

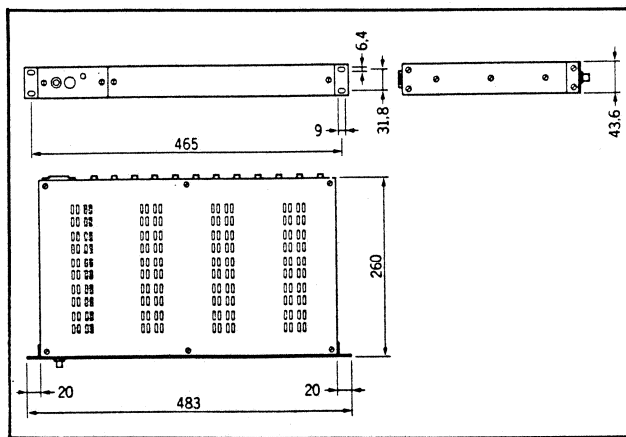
PROFESSIONAL AUDIO COMPONENTS

19 INCH MOUNTING FRAME FOR STEREO BALANCING UNITS

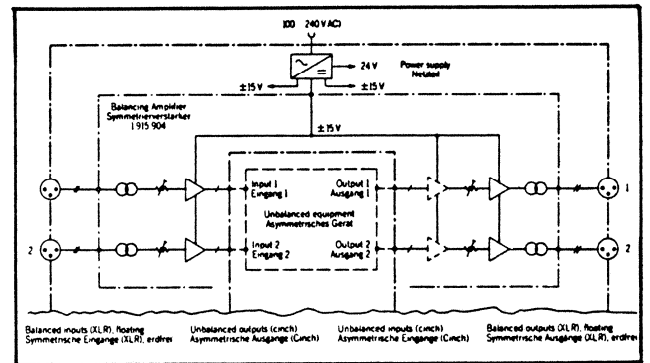
To change from an unbalanced to a balanced (floating) line configuration is a frequent requirement in professional audio work, when non-professional or consumer-type recorder/reproducers or signal processing equipment have to be connected into a balanced system.

To accommodate up to 3 stereo balancing units on EURO-cards, a separate 19" mounting frame is available.

Detailed specifications of the individual balancing circuit on a plug-in card are contained in sheet 915-8.



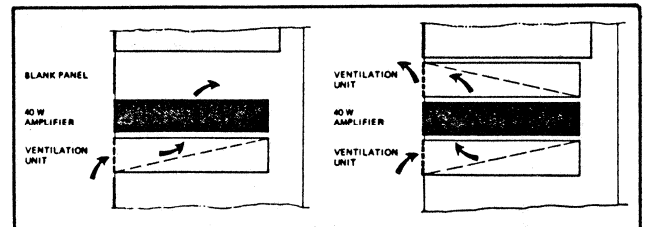
The mounting frame contains a power supply and pre-wired edge-connectors for three stereo balancing plug-in cards. The rear panel carries the required XLR and phono-connectors for connection of six balanced to unbalanced to balanced audio channels. The electric current inlet is also accommodated on the mounting frame's rear panel.



If required, such a set-up can also be used for level boosting in stereo systems or to combine stereo signals into a mono output. For details on these applications, please refer to sheet 915-8.

The power supply section consists of the mains transformer with secondary windings and associated bridge-type rectifiers for regulated ± 15 V to each EURO-card. 24 V of unregulated DC for loads up to 0.2 A are also available from this supply, however, this output is not wired to any socket.

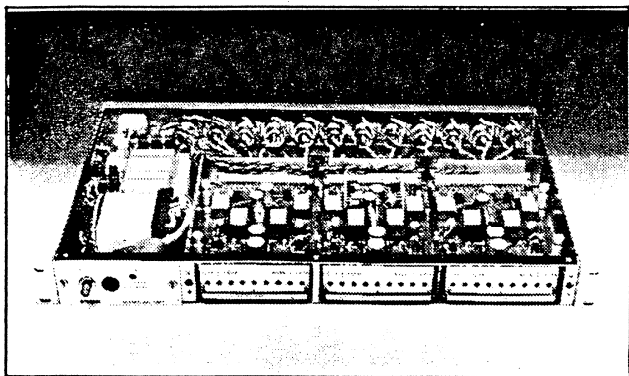
A voltage selector permits operation on electrical line voltages of 100 V, 120 V, 140 V, 200 V, 220 V and 240 V $\pm 10\%$, 50 or 60 Hz.



To ensure convection cooling when installing this unit into an equipment rack adjacent to other heat generating equipment, use the ventilation unit 1.918.119.00 as described on sheet 918-2.

Ordering Information

1.918.101.00	19" Frame with Power Supply for Balancing Units
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Note

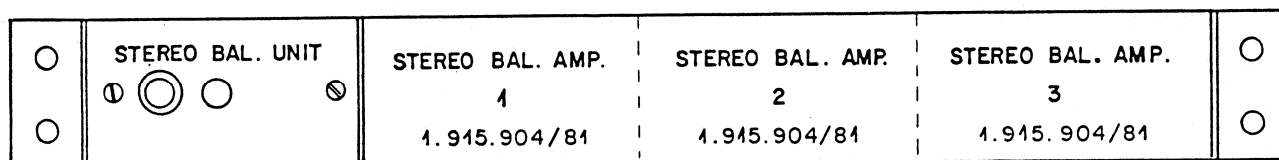
This mounting frame can also be ordered already equipped with one, two or three balancing units by specifying one of the following order numbers:

75.700.89212/...89422/...89632.

Symmetriereinheit

19" Kartenträger 1.918.101 mit eingebautem Speisgerät;
verdrahtet für drei stereo Symmetrierverstärker 1.915.904-81

Vorderansicht:



Balancing Unit

19" card frame 1.918.101 with built-in power supply;
wired for three stereo balancing amplifiers 1.915.904-81

Front view:

Die vordere Abdeckplatte ist in 2 Teile unterteilt:

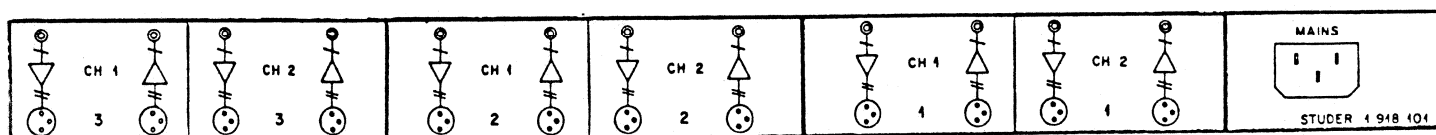
- Abdeckplatte der Europakarten
- Abdeckplatte des Spannungswählers

The frontcover consists of 2 sections:

- Cover of europe PCB-section
- Cover of mains voltage selector

Rückansicht:

Rear view:



Stecker:

Symm. Leitungseingänge: XLR Einbaubuchse (weiblich)
Symm. Leitungsausgänge: XLR Einbaustecker (männlich)
Unsymm. Ein- und Ausgänge: Cinch Phono-Buchse

Connectors:

Bal. line input: XLR female
Bal. line output: XLR male
Unbal. in-and outputs: Cinch phono sockets

TECHNISCHE DATENVerstärkerteil 1EINGANG

Symmetrisch, erdfrei	
Eingangsimpedanz	> 10 kOhm
Max. Eingangspegel	+ 24 dBu

AUSGANG

Unsymmetrisch,	
Ausgangsimpedanz	< 100 Ohm
Min. Lastwiderstand	> 600 Ohm
Max. Ausgangspegel	+ 20 dBu

DAEMPfung

Grob	0dB; -15dB
Fein	0 ... -15dB

Verstärkerteil 2EINGANG

Asymmetrisch	
Eingangsimpedanz	> 5 kOhm
Max. Eingangspegel	+ 20 dBu

AUSGANG

symmetrisch, erdfrei	
Ausgangsimpedanz	< 50 Ohm
Max. Lastwiderstand	> 200 Ohm
Max. Ausgangspegel	+ 24 dBu

VERSTÄRKUNG

Grob	14dB; 30dB
Fein	0... 17dB

ALLGEMEIN

Frequenzgang	30Hz...16kHz	+ 0,2 dB
Klirrfaktor		
Verstärker 1	30Hz...16kHz	< -85dB
Klirrfaktor		
Verstärker 2	30Hz...16kHz	< -80dB

Fremdspannung
(B=23kHz)

Verstärker 1 (- 6dB Verstärkung)

Abstand bei +6dBu Leitungspegel > 100dB

Fremdspannung
(B=23kHz)

Verstärker 2 (+ 6dB Verstärkung)

Abstand bei +6 dBu Leitungspegel > 100dB

SPEISUNG

Speisespannung	+ 15 V
Leerlaufstrom	70 mA
Max. Strom bei 200 Ohm +24 dBu pro Kanal	170 mA

MECHANISCHE DATEN

Abmessungen "Europakarte"	100x160 mm
Steckersystem	DIN 41612 Typ B
Breite	32mm, 7 M
Gewicht	380 gr

SPECIFICATIONSAmplifier part 1INPUT

Balanced, floating	
Input impedance	> 10 kOhm
Max. input level	+ 24dB

OUTPUT

Output impedance	< 100 Ohm
Max. load	> 600 Ohm
Max. output level	+ 20 dBu

ATTENUATION

Coarse	0dB; -15dB
Fine	0... -15dB

Amplifier part 2INPUT

Unbalanced	
Input impedance	> 5 kOhm
Max. Input level	+ 20dBu

OUTPUT

balanced, floating	
Output impedance	< 50 Ohm
Max. load	> 200 Ohm
Max. output level	+ 24dBu

GAIN

Coarse	14dB; 30dB
Fine	0... 17dB

GENERAL

Frequency response	30Hz...16kHz	+ 0,2 dB
THD Amplifier 1	30Hz...16kHz	< -85dB
THD Amplifier 2	30Hz...16kHz	< -80dB

Noise (B=23Hz)(Amplifier 1 - 6dB Gain)

Signal to noise ratio at +6dBu
Line level > 100 dB

Noise (B=23Hz)(Amplifier 2 + 6dB Gain)

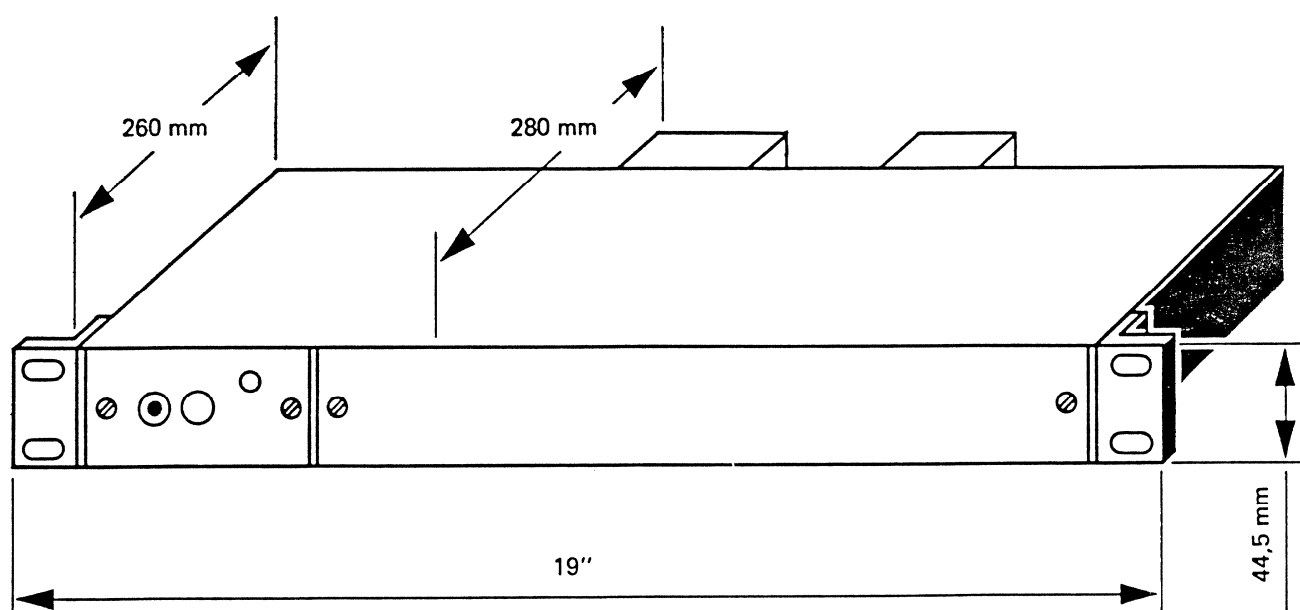
Signal to noise ratio at +6dBu
Line level > 100 dBSUPPLY

Supply voltage	+ 15 V
idle current	70 mA
Max. current at 200 Ohm + 24 dBu / channel	170 mA

DIMENSIONS

" EUROPE " PCB	100x160 mm
Connector system	DIN 41612 type B
Width	32mm, 7 M
Weight	380 gr

2...6 CH BALANCING UNIT 1.918.101



Gewicht:
ca. 5,4 kg (Maximalbestückung)
ca. 4 kg (Rack-Einschub)

Weight:
approx. 5.4 kg (fully equipped)
approx. 4 kg (card frame)

Technische Beschreibung

Die Symmetriereinheit 1.918.101 ermöglicht bis zu drei unsymmetrische Stereo-Einheiten (halbprofessionelle Ausrüstungen wie z.B. Limiter/Kompressoren, Tonbandgeräte, - Kassettengeräte etc.) an ein symmetrisches System anzuschliessen.

