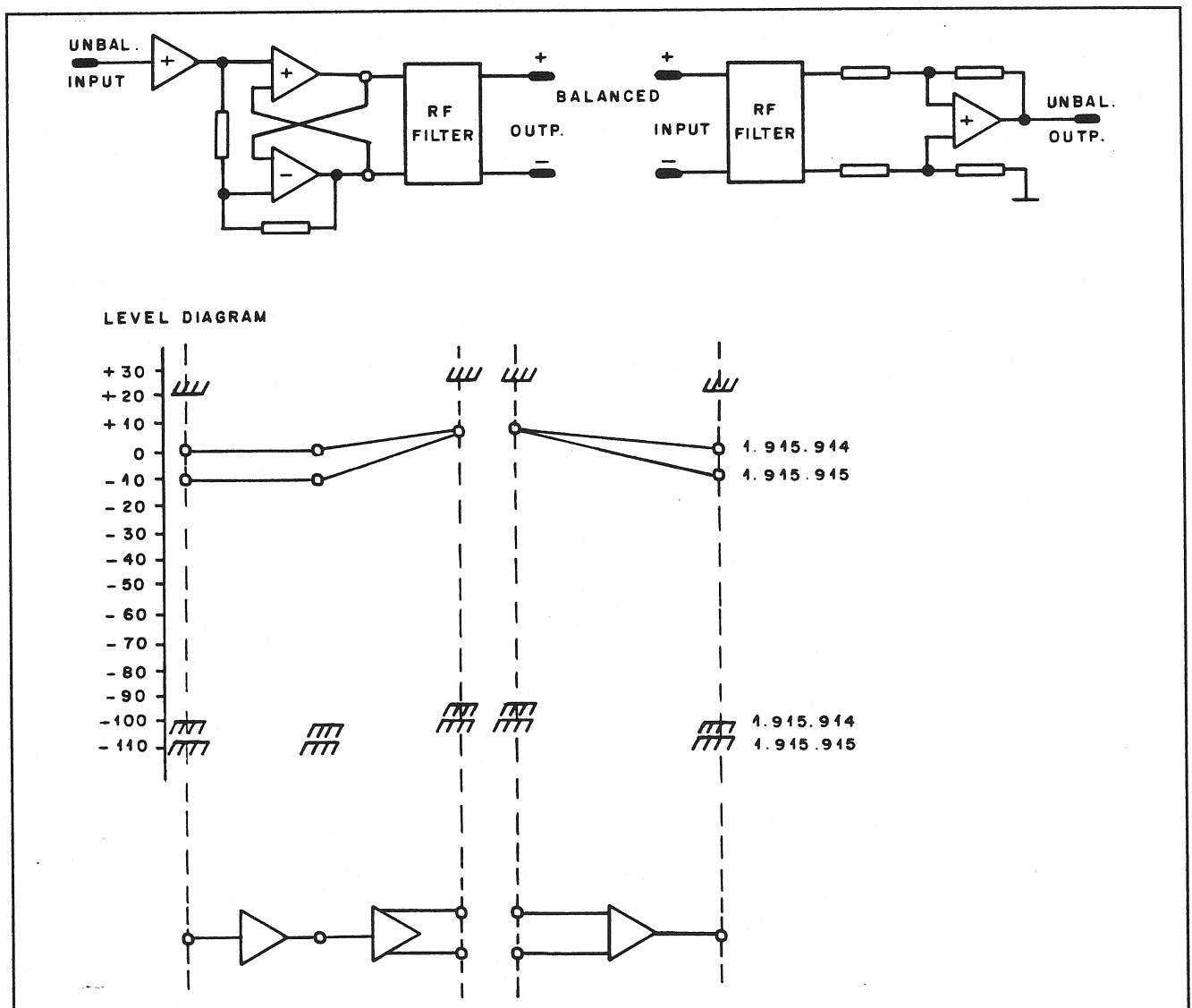
Abmessungen:	Europakarte	100 x 160mm
	Breite	25mm
	Gewicht	200g

4 Channel Balancing Amplifier

6dB: 1.915.914
16dB: 1.915.915

The balancing amplifier is used for adapting unbalanced units such as semiprofessional equipment to balanced inputs and outputs. This circuit board is equipped with four amplifier circuits. For each channel an amplifier with unbalanced input and transformerless, balanced output as well as an amplifier with transformerless, balanced input and unbalanced output are available. This arrangement provides unbalanced insert inputs and outputs in addition to the balanced outputs.

Block Diagram and Level Diagram



4CH BALANCING AMPLIFIER

Technical Data Balancing Amplifier:

General:	Frequency response	$\pm 0.5\text{dB}$	30Hz ...16kHz
	Distortion	$< 80\text{dB}$	
	Signal-to-noise ratio	100dB	
	Gain (unbal./bal.)	6dB	
	Attenuation (bal./unbal.)	6dB	

Amplifier section 1:

Input unbalanced:	Input Impedance	$> 10\text{k}\Omega$
	Max. input level	$+20\text{dBu}$
Output balanced: (transformerless)	Output Impedance	$< 50\Omega$
	Max. load	$> 600\Omega$
	Max. output level	$+24\text{dBu}$

Amplifier section 2:

Input balanced: (transformerless)	Input Impedance	$> 10\text{k}\Omega$
	Max. input level	$+24\text{dBu}$
Output unbalanced:	Output Impedance	$< 100\Omega$
	Max. output level	$+20\text{dBu}$
	Max. load Impedance	$> 1\text{k}\Omega$

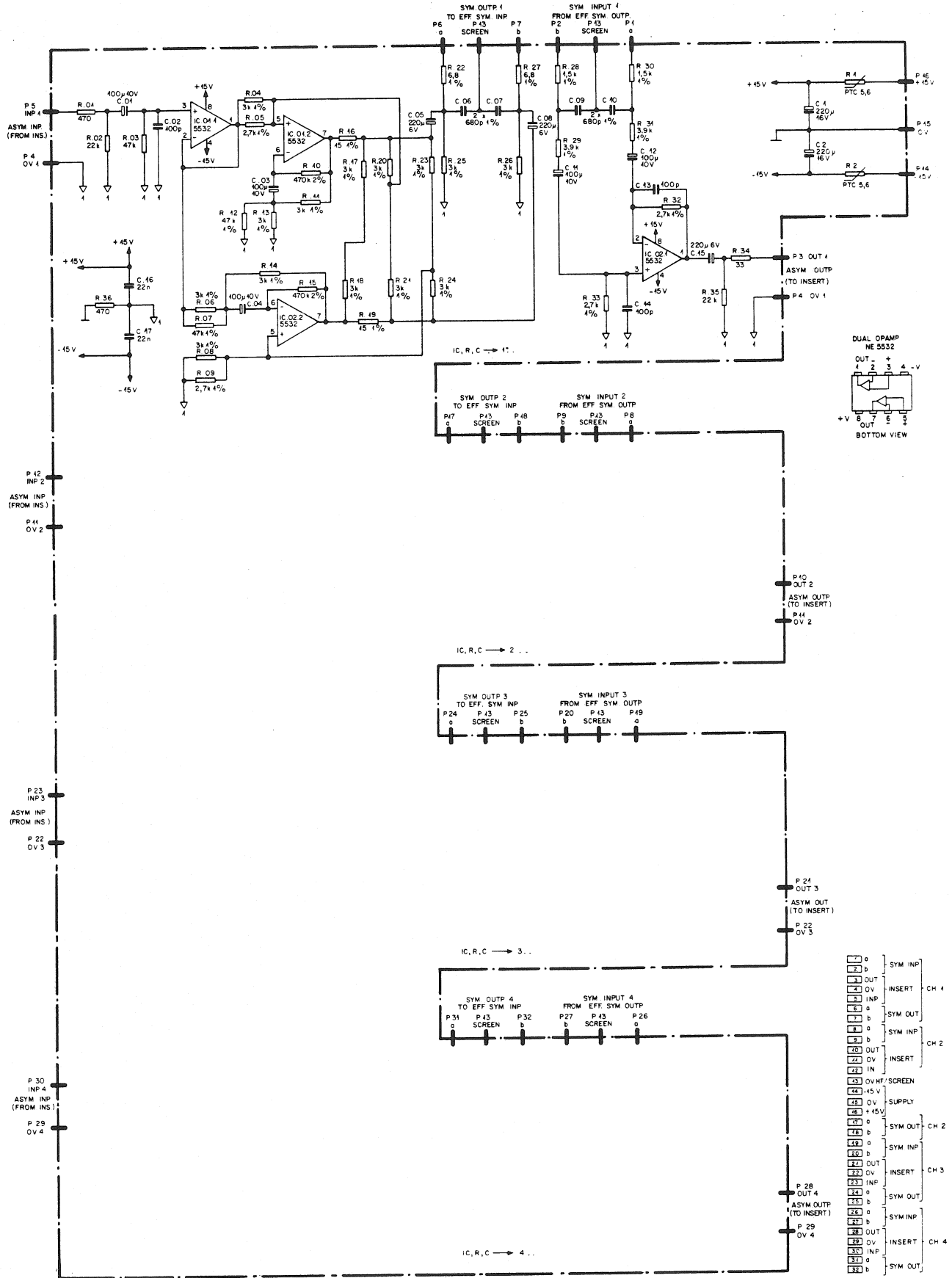
Connector System: DIN 41612, type B

Dimensions:	"Europe"-PCB	100 x 160mm
	Width	25mm
	Weight	200g

Ordering Information**EURO-cards:**

- | | |
|--|---------------------|
| ■ 4CH Balancing Unit, +6dB, trafoless | 1.915.914.00 |
| ■ 4CH Balancing Unit, +16dB, trafoless | 1.915.915.00 |

4CH BALANCING AMPLIFIER



DATE	22.11.82		
SIGN	M. 2.83		
REGENSDORF ZÜRICH	4 BALANCING AMP GAIN 6dB		SC 1.915.914

4CH BALANCING AMPLIFIER

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 metallfilm

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

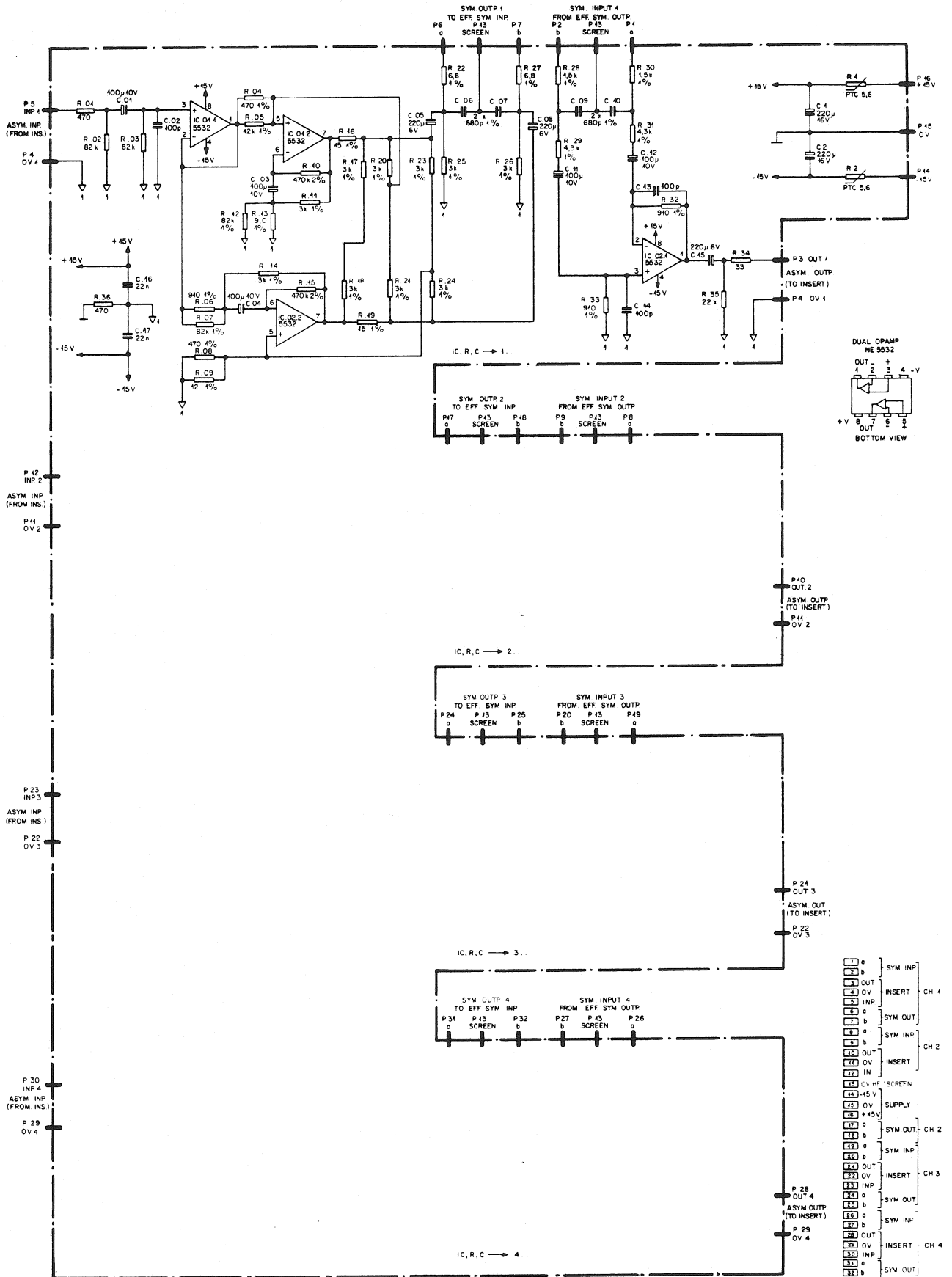
MANUFACTURER: SIG=Signetics, TI=Texas Instruments, RA=Raytheon

1.915.914.00 4 BAL. AMPLIFIER 6dB

FR1 05/10/82

END
 →

4CH BALANCING AMPLIFIER



DATE	23 M 82		
SIGN	<i>[Signature]</i>		
REGENDORF ZÜRICH	4BALANCING AMP. GAIN 16dB	SC	1.915.915

4CH BALANCING AMPLIFIER

Ad	POS.	REF.No.	DESCRIPTION	MANUFACTURER												
C	...	1	59.22.4221 220µ 16V	EL												
C	...	2	59.22.4221 220µ 16V	EL												
<table border="1"> <tr> <td>CH1</td> <td>ELEMENT</td> <td>100...199</td> </tr> <tr> <td>CH2</td> <td>ELEMENT</td> <td>200...299</td> </tr> <tr> <td>CH3</td> <td>ELEMENT</td> <td>300...399</td> </tr> <tr> <td>CH4</td> <td>ELEMENT</td> <td>400...499</td> </tr> </table>					CH1	ELEMENT	100...199	CH2	ELEMENT	200...299	CH3	ELEMENT	300...399	CH4	ELEMENT	400...499
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	57.11.3471 470													
R	...	2	57.11.4823 82k													
R	...	3	57.11.4823 82k													
R	...	4	57.11.3471 470Ω 1%													
R	...	5	57.11.3123 12k 1%													
R	...	6	57.11.3911 910 1%													
R	...	7	57.11.4823 82k 2%													
R	...	8	57.11.3471 470 1%													
R	...	9	57.11.3123 12k 1%													
R	...	10	57.11.4474 470k 2%													
R	...	11	57.11.3302 3k 1%													
R	...	12	57.11.4823 82k 1%													
R	...	13	57.11.3911 910 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	57.11.3432 4,3k 1%													
R	...	30	57.11.3152 1,5k 1%													
R	...	31	57.11.3432 4,3k 1%													
R	...	32	57.11.3911 910Ω 1%													
R	...	33	57.11.3911 910Ω 1%													
R	...	34	57.11.4330 33Ω													
R	...	35	57.11.4223 22k													
R	...	36	57.11.3471 470													

Resistors metallfilm

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

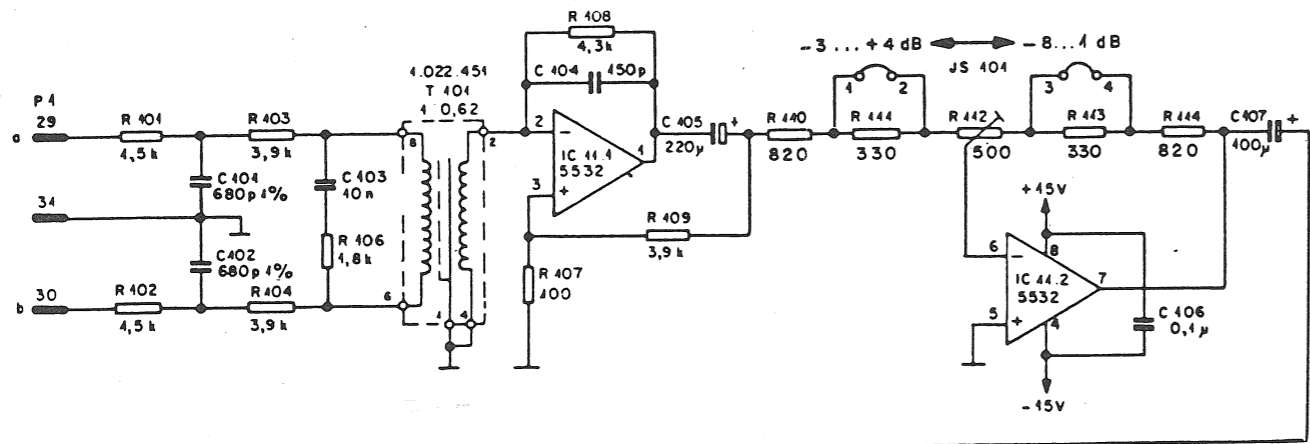
MANUFACTURER: SIG=Signetics, TI=Texas Instruments, RA=Raytheon

1.915.915.00 4 BAL. AMPLIFIER 6dB

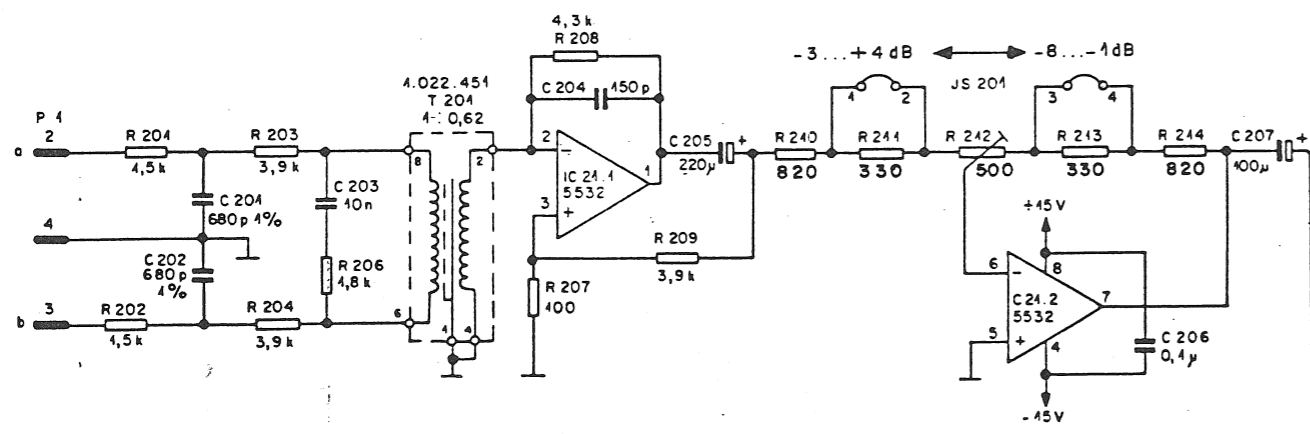
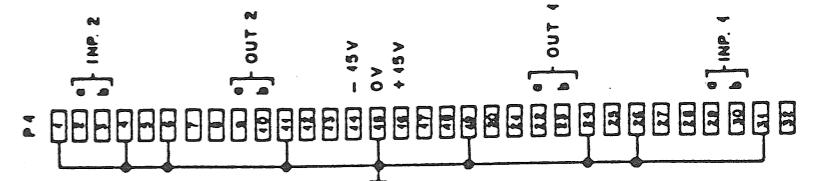
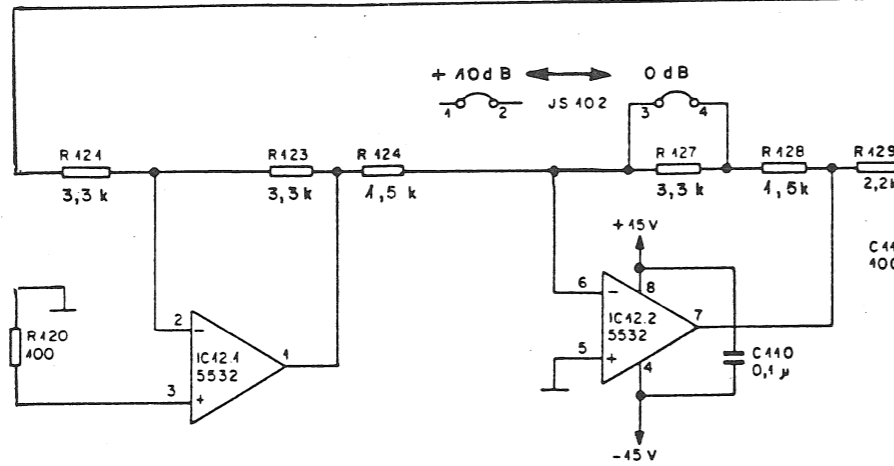
FRI 05/10/82

