

Bang & Olufsen

Beovision LX 4500/5500

Type 39xx

Beovision LX 4500/5500 White/Grey Line

Beovision L 4500/5500

Type 39xx

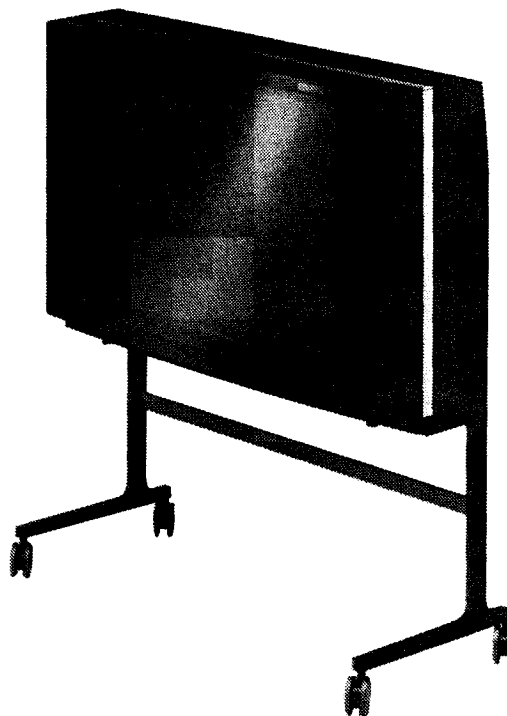
Beovision MX 3500

Type 316x/317x/318X

Beovision MX 5500

Type 326x/327x/328x

Picture-in-picture



12966

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SERVICEANVISNING
SERVICE MANUAL



INDHOLDSFORTEGNELSE

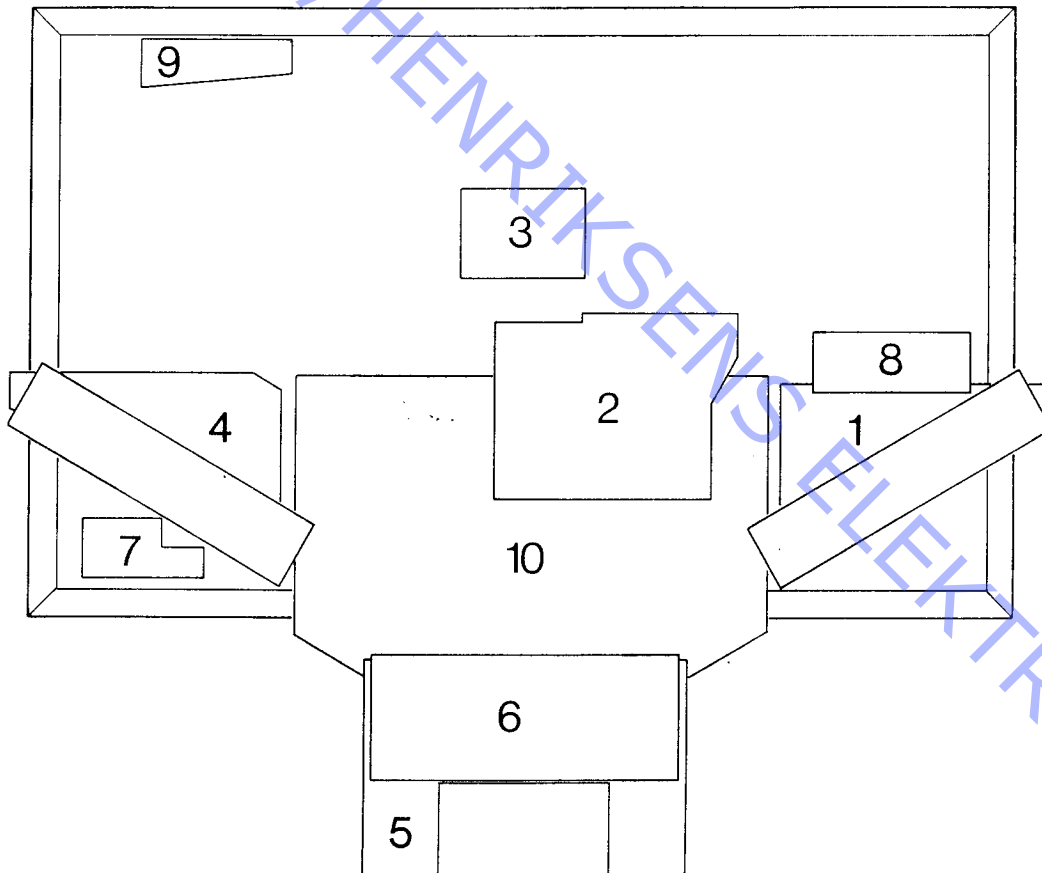
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
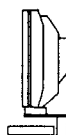




