

## BEOLAB 150, TYPE 1721, 1722, 1723, 1724, 1725

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### DIAGRAMFORKLARING

På diagrammet er der angivet typenumre på transistorer og IC'er i de tilfælde hvor typenummeret er entydigt for komponenters placering i kredsløbet - f.eks. TR20/BC 557B

Hvis positionsnummeret er efterfulgt af en stjerne skal reservedelsnummeret benyttes, da denne komponent er specielt udvalgt - f.eks. TR102\*.

### Koordinatsystem

De største printplader er forsynet med et koordinatsystem. Komponenterne på disse printplader er på diagrammet forsynet med en koordinatbetegnelse, som fortæller i hvilket felt på printpladen de er placeret (mindre skrifttype end positionsnummeret - f.eks. B3).

### Ledningsforbindelser

Ledningsforbindelser på diagrammet er samlet i »bundter«. De enkelte ledninger er forsynet med koder, der fortæller hvortil de går.

### INTERN FORBINDELSE PÅ EN DIAGRAMSIDE

Interne forbindelser på en diagramside angives med et tal. Knækket på ledningen viser i hvilken retning den anden ende af ledningen findes.

### EXPLANATION OF DIAGRAM

Type numbers of transistors and IC's have been indicated on the diagram in those cases where the type number is unambiguous for the position of the component in a circuitry - e.g. TR20/BC 557B.

If the position number is followed by an asterisk the spare part number **must be used** because this component has been especially selected - e.g. TR102\*.

### System of Co-ordinates

The largest PC-boards have been provided with a coordinate system. The components on these PC-boards are provided with a grid reference on the diagram indicating in what grid they are positioned on the PC-board (smaller typing than position numbers - e.g. B3).

### Wiring Connections

The wiring connections on the diagram are assembled in »bundles«. The individual wires are coded to indicate to where they are leading.

### INTERNAL CONNECTION ON ONE DIAGRAM PAGE



Internal connections on a diagram page are indicated by a number. The bend of the wire indicates in which direction the other end of the wire may be found.

**Forsyningsspændinger**

En pil og spændingen viser, hvor forsyningsspændingerne går ind i et print.

Eksempel: (7 CON.) f.eks. ved siden af forsyningsspændingen angiver det antal steder, spændingen går ind på denne diagramside.

**Symbol for sikkerhedskomponenter**

Ved udskiftning af komponenter med dette symbol skal der anvendes komponenter med samme reservedelsnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

**MÅLBETINGELSER**

Alle DC spændinger er målt i forhold til stel, med voltmeter med en indgangsmodstand på 10 Mohm.

Spændingerne er målt uden signaltilføring.

**Supply Voltage**

An arrow and the voltage show where the supply voltages are fed to a PCB.

Example: (7 CON.) next to the supply voltage indicates the number of places where to find the voltages in this diagram.

**Symbol for Safety Components**

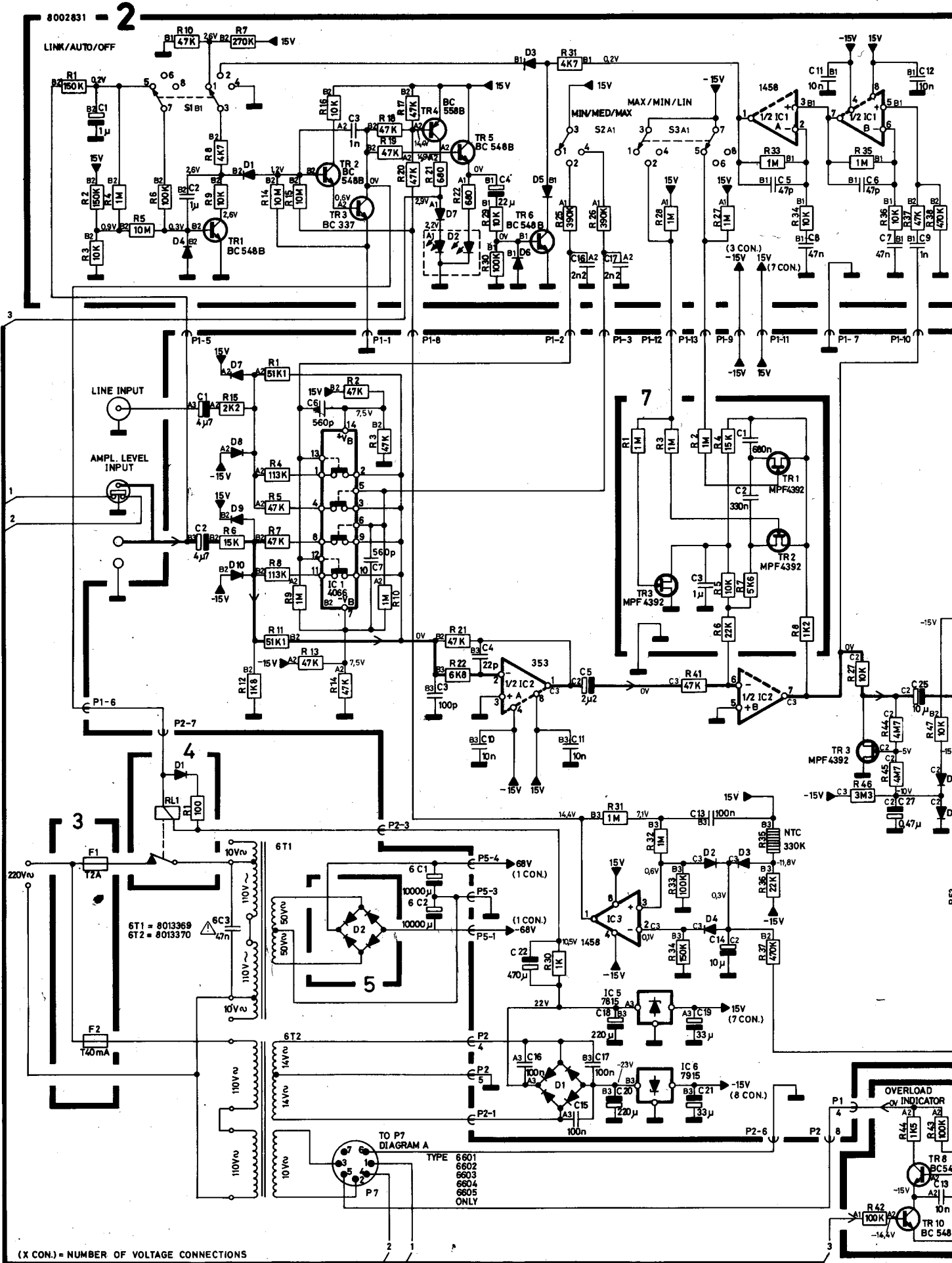
When replacing components with this symbol components with identical part numbers are to be used. The new component must be fitted in the same way as the one replaced.