Das Gerät, eine 19" Einheit (19" x 44,5 mm x 260 mm) kann in ein 19" Rack eingebaut werden und enthält eine ± 15 VDC und 24 VDC Speisung.

Alle symmetrischen Ein- und Ausgänge sind mit XLR Einbaubuchse (Eingang: weiblich, Ausgang: männlich) und alle unsymmetrischen Ein- und Ausgänge mit Phono-Buchsen (Cinch) ausgerüstet.

Technical Description

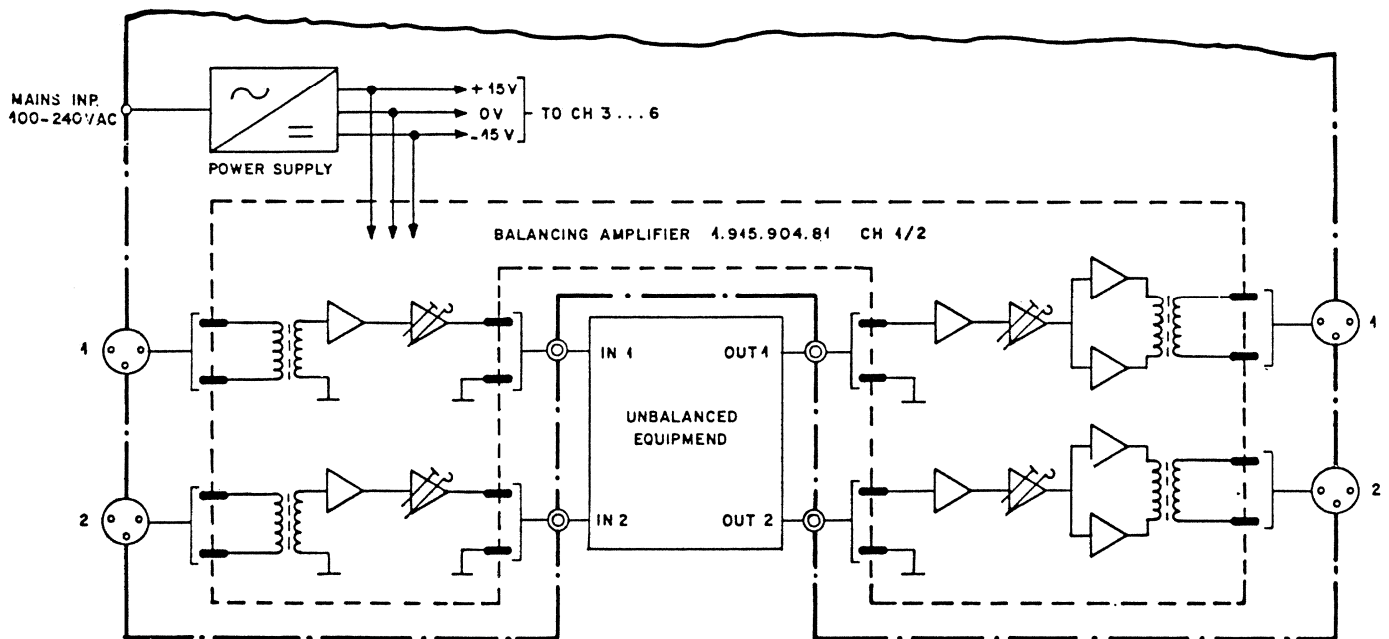
The balancing unit 1.918.101 is used to change up to three unbalanced stereo equipment (e.g. semi-professional equalizers, - limiter/compressors, - tape recorders, - cassette recorders etc.) into equipment with balanced and floating line in- and outputs.

The circuits, including a ± 15 VDC and 24 VDC power supply, are housed in a card frame of 19" x 44,5 mm x 260 mm. The frame can be mounted in a 19" rack.

All balanced in- and outputs are equipped with XLR-type connectors (inputs: female, outputs: male) and all unbalanced in- and outputs with phono sockets (cinch).

Blöckschaltbild

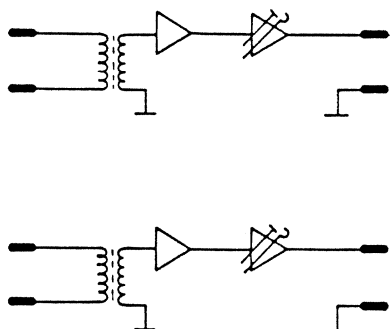
Block Diagram



SYMMETRIEVERSTÄRKER

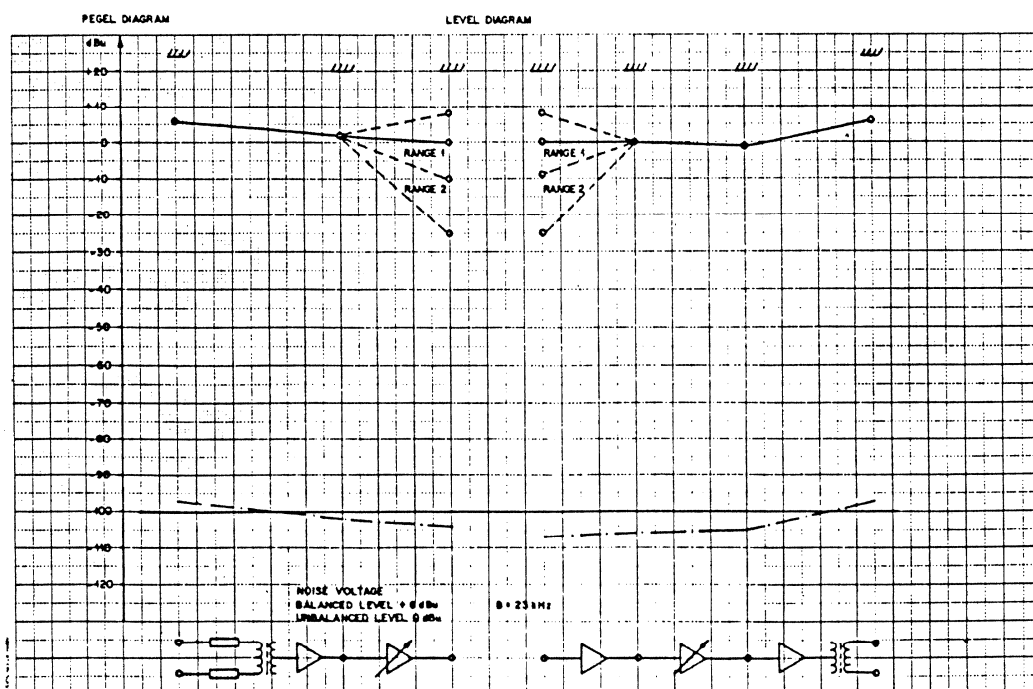
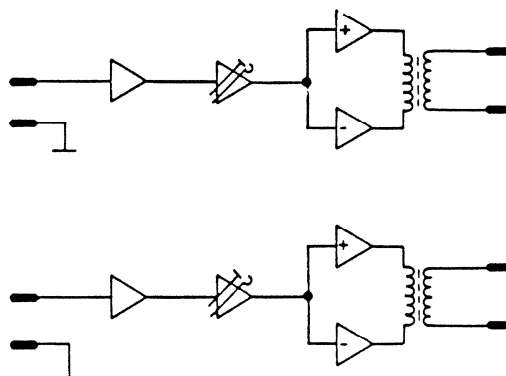
Der Symmetrieverstärker wird benutzt, um unsymmetrische Einheiten wie halbprofessionelle Ausrüstungen an ein symmetrisches System anzuschliessen, oder um unsymmetrische Einschleifpunkte zu symmetrieren.

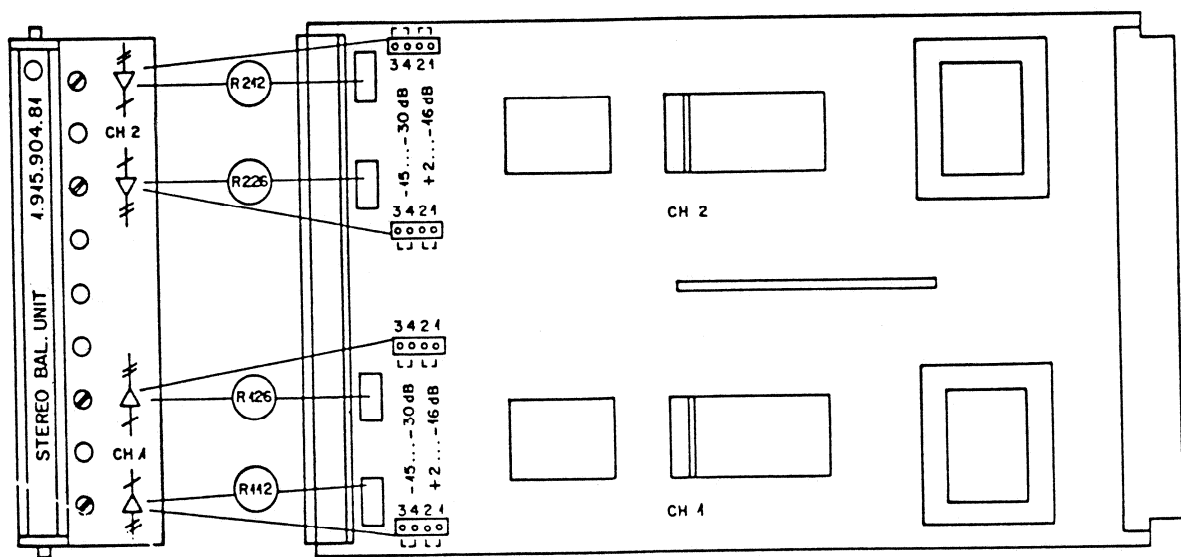
Die Karte besteht aus zwei identischen Schaltungen. Jede enthält einen Verstärker mit unsymmetrischem Eingang und symmetrischem, erdfreiem Ausgang sowie einen Verstärker mit symmetrischem, erdfreiem Eingang und unsymmetrischem Ausgang.

BLOCKSCHALTBILDSTEREO BALANCING AMPLIFIER

The balancing amplifier is used to connect unbalanced units such as semi-professional equipment to balanced inputs and outputs, or to connect unbalanced mixer insert points to balanced outputs.

This circuit board is equipped with two amplifier circuits each of which features its own amplifier with balanced and floating input and unbalanced output, and an amplifier with unbalanced input and balanced and floating output.

BLOCK DIAGRAM



SERVICE ANLEITUNG

STROMVERSORGUNG

Das Netzgerät 1.918.098 ist im Rack-Einschub 1.918.101 eingebaut.

TECHNISCHE DATEN:

Netzeingang:
100, 120, 140, 200, 240 V, 50...60 Hz
Netzschutz, 100...140 V:
400 mA träge
Netzschutz, 200...240 V:
200 mA träge
Sekundärsicherungen:
2 x 1 AT träge
Speisespannungen:
Audio ± 15 V, 0,5 A
Signalisation + 24 V, 0,2 A

WAHL DER EINGANGSSPANNUNG

- Frontabdeckung, linker Teil, lösen
- gewünschte Netzspannung einstellen
- Netzschutz kontrollieren
- Frontabdeckung wieder befestigen

SEKUNDAERSICHERUNGEN ERSETZEN

- Gehäusedeckel abschrauben (6 Schrauben)
- Sicherungen 1 A träge einsetzen

NETZKONTROLLAMPE ERSETZEN

- Am Netzschalter die rote Kalotte abziehen
- LED auswechseln

NETZTEIL REPARIEREN

- Gehäusedeckel abschrauben
- Netzteilprint inkl. Kühlprofil ausbauen

ERSATZTEILE

Netztransformator	1.022.519
Netzgerät komplett	1.918.099-81
Spannungsregler +15 V uA78M15	50.05.0253
Netzkontroll-LED	50.04.2129
Primärsicherung 200 mA	51.01.0110
Primärsicherung 400 mA	51.01.0113
Sekundärsicherung 1 AT	51.01.0117

SERVICE INSTRUCTIONS

POWER SUPPLY

The mains power supply 1.918.098 is built-in into the 19" frame 1.918.101.