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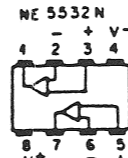
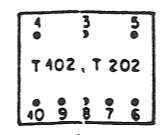
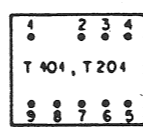
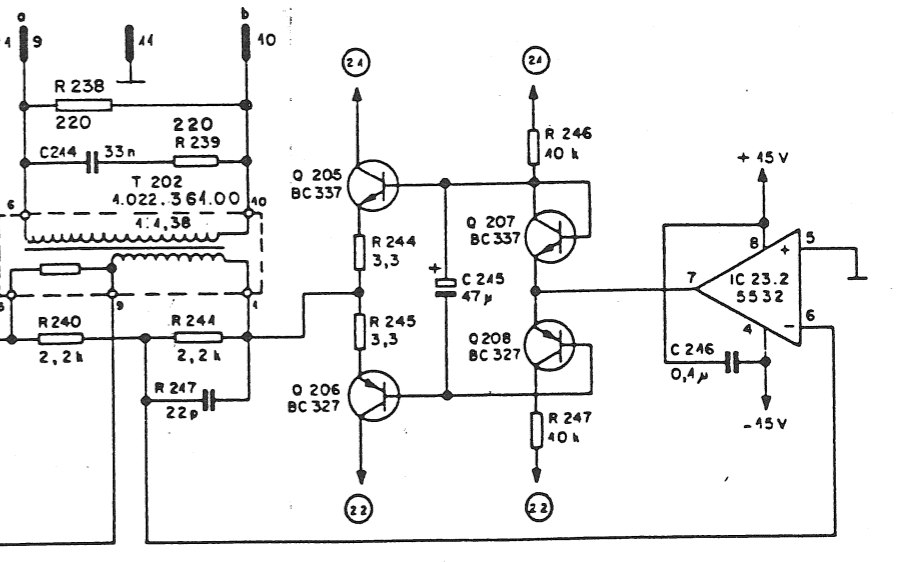
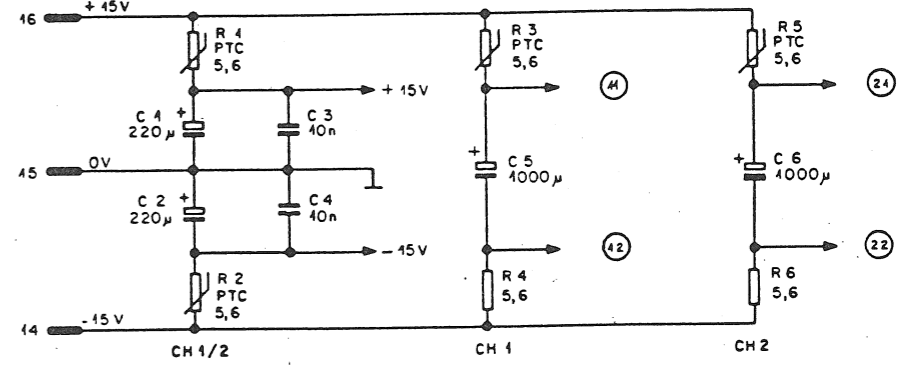
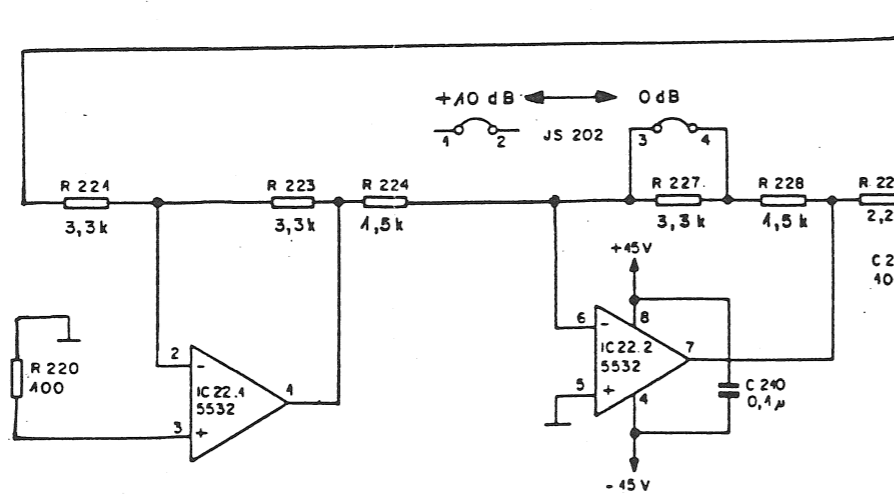
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CH 1

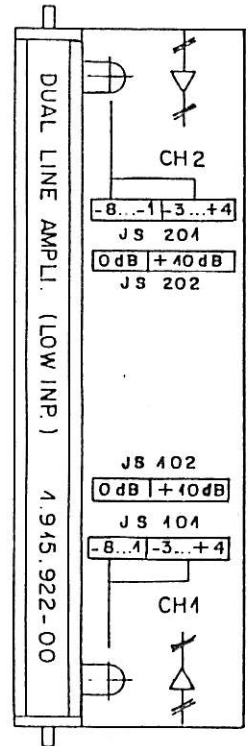
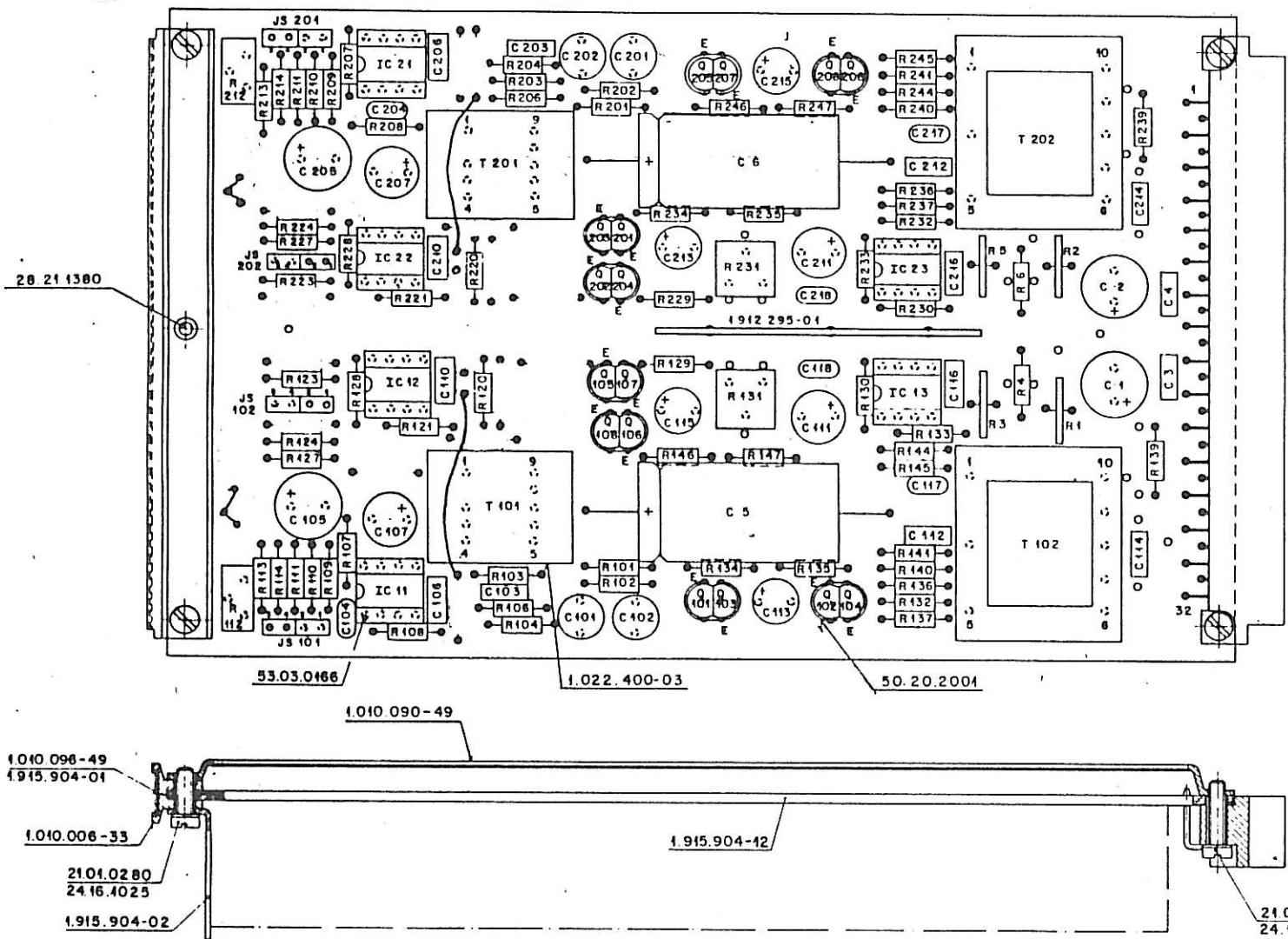


CH 2



BOTTOM VIEW

DATE:	10.7.86		
SIGN:	SA		
STUDER REGENSDORF ZURICH	DUAL LINE AMP. LOW IMP.		SC 1.915.922



1010 096-49
1915.904-01

1.010.006-33

2101.0280
24.16.4025

1915.904-02

1.010 090-49

1.915.904-12

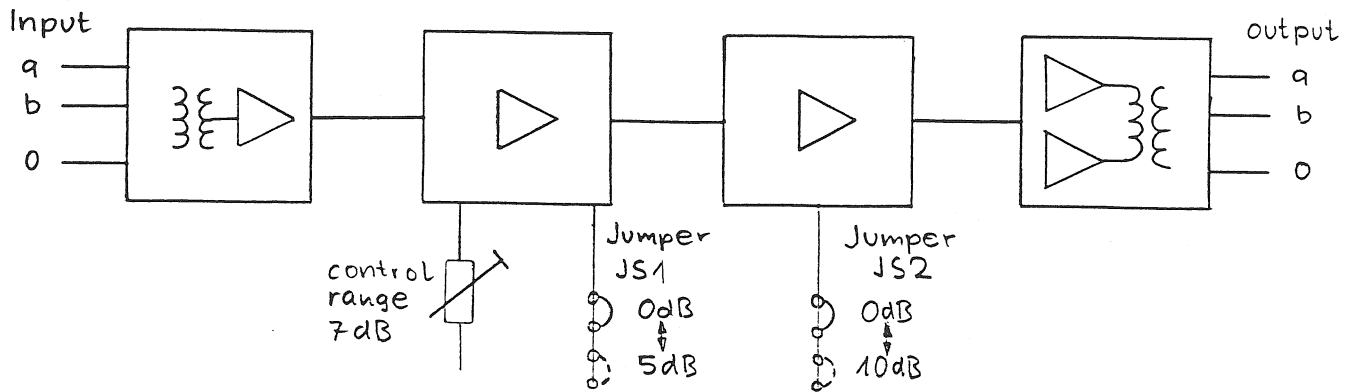
54.01.0359

2101.0281
24.16.4025

Version Ditt. Bez. Abmessung	Gez. Boch	Anmerkung	M.7.86	Si	5	2
			4.4.84	Si	1	1
Zugehörige Unterlagen PL	Freiassurenanz	Maßstab 2:1	24.11.82	A.Ho	rec	H
Ersatz für	Ersetzt durch	Reise Nr.				
STUDER REGENSDORF ZÜRICH		DUAL LINE AMPLI. (LOW IMPEDANCE)		1.915.922.00		

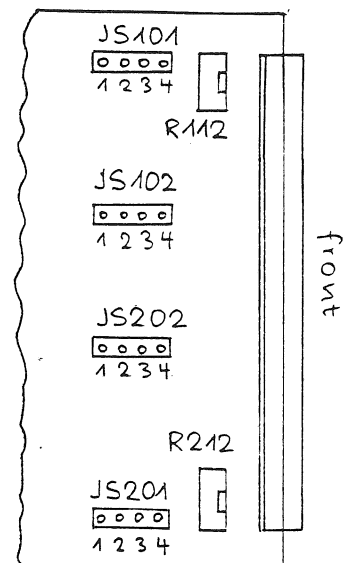
Dual Line Amplifier Low Impedance

Block Diagram (one channel)



Gain

range of the potentiometer	Jumper	
	JS1, 5dB	JS2, 10dB
-8dB ... -1dB		
-3dB ... +4dB		
+2dB ... +9dB		
+7dB ... +14dB		



Specifications $0\text{dBu} \cong 0,775V_{\text{rms}}$

INPUT: balanced, floating; impedance $> 10\text{k}\Omega$; max. level: $+24\text{dBu}$

OUTPUT: balanced, floating; impedance $30\text{Hz} \dots 10\text{kHz}: < 10\Omega$
 max. level at $R_L = 100\Omega$ $30\text{Hz}: +20,5\text{dBu}$ $> 40\text{Hz}: +22\text{dBu}$

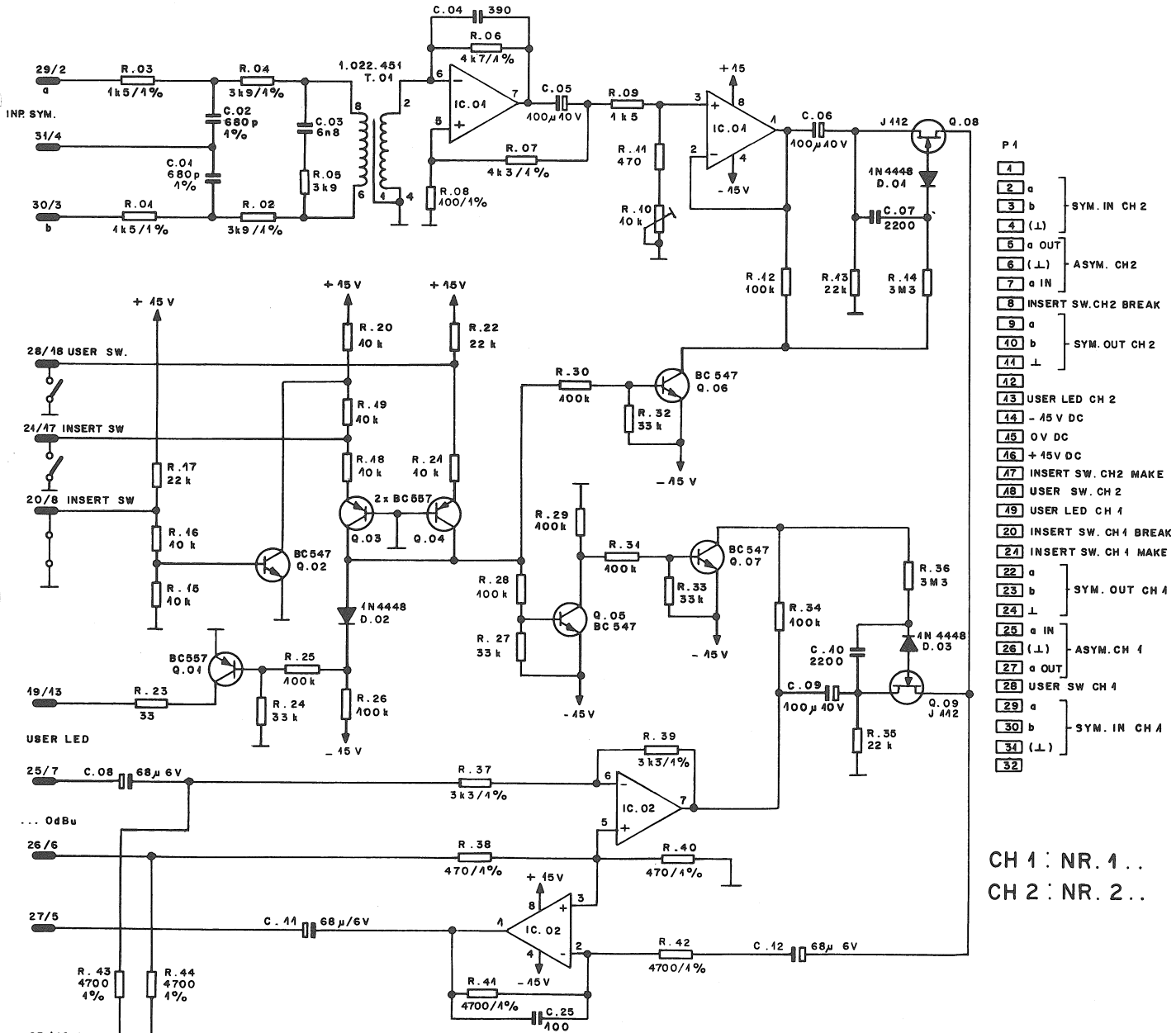
FREQUENCY RESPONSE: $20\text{Hz} \dots 16\text{kHz}: \pm 0,5\text{dB}$; $-3\text{dB}: \approx 60\text{kHz}$

DISTORTION (THD): $30\text{Hz} \dots 10\text{kHz} +18\text{dBu}: > 80\text{dB}$; $+20\text{dBu}: > 65\text{dB}$

NOISE LEVEL at the output $\text{BW} = 23\text{kHz}$, $\text{Gain} = 0\text{dB}: -97\text{dBu}$
 $\text{Gain} = 6\text{dB}: -91\text{dBu}$

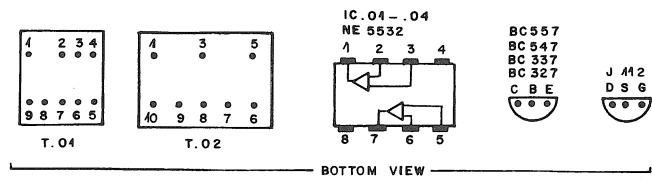
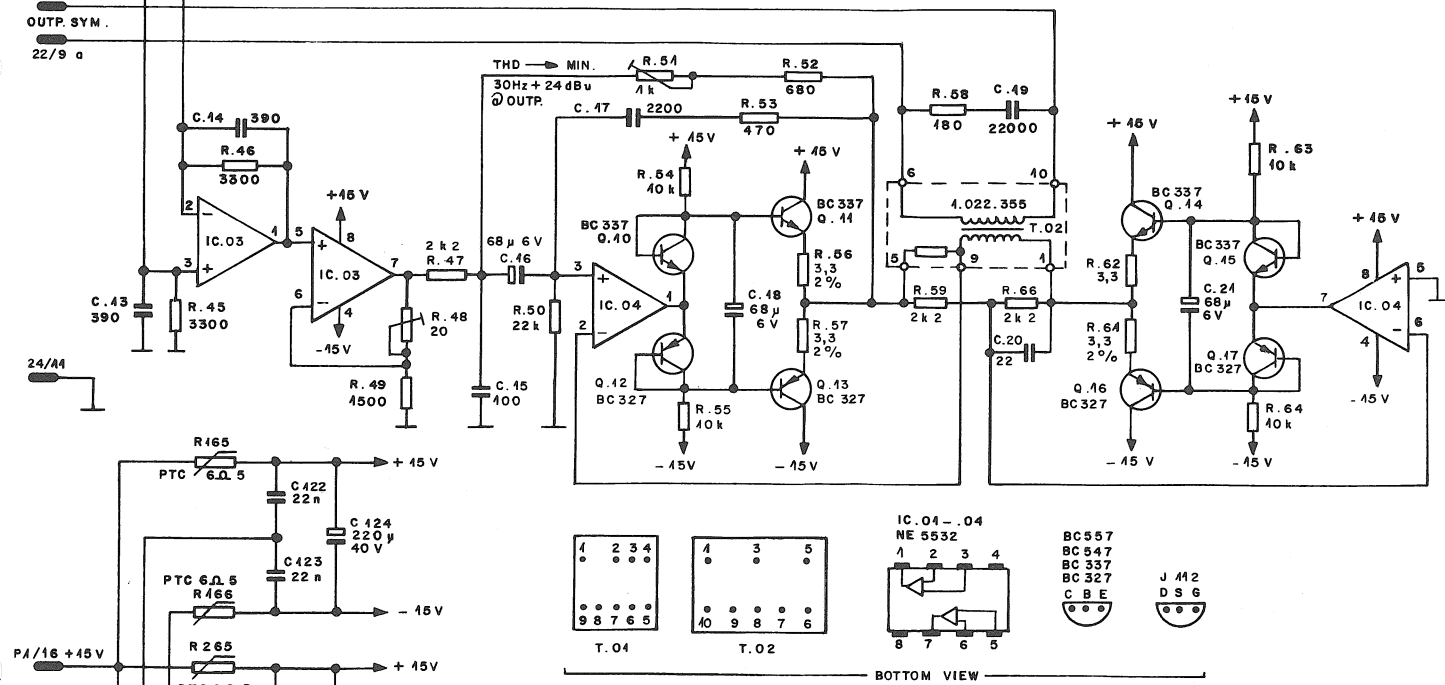
SUPPLY: Voltage $\pm 15\text{V}$; idle current: 70mA ; max. current, loaded: 170mA