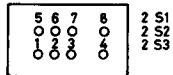
**MEASURING CONDITIONS**

All DC voltages have been measured in relation to ground with voltmeter with an input resistance of 10 Mohms.

The voltages have been measured without any supply of signal.

DIAGRAM

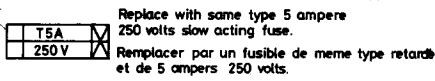




Type 6603/1723

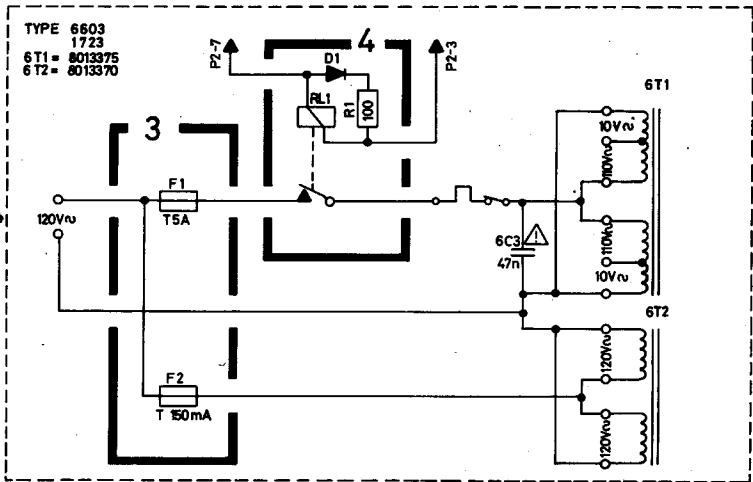
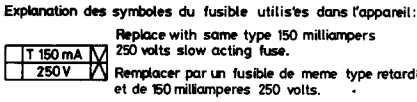
Explanation of the fuse symbols used in the set:

Explanation des symboles du fusible utilisés dans l'appareil:

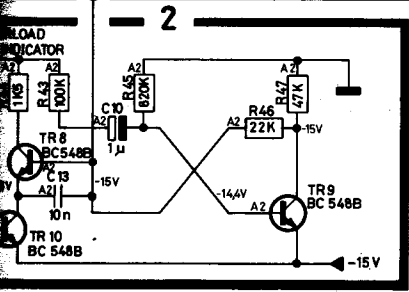
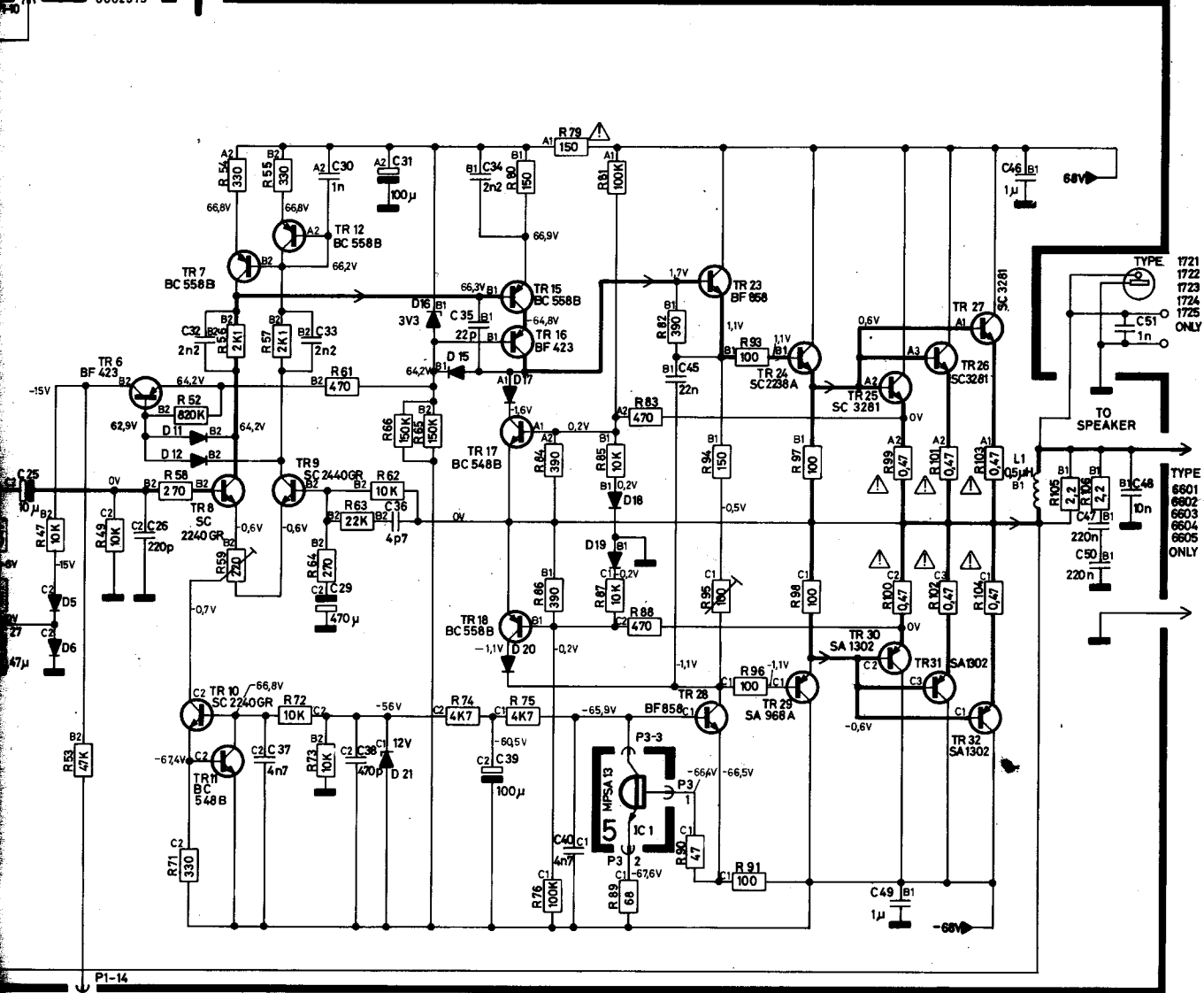