SPECIFICATIONS

Power input:
100, 120, 140, 200, 220, 240 V, 50...60 Hz
Primary power fuse, 100...140 V:
400 mA (slow blow)
Primary power fuse, 200...240 V:
200 mA (slow blow)
Secondary fuses:
2 x 1 A (slow blow)
Supply voltages:
Audio ± 15 V, 0,5 A
Signaling + 24 V, 0,2 A

ADAPTION TO THE MAINS VOLTAGE

- remove front cover
- adjust voltage selector
- check primary power fuse
- refix front cover

REPLACEMENT OF SECONDARY FUSES

- remove frame cover (undo 6 screws)
- change fuses 1 A (slow blow)

REPLACEMENT OF POWER INDICATION LED

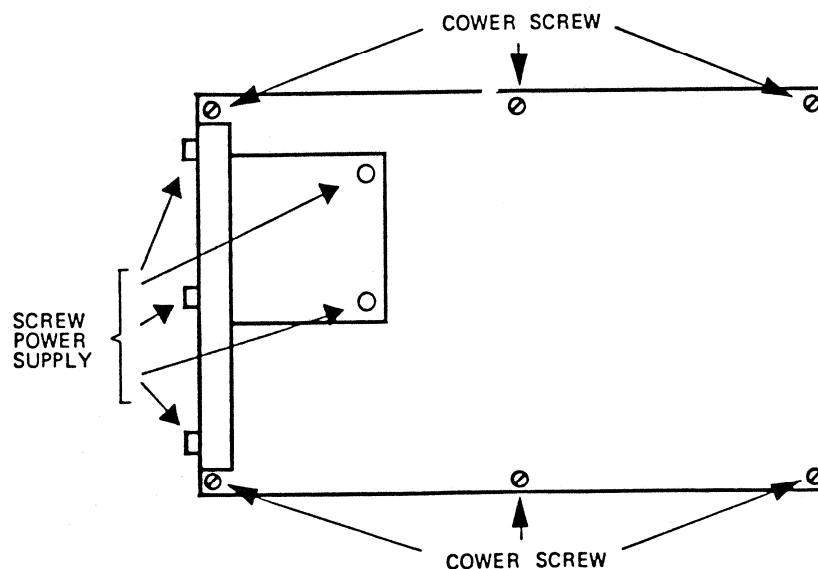
- remove red cap of the power switch
- change LED

REPAIR OF POWER SUPPLY

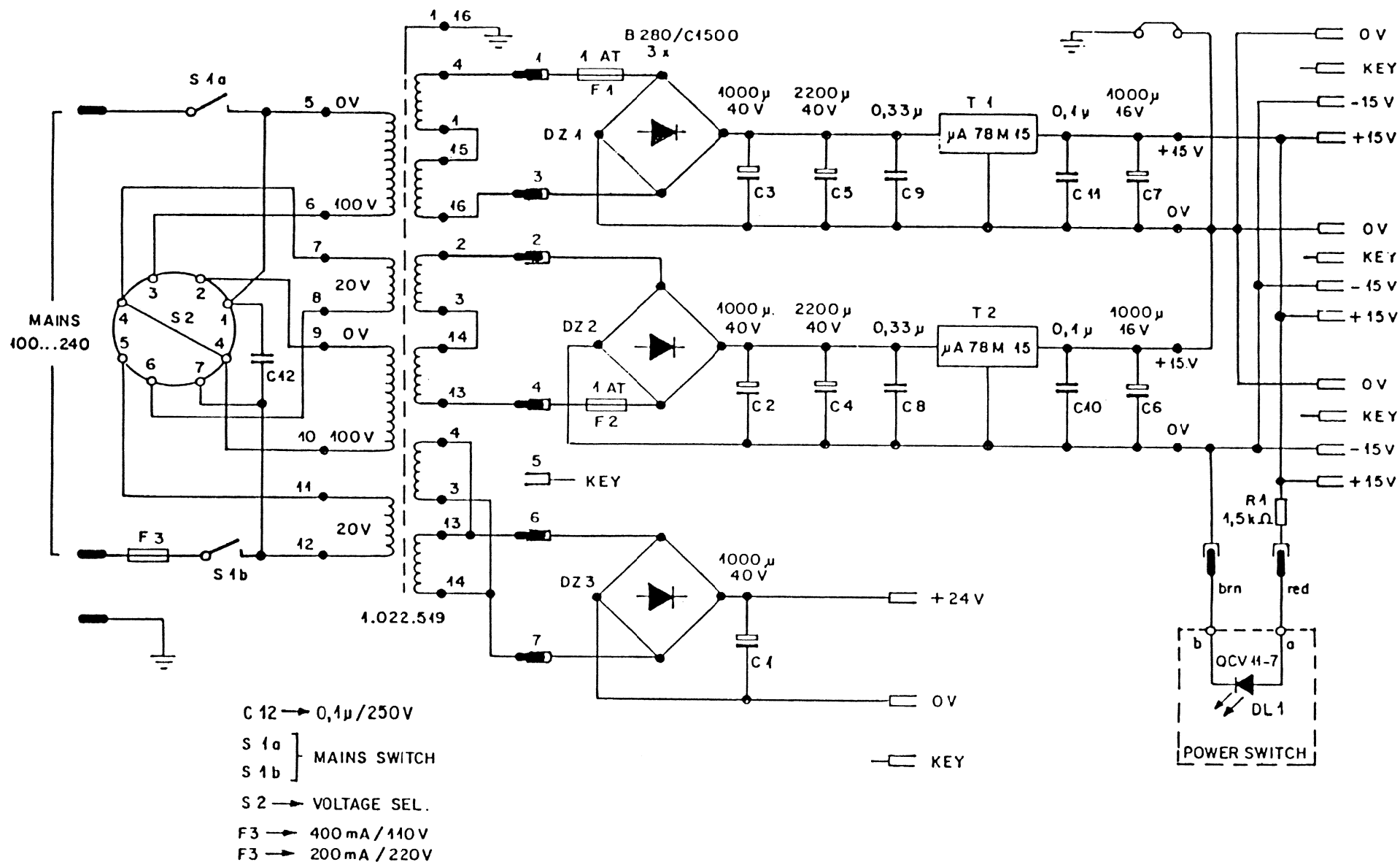
- remove frame cover (undo 6 screws)
- remove power supply p.c.b. including heat sink

SPARE PARTS

Mains transformer	1.022.519
Power supply cpl.	1.918.099-81
Voltage regulator +15 V uA78M15	50.05.0253
Power indicator LED	50.04.2129
Primary fuse 200 mA (slow blow)	51.01.0110
Primary fuse 400 mA (slow blow)	51.01.0113
Secondary fuse 1 A (slow blow)	51.01.0117



DATE:	5.4.85	REPLACES 4.918.098-81
SIGN:	llc	
STUDIEN REGENSDORF ZÜRICH	POWER SUPPLY	
	±15V/24V	
		1.918.098-00



B Drahtbrücke

T1, T2 78M15C

C1...C3 1000 μ 40V
C4, C5 2200 μ 40V
C6, C7 1000 μ 16V
C8, C9 0,33 μ
C10, C11 0,1 μ
R1 1,5 k Ω / 4W

XF1, XF2 5x20 Sicherungshalter
F1, F2 1 AT

DZ1, DZ2, DZ3 B250 C1500 Si

J1...J3
1 +15V
2 -15V
3 Key
4 0V

J4
1 +24V
2 0V
3 Key

J7
1 20V~
2 20V~
3 20V~
4 Key
5 20V~
6 20V~
7 20V~

Schild 1.918.098-04 aufgeklebt nach Fabrikationsmuster ①

Codierung: Schaltdraht 64.01.0408 ϕ 0,8x8mm
(muss 4mm vorstehen)

In	Buchsenleiste	J1	in	Kontakt	3
"	"	J2	"	"	3
"	"	J3	"	"	3
"	"	J4	"	"	3
"	"	J5	"	"	5

1.010.115-51

T1+T2 montiert
nach BV 632

50.20.0305 (2x)
50.20.0404 (2x) ④
1.010.098-27 (2x) ④
37.01.0101 (4x) ④
21.01.0355 (2x)

1.918.099-01

21.01.0353 (4x)
24.16.1030 (4x)
35.99.0104

Leiterbahn aufgetrennt

1.918.099-11

54.02.0471

1.169.200-50

1.010.041-22

Werkstoff	Norm-Nr.:	Oberfläche	Güte:		Änderung						③
	DIN-Bez.:		Beh.:								②
	Abmessung:					4.5.87	A.Ho	✓	✓	①	
Zugehörige Unterlagen:			Freimasstoleranz:	Maßstab:	Ausgabe	9.1.85	A.Ho	✓	✓	①	
AL			±	2 : 1	Datum	Gez.	Gepr.	Ges.	Index		
Ersatz für:			Ersetzt durch:		Kopie für:						
STUDER REGENSDORF ZÜRICH		Benennung: Power Supply ±15 V / 24 V				Nummer: 1.918.098-00					

B Drahtbrücke

T1, T2 78M15C

C1...C3 1000µ 40V
C4, C5 2200µ 40V
C6, C7 1000µ 16V
C8, C9 0,33 µ
C10, C11 0,1 µ
R1 1,5 kΩ / 4W

XF1, XF2 5x20 Sicherungshalter
F1, F2 1 AT

DZ1, DZ2, DZ3 B250 C1500 Si

J1...J3
1 +15V
2 -15V
3 Key
4 0V

J4
1 +24V
2 0V
3 Key

J7
1 20V~
2 20V~
3 20V~
4 20V~
5 Key
6 20V~
7 20V~

Schild 1.918.098-04 aufgeklebt nach Fabrikationsmuster ①

Codierung: Schaltdraht 64.01.0108 Ø0,8x8mm
(muss 4mm vorstehen)

In	Buchsenleiste	J1 in Kontakt	3
"	"	J2 "	3
"	"	J3 "	3
"	"	J4 "	3
"	"	J5 "	5

1.010.115-51

T1 + T2 montiert
nach BV 632

50.20.0305 (2x)
50.20.0404 (2x) ①
1.010.098-27 (2x) ①
37.01.0101 (4x) ①
24.01.0355 (2x)