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1 Tuner and IF System I diag. A page 2-3	7 Headphone diag. C page 2-5
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TECHNICAL SPECIFICATIONS	Beovision MX3500 – L/LX 4500 – L/LX/MX5500
CTV system	Multistandard B/G/L In GB version: only I
Colour system	Pal/Secam, NTSC A/V 4.43 MHz/3.58 MHz
Picture tube (Visual picture)	MX3500 55 cm-21" (51 cm-20") L/LX 4500 63 cm-25" (59 cm-23") L/LX/MX5500 70 cm-28" (66 cm-26")
Picture tube system	Flat square, Hi-Bri, In-Line 110 degrees
Contrast screen (only LX/MX)	With metallized coating
Design	L/LX Wide format cabinet MX High format cabinet
Cabinets	MX White – Black – Red – Grey – Blue LX Rosewood – White – Black – Grey – White Line L Teak – Rosewood – Grey metallic
Main features	
Operation	Beolink 1000, one-way Prepared for two-way
Sound center balance	Between Beolab and Beovision speakers
Specifications	
Sound system	Built-in Nicam EU + A2 stereo dekodere Built-in Nicam EU + A2 dual language
TV tuner range	46-855 MHz: VHF, S, Hyper, UHF
No. of TV programmes	50
Satellite	Prepared for Beosat LM-kit
No. of satellite programmes	64
Signal/noise level	>35 dB/1 Vpp and antenna signal >1 mV
Crosstalk between sources	>45 dB/5 MHz
Teletext	FLOF, TOP, 5 alphabet, 6 alphabet (E)
Teletext memory	4 x 50 page nos.
Station identification	Via Teletext/station naming
Speaker system	L/LX 2 x Bass reflex MX 2 x Log Line
Speaker units	LX5500 – Woofer 2 x 10 cm-4" Tweeter 2 x 5 cm-2" LX4500 – Woofer 2 x 7.5 cm-3" Tweeter 2 x 5 cm-2" L 5500 – Full range 2 x 10 cm-4" L 4500 – Full range 2 x 7.5 cm-3" MX3500 – Full range 2 x 7.5 cm-3" MX5500 – Full range 2 x 7.5 cm-3"
Crossover frequency	LX4500 – LX5500: 2500 Hz
Long-term max. output power	2 x 40 watts/8 ohms
Harmonic distortion	<0.5% at 15 watts
Intermodulation	<1 %
Signal/noise ratio	>50 dB weighted 50 mW (NICAM >70 dB)
Frequency range, audio	25 – 20,000 Hz \pm 1.5 dB
Power bandwidth	25 – 20,000 Hz
Bass control	\pm 8 dB/100 Hz
Treble control	\pm 8 dB/10,000 Hz
Mains voltage	220-240 volts, 50-60 Hz
Power consumption	100 (75-165) watts
Power consumption Stand-by	3 watts
Dimensions WxHxD/weight	LX5500 – 86 x 52 x 46 cm/43 kg L 5500 – 86 x 52 x 46 cm/40 kg LX4500 – 77.5 x 47.5 x 42.5 cm/36.5 kg L4500 – 77.5 x 47.5 x 42.5 cm/32.6 kg

	MX3500 – 51x55x41.5 cm/23 kg
	MX5500 – 54.5x66x45 cm/ 42 kg
Connections	
AV Link	2 x 21-pin Euro – sockets
Super VHS	YC playback 4-pin socket
Audio Aux Link	7-pin socket
Power Link	2 x 8-pin sockets
External speakers	2 x 2-pin sockets
Motorized stand operation	4-pin socket
Aerial VHF – UHF	75 ohms coaxial socket
Stereo headphones	Jack socket 6 mm
Accessories	
Beosat LM kit/Positioner	3002/3012
AVX 1 Expander Box	With 3 x 21-pin AV Link Euro sockets, 2 x 7 pin Audio Aux Link sockets
Loop amplifier	3098
Picture in picture	4120 (LX), 4121 (MX)
NTSC system M kit	3050 (Not for GB)
Stereo headphones	Form 1 – Form 2
Transposer/Cap	8003719/3131276
Stands for Beovision and Video	