Type 6603/1723

Explanation of the fuse symbols used in the set:



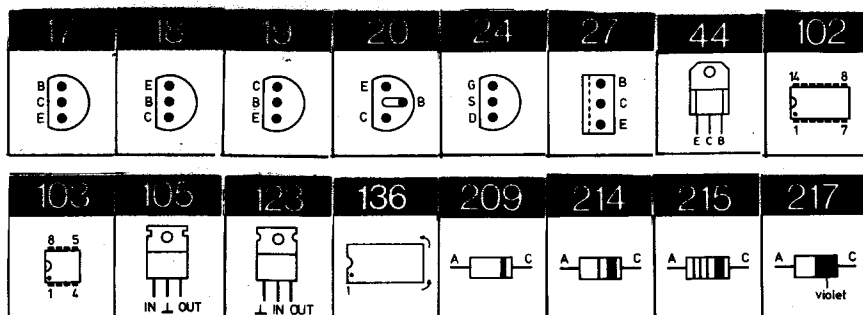
8002915



TYPE 1721  
1722  
1723  
1724  
1725  
ONLY

TYPE 6601  
6602  
6603  
6604  
6605  
ONLY

## SEMI CONDUCTORS



### Transistors

1TR3	*Δ 8320396	24	MPF 4392	1TR23	8320646	44	BF 858
		24	2N 4392				
		24	2N 5639	1TR24	8320643		2SC 2238A
1TR6	8320454	17	BF 423	1TR25-	8320645		2SC 3281
				1TR27			
1TR7	8320152	20	BC 212B/BK	1TR28	8320646	44	BF 858
		17	BC 212BL				
		20	BC 251B	1TR29	8320642		2SA 968A
		18	BC 307B				
		20	BC 557B	1TR30-	8320644		2SA 1302
		27	2SA 844	1TR32			
1TR8-	8320641		SC 2240 GR	2TR1	8320108	20	BC 172B
1TR10				2TR2		20	BC 183B/BK
1TR11	8320108	20	BC 172B			17	BC 183BL
		20	BC 183B/BK			20	BC 238B
		17	BC 183BL			20	BC 548B
		20	BC 238B	2TR3	8320595	20	BC 337-40
		20	BC 548B				
1TR12	8320152	20	BC 212B/BK	2TR4	8320152	20	BC 212B/BK
1TR15		17	BC 212BL			17	BC 212BL
		20	BC 251B			20	BC 251B
		18	BC 307B			18	BC 307B
		20	BC 557B			20	BC 557B
		27	2SA 844			27	2SA 844
1TR16	8320454	17	BF 423	2TR5	8320108	20	BC 172B
1TR17	8320108	20	BC 172B	2TR6		20	BC 183B/BK
		20	BC 183B/BK	2TR8-		17	BC 183BL
		17	BC 183BL	2TR10		20	BC 238B
		20	BC 238B			20	BC 548B
		20	BC 548B				
1TR18	8320152	20	BC 212B/BK	7TR1-	*Δ 8320396	24	MPF 4392
		17	BC 212BL	7TR3		24	2N 4392
		20	BC 251B			24	2N 5639
		18	BC 307B				
		20	BC 557B				
		27	2SA 844				

## IC's

11C1	△ 8340202	102	CD 4066 BCN	11C6	8340240	123	LM 320 T-15
		102	HEF 4066 BP			123	MC 7915 CT
		102	MC 14066 BCP			123	UA 7915 UC
		102	MSM 4066 RS				
11C2	8340763	136	LF353-TL072	21C1	8340048	103	MC 1458 CP1
						103	MC 1458 N
11C3	8340048	103	MC 1458 CP1			103	MC 1458 P
		103	MC 1458 N			103	SFC 2458 DC
		103	MC 1458 P				
		103	SFC 2458 DC				
11C5	8340064	105	UA 7815	51C1	8340054	19	MPS A13
		105	UA 7815 UC			19	TPS A13
		105	LM 340 T-15				
1D1	8300466		B125 C1500	2D1	8300058	217	SFD 184
1D2-	8300058	217	SFD 184	2D3-		209	1N 4148
1D12		209	1N 4148	2D7		215	1N 4148
		215	1N 4148				
1D15	8300409	214	BAV 20-25	4D1	8300058	217	SFD 184
						209	1N 4148
						215	1N 4148
1D16	8300541		Z 3V3				
1D17-	8300058	217	SFD 184	5D2	8300497		KBU 6D
1D20		209	1N 4148				
		215	1N 4148				
1D21	8300407	209	BZX79B 12				
		209	BZX83B 12				
		209	ZPD 12V				

## Diodes

- △ betyder at statisk elektricitet kan ødelægge komponenten.  
 △ indicates that static electricity may destroy the component.  
 △ bedeutet, daß statische Elektrizität die Komponente zerstören kann.  
 △ signifi que électricité statique peut detruire le composant.