1.918.099-01

1.010.081-43

24.01.0353 (4x)
24.16.1030 (4x)
35.99.0104

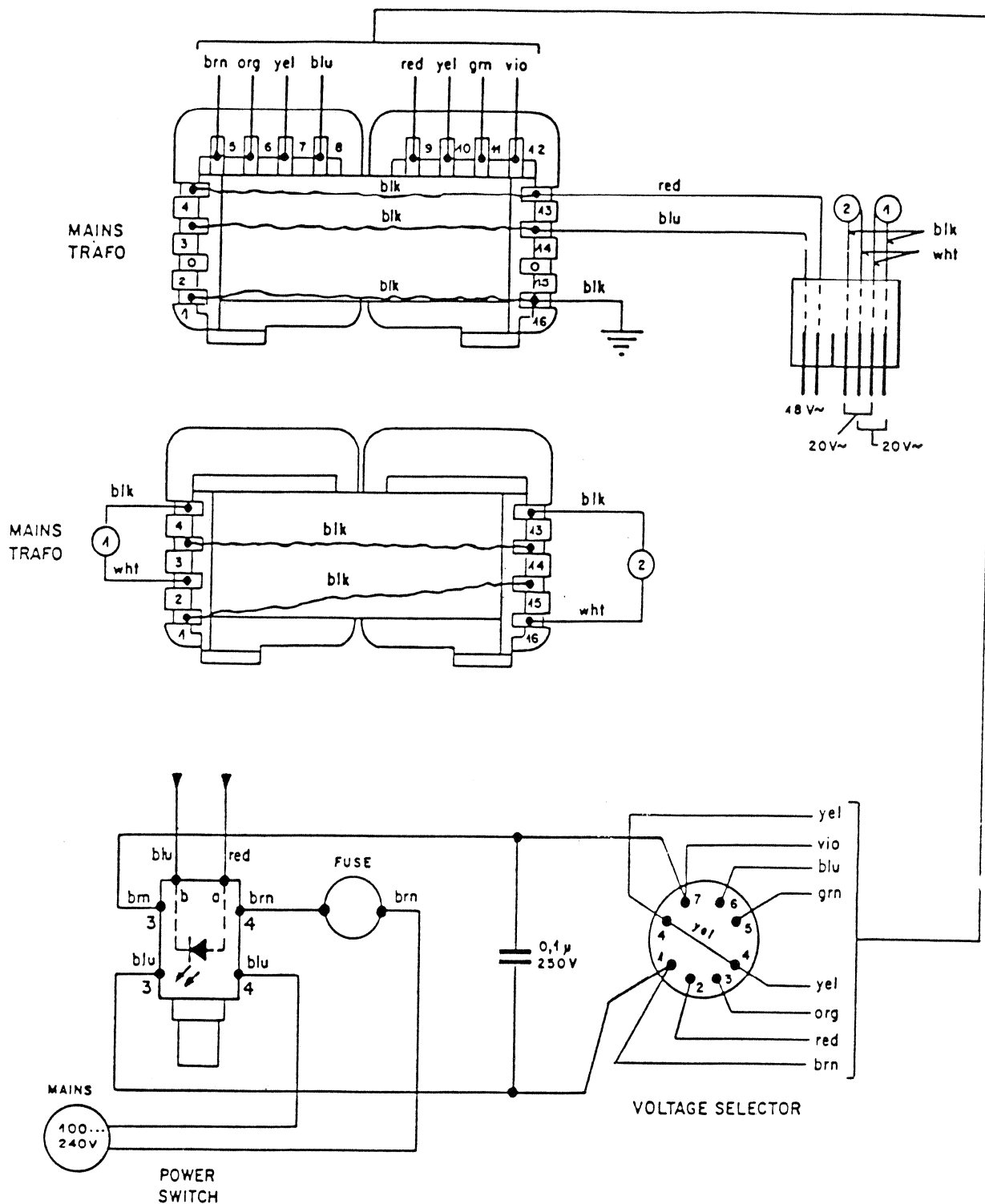
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54.02.0471

1.169.200-50

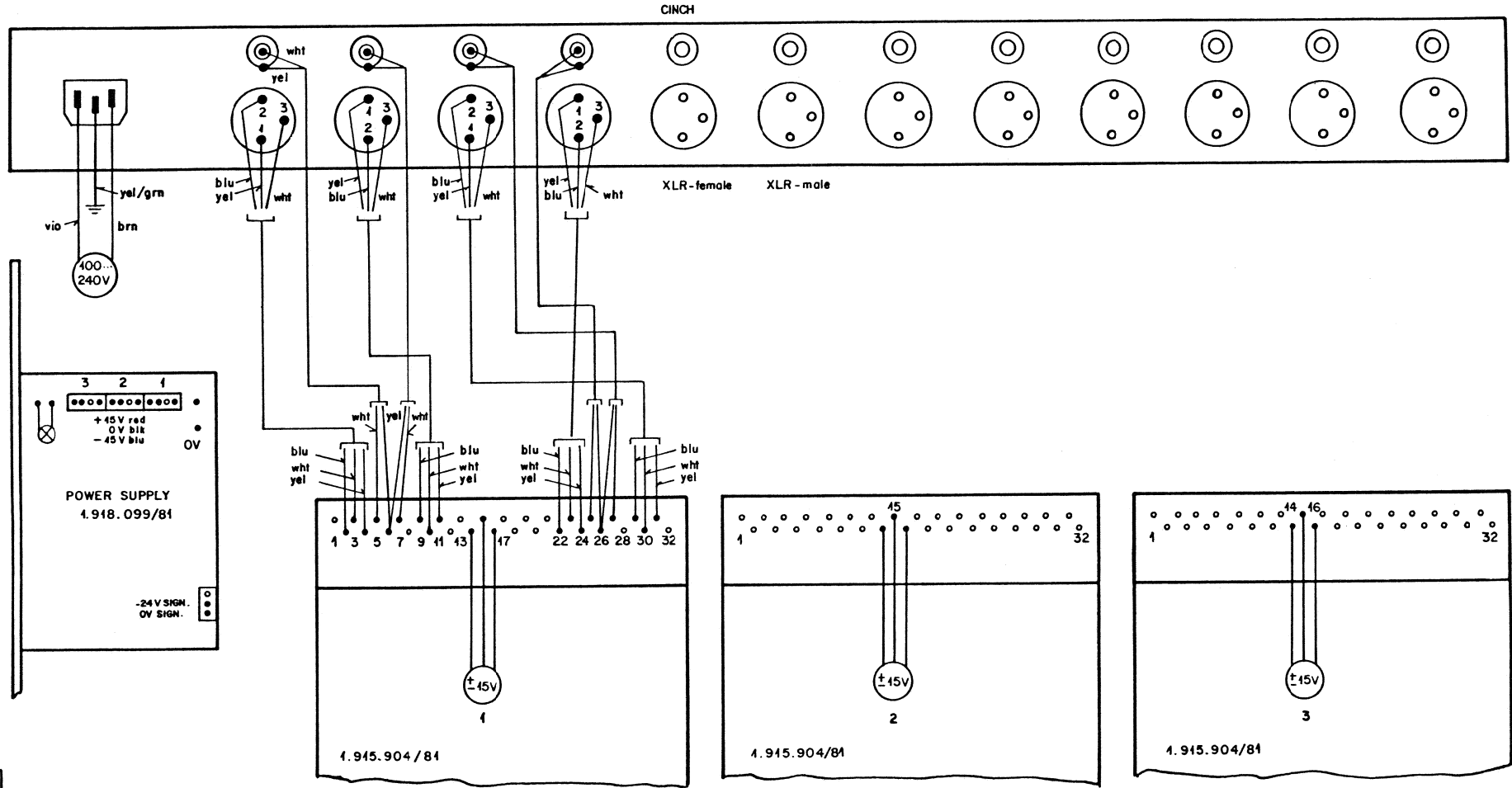
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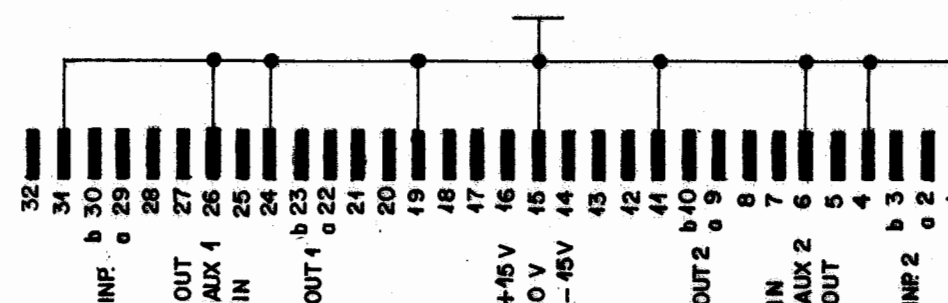
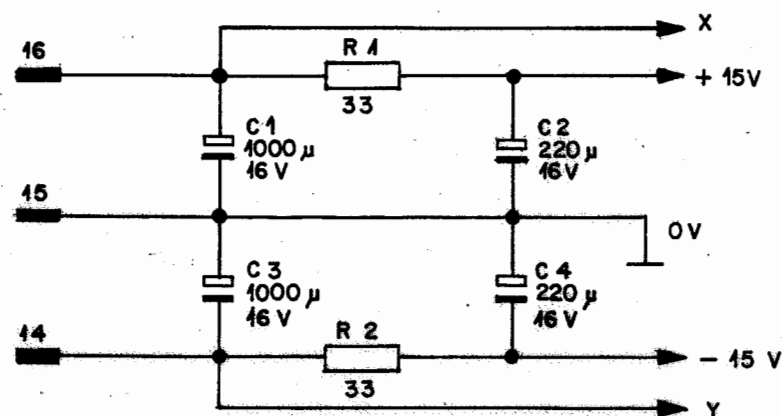
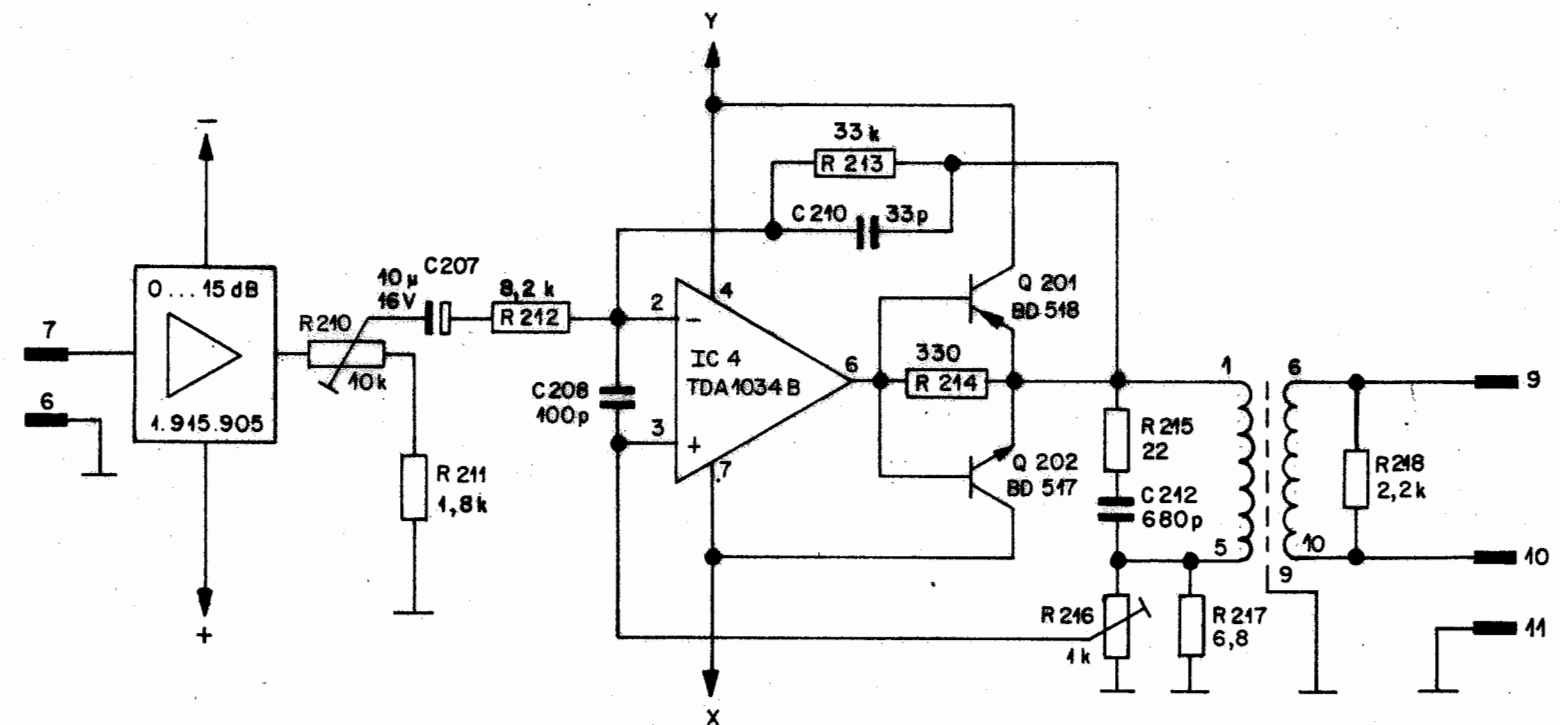
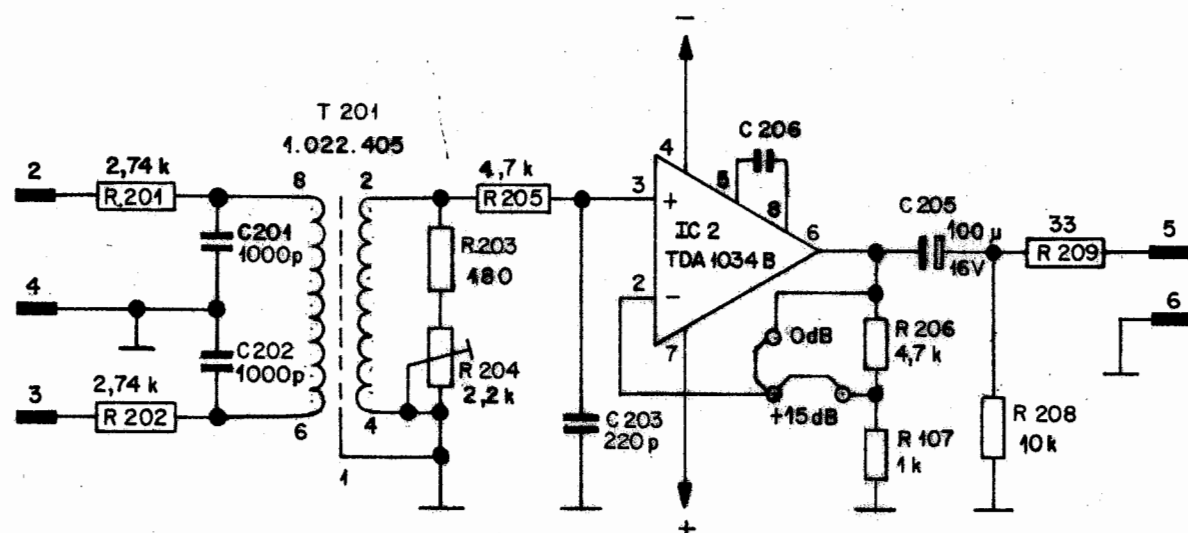
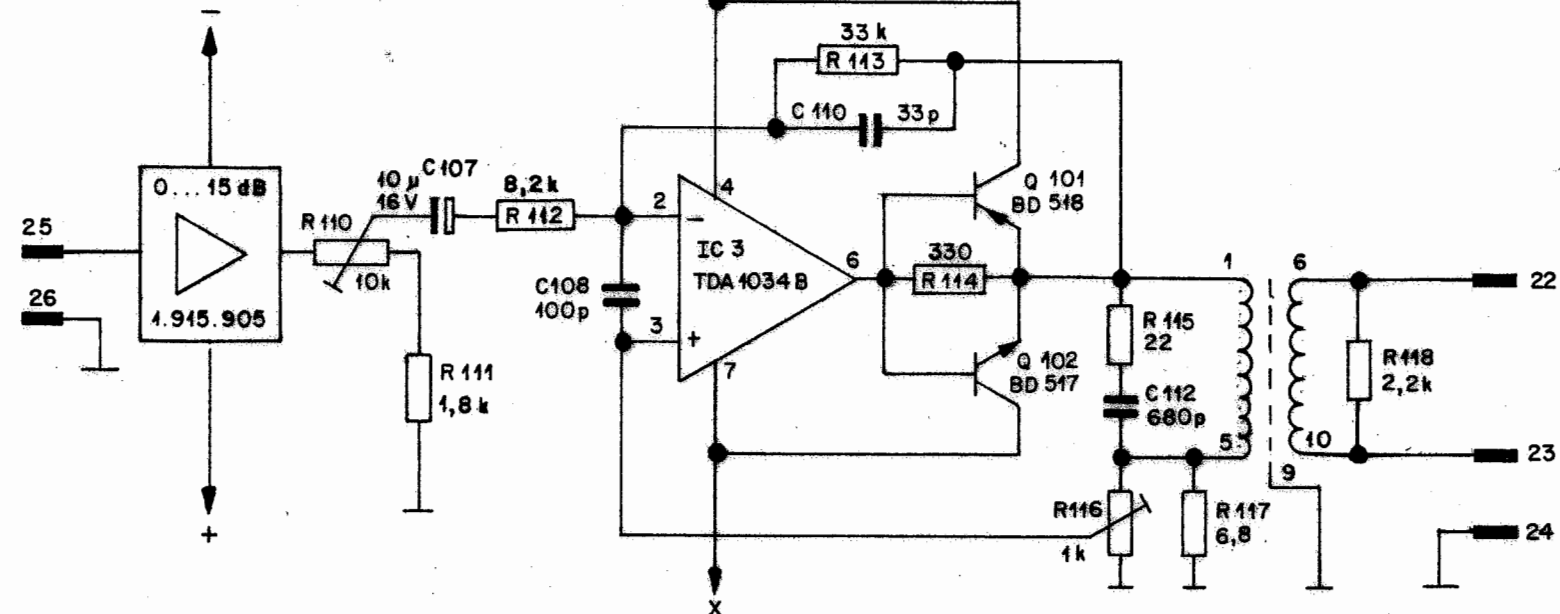
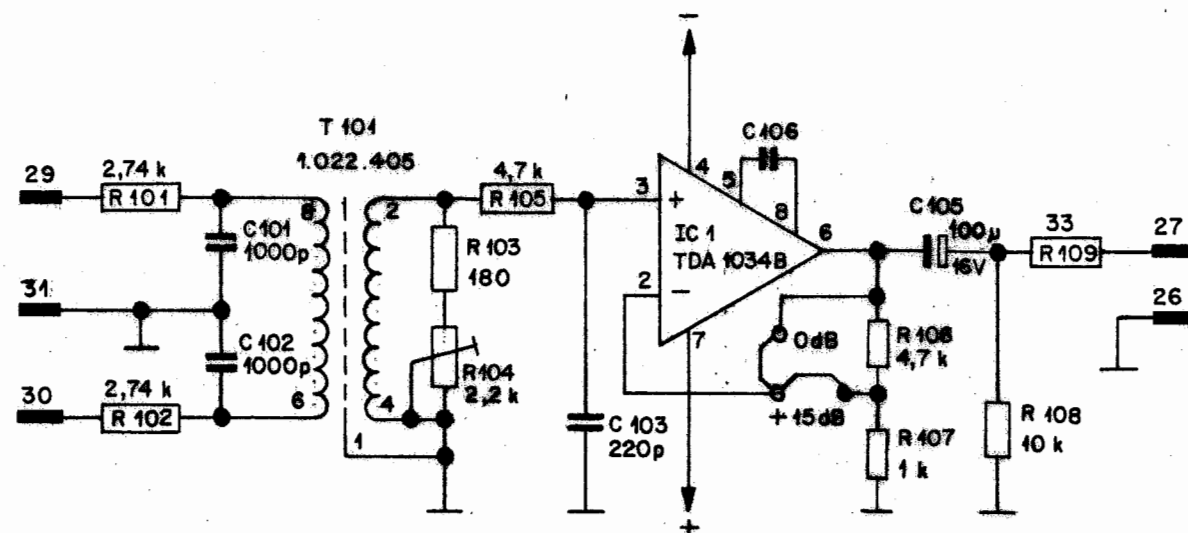
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	DIN-Bez.:		Beh.:		03.02.03	hm	HM	HM	②	
	Abmessung:				4.5.87	A.Ho	h	h	①	
Zugehörige Unterlagen:			Freimasstoleranz:	Maßstab:	Ausgabe	9.1.85	A.Ho	h	He	①
AL			±	2 : 1		Datum	Gez.	Gepr.	Ges.	Index
Ersatz für:			Ersetzt durch:		Kopie für:					
STUDER REGENSDORF ZÜRICH		Benennung: Power Supply ±15 V / 24 V			Number: 1.918.098-00					