© 17-7-86 MM				
				PAGE OF
STUDER	DUAL LINE AMP. LOW IMP.	BD	1.915.922.00	

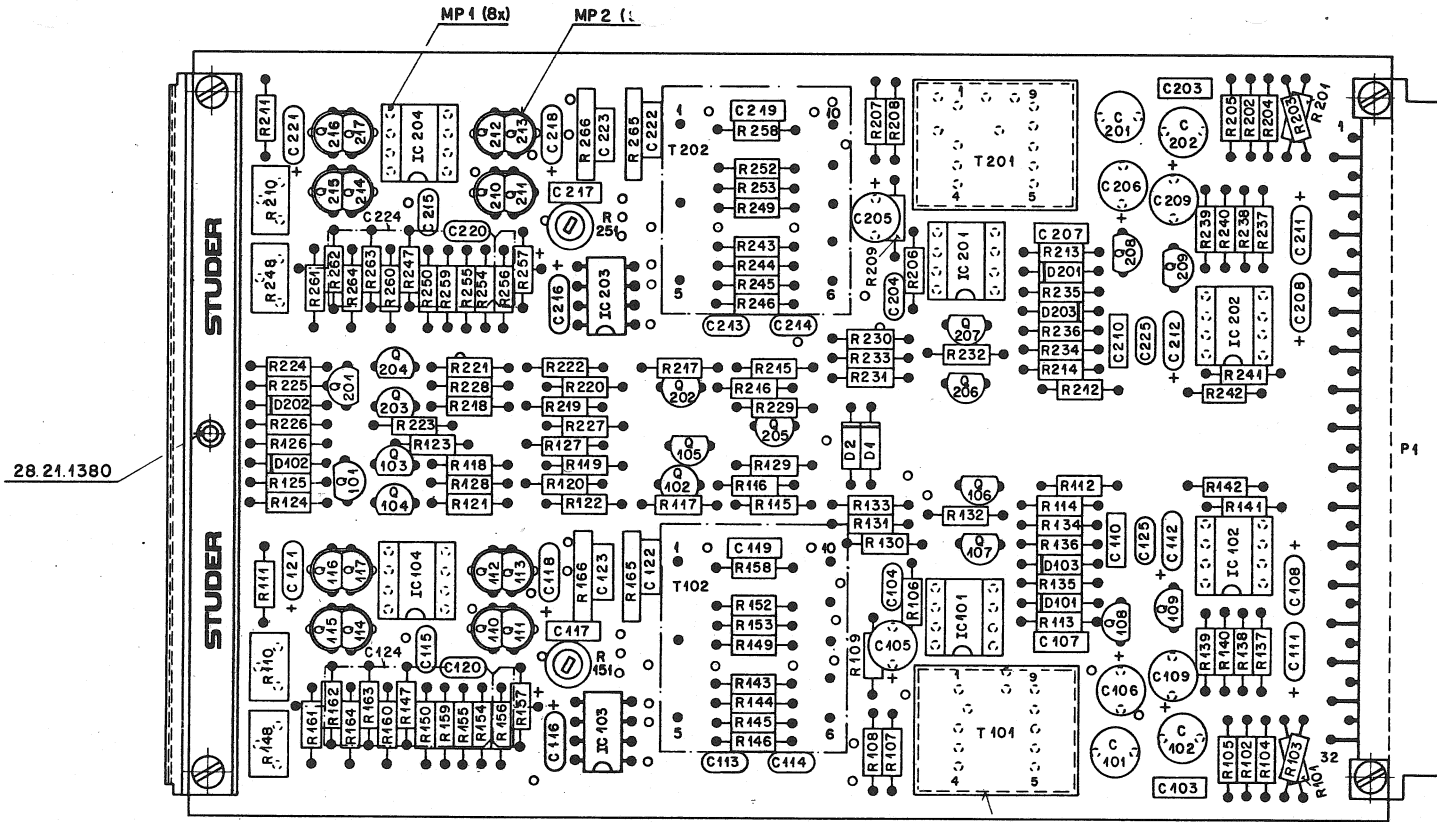


- P 1
- 1 a
 - 2 b
 - 3 a
 - 4 (L)
 - 5 a
 - 6 (L)
 - 7 a
 - 8 INSERT SW. CH 2 BREAK
 - 9 a
 - 10 b
 - 11 (L)
 - 12
 - 13 USER LED CH 2
 - 14 -15 V DC
 - 15 0 V DC
 - 16 +15 V DC
 - 17 INSERT SW. CH 2 MAKE
 - 18 USER SW. CH 2
 - 19 USER LED CH 1
 - 20 INSERT SW. CH 1 BREAK
 - 21 INSERT SW. CH 1 MAKE
 - 22 a
 - 23 b
 - 24 L
 - 25 a
 - 26 (L)
 - 27 a
 - 28 USER SW. CH 1
 - 29 a
 - 30 b
 - 31 (L)
 - 32

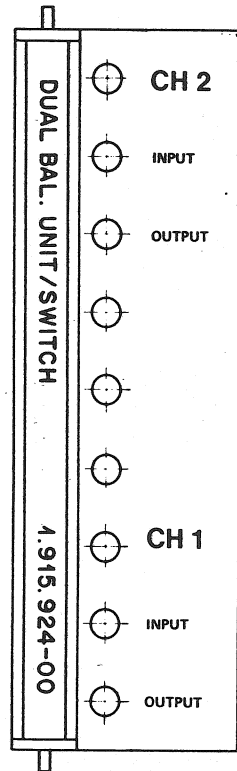
CH 1 : NR. 1 ..
 CH 2 : NR. 2 ..



DATE:	3.6. 85			
SIGN:	<i>[Signature]</i>			
STUDER REGENSDORF ZÜRICH		DUAL BAL. UNIT/SWITCH		SC 1.915.924



28.21.1380



1.915.096-49
1.915.924-01

1.040.006-33

24.01.0280(2x)
24.46.4025(2x)

1.915.924-02

1.040.090-49

1.915.924-11

1.022.400-03 (2x)

54.04.0359

21.01.0284 (2x)
24.46.4025 (2x)

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Werkstoff	Norm-Nr.:	Güte:	Änderung	③
DIN-Bez.:		Beh.:	8.10.85	A.Ho <i>W. H. H.</i>
Abmessung:			12.6.85	A.Ho <i>W. H. H.</i>
Zugehörige Unterlagen:	Freimasstoleranz:	Maßstab:	7.5.85	A.Ho <i>W. H. H.</i>
PL	±	2 : 4	Datum	Gez. Gepr. Ges. Index
Ersatz für:	Ersetzt durch:	Kopie für:		
STUDER REGENS DORF ZÜRICH		Benennung: DUAL BAL. UNIT / SWITCH		Nummer: 1.915.924-00

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT		MANUF.
C...	101	59.05.T681	680 pF	1%	500V PP	
C...	102	59.05.1681	690 pF	1%	500V PP	
C...	103	59.06.0692	6.8 nF	10%	PE	
C...	104	59.34.4391	390 pF		CE	
C...	105	59.22.3101	100 uF	-20%	10V FL	
C...	106	59.22.3101	100 uF	-20%	10V FL	
C...	107	59.06.0222	2.2 nF		PE	
C...	108	59.26.0680	68 uF		6V SAL	
C...	109	59.22.3101	100 uF	-20%	10V FL	
C...	110	59.06.0222	2.2 nF		PE	
C...	111	59.26.0680	68 uF		6V SAL	
C...	112	59.26.0680	68 uF		6V SAL	
C...	113	59.34.4391	390 pF		CE	
C...	114	59.34.4391	390 pF		CE	
C...	115	59.34.4101	100 pF		CE	
C...	116	59.26.0680	68 uF		6V SAL	
C...	117	59.06.0222	2.2 nF		PE	
C...	118	59.26.0680	68 uF		6V SAL	
C...	119	59.06.0223	22 nF		PE	
C...	120	59.34.2220	22 pF		CE	
C...	121	59.26.0680	68 uF		6V SAL	
C...	122	59.06.0223	22 nF		PE	
C...	123	59.06.0223	22 nF		PE	
C...	124	59.25.5221	220 uF	-10%	40V FL	
C...	125	59.34.4101	100 pF		CE	
C...	201	59.05.1681	680 pF	1%	500V PP	
C...	202	59.05.1681	680 pF	1%	500V PP	
C...	203	59.06.0682	6.8 nF	10%	PE	
C...	204	59.34.4391	390 pF		CE	
C...	205	59.22.3101	100 uF	-20%	10V EL	
C...	206	59.22.3101	100 uF	-20%	10V EL	
C...	207	59.06.0222	2.2 nF		PE	
C...	208	59.26.0680	68 uF		6V SAL	
C...	209	59.22.3101	100 uF	-20%	10V FL	
C...	210	59.06.0222	2.2 nF		PE	
C...	211	59.26.0680	68 uF		6V SAL	
C...	212	59.26.0680	68 uF		6V SAL	
C...	213	59.34.4391	390 pF		CE	
C...	214	59.34.4391	390 pF		CE	
C...	215	59.34.4101	100 pF		CE	
C...	216	59.26.0680	68 uF		6V SAL	
C...	217	59.06.0222	2.2 nF		PE	
C...	218	59.26.0680	68 uF		6V SAL	
C...	219	59.06.0223	22 nF		PE	
C...	220	59.34.2220	22 pF		CE	
C...	221	59.26.0680	68 uF		6V SAL	
C...	222	59.06.0223	22 nF		PE	
C...	223	59.06.0223	22 nF		PE	
C...	224	59.25.5221	220 uF	-10%	40V FL	
C...	225	59.34.4101	100 pF		CE	
D....	1	50.04.0122	1N4001		...4004	Mot,GT
D....	2	50.04.0122	1N4001		...4004	Mot,GT
D....	101	50.04.0125	1N4448			any
D....	102	50.04.0125	1N4448			any
D....	103	50.04.0125	1N4448			any
D....	201	50.04.0125	1N4448			any
D....	202	50.04.0125	1N4448			any
D....	203	50.04.0125	1N4448			any
IC..	101	50.05.0105	NE5532	dual op. amp.		Sig,Fx,Ra
IC..	102	50.09.0105	NE5532	dual op. amp.		Sig,Fx,Ra
IC..	103	50.09.0105	NE5532	dual op. amp.		Sig,Fx,Ra
IC..	104	50.09.0105	NE5532	dual op. amp.		Sig,Fx,Ra
IC..	201	50.09.0105	NE5532	dual op. amp.		Sig,Fx,Ra
IC..	202	50.09.0105	NE5532	dual op. amp.		Sig,Fx,Ra
IC..	203	50.09.0105	NE5532	dual op. amp.		Sig,Fx,Ra
IC..	204	50.09.0105	NE5532	dual op. amp.		Sig,Fx,Ra
MP....	1	53.03.0166	8 pcs	IC-socket	8 pin	
MP....	2	50.20.2001	8 pcs	CLIP	2 * TO 92	St
P.....	1	54.01.0359	2*16 pin	euroconnector		Ru
Q...	101	50.03.0515	BC 557	PNP	IC>100mA, B>100	any
Q...	102	50.03.0436	BC 547	NPN	IC>100mA, B>100	any
Q...	103	50.03.0515	BC 557	PNP	IC>100mA, B>100	any
Q...	104	50.03.0515	BC 557	PNP	IC>100mA, B>100	any
Q...	105	50.03.0436	BC 547	NPN	IC>100mA, B>100	any
Q...	106	50.03.0436	BC 547	NPN	IC>100mA, B>100	any
Q...	107	50.03.0436	BC 547	NPN	IC>100mA, B>100	any
Q...	108	50.03.0350	J 112	N-JFET		NS,Mot,Six
Q...	109	50.03.0350	J 112	N-JFET		NS,Mot,Six
Q...	110	50.03.0516	BC 337	NPN	matched with Q 111	Sie
Q...	111	50.03.0516	BC 337	NPN		Sie
Q...	112	50.03.0625	BC 327	PNP	matched with Q 113	Sie
Q...	113	50.03.0625	BC 327	PNP		Sie
Q...	114	50.03.0516	BC 337	NPN	matched with Q 115	Sie
Q...	115	50.03.0516	BC 337	NPN		Sie
Q...	116	50.03.0625	BC 327	PNP	matched with Q 117	Sie
Q...	117	50.03.0625	BC 327	PNP		Sie
Q...	201	50.03.0515	BC 557	PNP		any
Q...	202	50.03.0436	BC 547	NPN	IC>100mA, B>100	any
Q...	203	50.03.0515	BC 557	PNP	IC>100mA, B>100	any
Q...	204	50.03.0515	BC 557	PNP	IC>100mA, B>100	any
Q...	205	50.03.0436	BC 547	NPN	IC>100mA, B>100	any
Q...	206	50.03.0436	BC 547	NPN	IC>100mA, B>100	any
Q...	207	50.03.0436	BC 547	NPN	IC>100mA, B>100	any
Q...	208	50.03.0350	J 112	N-JFET		any
Q...	209	50.03.0350	J 112	N-JFET		NS,Mot,Six
Q...	210	50.03.0516	BC 337	NPN		NS,Mot,Six
Q...	211	50.03.0516	BC 337	NPN	matched with Q 211	Sie
Q...	212	50.03.0625	BC 327	PNP	matched with Q 213	Sie
Q...	213	50.03.0625	BC 327	PNP		Sie
Q...	214	50.03.0516	BC 337	NPN	matched with Q 215	Sie
Q...	215	50.03.0516	BC 337	NPN		Sie
Q...	216	50.03.0625	BC 327	PNP	matched with Q 217	Sie
Q...	217	50.03.0625	BC 327	PNP		Sie
R...	101	57.11.3152	1.5 kOhm	1%	0.25W	
R...	102	57.11.3392	3.9 kOhm	1%	0.25W	
R...	103	57.11.3152	1.5 kOhm	1%	0.25W	
R...	104	57.11.3392	3.9 kOhm	1%	0.25W	
R...	105	57.11.3392	3.9 kOhm	1%	0.25W	
R...	106	57.11.3472	4.7 kOhm	1%	0.25W	
R...	107	57.11.3432	4.3 kOhm	1%	0.25W	
R...	108	57.11.3101	100 Ohm	1%	0.25W	
R...	109	57.11.3152	1.5 kOhm	1%	0.25W	
R...	110	58.01.9103	10 kOhm	10%	0.50W	
R...	111	57.11.3471	470 Ohm	5%	0.25W	
R...	112	57.11.4104	100 kOhm	5%	0.25W	
R...	113	57.11.4223	22 kOhm	5%	0.25W	
R...	114	57.11.5335	3.3 kOhm	5%	0.25W	
R...	115	57.11.4103	10 kOhm	5%	0.25W	
R...	116	57.11.4103	10 kOhm	5%	0.25W	
R...	117	57.11.4103	10 kOhm	5%	0.25W	
R...	118	57.11.4223	22 kOhm	5%	0.25W	
R...	119	57.11.4103	10 kOhm	5%	0.25W	
R...	120	57.11.4103	10 kOhm	5%	0.25W	

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R...	121	57.11.4103	10 kOhm	5% 0.25W	
R...	122	57.11.4223	22 kOhm	5% 0.25W	
R...	123	57.11.4330	33 Ohm	5% 0.25W	
R...	124	57.11.4333	33 kOhm	5% 0.25W	
R...	125	57.11.4104	100 kOhm	5% 0.25W	
R...	126	57.11.4104	100 kOhm	5% 0.25W	
R...	127	57.11.4333	33 kOhm	5% 0.25W	
R...	128	57.11.4104	100 kOhm	5% 0.25W	
R...	129	57.11.4104	100 kOhm	5% 0.25W	
R...	130	57.11.4104	100 kOhm	5% 0.25W	
R...	131	57.11.4104	100 kOhm	5% 0.25W	
R...	132	57.11.4333	33 kOhm	5% 0.25W	
R...	133	57.11.4333	33 kOhm	5% 0.25W	
R...	134	57.11.4104	100 kOhm	5% 0.25W	
R...	135	57.11.4223	22 kOhm	5% 0.25W	
R...	136	57.11.5335	3.3 MOhm	5% 0.25W	
R...	137	57.11.3332	3.3 kOhm	1% 0.25W	
R...	138	57.11.3471	470 Ohm	1% 0.25W	
R...	139	57.11.3332	3.3 kOhm	1% 0.25W	
R...	140	57.11.3471	470 Ohm	1% 0.25W	
R...	141	57.11.3472	4.7 kOhm	1% 0.25W	
R...	142	57.11.3472	4.7 kOhm	1% 0.25W	
R...	143	57.11.3472	4.7 kOhm	1% 0.25W	
R...	144	57.11.3472	4.7 kOhm	1% 0.25W	
R...	145	57.11.3332	3.3 kOhm	1% 0.25W	
R...	146	57.11.3332	3.3 kOhm	1% 0.25W	
R...	147	57.11.4222	2.2 kOhm	5% 0.25W	
R...	148	58.01.9203	20 kOhm	10% 0.50W	
R...	149	57.11.3152	1.5 kOhm	1% 0.25W	
R...	150	57.11.4223	22 kOhm	5% 0.25W	
R...	151	58.11.6102	1 kOhm	30% 0.50W	
R...	152	57.11.4681	680 Ohm	5% 0.25W	
R...	153	57.11.3471	470 Ohm	5% 0.25W	
R...	154	57.11.4103	10 kOhm	5% 0.25W	
R...	155	57.11.4103	10 kOhm	5% 0.25W	
R...	156	57.11.4339	3.3 Ohm	2% 0.25W	
R...	157	57.11.4339	3.3 Ohm	2% 0.25W	
R...	158	57.11.4181	180 kOhm	5% 0.25W	
R...	159	57.11.4222	2.2 kOhm	5% 0.25W	
R...	160	57.11.4222	2.2 kOhm	5% 0.25W	
R...	161	57.11.4339	3.3 Ohm	2% 0.25W	
R...	162	57.11.4339	3.3 Ohm	2% 0.25W	
R...	163	57.11.4103	10 kOhm	5% 0.25W	
R...	164	57.11.4103	10 kOhm	5% 0.25W	
R...	165	57.92.1271	6.5 Ohm	I = 270mA	PTC Philips Nr.2322 662 12711
R...	166	57.92.1271	6.5 Ohm	I = 270mA	PTC Philips Nr.2322 662 12711
R...	201	57.11.3152	1.5 kOhm	1% 0.25W	
R...	202	57.11.3392	3.9 kOhm	1% 0.25W	
R...	203	57.11.3152	1.5 kOhm	1% 0.25W	
R...	204	57.11.3392	3.9 kOhm	1% 0.25W	
R...	205	57.11.3392	3.9 kOhm	1% 0.25W	
R...	206	57.11.3472	4.7 kOhm	1% 0.25W	
R...	207	57.11.3432	4.3 kOhm	1% 0.25W	
R...	208	57.11.3101	100 Ohm	1% 0.25W	
R...	209	57.11.3152	1.5 kOhm	1% 0.25W	
R...	210	58.01.9103	10 kOhm	10% 0.50W	
R...	211	57.11.3471	470 Ohm	5% 0.25W	
R...	212	57.11.4104	100 kOhm	5% 0.25W	
R...	213	57.11.4223	22 kOhm	5% 0.25W	
R...	214	57.11.5335	3.3 MOhm	5% 0.25W	
R...	215	57.11.4103	10 kOhm	5% 0.25W	
R...	216	57.11.4103	10 kOhm	5% 0.25W	
R...	217	57.11.4223	22 kOhm	5% 0.25W	
R...	218	57.11.4103	10 kOhm	5% 0.25W	
R...	219	57.11.4103	10 kOhm	5% 0.25W	
R...	220	57.11.4103	10 kOhm	5% 0.25W	
R...	221	57.11.4103	10 kOhm	5% 0.25W	
R...	222	57.11.4223	22 kOhm	5% 0.25W	
R...	223	57.11.4330	33 Ohm	5% 0.25W	
R...	224	57.11.4333	33 kOhm	5% 0.25W	
R...	225	57.11.4104	100 kOhm	5% 0.25W	
R...	226	57.11.4104	100 kOhm	5% 0.25W	
R...	227	57.11.4333	33 kOhm	5% 0.25W	
R...	228	57.11.4104	100 kOhm	5% 0.25W	
R...	229	57.11.4104	100 kOhm	5% 0.25W	
R...	230	57.11.4104	100 kOhm	5% 0.25W	
R...	231	57.11.4104	100 kOhm	5% 0.25W	
R...	232	57.11.4333	33 kOhm	5% 0.25W	
R...	233	57.11.4333	33 kOhm	5% 0.25W	
R...	234	57.11.4104	100 kOhm	5% 0.25W	
R...	235	57.11.4223	22 kOhm	5% 0.25W	
R...	236	57.11.5335	3.3 MOhm	5% 0.25W	
R...	237	57.11.3332	3.3 kOhm	5% 0.25W	
R...	238	57.11.3471	470 Ohm	1% 0.25W	
R...	239	57.11.3332	3.3 kOhm	1% 0.25W	
R...	240	57.11.3471	470 Ohm	1% 0.25W	
R...	241	57.11.3472	4.7 kOhm	1% 0.25W	
R...	242	57.11.3472	4.7 kOhm	1% 0.25W	
R...	243	57.11.3472	4.7 kOhm	1% 0.25W	
R...	244	57.11.3472	4.7 kOhm	1% 0.25W	
R...	245	57.11.3332	3.3 kOhm	1% 0.25W	
R...	246	57.11.3332	3.3 kOhm	1% 0.25W	
R...	247	57.11.4222	2.2 kOhm	5% 0.25W	
R...	248	58.01.9203	20 kOhm	10% 0.50W	
R...	249	57.11.3152	1.5 kOhm	1% 0.25W	
R...	250	57.11.4223	22 kOhm	5% 0.25W	
R...	251	58.11.6102	1 kOhm	30% 0.50W	
R...	252	57.11.4681	680 Ohm	5% 0.25W	
R...	253	57.11.3471	470 Ohm	5% 0.25W	
R...	254	57.11.4103	10 kOhm	5% 0.25W	
R...	255	57.11.4103	10 kOhm	5% 0.25W	
R...	256	57.11.4339	3.3 Ohm	2% 0.25W	
R...	257	57.11.4339	3.3 Ohm	2% 0.25W	
R...	258	57.11.4181	180 kOhm	5% 0.25W	
R...	259	57.11.4222	2.2 kOhm	5% 0.25W	
R...	260	57.11.4222	2.2 kOhm	5% 0.25W	
R...	261	57.11.4339	3.3 Ohm	2% 0.25W	
R...	262	57.11.4339	3.3 Ohm	2% 0.25W	
R...	263	57.11.4103	10 kOhm	5% 0.25W	
R...	264	57.11.4103	10 kOhm	5% 0.25W	
R...	265	57.92.1271	6.5 Ohm	I = 270mA	PTC Philips Nr.2322 662 12711
R...	266	57.92.1271	6.5 Ohm	I = 270mA	PTC Philips Nr.2322 662 12711
T...	101	1.022.451.00		input trafo	1:0.62 St
T...	102	1.022.355.00		output trafo	
T...	201	1.022.451.00		input trafo	1:0.62 St
T...	202	1.022.355.00		output trafo	