- \* Speciel udvalgt eller bearbejdet eksemplar.  
 \* Specially selected or adapted sample.  
 \* Speziell ausgewähltes und bearbeitets Exemplar.

## LIST OF ELECTRICAL PARTS

Resistors not mentioned are standard resistors

### Standard resistors:

Resistors 5% 1/2 W

	X1	X10	X100	X1K	X10K	X100K	X1M	X10M
1.0		5011000	5011013	5011028	5011044	5010313	5011069	5011083
1.2	5011406	5011001	5011014	5011030	5011045	5011058	5010421	
1.5	5010727	5011002	5011015	5011031	5011046	5011059	5011071	
1.8	5010857	5010787	5011016	5011033	5011047		5011072	
2.2	5011335	5010708	5010815	5011034	5011048	5011061	5011074	
2.7		5010803	5011018	5011035	5011049	5011062	5011075	
3.3	5010255	5011007	5011019	5011037		5011063	5010381	
3.9		5010782	5011021	5010700	5011051		5010392	
4.7	5010765	5011009	5011022	5010035	5010036	5011065	5011078	
5.6		5011010	5011023	5011041		5011066	5011079	
6.8	5010874	5011011	5011024	5011042	5010810	5011067	5011080	
8.2		5011012	5011026	5011043	5010038	5011068	5011081	

Resistors 5% 1/4 W

	X1	X10	X100	X1K	X10K	X100K	X1M	X10M
1.0	5010592	5010506	5010065	5010040	5010059	5010049	5010054	5010638
1.2		5010595	5010128	5010153	5010046	5010047	5010665	
1.5		5010468	5010057	5010247	5010053	5010063	5010093	
1.8		5010822	5010362	5010066	5010135	5010072	5010791	
2.2	5010682	5010448	5010092	5010064	5010079	5010120	5010245	
2.7	5010925	5010403	5010000	5010298	5010141	5010083	5010431	
3.3		5010253	5010044	5010076	5010075	5010117	5010848	
3.9		5010622	5010070	5010069	5010060	5010073	5010714	
4.7	5010888	5010411	5010058	5010048	5010045	5010077		
5.6	5010706	5010151	5010067	5010041	5010061	5010071	5010658	
6.8	5010904	5010039	5010144	5010052	5010062	5010074		
8.2	5010880	5010056	5010068	5010154	5010091	5010505		

### Amplifier, 8002915, PCB 1

R1	5020363	51.1 k $\Omega$ 1% 1/4W	R79	5020633	150 $\Omega$ 5% 0.35W
R4	5020126	113 k $\Omega$ 1% 1/4W	R95	5370341	100 $\Omega$ 20% 0.1W
R8	5020126	113 k $\Omega$ 1% 1/4W	R99	5100203	0.47 $\Omega$ 10% 2W
R11	5020363	51.1 k $\Omega$ 1% 1/4W	R100	5100203	0.47 $\Omega$ 10% 2W
R35	5220036	330 k $\Omega$ 10% 1/2W	R101	5100203	0.47 $\Omega$ 10% 2W
R56	5020200	2.1 k $\Omega$ 1% 1/4W	R102	5100203	0.47 $\Omega$ 10% 2W
R57	5020200	2.1 k $\Omega$ 1% 1/4W	R103	5100203	0.47 $\Omega$ 10% 2W
R59	5370351	220 $\Omega$ 20% 0.1W	R104	5100203	0.47 $\Omega$ 10% 2W
R73	5020127	10 k $\Omega$ 5% 1W			

C1	4200477	4.7 $\mu$ F 20% 25V	C26	4100234	220 pF 5% 63V
C2	4200477	4.7 $\mu$ F 20% 25V	C27	4200476	0.47 $\mu$ F 20% 50V
C3	4100232	100 pF 5% 63V	C29	4200665	470 $\mu$ F 20% 63V
C4	4000136	22 pF 5% 63V	C30	4010027	1 nF 10% 63V
C5	4200423	2.2 $\mu$ F 20% 50V	C31	4200652	100 $\mu$ F 20% 100V
C6	4010064	560 pF 10% 63V	C32	4010061	2.2 nF 10% 63V
C7	4010064	560 pF 10% 63V	C33	4010061	2.2 nF 10% 63V
C10	4010041	10 nF -20+80% 40V	C34	4010061	2.2 nF 10% 63V
C11	4010041	10 nF -20+80% 40V	C35	4003059	22 pF 5% 500V
C13	4130179	100 nF 20% 63V	C36	4000020	4.7 pF 0.25 pF 63V
C14	4200431	10 $\mu$ F 20% 16V	C37	4010063	4.7 nF 10% 63V
C15	4130179	100 nF 20% 63V	C38	4010024	470 pF 10% 63V
C16	4130179	100 nF 20% 63V	C39	4200478	100 $\mu$ F 20% 10V
C17	4130179	100 nF 20% 63V	C40	4010063	4.7 nF 10% 63V
C18	4200311	220 $\mu$ F -10+100% 40V	C45	4130195	22 nF 5% 250V
C19	4200509	33 $\mu$ F 20% 25V	C46	4130155	1 $\mu$ F 10% 100V
C20	4200311	220 $\mu$ F -20+100% 40V	C47	4130308	220 nF 10% 63V
C21	4200509	33 $\mu$ F 20% 25V	C48	4012002	10 nF -20+50% 400V
C22	4200704	470 $\mu$ F 20% 25V	C49	4130155	1 $\mu$ F 10% 100V
C25	4200431	10 $\mu$ F 20% 16V	C50	4130308	220 nF 10% 63V

P1	7220143	Plug 14 pol.	P3	7220313	Plug 3 pol.
P2	7220203	Plug 10/9 pol.	P5	7220196	Plug 4/3 pol.