DATE:	6.11.79	25.3.85			
SIGN:	<i>We</i>	<i>We</i>			
STUDER REGENSDORF ZÜRICH	WIRING LIST POWER SUPPLY				
					1.918.100 1.918.101 1.918.102

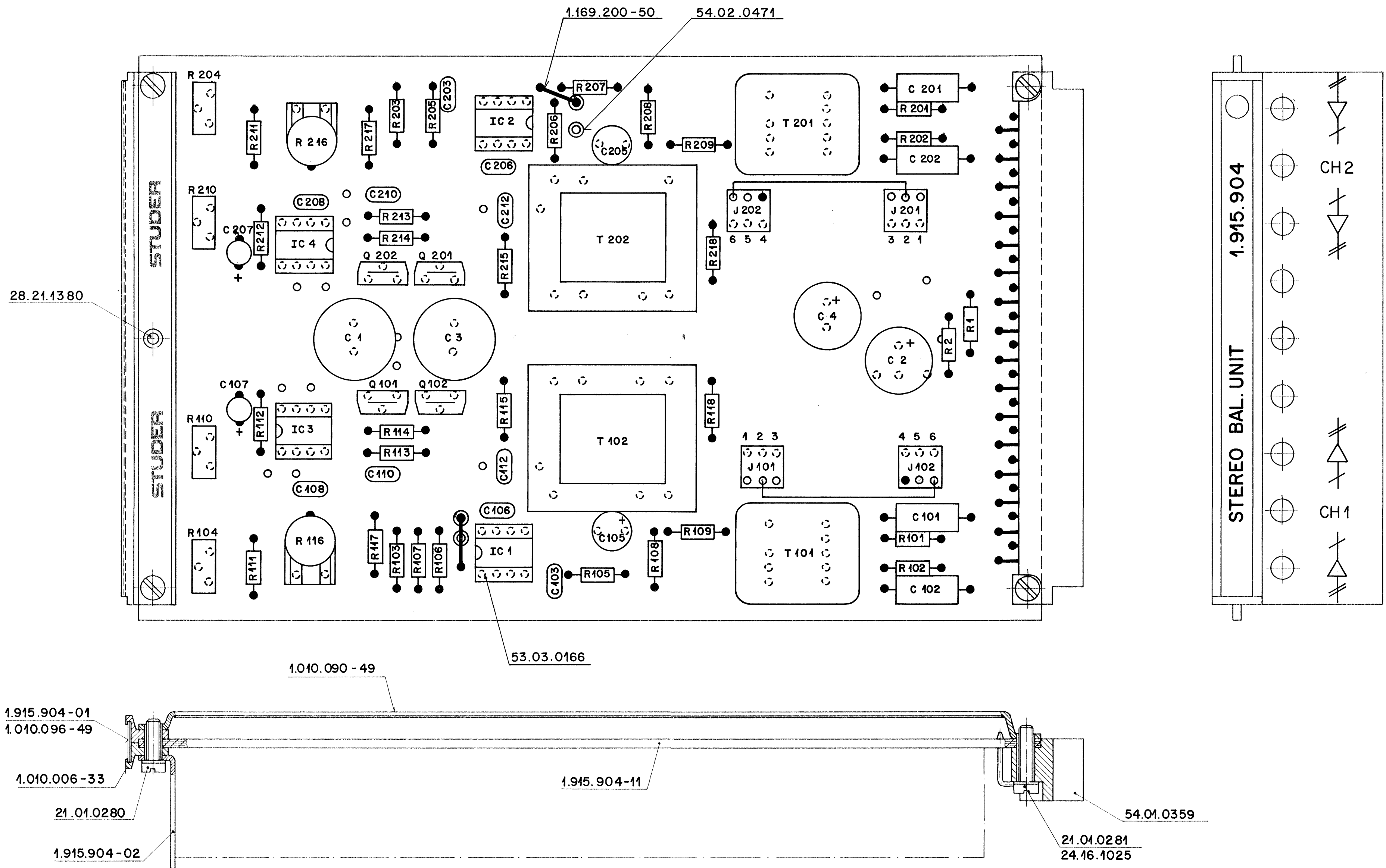
STUDEF REGENSDORF ZÜRICH	Ersatz für:					
	Benennung:	STEREO BALANCING CARD FRAME WIRING LIST				
Nummer: 1. 918. 101	Ersetzt durch:					
	Kopie für:					
	Ausgabe					
	Datum	16.11.83	Gez.	S1	Gepr.	W
	Inde		Gez.		Gepr.	