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

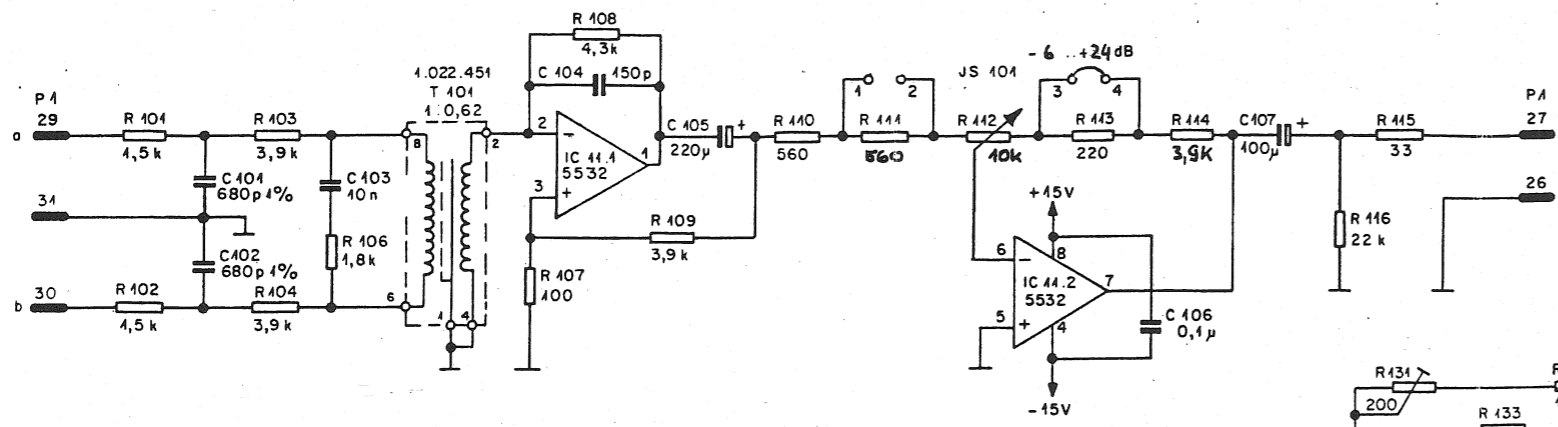
MANUFACTURER: Bu=Burndy, Ex=Exar, Fc=Fairchild, GI=General Instrument, HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, Nat=National [Matsushita], NS=National Semiconductors, Ph=Philips, Ra=Raytheon, Sig=Signetics, Six=Siliconix, St=Studer, TI=Texas Instrument

ORIG 85/04/16

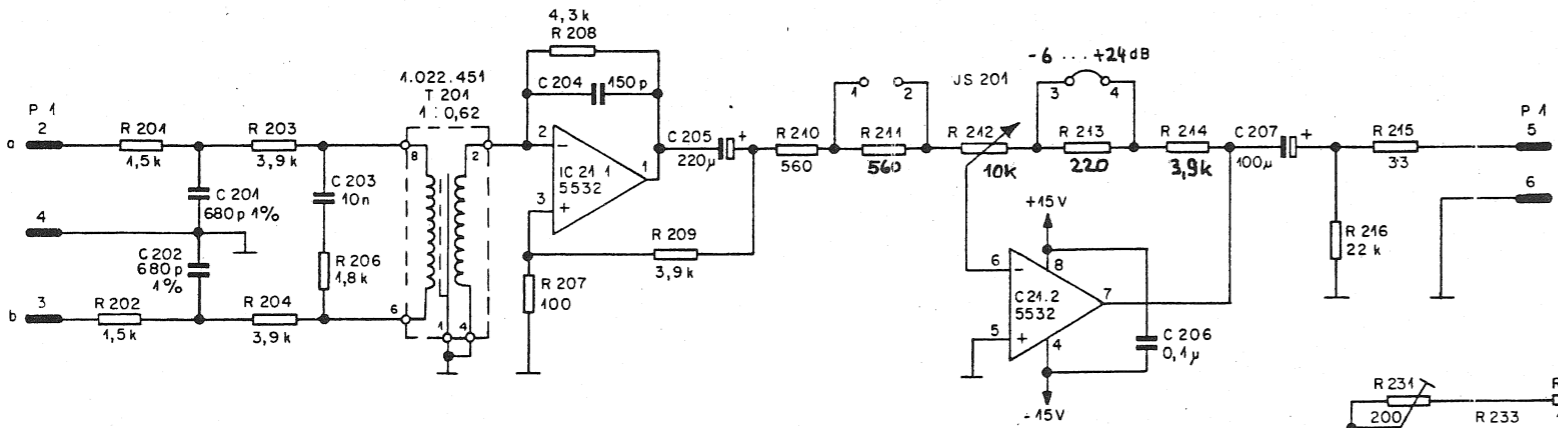
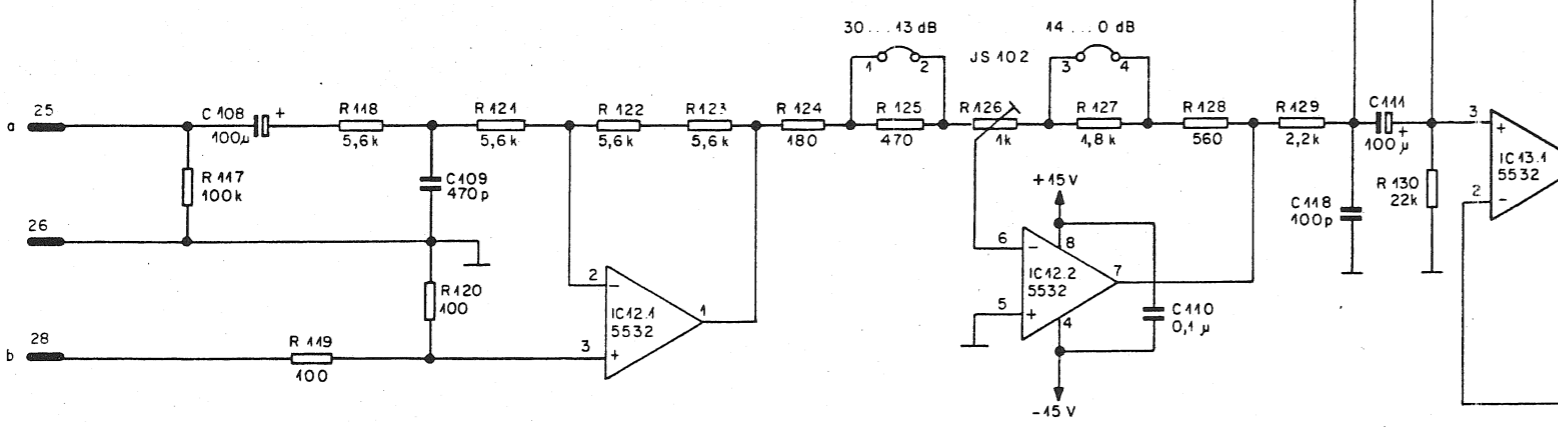
S T U D E R (00) 85/04/16 TA

DUAL BAL. UNIT/SWITCH

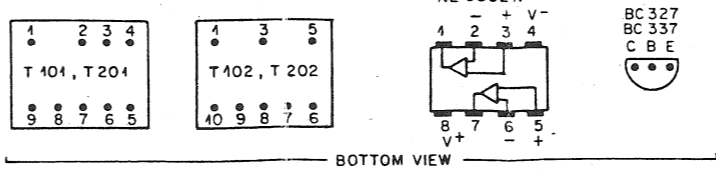
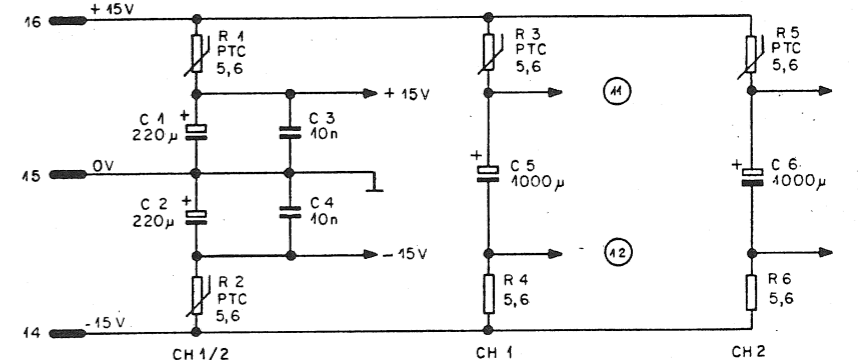
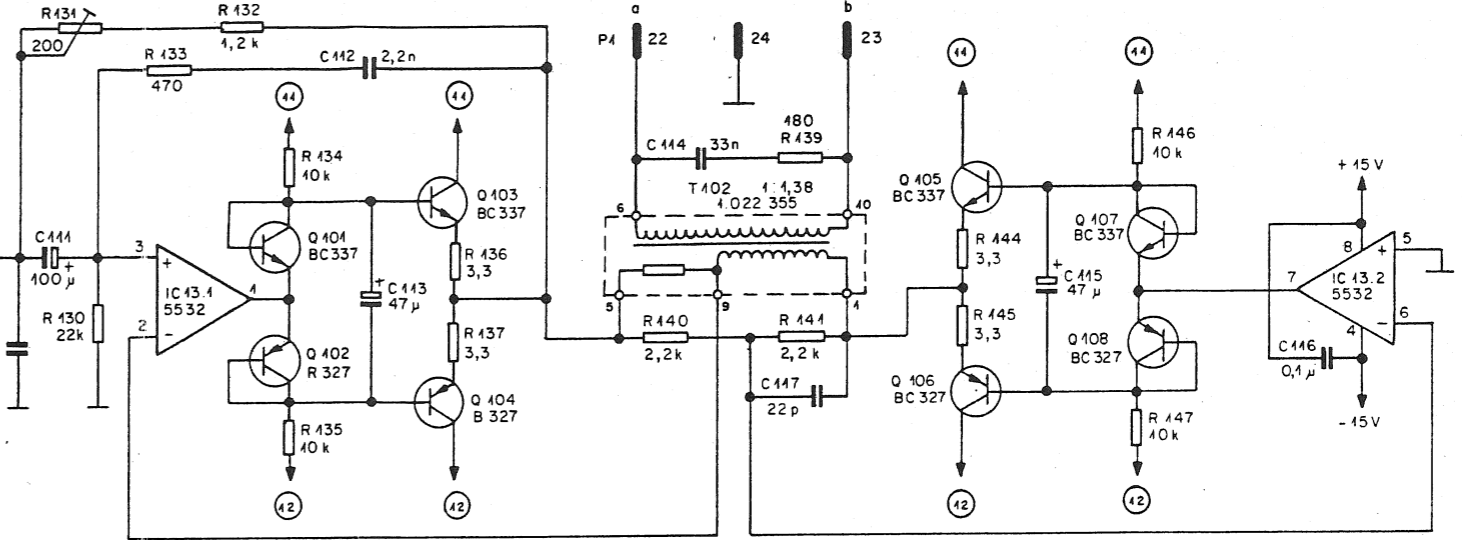
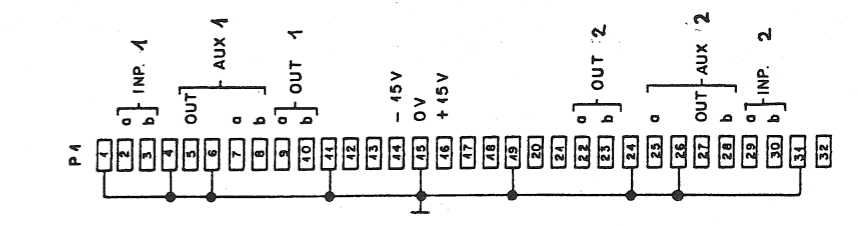
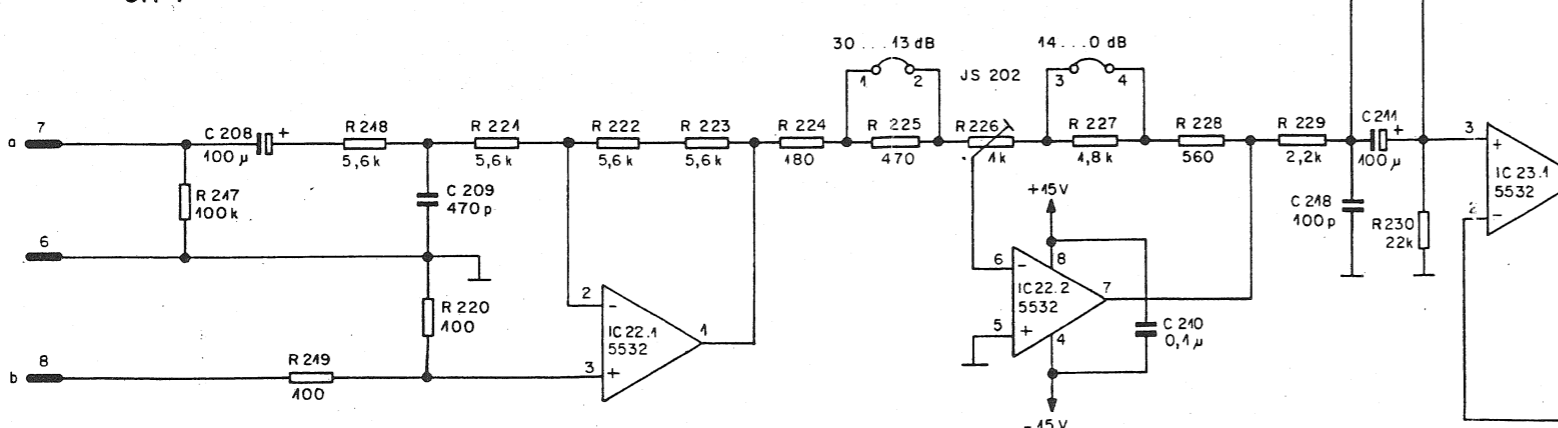
1.915.924.00



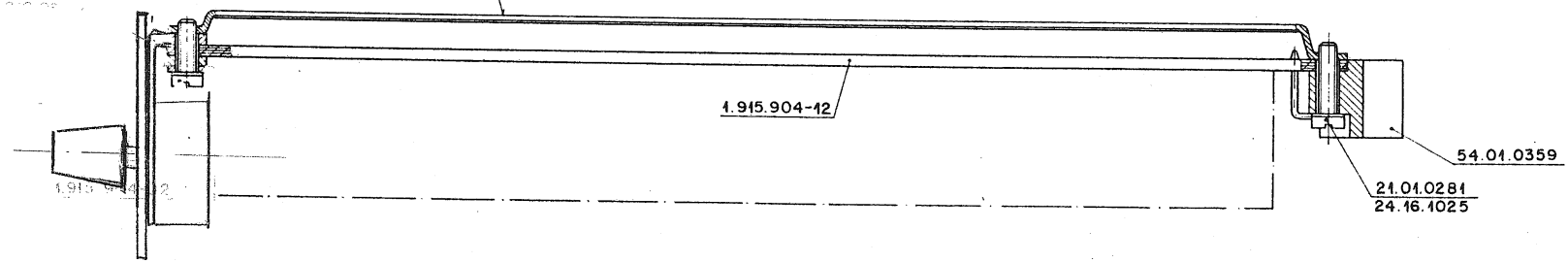
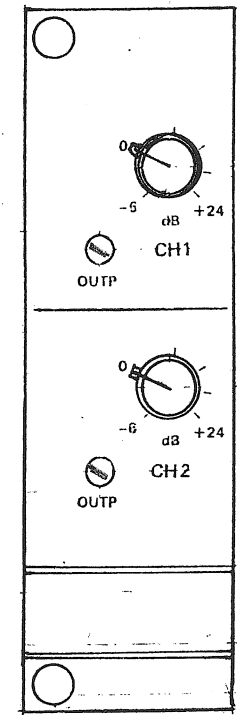
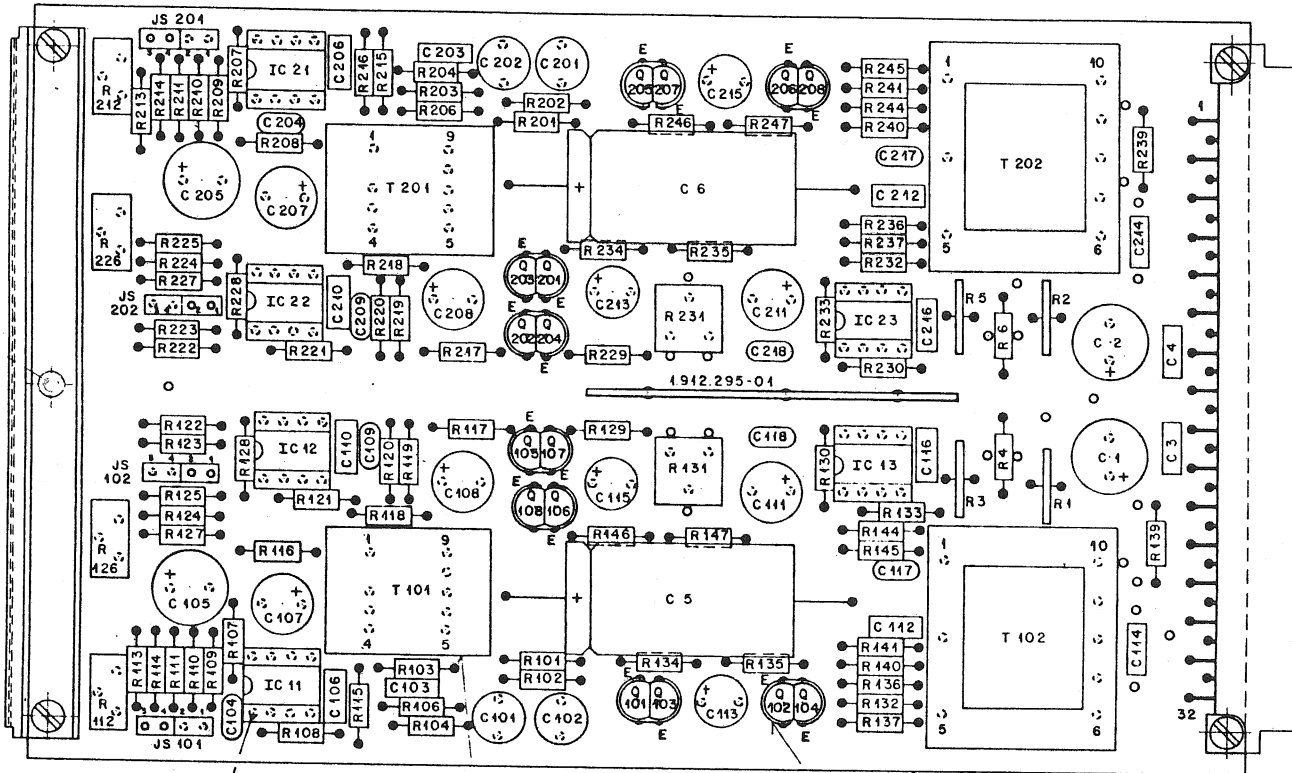
CH 2



CH 1



DATE:	8.7.88				
SIGN:	<i>Reich</i>				
STUDEA: REGENSDORF ZURICH	DUAL LINE AMPLIFIER (IEC)				SC 1.915.934-00



Werkstoff DIN-Bez Abmessung	Norm-Nr		Güte Oberfläche Büh	Anfertigung				
				4.4.84	Si	ML		
Zugehörige Unterlagen	Freemassstoleranz		Multistit	Ausgabe				
PL			2:1	24.11.82	A.Ho	Re	H	
Ersatz für 1.915.904-00	Ersetzt durch		Kopie für					
STUDEA REGENSDORF ZÜRICH	Benennung		DUAL LINE AMPLIFIER					
			Nummer					
			1.915.934-00					

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
C	1	59.22.4221	220 μ	16V EL	
	2	59.22.4221	220 μ	16V EL	
	3	59.06.0103	10 n	63V PE	
	4	59.06.0103	10 n	63V PE	
	5	59.25.5102	1000 μ	40V EL	
	6	59.25.5102	1000 μ	40V EL	
G	.01	59.05.1681	680 p	1% 630V PP	
	.02	59.05.1681	680 p	1% 630V PP	
	.03	59.06.0103	10 n	63V PE	
	.04	59.34.4151	150 p	63V CER	
	.05	59.22.2221	220 μ	6V EL	
	.06	59.06.0104	01 μ	63V PE	
	.07	59.22.5101	100 μ	25V EL	
	.08	59.22.5101	100 μ	25V EL	
	.09	59.34.5471	470 p	63V CER	
	.10	59.06.0104	01 μ	63V PE	
	.11	59.22.5101	100 μ	25V EL	
	.12	59.06.0222	22 n	63V PE	
	.13	59.22.5470	47 μ	25V EL	
	.14	59.06.0333	33 n	63V PE	
	.15	59.22.5470	47 μ	25V EL	
	.16	59.06.0104	01 μ	63V PE	
	17	59.34.2220	22 p	63V CER	
(1)	8	59.34.4101	100 p	63V CER	
IC	.1	50.09.0105	NE 5532	DUAL OPAMP XR 5532	SIG/EX
	.2	50.09.0105	NE 5532	DUAL OPAMP XR 5532	SIG/EX