L1	6850114	Coil 0.5 $\mu$ H
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**Control, 8002831, PCB 2**

C1	4200333	1 $\mu$ F -10+50% 63V	C9	4010027	1 nF 10% 63V
C2	4130310	1 $\mu$ F 10% 50V	C10	4200333	1 $\mu$ F -10+50% 63V
C3	4010027	1 nF 10% 63V	C11	4010041	10 nF -20+80% 40V
C4	4200016	22 $\mu$ F -10+50% 25V	C12	4010041	10 nF -20+80% 40V
C5	4000057	47 pF 5% 63V	C13	4010041	10 nF -20+80% 40V
C6	4000057	47 pF 5% 63V	C16	4010061	2.2 nF 10% 63V
C7	4130223	47 nF 10% 63V	C17	4010061	2.2 nF 10% 63V
C8	4130223	47 nF 10% 63V			

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S1	7400350	Switch	S3	7400350	Switch
S2	7400350	Switch			

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**Fuses, 6271040, PCB 3  
type 6601/02****Fuses, 6270343, PCB 3 type 6605**

F1	6600009	Fuse 2A 250V
F2	6600070	Fuse 40MA 250V
	7200052	Fuse holder

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**Fuses, 6270342, PCB 3  
type 6603/04**

F1	6600019	Fuse 5A 250V
F2	6600069	Fuse 150MA 250V
	7200052	Fuse holder

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**Relay, 8002784, PCB 4**

RL1	7600069	Relay
	3917109	Damping material

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**Signal level, 8002916, PCB 7**

C1	4130311	680 nF 10% 63V
C2	4130309	330 nF 10% 63V
C3	4130310	1 $\mu$ F 10% 50V

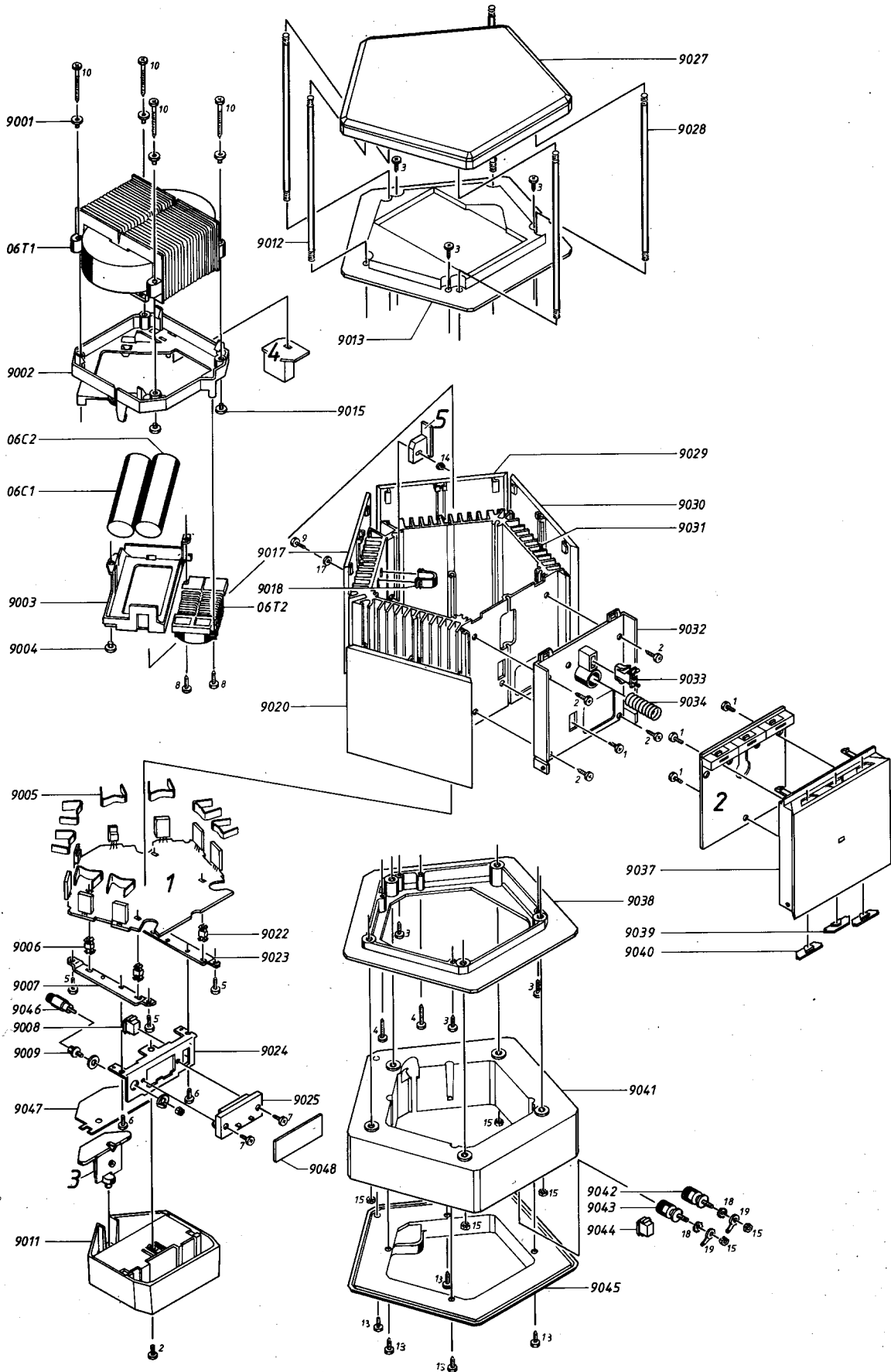
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P1	7220544	Plug 5 pol.
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MEKANISK STYKLISTE  
LIST OF MECHANICAL PARTS