	MX 5500	MX 3500
TV stands or Video stands VX 5000	 ST MX 55 4109  SH VX 50 4113	 ST MX 35 4110  SH VX 50 4113
Motorized TV stand or Motorized video stand	 MS MX 55 4107  SH VX 50 4113	
Motorized TV base	 MB MX 55 4102	 MB MX 35 4105
Wall bracket		 WBM 35 4114











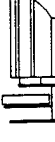



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Abbreviations:

ST Stand for Beovision
 SH Shelf for VX
 MS Motorized stand
 MB Motorized base
 WB Wall bracket

Finish:

ST MX 55, 35 Metallic grey
 MS MX 55 Metallic grey
 MB MX 55 Aluminium
 MB MX 35 Aluminium
 SH VX 50 Black
 WBM 35 Black

	LX / L 5500	LX / L 4500
TV stands	 ST LX 55 - 45 4108  Traverse 55 4103	 ST LX 55 - 45 4108  Traverse 45 4104
Video stands VX 5000	 ST LX 55 - 45 4108  SH LX 55 4111	 ST LX 55 - 45 4108  SH LX 45 4112
Motorized TV stand or Motorized video stand	 MS LX 55-45 4106  SH VX 50 4113	 MS LX 55-45 4106  SH VX 50 4113
Motorized TV base	 MB LX 55-45 4101	 MB LX 55-45 4101

Abbreviations:

ST Stand for Beovision
 SH Shelf for VX
 MS Motorized stand
 MB Motorized base

Finish:

ST LX 55-45 Black-White
 Traverse White-Metallic grey
 MS LX 55-45 Metallic grey
 MB LX 55-45 Black
 SH LX 55-45 Black
 SH VX 50 Black



Type Survey

LX 5500	LX 4500	L 5500	L 4500	MX 5500	MX 3500	System	Remarks	Market
3900	3920	3910	3930	3260	3160	B/G/L		DK-N-S-SF-B-A-D-F-CH-NL-GR
3901	3921	3911	3931	3261	3161	B/G/L	NICAM	DK-N-S-SF-B-A-D-F-CH-NL-GR
3902	3922	3912	3932	3262	3162	I		GB
3908	3923	3913	3933	3263	3163	I	NICAM	GB
3904	3924			3264	3164	B/G/L		I
3905	3925			3265	3165	B/G/L		AUS
3906	3926			3266	3166	B/G/L		E
3907	3927			3267	3167	B/G/L	NICAM	E
3909	3929			3269	3169	B/G/L	PIP	DK-N-S-SF-B-A-D-F-CH-NL-GR
3940	3970	3958	3988	3270	3170	B/G/L	SAT	DK-N-S-SF-B-A-D-F-CH-NL-GR
3943	3973	3961	3991	3273	3173	B/G/L	SAT + NIC	DK-N-S-SF-B-A-D-F-CH-NL-GR
3946	3976	3964	3994	3276	3176	I	SAT	GB
3949	3979	3967	3997	3279	3179	I	SAT + NICAM	GB
3952	3982			3282	3182	B/G/L	SAT	I
3955	3985			3285	3185	B/G/L	SAT	E
3956	3986			3286	3186	B/G/L	SAT + NICAM	E

Subject to change without notice

DIAGRAMFORKLARING

På diagrammerne er der angivet typenumre på transistorer og IC'er. Hvis positionsnummeret er efterfulgt af en stjerne, skal reservedelsnummeret altid benyttes, da denne komponent er specielt udvalgt, f.eks. TR102*.

Komponenttryk og koordinatsystem

De største printplader er forsynet med komponenttryk og et koordinatsystem på både print- og komponentside.

På diagrammerne er enhver komponent forsynet med et koordinatnummer. Dette fortæller i hvilket koordinat på printpladen, komponenten er placeret. Koordinatnumrene er angivet med mindre skrifttype end positionsnumrene.