IND	DATE	NAME	PL	PL	PAGE
(4)					
(3)					
(2)					
(1)					
(0)	24.11.82	BR			
STUDER			PL 1.915.934.00	PAGE 1 OF 4	

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
IC	.3	50.09.0105	NE 5532	DUAL OPAMP XR 5532	SIG/EX
JS	.01	54.01.0020	4 PIN		
		54.01.0021	JUMPER		
	.02	54.01.0021	4 PIN		
		54.01.0021	JUMPER		
P	1	54.01.0359	2*16P		
Q	.01	1.010.037.50	BC 337	NPN	
	.02	1.010.036.50	BC 327	PNP	
	.03	1.010.037.50	BC 337	NPN	MATCHED
	.04	1.010.036.50	BC 327	PNP	
	.05	1.010.037.50	BC 337	NPN	
	.06	1.010.036.50	BC 327	PNP	
	.07	1.010.037.50	BC 337	NPN	
	.08	1.010.036.50	BC 327	PNP	
R	1	57.99.0209	56	PTC	PH
	2	57.99.0209	56	PTC	PH
	3	57.99.0209	56	PTC	PH
	4	57.11.4569	56		
	5	57.99.0209	56	PTC	PH
	6	57.11.4569	56		
IC	.1	50.09.0105	NE 5532	DUAL OPAMP XR 5532	SIG/EX
	.2	50.09.0105	NE 5532	DUAL OPAMP XR 5532	SIG/EX

IND	DATE	NAME	PL	PL	PAGE
(4)					
(3)					
(2)					
(1)					
(0)	24.11.82	BR			
STUDER			PL 1.915.934.00	PAGE 2 OF 4	

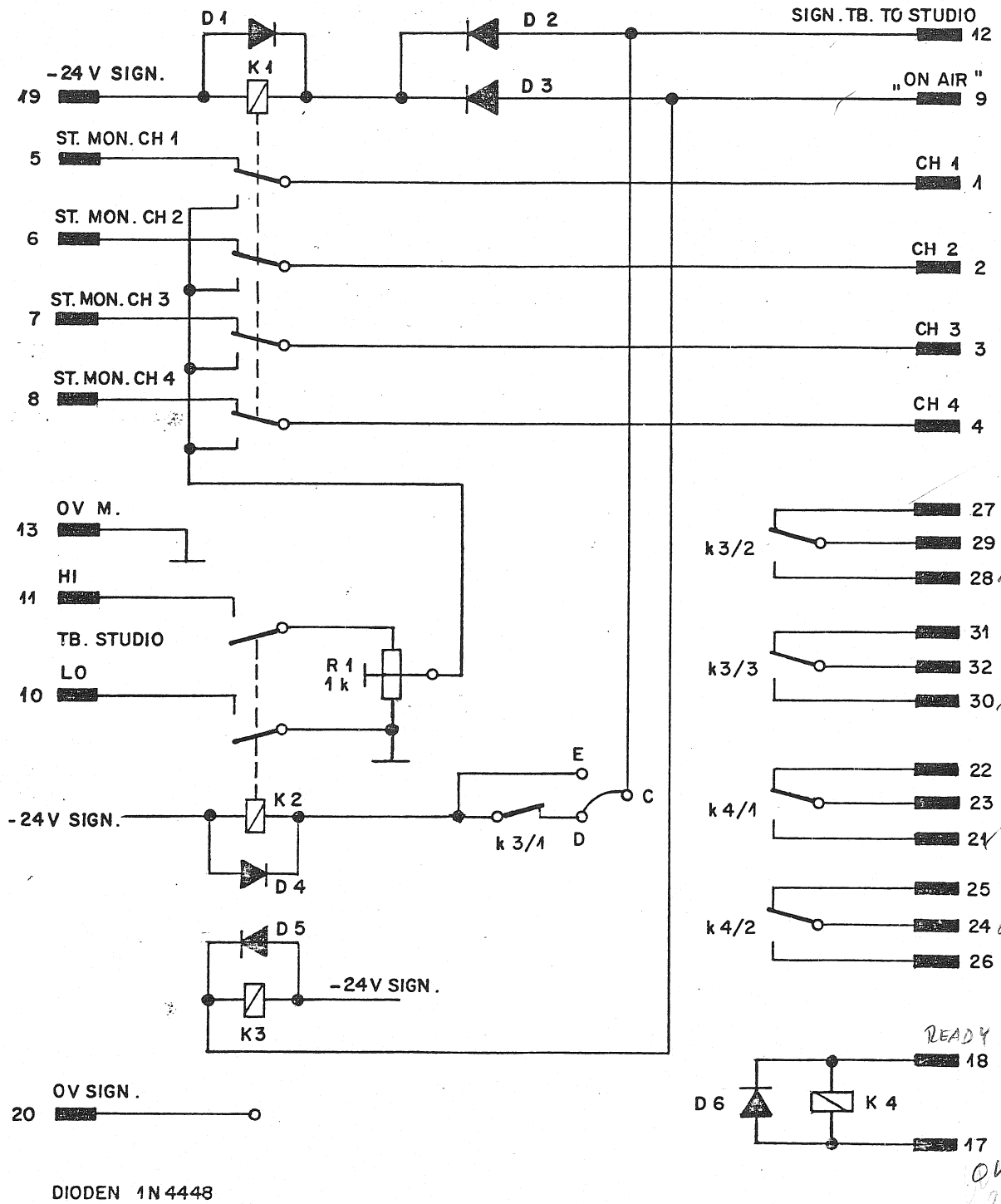
IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
R	.01	57.11.3152	1,5 K	1%	
	.02	57.11.3152	1,5 K	1%	
	.03	57.11.3392	3,9 K	1%	
	.04	57.11.3392	3,9 K	1%	
	.05				
	.06	57.11.4182	1,8 K		
	.07	57.11.3101	100		
	.08	57.11.3432	43 K		
	.09	57.11.3392	3,9 K	2%	
	.10	57.11.4561	560		
	.11	57.11.3561	560		
	.12		10 K	10% PREOSTAT 16-0-10MO E	
	.13	57.11.4221	220	2%	
	.14	57.11.3392	3,9 K	2%	
	.15	57.11.4330	33		
	.16	57.11.4223	22 K		
	.17	57.11.4104	100 K		
	.18	57.11.3562	5,6 K		
	.19	57.11.3101	100		
	.20	57.11.3101	100	1%	
	.21	57.11.3562	5,6 K		
	.22	57.11.3562	5,6 K		
	.23	57.11.3562	5,6 K		
	.24	57.11.4181	180	2%	
	.25	57.11.4471	470	2%	
	.26	58.01.9102	1 K	10% TRIM	
	.27	57.11.4182	1,8 K	2%	

IND	DATE	NAME	PL	PL	PAGE
(4)					
(3)					
(2)					
(1)					
(0)	24.11.82	BR			
STUDER			PL 1.915.934.00	PAGE 3 OF 4	

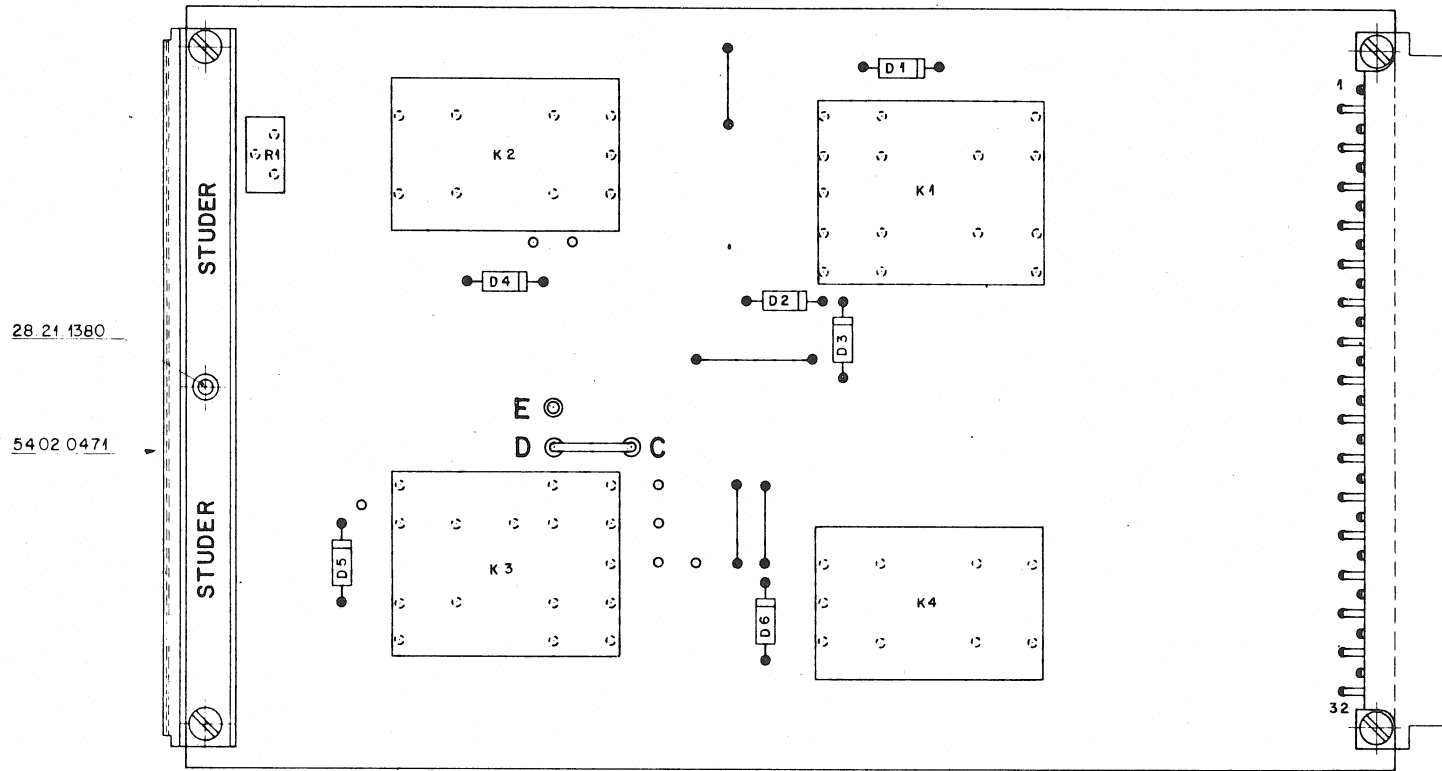
IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
R	.28	57.11.4561	560	2%	
	.29	57.11.4222	2,2 K		
	.30	57.11.4223	22 K		
	.31	58.01.8201	200	TRIM	
	.32	57.11.4122	1,2 K		
	.33	57.11.4471	470		
	.34	57.11.4103	10 K		
	.35	57.11.4103	10 K		
	.36	57.11.4339	3,3		
	.37	57.11.4339	3,3		
	.38				
	.39	57.11.4181	180		
	.40	57.11.4222	2,2 K	2%	
	.41	57.11.4222	2,2 K	2%	
	.42				
	.43				
	.44	57.11.4339	3,3		
	.45	57.11.4339	3,3		
	.46	57.11.4103	10 K		
	.47	57.11.4103	10 K		
T	.01	1.022.451.00	1:0,62	INPUT TRAF0	ST
	T.02	1.022.355.00	1:1,38	LINE OUTPUT TRAF0	ST
XIC		53;03.0166	8P	IC SOCKET	

IND	DATE	NAME	PL	PL	PAGE
(4)					
(3)					
(2)					
(1)					
(0)	24.11.82	BR			
STUDER			PL 1.915.934.00	PAGE 4 OF 4	

	NUMMER	BEZEICHNUNG	MENGE	EINH.	BEMERKUNG *
1	1.915.904.81	Dual Bal Amp.	1	Stk	
2	1.915.934.01	Frontschild	1		
3	1.915.934.02	Frontwinkel	1		
4	1.915.934.03	Unterlage für 2 Pot	2		
5	63250-113/0003	Potmeter 10k lin	2		Preh
6	1.010.032.22	Pot. meter Mutter	2		
7	21.01.0279	Z-Schraube M2,5x6	3		
8	22.01.8025	Mutter M2,5	1		
9	24.16.1025	Schnorr Scheibe f. M2,5	3		
10	21.51.8354	L-15 Schraube Ni M3x6	2		
11	49.02.0322	Verschluss Gewinde Einsatz	2		
12	49.02.0321	Verschluss Schraube	2		
13	42.01.0228	Drehknopf $\phi 10$; $\phi 4$	2		
14	42.01.0250	Deckel h' grau für Knopf $\phi 10$	2		
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	KONSTRUKTIONS- STÜCKLISTE	DATUM	VISUM	BLATT	BLÄTTER
		21.2.96	<i>Stu</i>	1	1
	STUDER	DUAL LINE AMP		1.915.934	

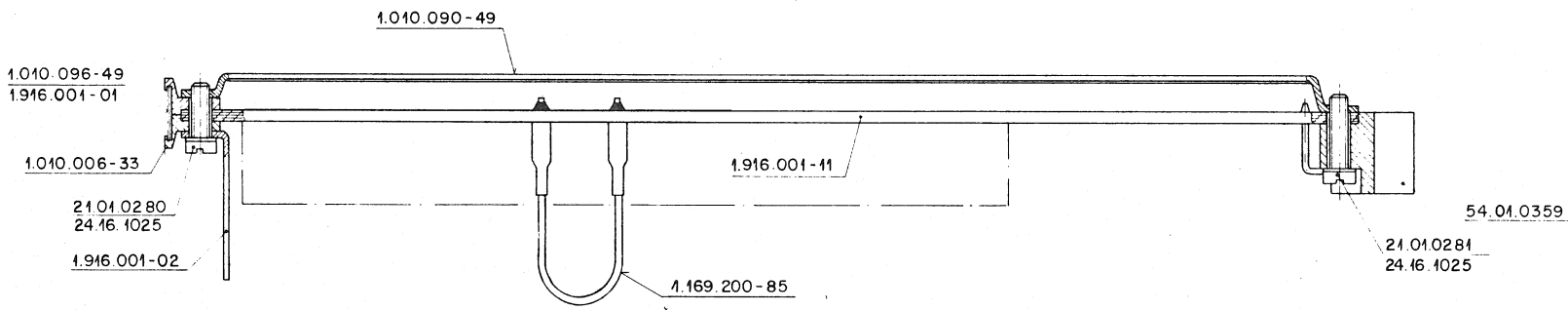
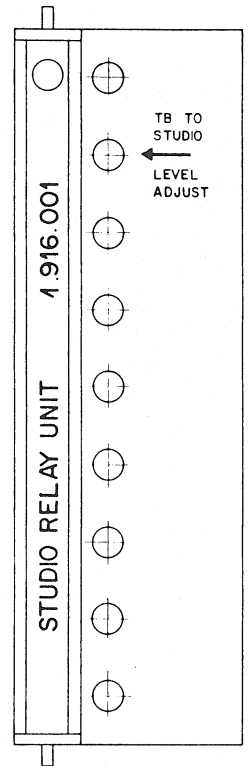


Werkstoff	Norm-Nr.:	Oberfläche	Güte:	Änderung					③	
	DIN-Bez.:		Beh.:							②
	Abmessung:									①
Zugehörige Unterlagen:		Freimasstoleranz:	Maßstab:	Ausgabe	5. 12. 79	Si			①	
		±		Datum	Gez.	Gepr.	Ges.	Index		
Ersatz für:		Ersetzt durch:		Kopie für:						
STUDER REGENSDORF ZÜRICH		Benennung: STUDIO RELAY UNIT			Nummer: SC 1.916.001					



28.21.1380

5402.0471



Ersatz für	Ersetzt durch	Ersetzt für
STUDER REGENSDORF ZÜRICH	Studio Relay Unit	1.916.001-00

POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT MFR
D1-6	50.04.0125	1N4448	Si	
K1,3	56.04.0144	24V 4x11	220V/2A	NA
K2,4	56.04.0143	24V 2x11	220V/2A	NA
R1	58.01.7102	1k Ω	0,5W LIN	

NA = NATIONAL

- ④
- ③
- ②
- ①
-

IND

23.1.80

DATE

[Signature]