9001	2938154	Bøsning	Bushing
9002	3152455	Holder f. elektrolytter	Holder for electrolytes
9003	3164608	Låg f. elektrolytter	Cover for electrolytes
9004	2938154	Bøsning	Bushing
9005	2819157	Bøjle	Clamp
9006	3152063	Holder f. PCB 1	Holder for PCB 1
9007	2542669	Vinkel f. PCB 1	Bracket for PCB 1
	3947202	Skumtape i metermål	Foam tape by the meter
9008	7210521	Stikdåse 4 pol.	Socket 4 pole
9009	7210567	Stikdåse phono	Phono socket
9011	3164627	Dæksel f. stikbrønd	Cover for socket
9012	2076007	Gevindstykke	Threaded piece
9013	3162266	Sammenspændingsstykke	Assembling piece
9015	2938154	Bøsning	Bushing
9017	3164648	Dækplade m. tryk, type 1721	Cover plate with print, type 1721
	3164649	Dækplade m. tryk, type 1722	Cover plate with print, type 1722
	3164650	Dækplade m. tryk, type 1723	Cover plate with print, type 1723
	3164651	Dækplade m. tryk, type 1724	Cover plate with print, type 1724
	3164652	Dækplade m. tryk, type 1725	Cover plate with print, type 1725
9018	3152507	Ledningsholder	Wire holder
9020	3164602	Dækplade	Cover plate
9022	3152063	Holder f. PCB 1	Holder for PCB 1
9023	2542669	Vinkel f. PCB 1	Bracket for PCB 1
	3947202	Skumtape i metermål	Foam tape by the meter
9024	2542668	Vinkel f. stik	Bracket for socket
9025	7210509	Dobbelt stikterminal	Double socket terminal
9027	3458492	Top	Top
9028	2076007	Gevindstykke	Threaded piece
9029	3164603	Dækplade	Cover plate
9030	3164602	Dækplade	Cover plate
9031	2568847	Køleprofil	Heat sink
9032	3452527	Bagstykke, betjening	Rear cover, control
9033	3034066	Lås f. låg	Lock for lid
9034	2812113	Trykfeder	Pressure spring
9037	3168687	Betjeningspanel	Control panel
9038	3162268	Sammenspændingsstykke	Assembling piece
9039	2776037	Knap omskifter	Switch button
9040	2776037	Knap omskifter	Switch button
9041	3454443	Mellemsektion	Intermediate section
9042	7210595	Bøsning, rød	Bushing, red
9043	7210596	Bøsning, sort	Bushing, black
9044	7211047	Stikdåse 2 pol. DIN	Socket 2 pole DIN
9045	3454444	Bundplade	Bottom plate
9046	7220591	Kortslutningsstik	Short-circuit plug
9047	3302426	Isolationsstykke	Insulation piece
	3947202	Skumtape i metermål, til isolationsstk.	Foam tape by the meter for insulation piece
9048	6141199	PCB for stikterminal	PCB for socket terminal

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01 Modul 8002915 PCB forstærker PCB amplifier

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02 Modul 8002831 PCB betjening PCB control

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03 Modul 6271040 PCB sikringer, netledning  
type 1721/22 PCB fuses, mains lead  
type 1721/22  
6270342 PCB sikringer, netledning  
type 1723/24 PCB fuses, mains lead  
type 1723/24  
6270343 PCB sikringer, netledning  
type 1725 PCB fuses, mains lead  
type 1725  
7200052 Sikringsholdere Fuse holders

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04 Modul 8002784 PCB relæ PCB relay  
3917109 Dæmpemateriale Damping material

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05 Modul 8002832 PCB netdel PCB power supply unit

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06T1 8013369 Transformator,  
type 1721/22/25 Transformer, type 1721/22/25  
8013375 Transformator, type 1723 Transformer, type 1723  
8013376 Transformator, type 1724 Transformer, type 1724

06T2	8013370	Transformator, type 1721/22/23/25	Transformer, type 1721/22/23/25
	8013377	Transformator, type 1724	Transformer, type 1724
06C1	4200653	10000 $\mu$ F 20% 80V	10000 $\mu$ F 20% 80V
06C2	4200653	10000 $\mu$ F 20% 80V	10000 $\mu$ F 20% 80V
	3917109	Dæmpemateriale	Damping material

**Oversigt skruer, skiver m.m.**  
**Survey of screws, washers etc.**

1	2013208	Skrue M 2,9 x 9,5	Screw M 2.9 x 9.5
2	2039027	Skrue AM 3 x 6	Screw AM 3 x 6
3	2015088	Skrue M 3,5 x 16	Screw M 3.5 x 16
4	2015116	Skrue 3,5 x 25	Screw 3.5 x 25
5	2015201	Skrue M 3,5 x 9,5	Screw M 3.5 x 9.5
6	2039026	Skrue AM 3 x 4	Screw AM 3 x 4
7	2039028	Skrue AM 3 x 8	Screw AM 3 x 8
8	2015008	Skrue U 3,5 x 13	Screw U 3.5 x 13
9	2039014	Skrue AM 3 x 20	Screw AM 3 x 20
10	2015115	Skrue M 3,5 x 50	Screw M 3.5 x 50
13	2013017	Skrue M 2,9 x 13	Screw M 2.9 x 13
14	2380011	Møtrik M3	Nut M3
15	2380016	Møtrik M4	Nut M4
17	2624013	Skive	Washer
18	2625003	Stjerneskrive	Tooth lock washer
19	7530111	Loddeflig	Solder tag

**Ikke viste dele**  
**Parts not shown**

3170169	Glimmerskrive	Mica washer
6275627	Ledningsbundet m. DIN stik	Wire bundle with DIN plug
3391822	Yderæske	Outer carton
3397597	Skumemballage	Foam packing
3946038	Folie i meter	Foil by the meter

## JUSTERINGER

## Tomgangsstrøm

Tomgangsstrøm justeres medens forstærkeren er kold og uden signal tilført.