Änderung					③
					②
					①
Ausgabe	14.4.77	Si	Wie		①
Datum		Gez.	Gepr.	Ges.	Index

Ersatz für:	Ersetzt durch:	Kopie für:
STUDER REGENSDORF ZÜRICH	2 CH BALANCING UNIT	SC 1.915.904
Benennung:		Number:

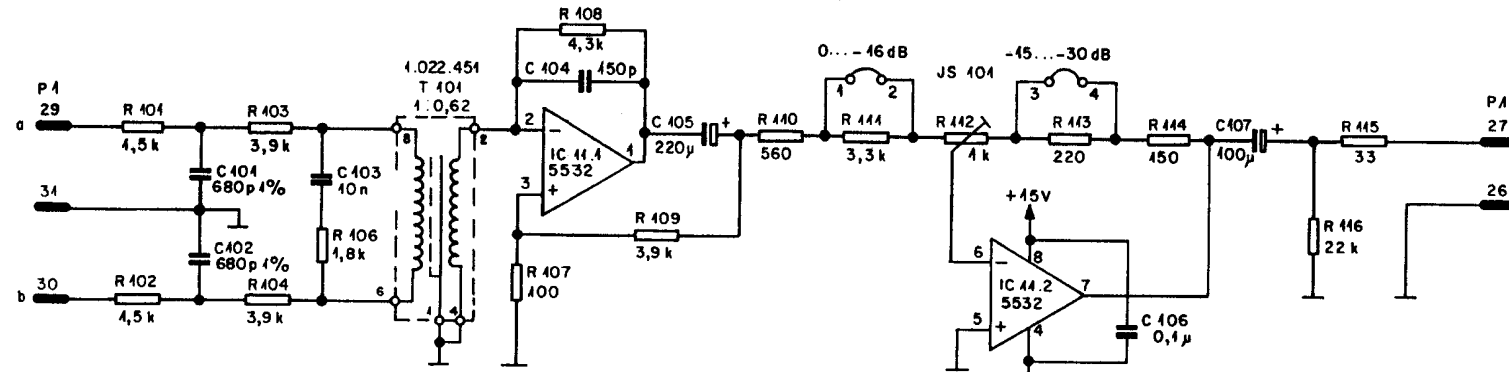


Codierung : Schaltdraht 64.01.0408 $\varnothing$ 0,8 x 8mm (muss 1mm vorstehen)
In Buchsenleiste J 102 in Kontakt 4
" " J 202 " " 4

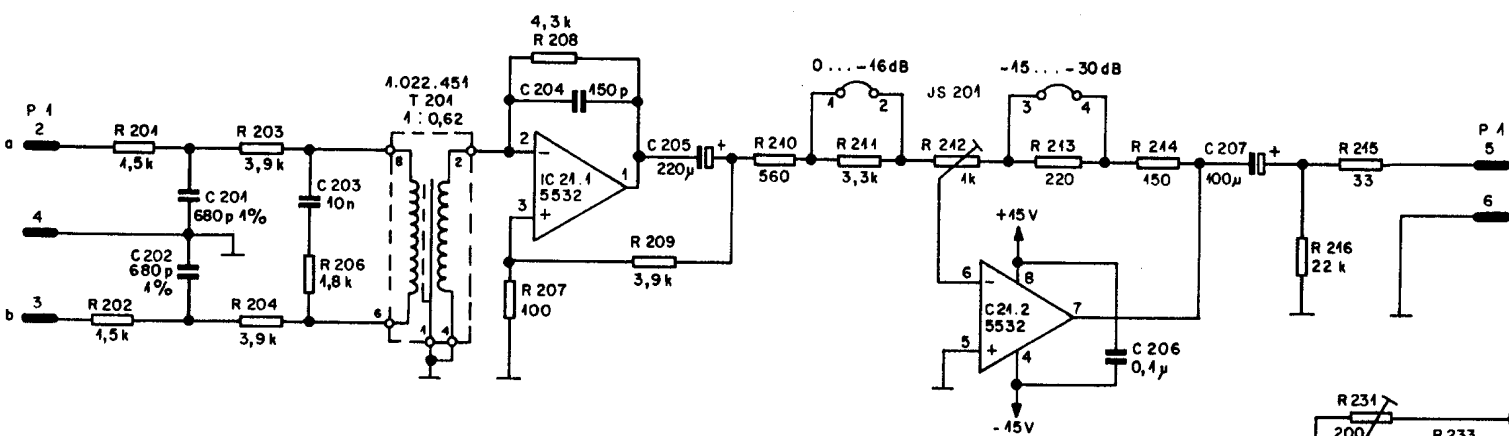
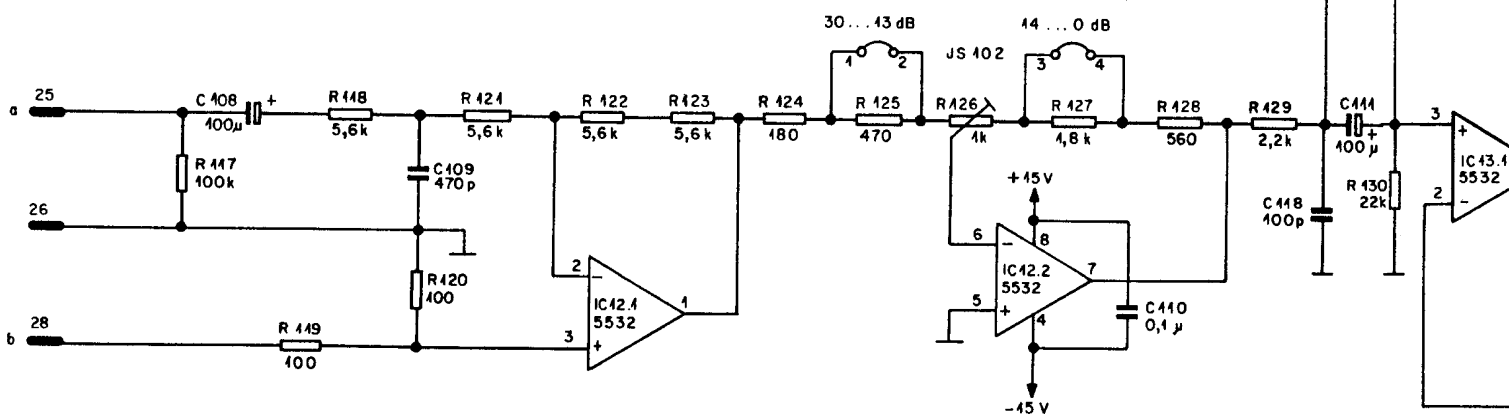
Werkstoff:	Norm-Nr.	Güte		Aenderung	(3)				
	DIN-Bez.	Oberfläche				(2)			
	Abmessung	Beh.					(1)		
Zugehörige Unterlagen		Freimasstoleranz	Maßstab	Ausgabe	(0)				
Positionsliste 1.915.904				18.9.78 Ho					
Abbiegelist 1.915.904-95			2 : 1	Datum	Gez.	Gepr.	Ges.	Index	
Ersatz für		Ersetzt durch. 1.915.904 - 81		Kopie für					
STUDER REGENSDORF ZÜRICH		Benennung: Stereo Balancing Amplifier			Nummer 1.915.90400				

POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT	MFR
R1/2	57.11.4330	33 Ω	5% 1/4W		
R101/201	57.39.2741	2,74K	1% 1/4W		
2	57.39.2741	2,74K	1% 1/4W		
3	57.11.4181	180 Ω	5% 1/4W		
4	58.01.7202	2K	10% 1/2W PM6		
5	57.11.4472	4,7K	5% 1/4W		
6	57.39.4751	4,75K	1% 1/4W		
7	57.39.1001	1K	1% 1/4W		
8	57.M.4103	10K	5% 1/4W		
9	57.11.4330	33 Ω	5% 1/4W		
10	58.01.7103	10K	10% 1/2W PM6		
11	57.11.4182	1,8K	5% 1/4W		
12	57.11.4882	8,2K	5% 1/4W		
13	57.11.4333	33K	5% 1/4W		
14	57.M.4331	330 Ω	5% 1/4W		
15	57.M.4220	22 Ω	5% 1/4W		
16	58.02.5102	1K	20% 1/4W PCSCH		
17	57.11.4689	6,8 Ω	5% 1/4W		
18	57.11.4222	2,2K	5% 1/4W		
C1/C3	59.22.4102	1000 μ F	-10% 16V EL		
C2/C4	59.22.4221	220 μ F	-10% 16V EL		
C101/201	59.12.9102	1000p	1% 500V PS		
2	59.12.9102	1000p	1% 500V PS		
3	59.34.4221	220p	5% HER		
4	—				
5	59.30.4101	100 μ F	-20% 16V TA		
6	59.34.2220	22p	5% HER		
7	59.30.4100	10 μ F	-20% 16V TA		
8	59.34.4101	100p	5% HER		
9	—				
10	59.34.2330	33p	5% HER		
11	—				
12	59.32.2681	680p	10% HER		
IC1-4	50.05.0243	TDA 1034B	OPAMP	NE5534	
Q101/201	50.03.0455	BD 518-5	PNP		
Q102/202	50.03.0456	BD 517-5	NPN		
T101/201	1.022.405.00	1:1			ST
T102/202	1.022.352.00				ST

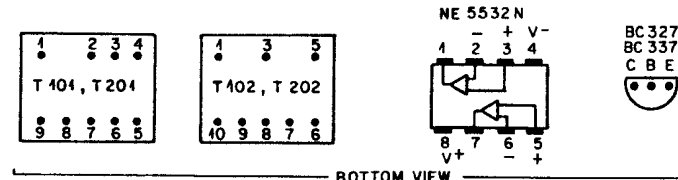
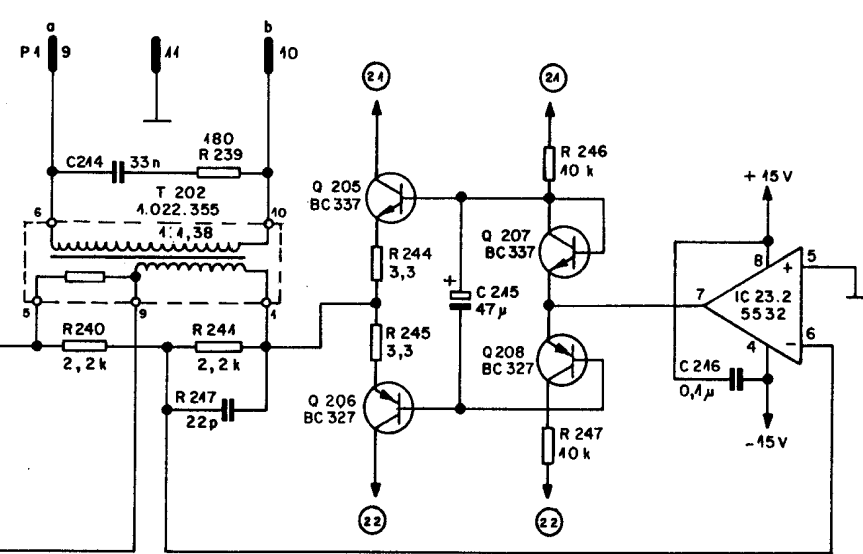
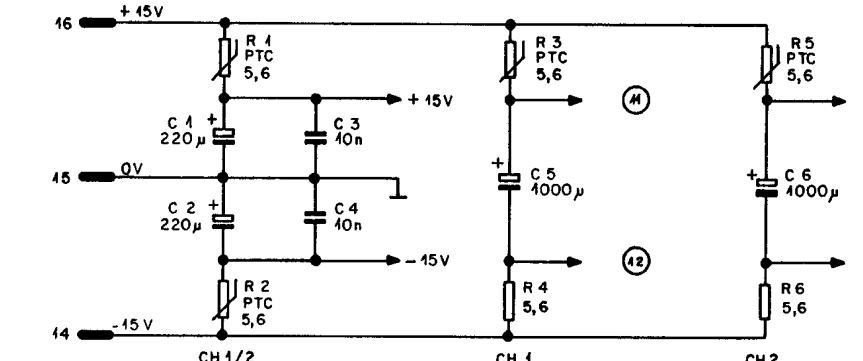
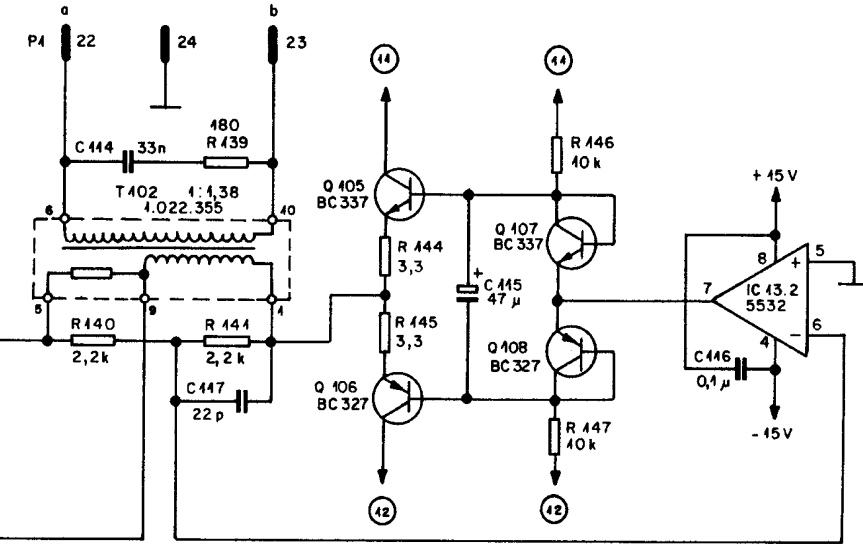
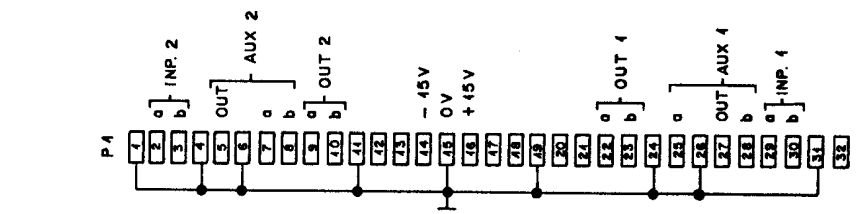
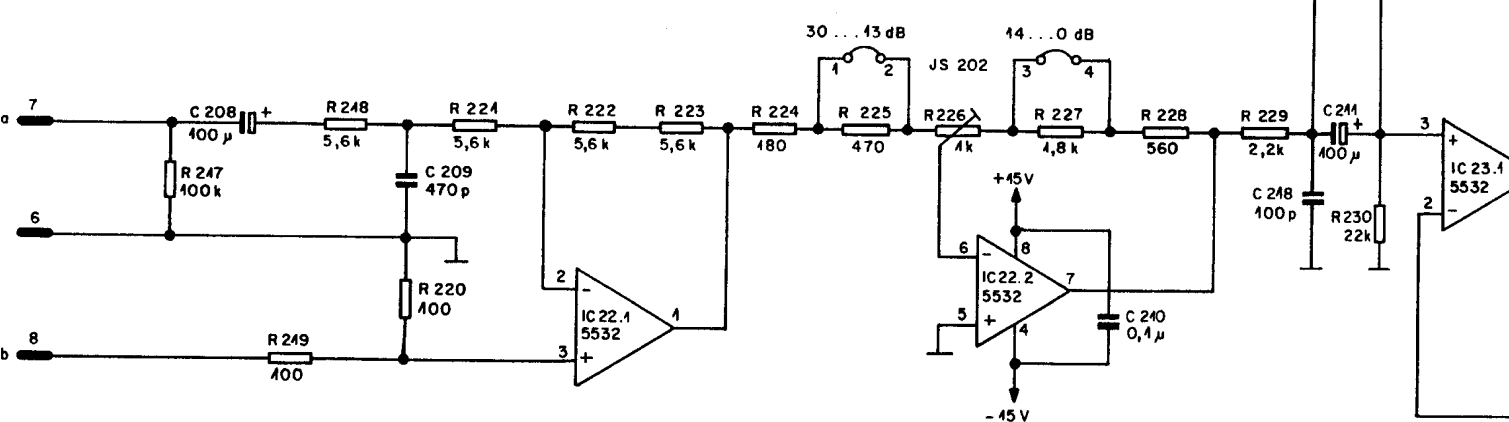
HER → CERAMIC	PCSCH → TRIMMER	④		
TA → TANTAL	ST → STUDER	③		
EL → ELECTROLYTIC		②		
MF → METAL FILM		①		
PMC → TRIMMER		○	23.2.80	W/C
		IND	DATE	NAME
STUDER	STEREO BALANCING UNIT		1.9.15.904	PAGE 1 of 1