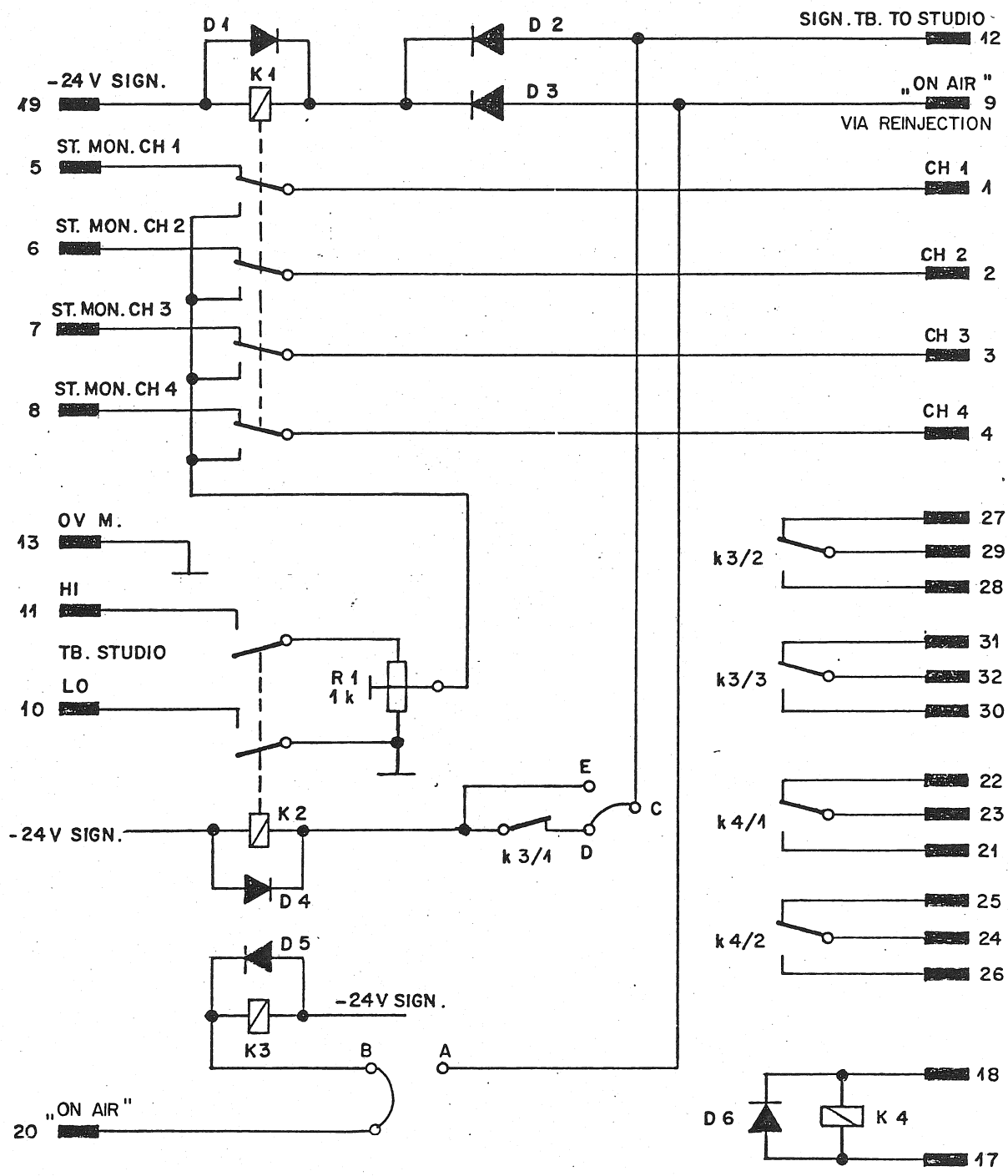
NAME

STUDER

STUDIO RELAY UNIT

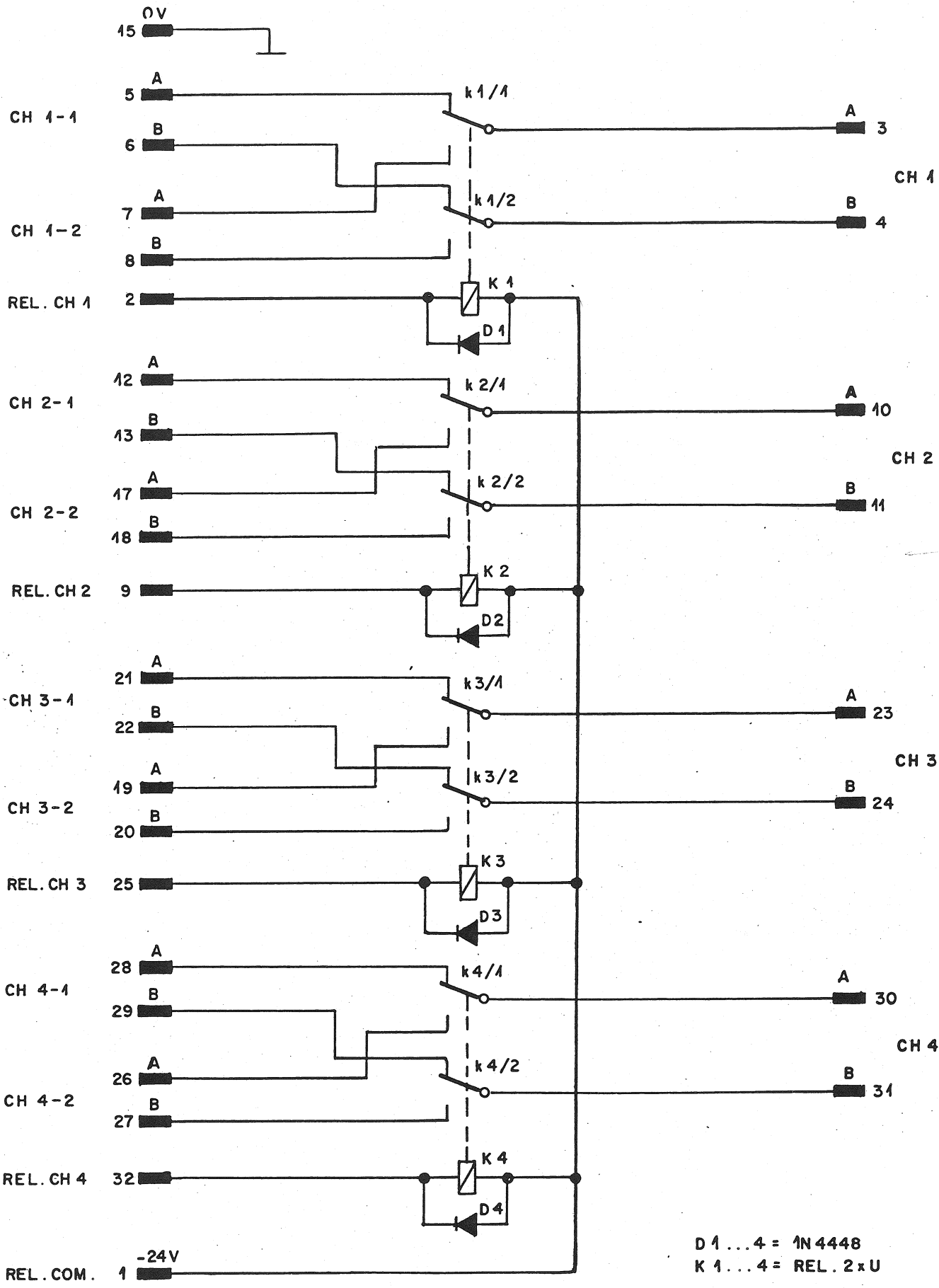
1.916.001

PAGE 1 of 1

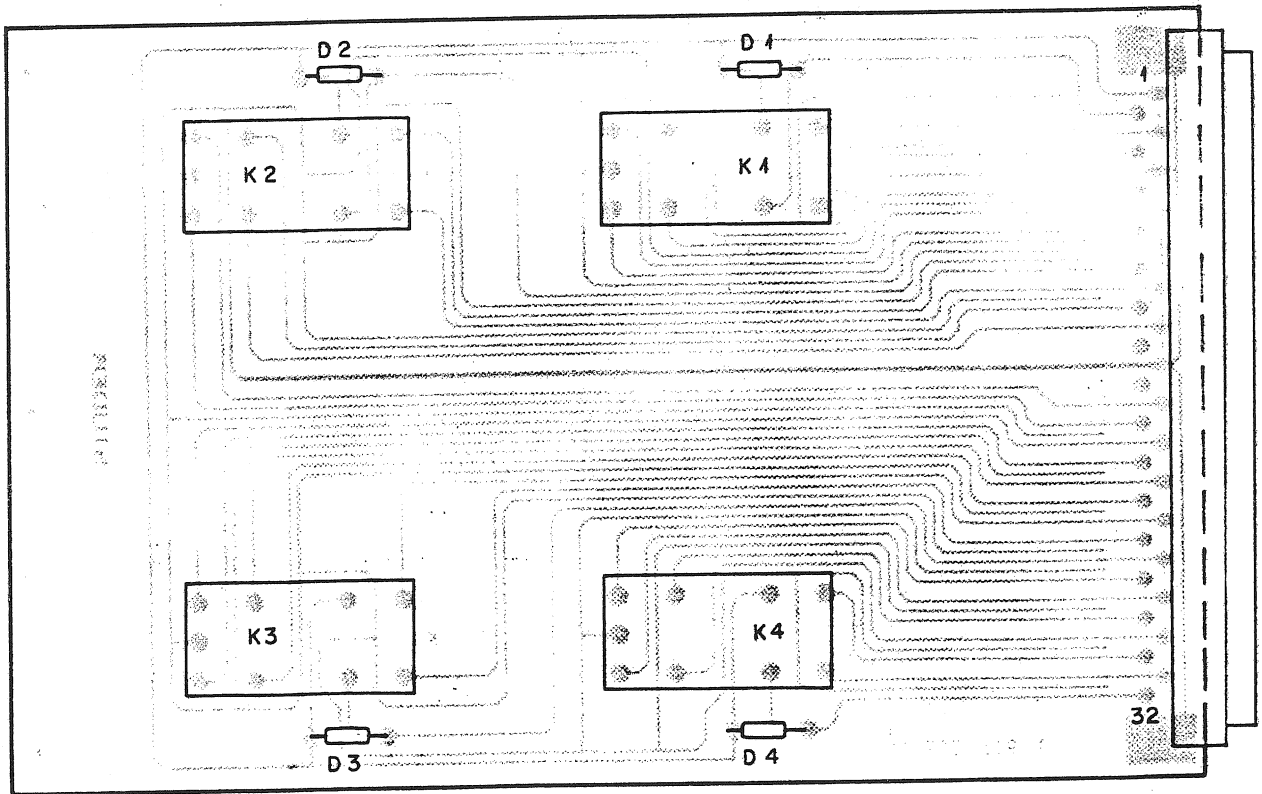


DIODEN 1N4448

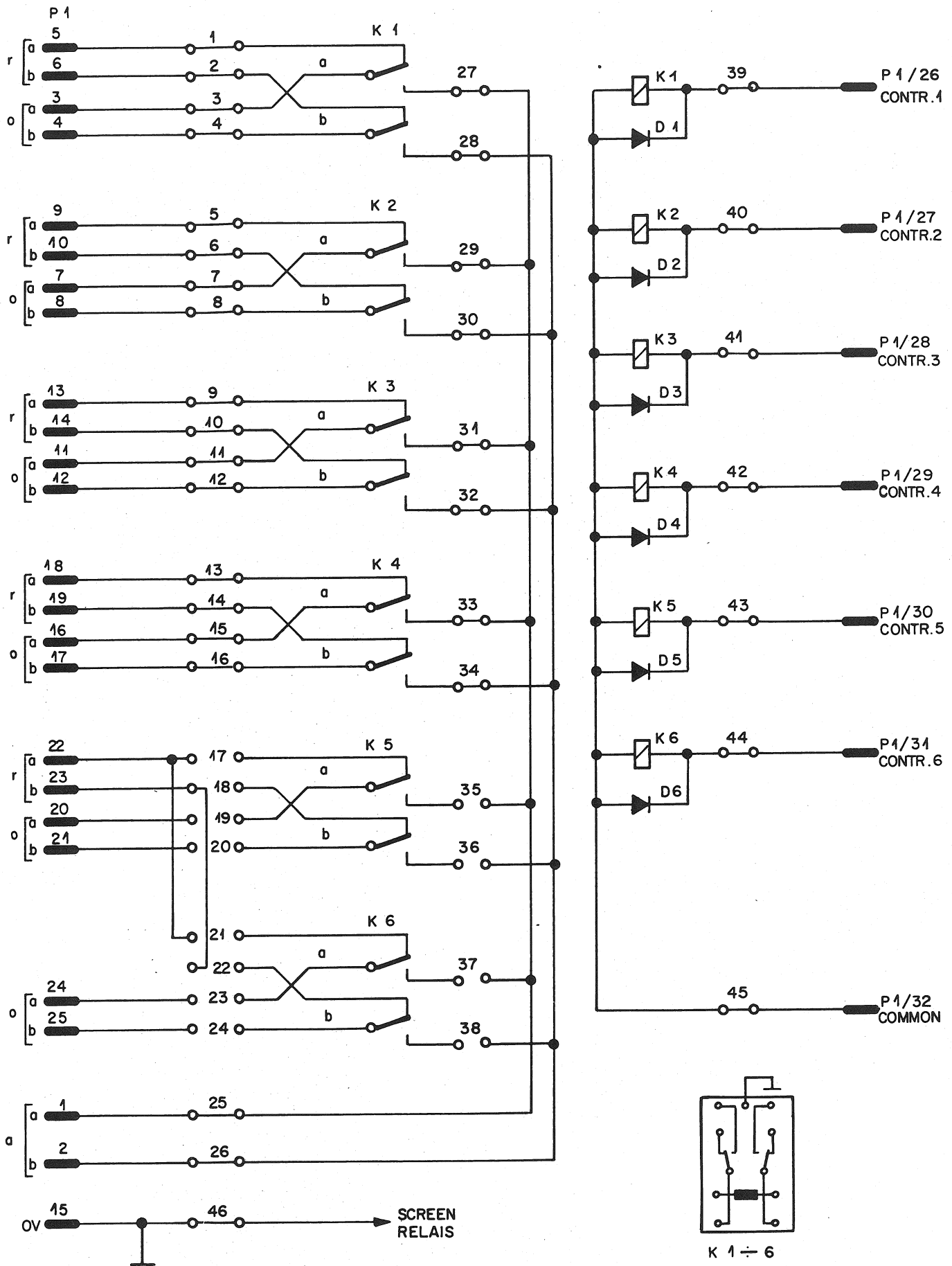
DATE:	29.3.82					RT TUNISIENNE
SIGN:	<i>[Signature]</i>					
STUDER REGENSDORF ZÜRICH	STUDIO RELAY UNIT				SC	1.916.001/1



DATE:	19. 5. 84				
SIGN:	<i>[Signature]</i>				
STUDER REGENSDORF ZÜRICH	METER SOURCE SEL. UNIT				1. 916. 002

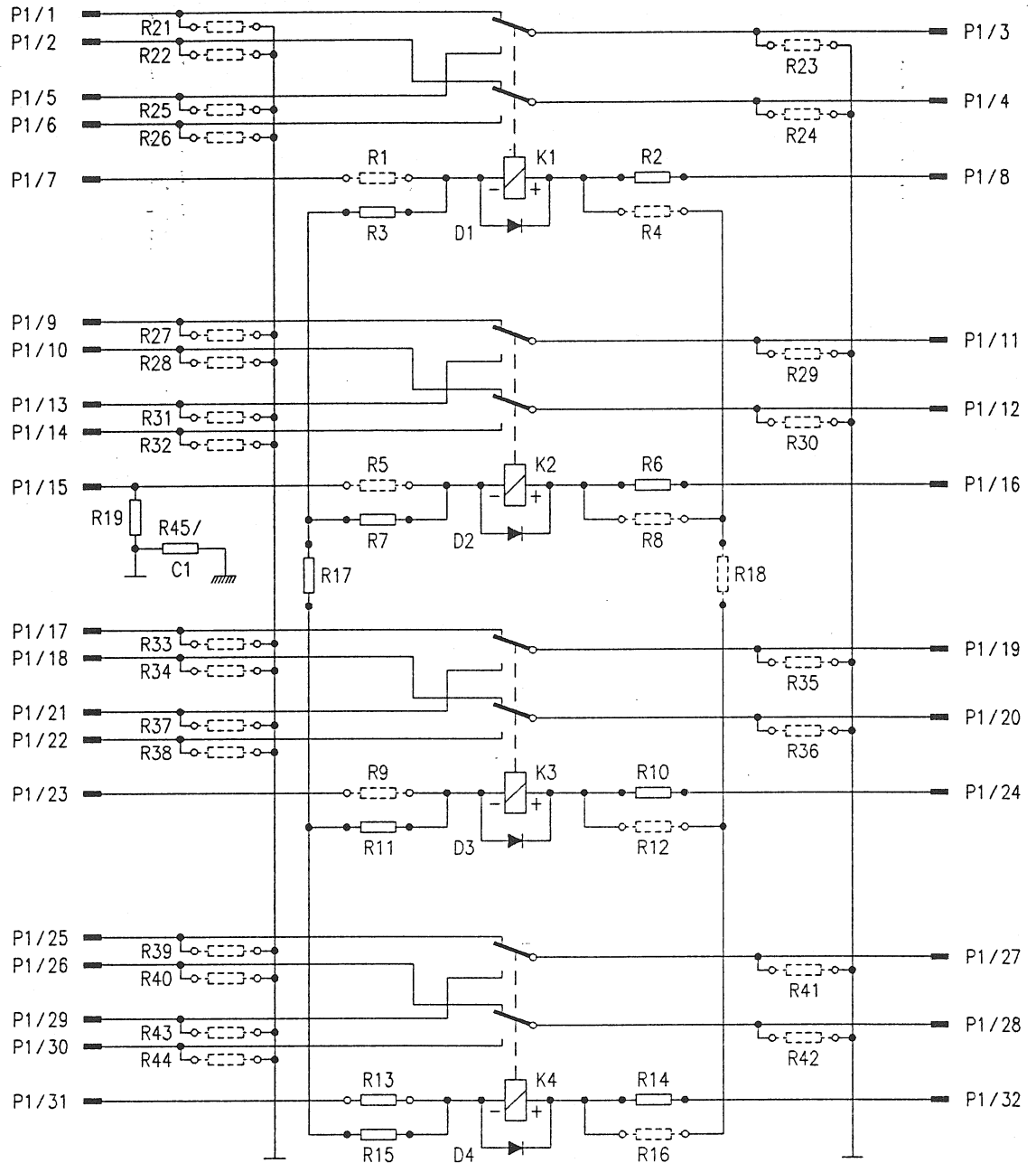


DATE:	15.9.83					
SIGN:	<i>[Signature]</i>					
STUDER REGENSDORF ZÜRICH	METER SOURCE SELECTOR					1.916.002



DATE:	8.11.82				
SIGN:	<i>[Signature]</i>				
STUDER REGENSDORF ZÜRICH	Relays Unit 6 A				1.916.003

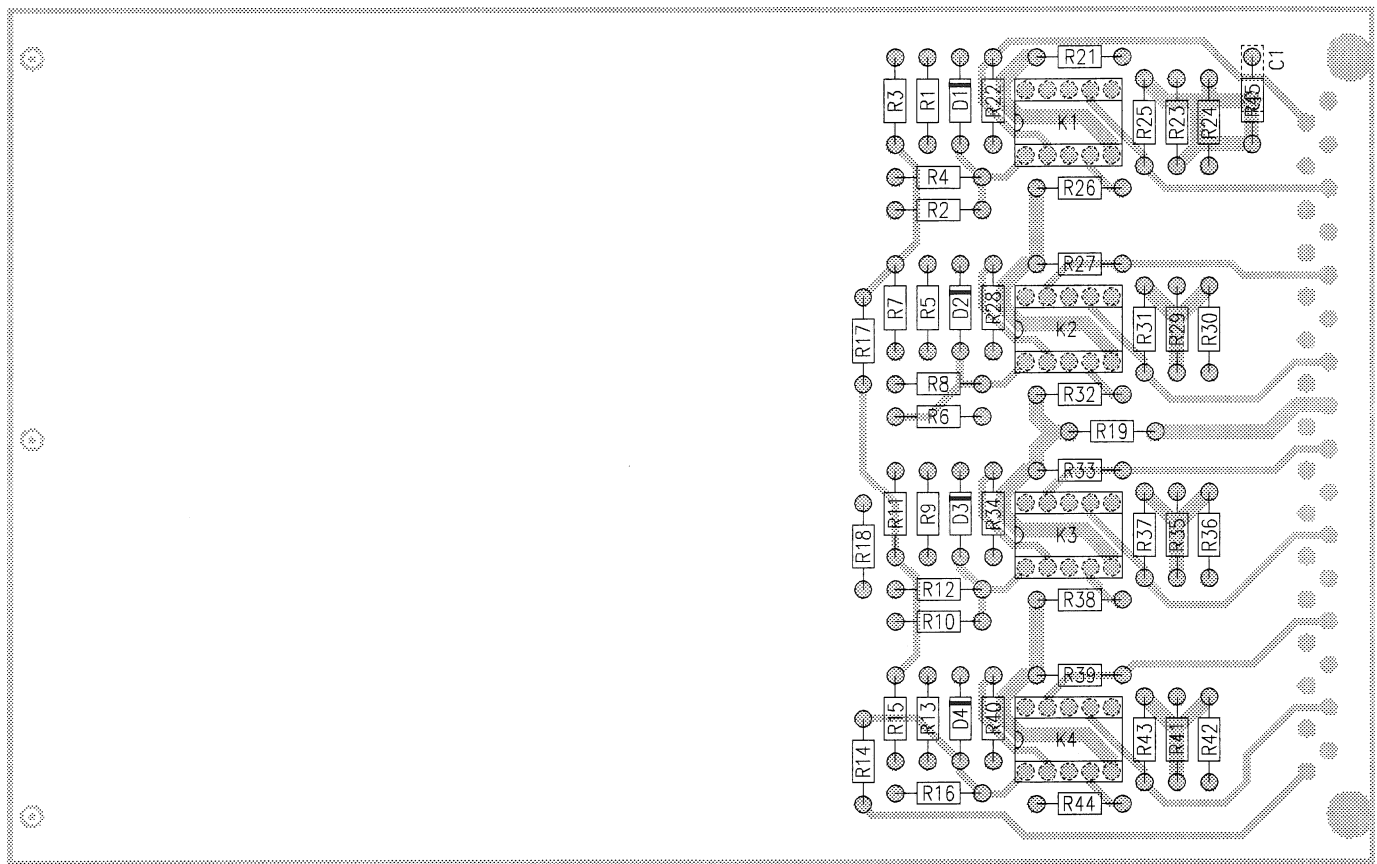
Nr	Name	Bemerkung
1	a } a	BUS - INPUT
2	b } a	a
3	a } 0	
4	b } 0	
5	a } r	K 1
6	b }	
7	a } 0	
8	b }	
9	a } r	K 2
10	b }	
11	a } 0	
12	b }	
13	a } r	K 3
14	b }	
15	OV	SCREEN RELAYS
16	a } 0	
17	b }	K 4
18	a } r	
19	b }	
20	a } 0	
21	b }	
22	a } r	K 5 K 6
23	b }	
24	a } 0	
25	b }	
26	CONTROL 1	
27	CONTROL 2	
28	CONTROL 3	
29	CONTROL 4	OV
30	CONTROL 5	
31	CONTROL 6	
32	COMMON	(E V)



- K1: 5V (56.04.0198) 6V (56.04.0195) 12V (56.04.0196) 24V (56.04.0197) NOT EQUIPPED
 K2: 5V (56.04.0198) 6V (56.04.0195) 12V (56.04.0196) 24V (56.04.0197) NOT EQUIPPED
 K3: 5V (56.04.0198) 6V (56.04.0195) 12V (56.04.0196) 24V (56.04.0197) NOT EQUIPPED
 K4: 5V (56.04.0198) 6V (56.04.0195) 12V (56.04.0196) 24V (56.04.0197) NOT EQUIPPED

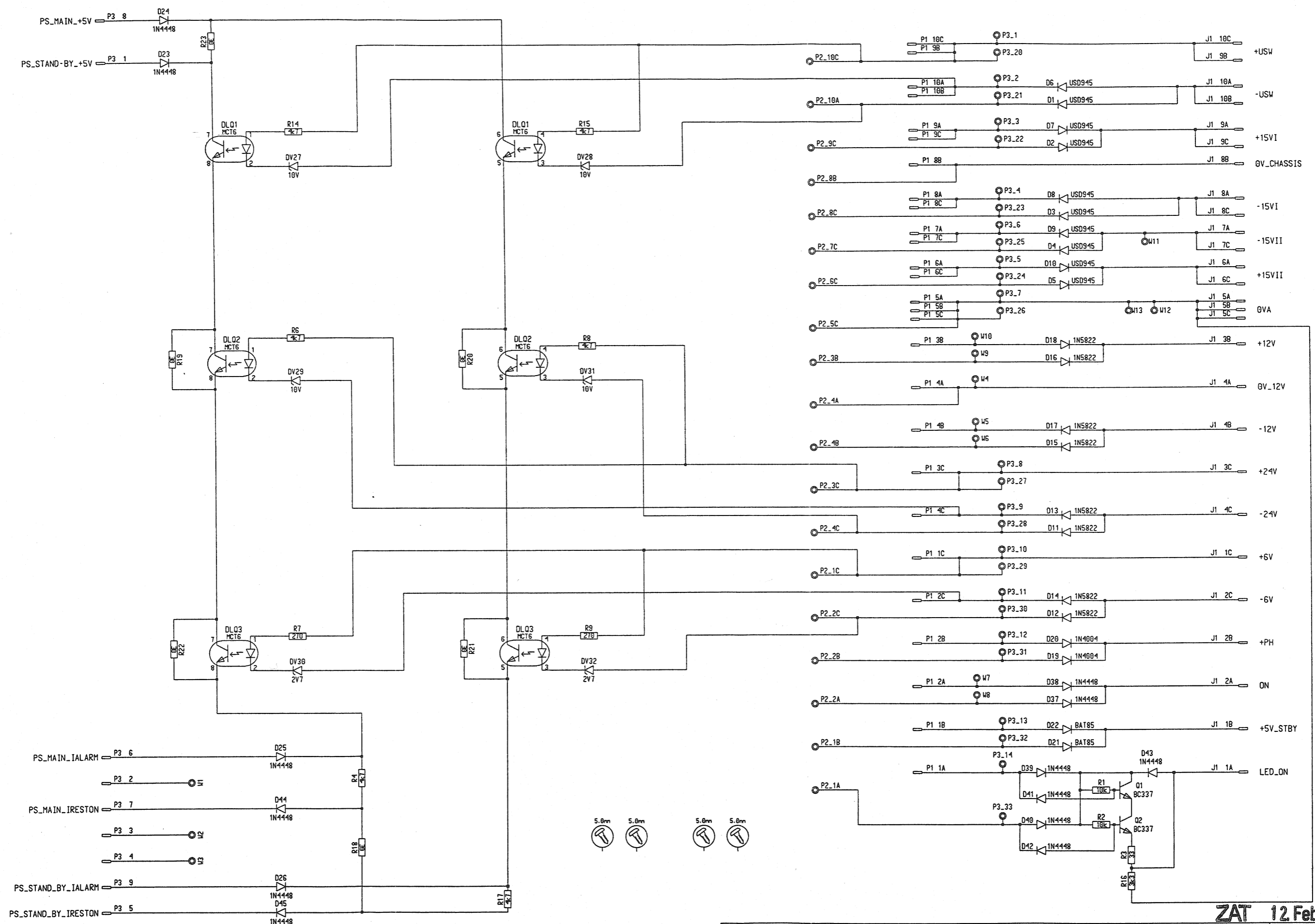
- R1-R19: 0-OHM (57.11.3000) EQUIPED: R-
 R21-R44: 1 M-OHM (57.11.3105) EQUIPED: R-
 P1: 32P (54.01.0359)
 ALL D: 1N4448 (50.04.0125)
 PCB: 1.916.010-11