Højtaler må ikke være tilsluttet.

DC millivoltmeter tilsluttes over 1R103/1R104.

1R95 justeres til 30 mV.

## Offset

DC voltmeter tilsluttes højtalerudgangen.

1R59 justeres til 0 V.

## ADJUSTMENTS

## No-load current

Adjust the no-load current while the amplifier is cold and without any supply of signal.

The loudspeakers must not be connected to the amplifier.

Connect the DC millivoltmeter over 1R103/1R104.

Adjust 1R95 to 30 mV.

## Offset

Connect the DC voltmeter to the loudspeaker output.

Adjust 1R59 to 0 V.

## TECHNICAL SPECIFICATIONS

Power output 20-20,000 Hz IHF	1 x 150 watts/8 ohms
Power output RMS DIN/IEC	1 x 175 watts/8 ohms
Power output music	1 x 225 watts/8 ohms
Total harmonic distortion THD	<0.015%
Intermodulation distortion IHF	<0.02%
Wideband damping factor IHF	150
Dynamic headroom IHF	>1.5 dB/8 ohms
S/N A-weighted 1 W IHF	>78 dB
S/N A-weighted 150 W	>100 dB
LINE input	80 mV/1W, 1V/150 W, 22 kohms, phono plugs
Speaker input	800 mV/1W, 10 V/150 W, 15 kohms, DIN 4-pin or spring loaded contacts
Bass level switch	Linear, +3dB/40 Hz, +6 dB/40 Hz
Sensitivity switch	0 dB, -3 dB, -6 dB
Power supply	1721: 220 V 1722/1725: 240 V 1723: 120 V 1724: 100 V
Power frequency	50-60 Hz
Dimensions W x H x D	5-13 x 25 cm (5-5" x 10")
Weight	7 kg (15.4 lbs)

Subject to change without notice

Sensitivity switch	Input for 150 W output	Amplifier for 4 ohms output	Amplifier for 8 ohms output
MAX.	10 V	- 25 W	- 12 W
MED.	14.1 V	25 W - 50 W	12 W - 25 W
MIN.	20 V	50 W - 100 W	25 W - 50 W

## SERVICE TIPS

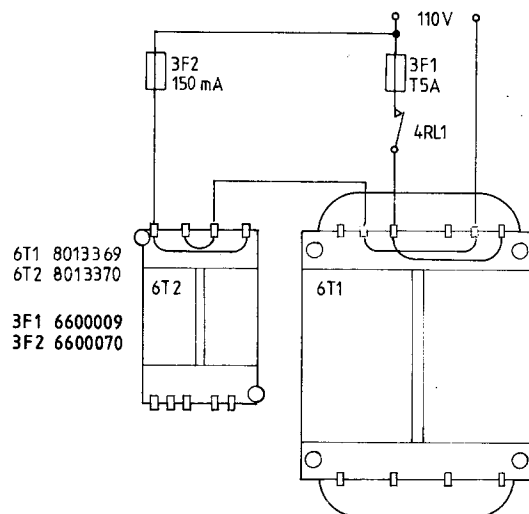
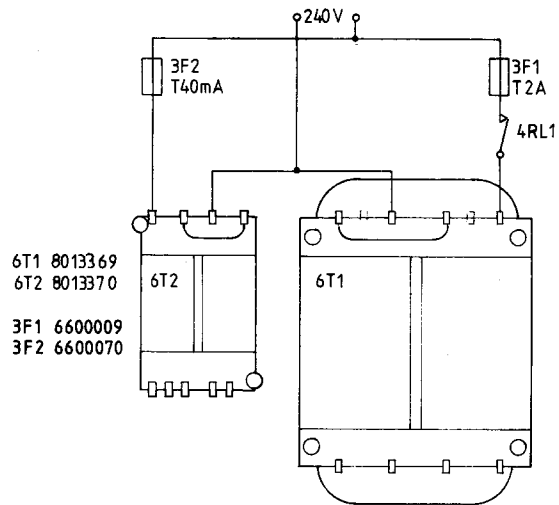
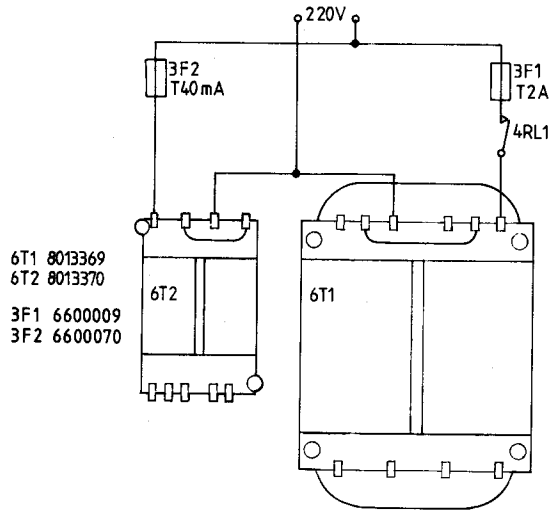
### Ledningsmontering på nettransformatorer