CH 1

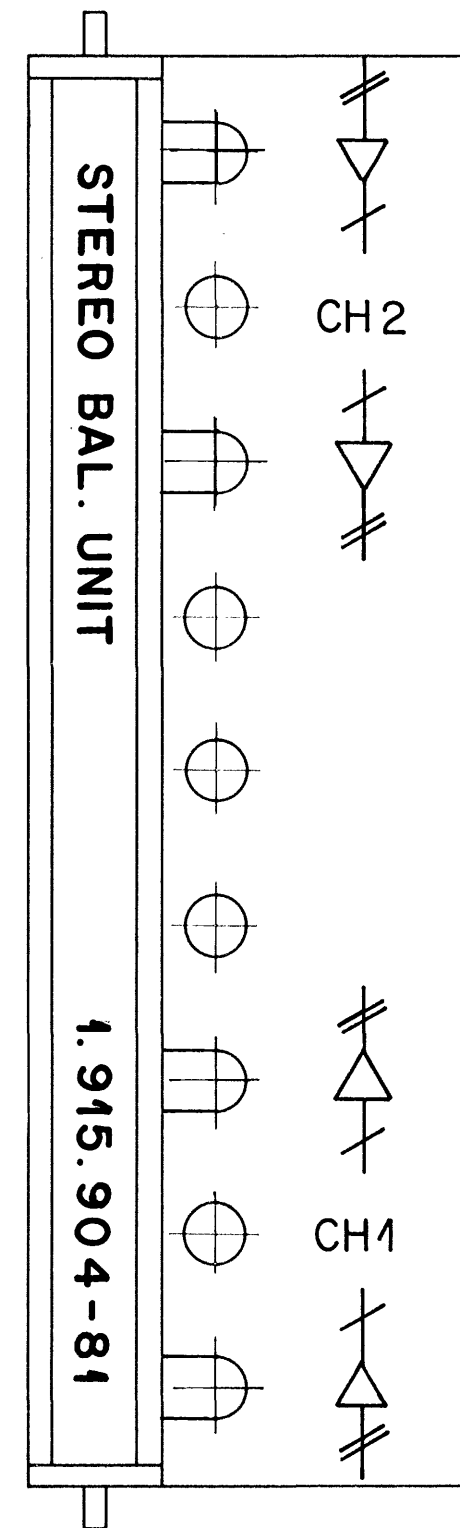
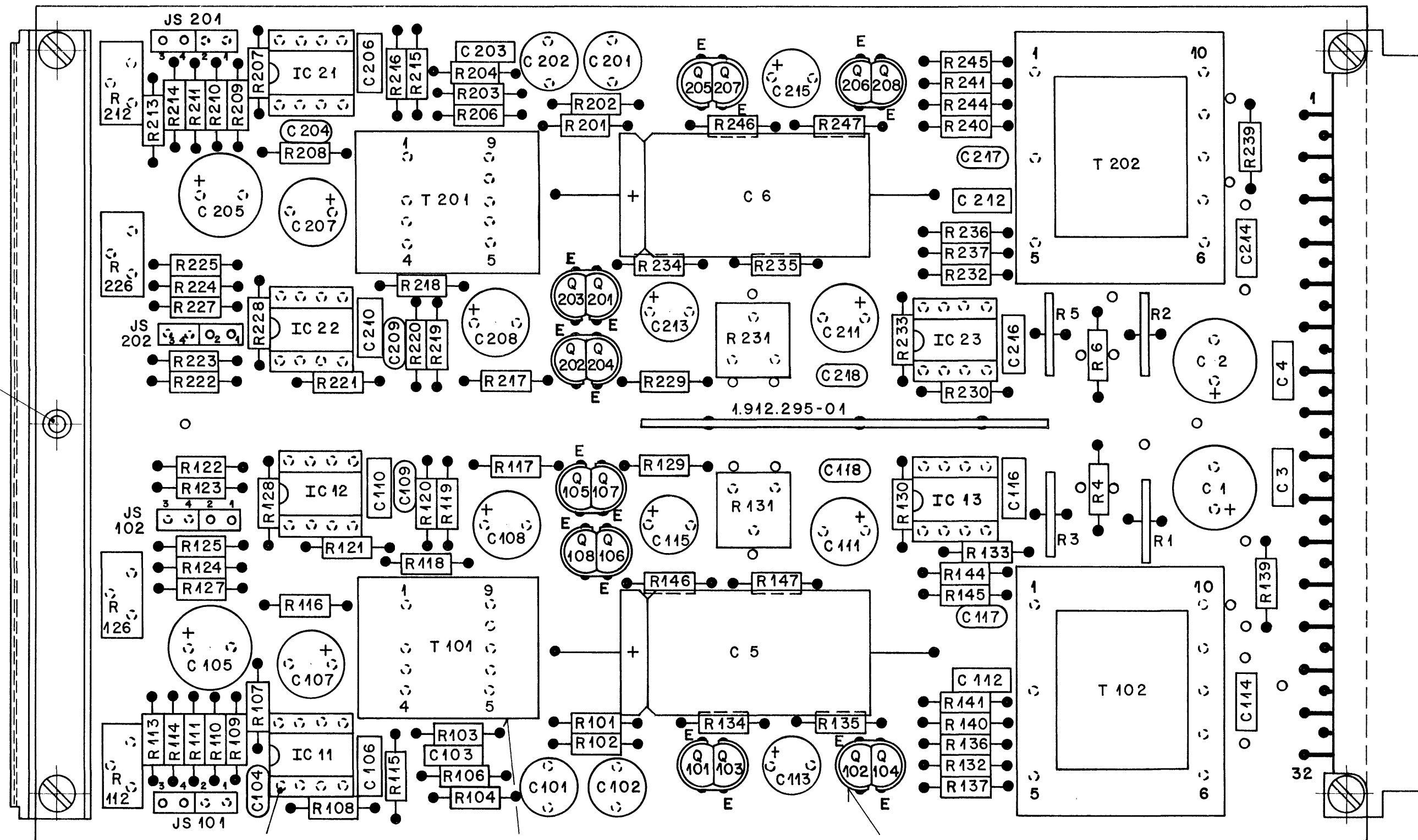


CH 2



DATE:	8. 7. 83				
SIGN:	Rec				
STUDER REGENSDORF ZÜRICH		STEREO BALANCING UNIT			SC 1.915.904-81

28.21.1390



1.010.096-49
1.915.904-01

1.010.006-33

21.01.0280
24.16.1025

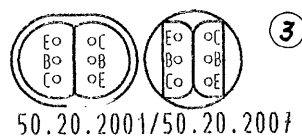
1.915.904-02

1.915.904-12

54.01.0359

21.01.0281
24.16.1025

Q= T0 92 = S0 96



Werkstoff	Norm-Nr.: _____	Oberfläche	Güte: _____	Änderung	3.12.98	B	B	(3)	
	DIN-Bez.: _____		Beh.: _____		29.2.92	72	V	V	(2)
	Abmessung: _____				4.4.84	A.Ho	V	V	(1)
Zugehörige Unterlagen:		Freimasstoleranz:	Maßstab:	Ausgabe	Datum	Gez.	Gepr.	Ges.	Index
PL		t	2 : 1						
Ersatz für: 1.915.904-00			Ersetzt durch:		Kopie für:				
STUDER REGENSDORF ZÜRICH		Benennung:	Stereo Balancing Unit		Nummer:	1.915.904-81			