① 08.05.96 / BK	○	○	○	○
SC916010				PAGE 1 OF 1
STUDER REGENSDORF SWITZERLAND	RELAY CARD 4x2 CO			1.916.010 / ____



© 22.02.2000zm	○	○	○	○
91601011C				
STUDER REGENSDORF SWITZERLAND	RELAY CARD 4x2 CO			1.916.010.11

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ZAT 12 Feb. 1999

0	19.01.98	ZT							
STUDER CHANGE-OVER UNIT POWER PACK SC 1.918.074.00									
								PAGE 1 OF 1	

Parts List

STUDER Professional Audio AG

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
0	D 1	50.04.0516		USD945	D USD 945,
0	D 2	50.04.0516		USD945	D USD 945,
0	D 3	50.04.0516		USD945	D USD 945,
0	D 4	50.04.0516		USD945	D USD 945,
0	D 5	50.04.0516		USD945	D USD 945,
0	D 6	50.04.0516		USD945	D USD 945,
0	D 7	50.04.0516		USD945	D USD 945,
0	D 8	50.04.0516		USD945	D USD 945,
0	D 9	50.04.0516		USD945	D USD 945,
0	D 10	50.04.0516		USD945	D USD 945,
0	D 11	50.04.0519		1N5822	3A, Schottky
0	D 12	50.04.0519		1N5822	3A, Schottky
0	D 13	50.04.0519		1N5822	3A, Schottky
0	D 14	50.04.0519		1N5822	3A, Schottky
0	D 15	not used		1N5822	3A, Schottky
0	D 16	not used		1N5822	3A, Schottky
0	D 17	not used		1N5822	3A, Schottky
0	D 18	not used		1N5822	3A, Schottky
0	D 19	50.04.0105		1N4004	D 1 N 4004 ... 1 N 4007
0	D 20	50.04.0105		1N4004	D 1 N 4004 ... 1 N 4007
0	D 21	50.04.0127		BAT85	200mA, Schottky
0	D 22	50.04.0127		BAT85	200mA, Schottky
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 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	DLQ 1	50.99.0111		MCT6	DLQ ILD-74, MCT 6, TLP 504 A
0	DLQ 2	50.99.0111		MCT6	DLQ ILD-74, MCT 6, TLP 504 A
0	DLQ 3	50.99.0111		MCT6	DLQ ILD-74, MCT 6, TLP 504 A
0	DV 27	50.04.1114		10V	Zener, 5%, 0.5W, DO-35
0	DV 28	50.04.1114		10V	Zener, 5%, 0.5W, DO-35
0	DV 29	50.04.1114		10V	Zener, 5%, 0.5W, DO-35
0	DV 30	50.04.1106		2V7	Zener, 5%, 0.5W, DO-35
0	DV 31	50.04.1114		10V	Zener, 5%, 0.5W, DO-35
0	DV 32	50.04.1106		2V7	Zener, 5%, 0.5W, DO-35

ZAT 12.Feb. 1999

	1. Issue 19.Jan.1999 by ZT	Last Change	by ZT	Page 1 / 3
STUDER	CHANGE-OVER UNIT POWER PACK		PL	1.918.074.00 00

Parts List

STUDER Professional Audio AG

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
0	J 1	54.14.1032		30p	Buchsenleiste Ag PCB
0	MP 1	1.918.074.11	1 pce		CHANGE-OVER PCB
0	MP 2	1.918.075.05	1 pce		HALTEBLECH
0	MP 3	43.01.0108	1 pce	Label	ESE-WARNschild
0	MP 4	23.01.3032	2 pcs	M3	U-Scheibe 3.2/9.0*0.8 St gb
0	MP 5	35.05.0315	2 pcs		KABELBRIDE D 11.1
0	MP 13	1.918.073.00	1 pce		CHANGE OVER CABLE
0	MP 14	1.915.106.03	1 pce		KUEHLBUEGEL 1
0	MP 15	54.14.7002	1 pce		MP RIEGELWANNE 30/39 POL
0	MP 16	21.53.0356	10 pcs	M3*10	Z-Schraube Inbus Zn gb chr
0	MP 17	1.010.098.27	10 pcs		DISTANZHUELSE D3.1/7.0* 2.3
0	MP 18	50.20.0305	10 pcs	TO220	Glimmerscheibe gefettet
0	MP 19	37.01.0101	20 pcs	3.2/8.0*0.3	Tellerfeder
0	MP 20	50.20.0404	10 pcs	d3.1	Durchführung, D3.5 * 2.1
0	MP 21	1.010.014.22	8 pcs	3*4.5	NIETMUTTER SW6 M 3 *4,5
0	MP 22	1.010.045.21	4 pcs	M3*6	S - Schr IS sw
0	MP 23	1.010.025.21	6 pcs	M3*6	L-Schraube IS A2 sw oxydiert
0	MP 24	21.53.9356	4 pcs	M3*10	Z-Schraube Inbus-Ripp Zn gb ch
0	MP 25	24.16.1030	6 pcs		RIPPENSCHIEBE D 3.2/5.5
0	MP 26	1.918.074.01	1 pce		ABDECKUNG
0	MP 27	1.918.074.02	1 pce		CHASSIS
0	MP 28	1.918.075.03	2 pcs		BEFESTIGUNGSSCHRAUBE
0	MP 29	1.918.074.04	1 pce		STUDER-NR.-ETIKETTE 10 * 20
0	MP 30	1.918.075.06	1 pce		BLLENDE
0	MP 31	1.918.075.07	1 pce		UNTERLAGE
0	MP 34	54.14.7023	2 pcs		PASS-BUCHSE
0	MP 35	54.14.7020	2 pcs		PASS-STIFT
0	P 1	54.14.1022		30p	Messerleiste Ag PCB
0	P 3	54.13.0071		9p	D-Sub, PCB, Winkel
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	57.11.3103		10k	MF, 1%, 0207
0	R 2	57.11.3103		10k	MF, 1%, 0207
0	R 3	57.11.3330		33R	MF, 1%, 0207
0	R 4	57.11.3472		4k7	MF, 1%, 0207
0	R 6	57.11.3472		4k7	MF, 1%, 0207
0	R 7	57.11.3271		270R	MF, 1%, 0207
0	R 8	57.11.3472		4k7	MF, 1%, 0207
0	R 9	57.11.3271		270R	MF, 1%, 0207
0	R 14	57.11.3472		4k7	MF, 1%, 0207
0	R 15	57.11.3472		4k7	MF, 1%, 0207
0	R 16	57.11.3332		3k3	MF, 1%, 0207
0	R 17	57.11.3472		4k7	MF, 1%, 0207

ZAT 12 Feb. 1999

	1. Issue 19.Jan.1999 by ZT	Last Change	by ZT	Page 2 / 3
STUDER	CHANGE-OVER UNIT POWER PACK		PL	1.918.074.00 00

Parts List**STUDER Professional Audio AG**

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 18	not used		OR0	MF, 0207
0	R 19	57.11.3000		OR0	MF, 0207
0	R 20	57.11.3000		OR0	MF, 0207
0	R 21	57.11.3000		OR0	MF, 0207
0	R 22	57.11.3000		OR0	MF, 0207
0	R 23	57.11.3000		OR0	MF, 0207

End of List

Comments

ZAT 12.Feb.1999

	1. Issue 19.Jan.1999 by ZT	Last Change	by ZT	Page 3 / 3
STUDER	CHANGE-OVER UNIT POWER PACK	PL	1.918.074.00	00

SIGNALISATIONS-TREIBEREINHEIT

Bestell-Nr. 1.918.203

Anwendung

Die vom Mischpult zur Verfügung gestellte Speisespannung für optische Signalisationseinrichtungen ist zur Speisung von Tastenbeleuchtungen und Led-Statusanzeigen ausgelegt, und demzufolge in der Belastbarkeit beschränkt.

In Erweiterung der Mischpult-Signalisationseinrichtung mit der SIGNAL DRIVE UNIT 1.918.203 können Wand-, resp. Türleuchten mit grösserer Wirksamkeit betrieben werden. Die Lampen-Speisespannung (24V) wird dabei separat aufbereitet und lässt sich getrennt für Rotlicht- (ON AIR), Grünlicht- (READY) und Gelb-, resp. Weisslicht- (CALL) Signalisation schalten. Die pultinterne Signalisationsspannung wird dabei kaum belastet, da sie lediglich als Steuerspannung der kontaktlosen Halbleiterrelais (SOLID STATE RELAYS) dient. SOLID STATE RELAYS arbeiten frei von Stör-Schaltimpulsen; eine im Studiobetrieb wichtige Voraussetzung.

Installation

Der Aufbau der Treibereinheit ist für den 19"Rack-Einbau (2E) ausgelegt, kann jedoch Lageunabhängig an jeden zur Verfügung stehenden Ort installiert werden.

Anschliessen

Netzspannung -> siehe Abbildung unten

- Anpassung an örtliche Netzspannung durch entsprechende Verdrahtung der Transformator-Anschlussklemmen [1].
- Primärsicherung [2]: 110 VAC=1.2AT / 220 VAC=0.63AT
- Netzanschluss an Klemmen [3].

Lampen-Speisespannung

Insgesamt vier Anschlussgruppen (Klemmen [4...7]) stellen je einen Anschluss für die separat schaltbaren Ausgänge für Rotlicht, Grünlicht und Weiss-(Gelb-)licht zur Verfügung. Die Anschlusskapazität ist auf maximal 25 einzelne SOFFITE S8-Lampeneinsätze (24V/5W) beschränkt.

Steuerspannung

Die SIGNAL DRIVE UNIT arbeitet mit Steuerspannungen in einem Bereich von -4V...-30V. Über den 15pol. D-Stecker [8] werden die Ausgänge der Mischpult-Signalisationseinrichtung zugeführt.

SIGNALIZATION DRIVER UNIT

Order No. 1.918.203

Application

The supply voltage for visual signalization equipment, made available by the mixing console, is designed for illuminating push buttons and driving status LEDs which means that the load rating is limited.

When the mixing console signalization equipment is expanded with the SIGNAL DRIVE UNIT 1.918.203, wall and door lights can be operated more effectively. The lamp supply voltage (24 V) is prepared separately and can be controlled separately for signalization with red (ON AIR), green (READY), and yellow or white (CALL) lamps. The signalization voltage inside the mixer is hardly loaded because it is only used as the control voltage for noncontacting SOLID STATE relays. This type of relay does not produce any switching clicks which is a prerequisite for studio applications.

Installation

The driver unit is designed for 19" rack installation (2E), however, it can be installed in any orientation in any other available mounting location.

Connection

Line voltage -> refer to illustration below

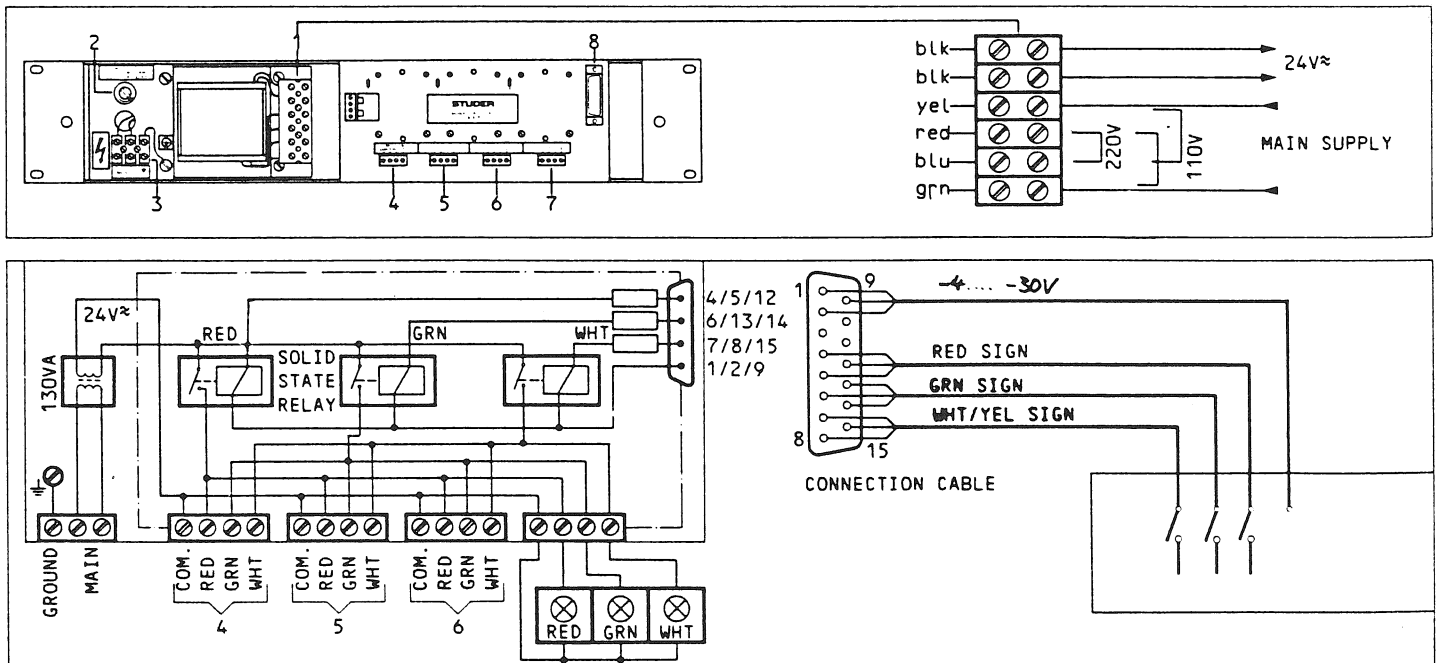
- Matching to local line voltage by corresponding wiring of the transformer terminals [1].
- Primary fuse [2]: 110 VAC=1/2A slow; 220 VAC=0.63A slow
- Power connection to terminals [3].

Lamp supply voltage

Four terminal groups (terminals [4...7]) provide one connection each for the separately controllable outputs for red, green, and white (yellow) light. The connected load is limited to 25 individual SOFFITE S8 lamp inserts (24V/5W).

Control voltage

The SIGNAL DRIVE UNIT operates with a control voltage within the range of -4 V to -30 V. The outputs of the mixing console signalization equipment is supplied via the 15-pin D-type connector [8].



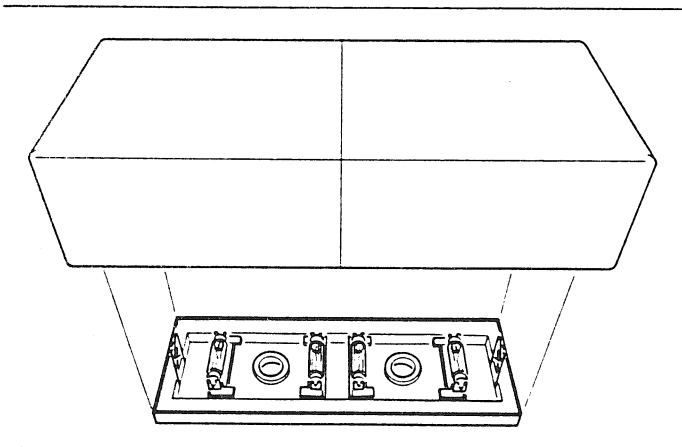
Signalisations-Leuchten (Zubehör)

Zur Ergänzung der Signalisations-Treibereinheit stehen Leuchten in den gängigen Signalisationsfarben Rot, Grün und Weiss (auch für Gelb) zur Verfügung. Sie eignen sich zur Wandmontage in Studio, Regie, und weiteren exponierten Stellen (Zutrittswarnung über Türen).

Die Speisung erfolgt mit 24V und einem Leistungsbedarf von 5 Watt je eingesetzter SOFFITE S8 Glühlampe. Die Anzahl eingesetzter Glühlampen in einer Leuchte, hängt von deren Farbe ab (Ausgleich der Leuchtkraft).

Alle Leuchten weisen dieselben Abmessungen auf, inklusive der DUAL-Wandleuchte ROT+GRÜN, deren Farbsektoren separat ansteuerbar sind.

Varianten	Bestellnummer
A Wandleuchte ROT (ON AIR) bestückt mit 2 SOFFITE-Lampen 10 Watt*	10.010.102.10
B Wandleuchte GRÜN (READY) bestückt mit 3 SOFFITE-Lampen 15 Watt*	10.010.102.11
C Wandleuchte WEISS (CALL) bestückt mit 2 SOFFITE-Lampen 10 Watt*	10.010.102.12
D Dual-Wandleuchte ROT+GRÜN bestückt mit 2x2 SOFFITE-Lampen 20 Watt*	10.010.102.13
* Über die SIGNAL DRIVE UNIT 1.918.203 sind maximal 25 Stück SOFFITE-Lampen à 5 Watt zu bedienen (gilt nur bei gleichzeitiger Aktivierung aller Lampen).	
Ersatzlampe SOFFITE S8 24V/5W für alle Leuchten-Typen	10.010.102.14



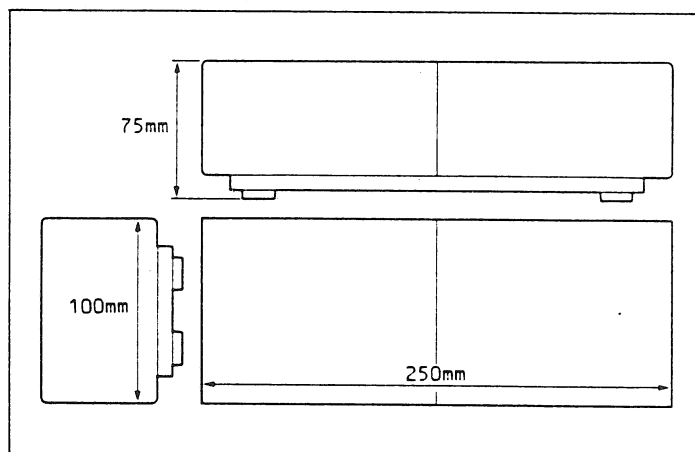
Signalization lights (accessory)

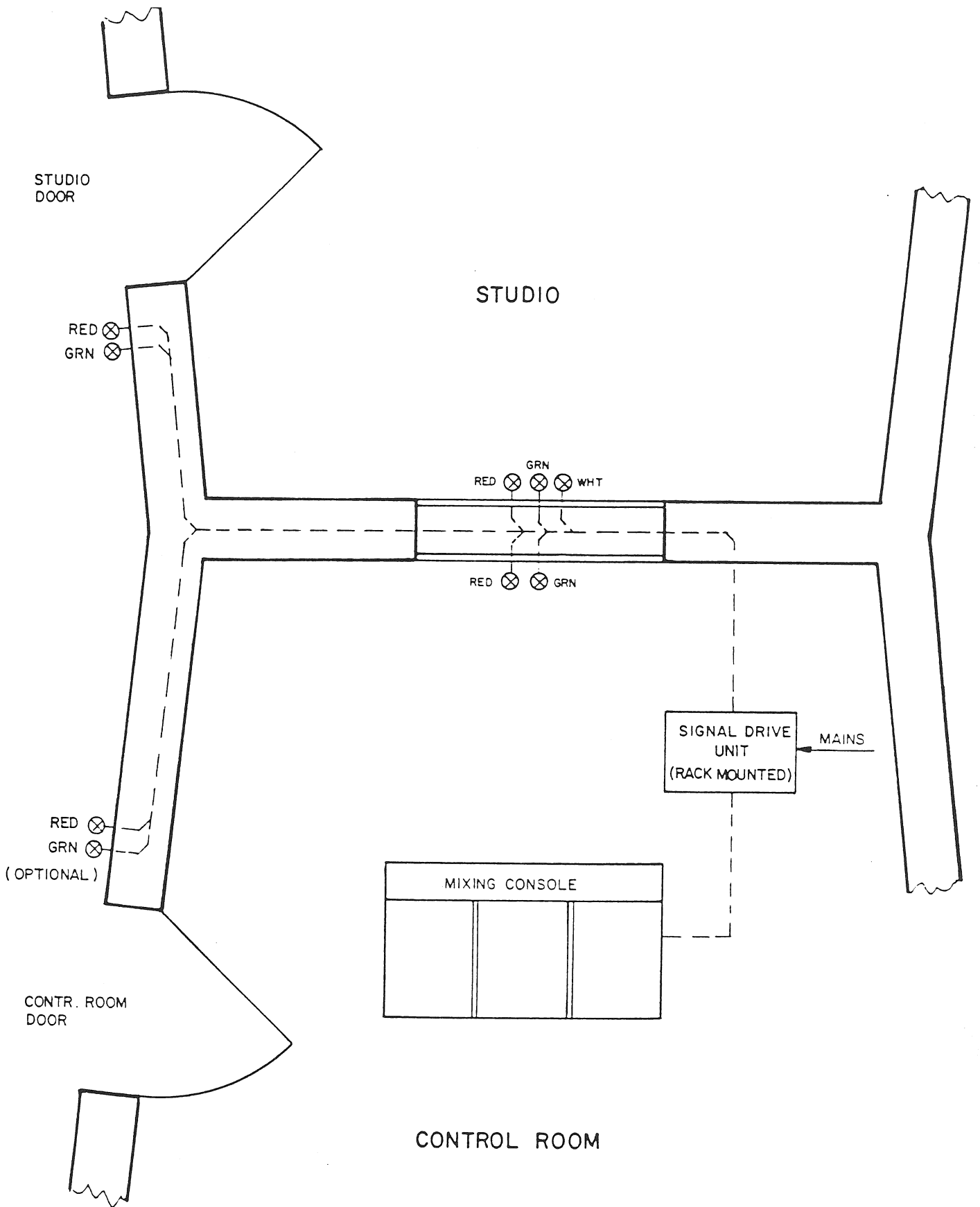
Lights in the commonly used colors red, green and white (also yellow) are available for use in conjunction with the signalization drive unit. These are suited for wall-mounting in the studio, control room, and other exposed locations (access warning above doors).