### Wiring of Mains Transformers

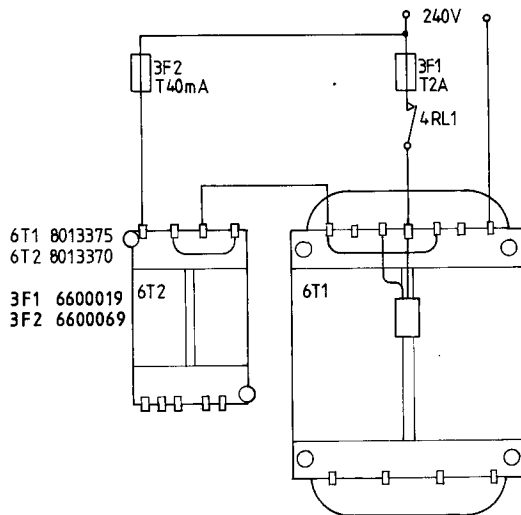
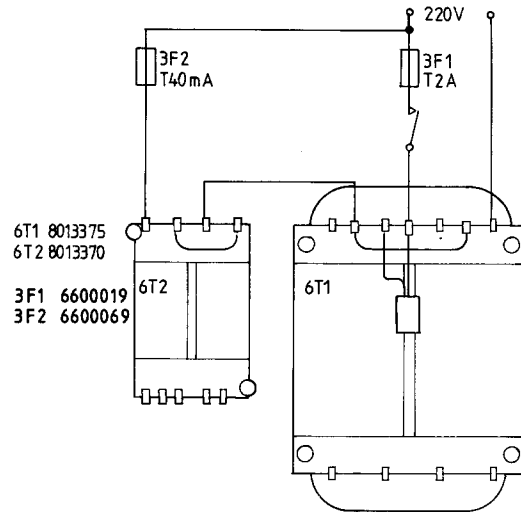
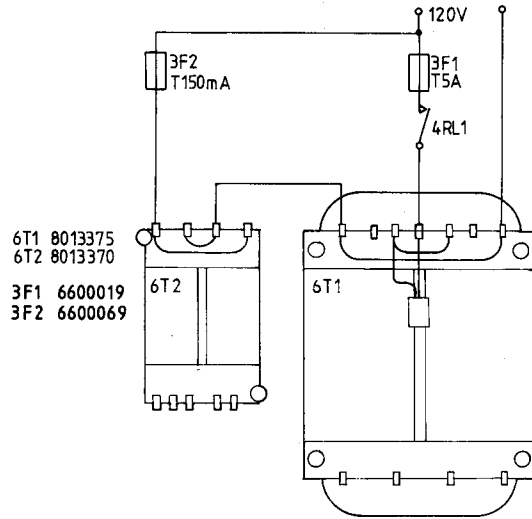
Type 1721

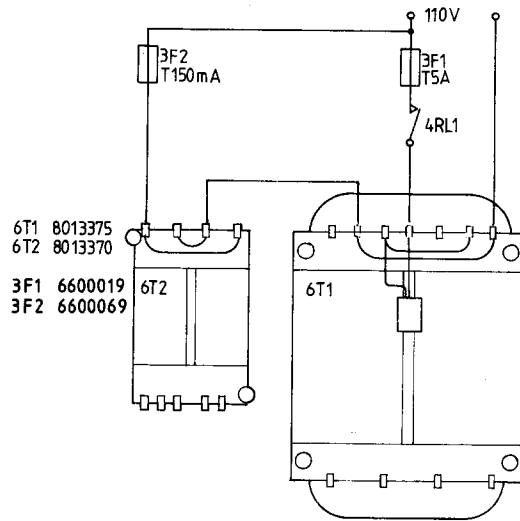
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Type 1725

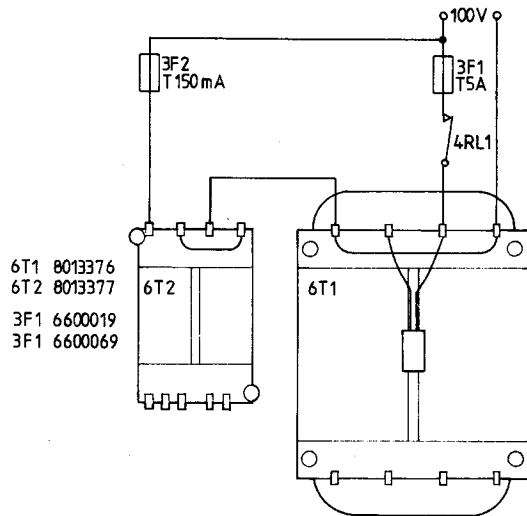


Type 1723





Type 1724



**ISOLATIONSTEST**

Ethvert apparat skal isolationstestes efter at det har været adskilt. Testen udføres når apparatet igen er helt samlet og klar til udlevering til kunden.

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes en af terminalerne på isolationstesteren. Den anden terminal fra isolationstesteren tilsluttes den sorte klembøsning i AMP LEVEL INPUT.

**OBS!**

For at undgå beskadigelser på apparatet er det vigtigt, at begge terminaler fra isolationstesteren har virkelig god mekanisk kontakt.

Der drejes nu langsomt med spændingsreguleringen på isolationstesteren indtil en spænding på 1,5 - 2 kV er opnået. Her skal den holdes i 1 sekund, derefter drejes der langsomt ned for spændingen igen.

Der må ikke på noget tidspunkt under testen forekomme overslag.

**INSULATION TEST**

Each set must be insulation tested after dismantling. The test is to be performed when the set has been reassembled and is ready for delivery to the customer.

Make the insulation test as follows:

Short-circuit the two plug pins of the mains plug and connect one of the terminals of the insulation tester. Connect the other terminal of the insulation tester to the black spring loaded contact marked AMP LEVEL INPUT.

**N.B.!**

To avoid ruining the set, it is essential that both insulator test terminals are in really good mechanical contact.

Now turn slowly the voltage control of the insulation tester until a voltage of 1.5 - 2 kV is obtained. Hold it there for 1 second, then turn slowly the voltage down again.

At no point during the testing procedure any flashovers are permissible.