Parts List

STUDER Professional Audio

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.22.4221	1 pce	220u	EL 16V 20% RM5
0	C 2	59.22.4221	1 pce	220u	EL 16V 20% RM5
0	C 3	59.06.0103	1 pce	10n	PETP, 63V, 10%, RM5
0	C 4	59.06.0103	1 pce	10n	PETP, 63V, 10%, RM5
0	C 5	59.25.5102	1 pce	1m	EL 40V 20% axial
0	C 6	59.25.5102	1 pce	1m	EL 40V 20% axial
0	C 101	59.05.1681	1 pce	680p	PP, 1%, 630V
0	C 102	59.05.1681	1 pce	680p	PP, 1%, 630V
0	C 103	59.06.0103	1 pce	10n	PETP, 63V, 10%, RM5
0	C 104	59.34.4151	1 pce	150p	CER 63V, 5%, N750
0	C 105	59.22.2221	1 pce	220u	EL 6.3V, 20%, RM5
0	C 106	59.06.0104	1 pce	100n	PETP, 63V, 10%, RM5
0	C 107	59.22.5101	1 pce	100u	EL 25V 20% RM5
0	C 108	59.22.5101	1 pce	100u	EL 25V 20% RM5
0	C 109	59.34.5471	1 pce	470p	CER 63V, 5%, N1500
0	C 110	59.06.0104	1 pce	100n	PETP, 63V, 10%, RM5
0	C 111	59.22.5101	1 pce	100u	EL 25V 20% RM5
0	C 112	59.06.0222	1 pce	2n2	PETP, 63V, 10%, RM5
0	C 113	59.22.5470	1 pce	47u	EL 25V 20% RM5
0	C 114	59.06.0333	1 pce	33n	PETP, 63V, 10%, RM5
0	C 115	59.22.5470	1 pce	47u	EL 25V 20% RM5
0	C 116	59.06.0104	1 pce	100n	PETP, 63V, 10%, RM5
0	C 117	59.34.2220	1 pce	22p	CER 63V, 5%, N150
0	C 118	59.34.4101	1 pce	100p	CER 63V, 5%, N750
0	C 201	59.05.1681	1 pce	680p	PP, 1%, 630V
0	C 202	59.05.1681	1 pce	680p	PP, 1%, 630V
0	C 203	59.06.0103	1 pce	10n	PETP, 63V, 10%, RM5
0	C 204	59.34.4151	1 pce	150p	CER 63V, 5%, N750
0	C 205	59.22.2221	1 pce	220u	EL 6.3V, 20%, RM5
0	C 206	59.06.0104	1 pce	100n	PETP, 63V, 10%, RM5
0	C 207	59.22.5101	1 pce	100u	EL 25V 20% RM5
0	C 208	59.22.5101	1 pce	100u	EL 25V 20% RM5
0	C 209	59.34.5471	1 pce	470p	CER 63V, 5%, N1500
0	C 210	59.06.0104	1 pce	100n	PETP, 63V, 10%, RM5
0	C 211	59.22.5101	1 pce	100u	EL 25V 20% RM5
0	C 212	59.06.0222	1 pce	2n2	PETP, 63V, 10%, RM5
0	C 213	59.22.5470	1 pce	47u	EL 25V 20% RM5
0	C 214	59.06.0333	1 pce	33n	PETP, 63V, 10%, RM5
0	C 215	59.22.5470	1 pce	47u	EL 25V 20% RM5
0	C 216	59.06.0104	1 pce	100n	PETP, 63V, 10%, RM5
0	C 217	59.34.2220	1 pce	22p	CER 63V, 5%, N150
0	C 218	59.34.4101	1 pce	100p	CER 63V, 5%, N750
0	IC 101	50.09.0105	1 pce	5532	Dual Op Amp
0	IC 102	50.09.0105	1 pce	5532	Dual Op Amp
0	IC 103	50.09.0105	1 pce	5532	Dual Op Amp
0	IC 201	50.09.0105	1 pce	5532	Dual Op Amp

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Parts List

STUDER Professional Audio

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
0	IC 202	50.09.0105	1 pce	5532	Dual Op Amp
0	IC 203	50.09.0105	1 pce	5532	Dual Op Amp
0	JS 101	54.01.0021	1 pce	Jumper	0.63*0.63mm, Au
0	JS 102	54.01.0021	1 pce	Jumper	0.63*0.63mm, Au
0	JS 201	54.01.0021	1 pce	Jumper	0.63*0.63mm, Au
0	JS 202	54.01.0021	1 pce	Jumper	0.63*0.63mm, Au
0	P 1	54.01.0359	1 pce	32p	EU-B 2*16p
0	P 101	54.01.0020	4 pcs	1p	Pin, 1reihiig, gerade
0	P 102	54.01.0020	4 pcs	1p	Pin, 1reihiig, gerade
0	P 201	54.01.0020	4 pcs	1p	Pin, 1reihiig, gerade
0	P 202	54.01.0020	4 pcs	1p	Pin, 1reihiig, gerade
0	Q 101	1.010.037.50	1 pce		Q BC 337 E 6310, ,A
0	Q 102	1.010.036.50	1 pce		Q BC 327 E 6310, ,A
0	Q 103	1.010.037.50	1 pce		Q BC 337 E 6310, ,A
0	Q 104	1.010.036.50	1 pce		Q BC 327 E 6310, ,A
0	Q 105	1.010.037.50	1 pce		Q BC 337 E 6310, ,A
0	Q 106	1.010.036.50	1 pce		Q BC 327 E 6310, ,A
0	Q 107	1.010.037.50	1 pce		Q BC 337 E 6310, ,A
0	Q 108	1.010.036.50	1 pce		Q BC 327 E 6310, ,A
0	Q 201	1.010.037.50	1 pce		Q BC 337 E 6310, ,A
0	Q 202	1.010.036.50	1 pce		Q BC 327 E 6310, ,A
0	Q 203	1.010.037.50	1 pce		Q BC 337 E 6310, ,A
0	Q 204	1.010.036.50	1 pce		Q BC 327 E 6310, ,A
0	Q 205	1.010.037.50	1 pce		Q BC 337 E 6310, ,A
0	Q 206	1.010.036.50	1 pce		Q BC 327 E 6310, ,A
0	Q 207	1.010.037.50	1 pce		Q BC 337 E 6310, ,A
0	Q 208	1.010.036.50	1 pce		Q BC 327 E 6310, ,A
0	R 1	57.99.0209	1 pce	5.6	PTC
0	R 2	57.99.0209	1 pce	5.6	PTC
0	R 3	57.99.0209	1 pce	5.6	PTC
0	R 4	57.11.3569	1 pce	5R6	MF, 1%, 0207
0	R 5	57.99.0209	1 pce	5.6	PTC
0	R 6	57.11.3569	1 pce	5R6	MF, 1%, 0207
0	R 101	57.11.3152	1 pce	1k5	MF, 1%, 0207
0	R 102	57.11.3152	1 pce	1k5	MF, 1%, 0207
0	R 103	57.11.3392	1 pce	3k9	MF, 1%, 0207
0	R 104	57.11.3392	1 pce	3k9	MF, 1%, 0207
0	R 106	57.11.3182	1 pce	1k8	MF, 1%, 0207
0	R 107	57.11.3101	1 pce	100R	MF, 1%, 0207
0	R 108	57.11.3432	1 pce	4k3	MF, 1%, 0207
0	R 109	57.11.3392	1 pce	3k9	MF, 1%, 0207
0	R 110	57.11.3561	1 pce	560R	MF, 1%, 0207
0	R 111	57.11.3332	1 pce	3k3	MF, 1%, 0207
0	R 112	58.01.9102	1 pce	1k0	Cermet, 10%, 0.5W, vertical
0	R 113	57.11.3221	1 pce	220R	MF, 1%, 0207

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Parts List

STUDER Professional Audio

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 114	57.11.3151	1 pce	150R	MF, 1%, 0207
0	R 115	57.11.3330	1 pce	33R	MF, 1%, 0207
0	R 116	57.11.3223	1 pce	22k	MF, 1%, 0207
0	R 117	57.11.3104	1 pce	100k	MF, 1%, 0207
0	R 118	57.11.3562	1 pce	5k6	MF, 1%, 0207
0	R 119	57.11.3101	1 pce	100R	MF, 1%, 0207
0	R 120	57.11.3101	1 pce	100R	MF, 1%, 0207
0	R 121	57.11.3562	1 pce	5k6	MF, 1%, 0207
0	R 122	57.11.3562	1 pce	5k6	MF, 1%, 0207
0	R 123	57.11.3562	1 pce	5k6	MF, 1%, 0207
0	R 124	57.11.3181	1 pce	180R	MF, 1%, 0207
0	R 125	57.11.3471	1 pce	470R	MF, 1%, 0207
0	R 126	58.01.9102	1 pce	1k0	Cermet, 10%, 0.5W, vertical
0	R 127	57.11.3182	1 pce	1k8	MF, 1%, 0207
0	R 128	57.11.3561	1 pce	560R	MF, 1%, 0207
0	R 129	57.11.3222	1 pce	2k2	MF, 1%, 0207
0	R 130	57.11.3223	1 pce	22k	MF, 1%, 0207
0	R 131	58.01.8201	1 pce	200R	Cermet, 10%, 0.5W, horizontal
0	R 132	57.11.3122	1 pce	1k2	MF, 1%, 0207
0	R 133	57.11.3471	1 pce	470R	MF, 1%, 0207
0	R 134	57.11.3103	1 pce	10k	MF, 1%, 0207
0	R 135	57.11.3103	1 pce	10k	MF, 1%, 0207
0	R 136	57.11.3339	1 pce	3R3	MF, 1%, 0207
0	R 137	57.11.3339	1 pce	3R3	MF, 1%, 0207
0	R 139	57.11.3181	1 pce	180R	MF, 1%, 0207
0	R 140	57.11.3222	1 pce	2k2	MF, 1%, 0207
0	R 141	57.11.3222	1 pce	2k2	MF, 1%, 0207
0	R 144	57.11.3339	1 pce	3R3	MF, 1%, 0207
0	R 145	57.11.3339	1 pce	3R3	MF, 1%, 0207
0	R 146	57.11.3103	1 pce	10k	MF, 1%, 0207
0	R 147	57.11.3103	1 pce	10k	MF, 1%, 0207
0	R 201	57.11.3152	1 pce	1k5	MF, 1%, 0207
0	R 202	57.11.3152	1 pce	1k5	MF, 1%, 0207
0	R 203	57.11.3392	1 pce	3k9	MF, 1%, 0207
0	R 204	57.11.3392	1 pce	3k9	MF, 1%, 0207
0	R 206	57.11.3182	1 pce	1k8	MF, 1%, 0207
0	R 207	57.11.3101	1 pce	100R	MF, 1%, 0207
0	R 208	57.11.3432	1 pce	4k3	MF, 1%, 0207
0	R 209	57.11.3392	1 pce	3k9	MF, 1%, 0207
0	R 210	57.11.3561	1 pce	560R	MF, 1%, 0207
0	R 211	57.11.3332	1 pce	3k3	MF, 1%, 0207
0	R 212	58.01.9102	1 pce	1k0	Cermet, 10%, 0.5W, vertical
0	R 213	57.11.3221	1 pce	220R	MF, 1%, 0207
0	R 214	57.11.3151	1 pce	150R	MF, 1%, 0207
0	R 215	57.11.3330	1 pce	33R	MF, 1%, 0207
0	R 216	57.11.3223	1 pce	22k	MF, 1%, 0207
0	R 217	57.11.3104	1 pce	100k	MF, 1%, 0207

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Parts List**STUDER Professional Audio**

Idx	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 218	57.11.3562	1 pce	5k6	MF, 1%, 0207
0	R 219	57.11.3101	1 pce	100R	MF, 1%, 0207
0	R 220	57.11.3101	1 pce	100R	MF, 1%, 0207
0	R 221	57.11.3562	1 pce	5k6	MF, 1%, 0207
0	R 222	57.11.3562	1 pce	5k6	MF, 1%, 0207
0	R 223	57.11.3562	1 pce	5k6	MF, 1%, 0207
0	R 224	57.11.3181	1 pce	180R	MF, 1%, 0207
0	R 225	57.11.3471	1 pce	470R	MF, 1%, 0207
0	R 226	58.01.9102	1 pce	1k0	Cermet, 10%, 0.5W, vertical
0	R 227	57.11.3182	1 pce	1k8	MF, 1%, 0207
0	R 228	57.11.3561	1 pce	560R	MF, 1%, 0207
0	R 229	57.11.3222	1 pce	2k2	MF, 1%, 0207
0	R 230	57.11.3223	1 pce	22k	MF, 1%, 0207
0	R 231	58.01.8201	1 pce	200R	Cermet, 10%, 0.5W, horizontal
0	R 232	57.11.3122	1 pce	1k2	MF, 1%, 0207
0	R 233	57.11.3471	1 pce	470R	MF, 1%, 0207
0	R 234	57.11.3103	1 pce	10k	MF, 1%, 0207
0	R 235	57.11.3103	1 pce	10k	MF, 1%, 0207
0	R 236	57.11.3339	1 pce	3R3	MF, 1%, 0207
0	R 237	57.11.3339	1 pce	3R3	MF, 1%, 0207
0	R 239	57.11.3181	1 pce	180R	MF, 1%, 0207
0	R 240	57.11.3222	1 pce	2k2	MF, 1%, 0207
0	R 241	57.11.3222	1 pce	2k2	MF, 1%, 0207
0	R 244	57.11.3339	1 pce	3R3	MF, 1%, 0207
0	R 245	57.11.3339	1 pce	3R3	MF, 1%, 0207
0	R 246	57.11.3103	1 pce	10k	MF, 1%, 0207
0	R 247	57.11.3103	1 pce	10k	MF, 1%, 0207
0	T 101	1.022.451.00	1 pce	1:0.62	EINGANGSTRAFO 1 : 0,62
0	T 102	1.022.355.00	1 pce		LINE OUTPUT TRAFO 1:1,46
0	T 201	1.022.451.00	1 pce	1:0.62	EINGANGSTRAFO 1 : 0,62
0	T 202	1.022.355.00	1 pce		LINE OUTPUT TRAFO 1:1,46
1	XIC 1	not used	6 pcs	8p	DIL-socket 0.3"

End of List**Comments:**

(00) 24.11.82 BR

(01) 20.02.07 XIC1: -> not used

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