These lamps are supplied with 24 V and consume 5 W per inserted SOFFITE S8 incandescent lamp. The number of incandescent lamps to be inserted in light depends on their color (compensation of their luminous power).

All lights have the same dimension, including the DUAL wall-mount light RED+GREEN, the color sectors of which can be controlled separately.

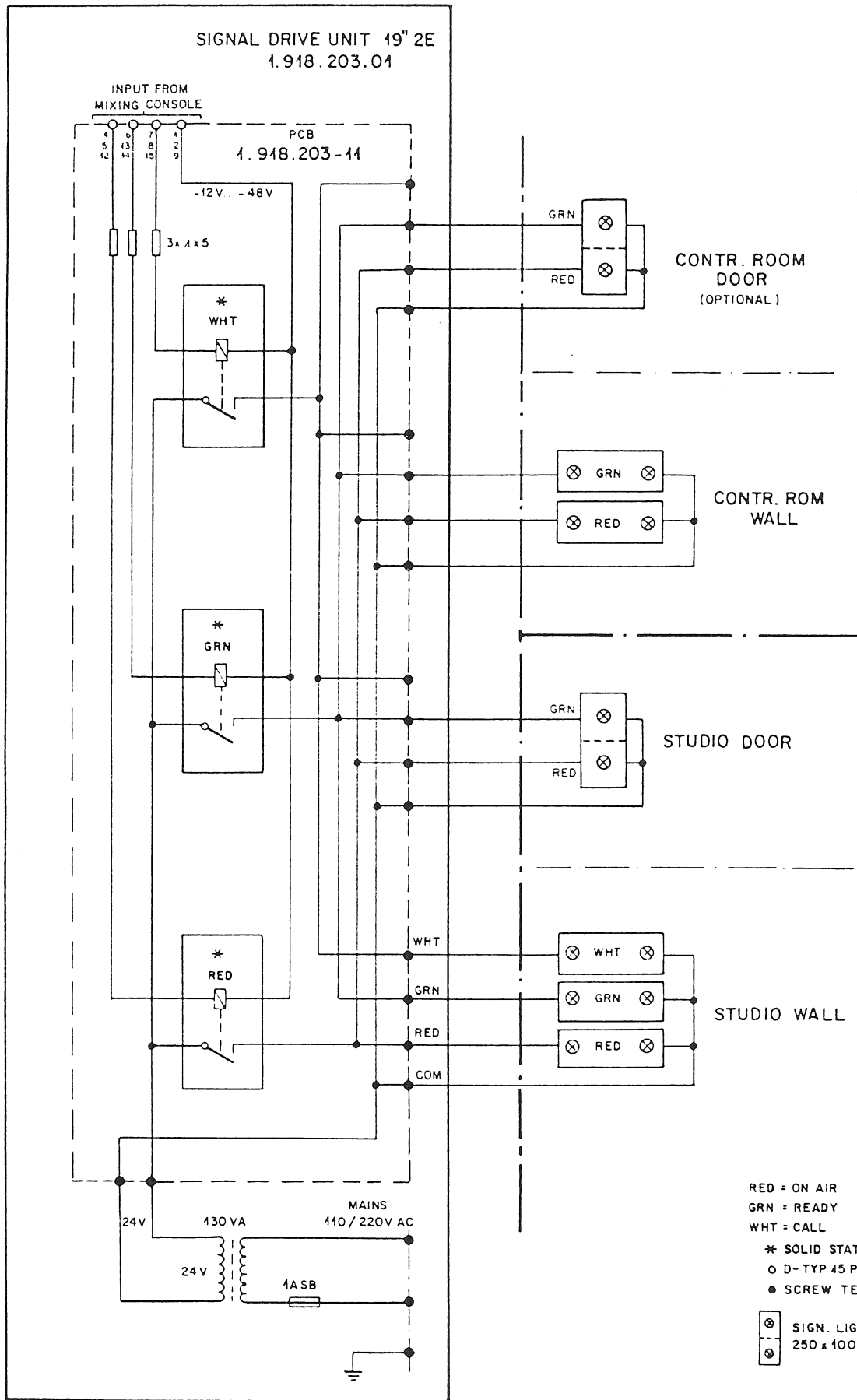
Models	Part number
A Wall light RED (ON AIR) fitted with 3 SOFFITE Lamps 15 W*	10.010.102.10
B Wall light GREEN (READY) fitted with 2 SOFFITE Lamps 10 W*	10.010.102.11
C Wall light WHITE (CALL) fitted with 2 SOFFITE Lamps 10 W*	10.010.102.12
D Dual wall light RED+GREEN fitted with 2x2 SOFFITE lamps 20W*	10.010.102.13
* Up to 25 SOFFITE lamps with a consumption of 5 W each can be operated via the SIGNAL DRIVE UNIT 1.918.203 (only applicable if all lamps are switched on concurrently).	
Spare SOFFITE lamp S8 24 V/5W for all types of lights	10.010.102.14





DATE: 26. 6. 84						
SIGN: <i>We</i>						
STUDER REGENSDORF ZÜRICH	EXAMPLE FOR STUDIO-SIGNALISATION RED/GRN					SC 1.918.203/1

SIGNAL DRIVE UNIT 19" 2E
1.918.203.01



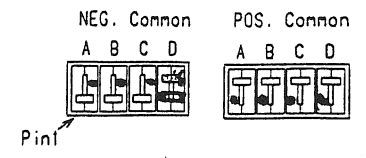
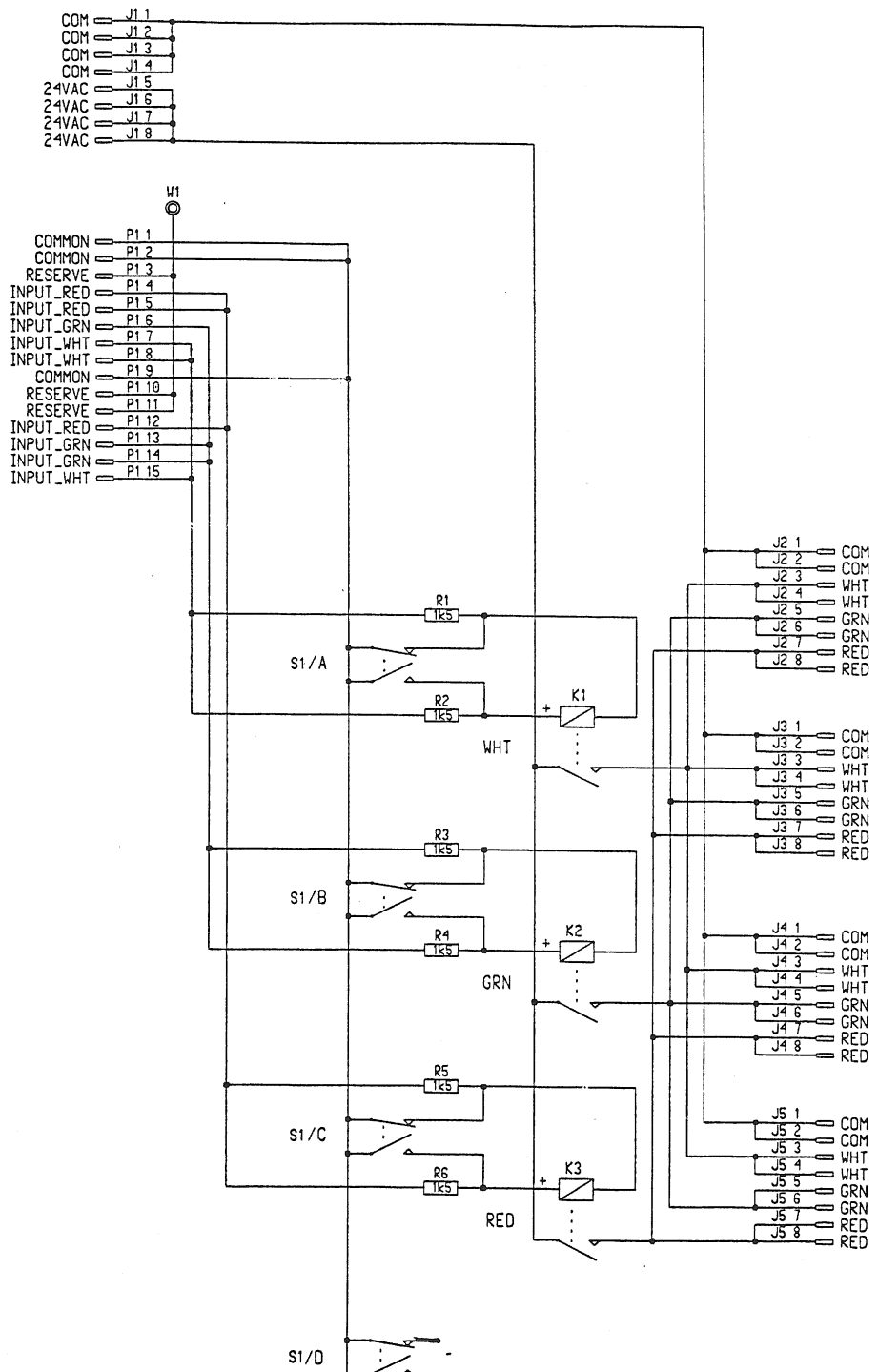
RED = ON AIR
GRN = READY
WHT = CALL
* SOLID STATE RELAYS
o D-TYP 45 P. CONN. male
● SCREW TERMINAL

⊗ SIGN. LIGHT
250 x 100 x 75 mm

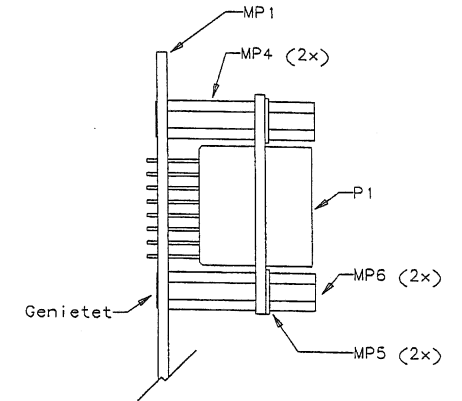
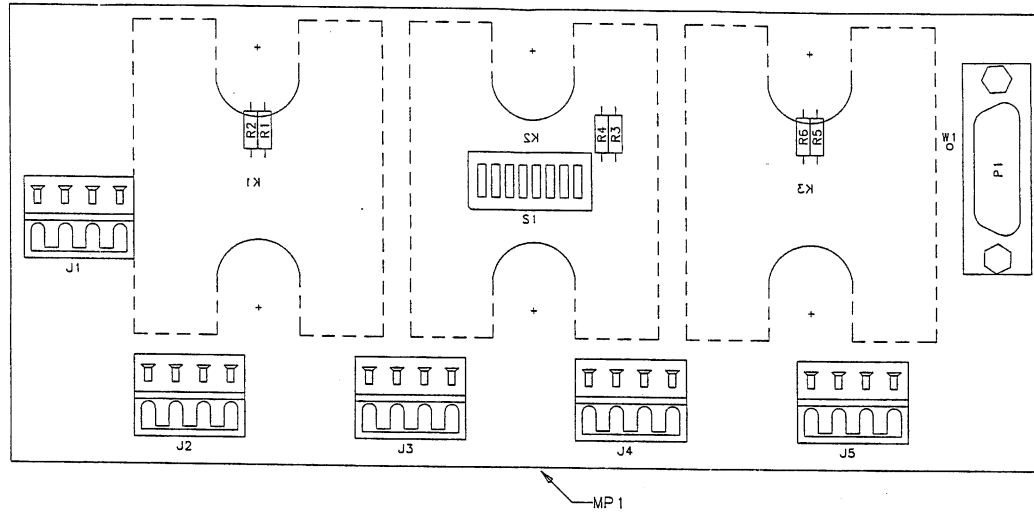
⊗ SOFFITE S8 LAMP.
24V/5W

DATE:	25.6.84	49.8.83	7.3.85		
SIGN:	<i>WAC</i>	<i>WAC</i>	<i>WAC</i>		
STUDIOER REGENSDORF ZURICH	„RED“ „GRN“ SIGNAL DRIVE UNIT				SC 1.918.203

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Ansicht Bestueckungsseite



MP2...MP3 nach Fabrikationsmuster aufgeklebt

Accompanying documents: Zugehoerige Unterlagen: PL	General tolerance: Freimasstoleranz: BV613	Scale: Masstab: 1:1	Edition Ausgabe 23.02.1999	AF	.	.	Ⓞ
Substitute for: Ersatz fuer:			Date Datum	Visa Gez.	Checked Gepr.	Seen Ges.	Index
			Page: Seite:	1 / 1			
STUDER REGENSDORF	Description: Benennung:	SIGNALLING DRIVER UNIT		Z	Number: Nummer:	1.918.203.00 ⁸¹	

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Parts List

STUDER Professional Audio AG

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
0	J 1	53.05.0140	4 pcs		KLEMME 4 polig
0	J 2	53.05.0140	4 pcs		KLEMME 4 polig
0	J 3	53.05.0140	4 pcs		KLEMME 4 polig
0	J 4	53.05.0140	4 pcs		KLEMME 4 polig
0	J 5	53.05.0140	4 pcs		KLEMME 4 polig
0	K 1	not used		not used	not used 120D10
0	K 2	not used		not used	not used 120D10
0	K 3	not used		not used	not used 120D10
0	MP 1	1.918.203.13	1 pce		SIGNALLING RELAY PCB
0	MP 2	1.918.203.10	1 pce		Nr.-Etikette 5x20
0	MP 3	not used	1 pce	not used	not used Bezeichnung Streife
0	MP 4	1.010.055.22	2 pcs		NIETMUTTER, M 3 * 11
0	MP 5	24.16.2030	2 pcs		FAECHERSCHEIBE A D 3.2
0	MP 6	1.010.035.54	2 pcs		VERIEGELUNGS-GEWINDEBOLZEN
0	P 1	54.13.0032		15p	P D-TYPE, 15 POL.PRINT
0	R 1	57.11.3152		1k5	MF, 1%, 0207
0	R 2	57.11.3152		1k5	MF, 1%, 0207
0	R 3	57.11.3152		1k5	MF, 1%, 0207
0	R 4	57.11.3152		1k5	MF, 1%, 0207
0	R 5	57.11.3152		1k5	MF, 1%, 0207
0	R 6	57.11.3152		1k5	MF, 1%, 0207
0	S 1	55.01.0181			SZ SCHIEBE, 4*U, PCB, DIL

End of List

Comments

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STUDER	STUDIO SIGNALISATIONS EINHEIT	PL	1.918.203.00	00

Stückliste

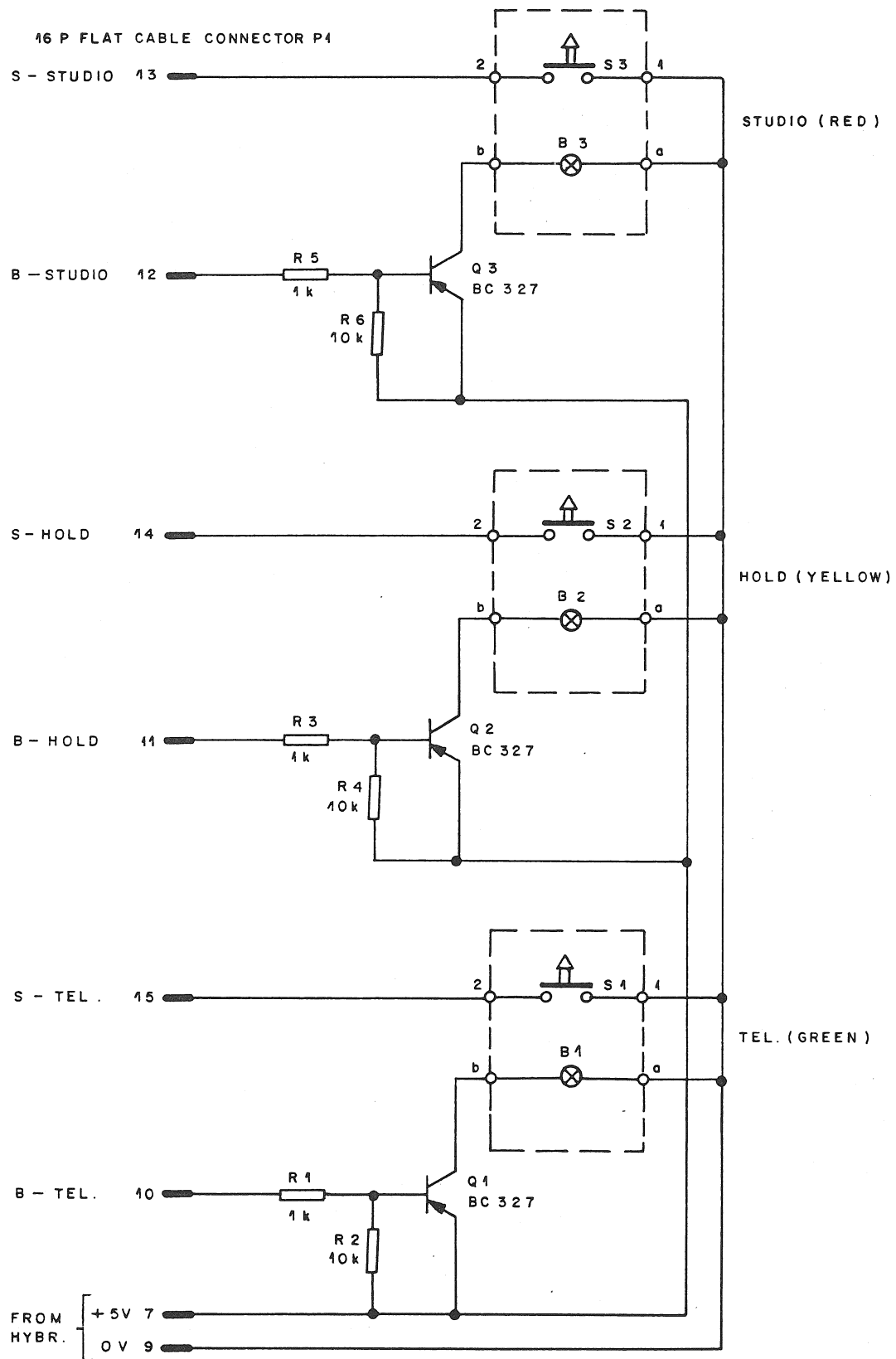
STUDER Professional Audio AG

Part No.	Typ	Qty.	Value/Nam	Part Description
1.010.035.54		2 pcs		VERIEGELUNGS-GEWINDEBOLZEN
1.010.055.22		2 pcs		NIETMUTTER, M 3 * 11
1.918.203.10		1 pce		Nr.-Etikette 5x20
1.918.203.13		1 pce		SIGNALLING RELAY PCB
24.16.2030		2 pcs		FAECHERSCHEIBE A D 3.2
53.05.0140		20 pcs		KLEMME
54.13.0032		1 pce	15p	P D-TYPE, 15 POL.PRINT
55.01.0181	S	1 pce		SZ SCHIEBE, 4*U, PCB, DIL
57.11.3152	R	6 pcs	1k5	MF, 1%, 0207

End of List

Comments

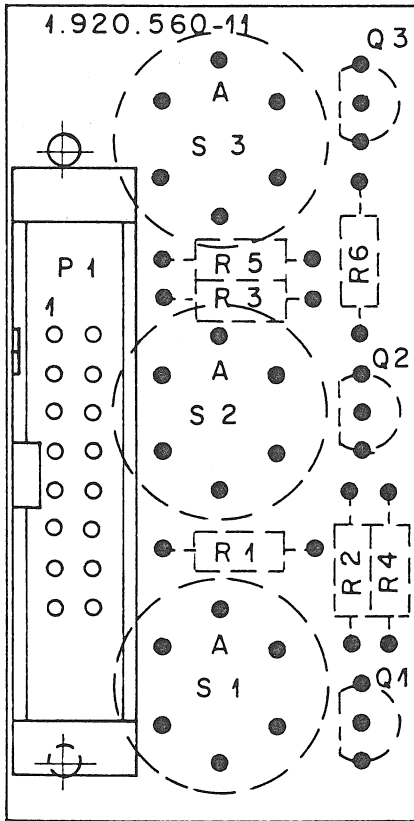
	Creation Date 11.Feb.1999	Last Change	Issuer AF	Page 1 / 1
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S 1 ... S 3 = EAO 31.425 / 31.435 / 31.455
 B 1 ... B 3 = 5V / 60 mA

① 29.5.92 <i>tw</i>				
STUDER REGENSDORF ZÜRICH	DSP HYBRID REMOTE CONTROL			SC 1.920.560

A
B
C
D
E
F



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Werkstoff	Norm-Nr.:	Oberfläche	Güte:	Änderung						③	
	DIN-Bez.:		Beh.:								②
	Abmessung:										
Zugehörige Unterlagen:		Freimasstoleranz:	Maßstab:	Ausgabe	21.8.92	<i>A. Ho</i>				④	
PL		±	2 : 1	Datum	Gez.	Gepr.	Ges.	Index			
Ersatz für:		Ersetzt durch:		Kopie für:							
STUDER REGENSDORF ZÜRICH		Benennung: DSP HYBRID REM. CONTR.			Nummer: 1.920.560-00						