Styrekredsløb

I visse styrekredsløb er den aktive tilstand angivet med en funktions- eller bogstavsangivelse. Denne kan eksempelvis være $\overline{ST.BY.}$ = »low« i stand-by-stilling eller $ST.BY.$ = »high« i stand-by-stilling.

Ledningsforbindelser

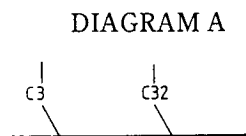
Ledningsforbindelserne på diagrammerne er samlet i »bundter«. De enkelte ledninger er forsynet med en af følgende koder:

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.

FORBINDELSE TIL EN ANDEN DIAGRAMSIDE



Forbindelsen til en anden diagramside angives med et tal samt et bogstav for det diagram, forbindelsen går til.

Forsyningsspændinger

Alle forsyningsspændinger i diagrammerne er angivet med en pil og en spændingsangivelse.

Eksempel:

Ved siden af spændingsangivelsen står der f.eks. 7 CON. Dette betyder, at den pågældende forsyningsspænding går til 7 steder på den pågældende diagramside (7 CON. = 7 connections).

EXPLANATION OF DIAGRAM

Type numbers of transistors and ICs are indicated on the diagrams.

If the position number is followed by an asterisk the spare part number must always be used because the component in question has been specially selected, e.g. TR102*.

Component print and coordinate system

The largest PCBs have component prints and a coordinate system on both the print and the component side.

On the diagrams every component has a coordinate number. This indicates in which coordinate on the PCB the component is situated. The coordinate numbers are written in smaller print types than the position numbers.

Control Circuit

In certain control circuits the active mode is indicated by a function term or by an abbreviation. This may be e.g. $\overline{ST.BY.}$ = low in the stand-by mode or $ST.BY.$ = high in the stand-by mode.

Wiring Connections

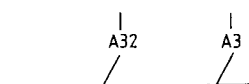
The wiring connections on the diagrams are assembled in 'bundles'. The individual wires are provided with one of the following codes:

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 is found.

CONNECTION TO ANOTHER DIAGRAM PAGE

DIAGRAM C



A connection to another diagram page is indicated by a number as well as by a letter of the diagram to which the connection leads.

Supply Voltages




All supply voltages in the diagrams are indicated by an arrow and a voltage indication.

Example:

"7 CON.". This means that the supply voltage in question goes to 7 different places on the diagram page in question (7 CON. = 7 connections).

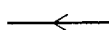
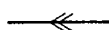

Stelsymboler

Der anvendes tre forskellige stelsymboler i diagrammerne som vist:

-  = Stel der ikke er galvanisk adskilt fra lysnettet (anvendes på diagram F, PCB4).
-  = Stel
-  = Signalstel

Signalveje og markering på IC'erne

Signalvejene er vist på diagrammerne ved hjælp af kraftigere optrukne streger og pile. Der anvendes tre forskellige typer pile som vist:

-  = Video, luminans og chrominans signaler
-  = Lydsignal
-  = Øvrige signaler

Pilene der er vist på benene af IC'erne, fortæller om det pågældende ben er en ind- eller udgang.

MÅLEBETINGELSER

Alle DC spændinger er målt i forhold til stel og med voltmeter med en indre modstand på mindst 2 Mohm.

DC spændinger og oscilloscopicbilleder er målt i TV mode ved et VHF antennesignal på ca. 1,5 mV. Lys step 32, kontrast step 44 og farvemætning step 32.

DC-spændingerne er opgivet i volt (V), f.eks. 0,7 V.

Alle oscillogrammer og AC-spændinger er målt i forhold til stel med et oscilloskop eller et voltmeter med en indgangsmodstand på 1 Mohm.




AC-spændingerne er opgivet i millivolt (mV), f.eks. 660 mV.

SYMBOL FOR SIKKERHEDSMODSTANDE

Ved udskiftning af komponenter med dette symbol skal der anvendes samme type, samt samme værdier for ohm og watt. Den nye komponent skal monteres på samme måde som den udskiftede.

Ground symbols

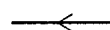


Three different ground symbols are used in the diagrams:

-  = Ground that is not galvanically separated from the mains. (Used in diagram F, PCB4).
-  = Ground
-  = Signal ground

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Signal paths and IC markings

The signal paths are shown in the diagrams by means of semibold lines and arrow heads. As shown, three different types of arrow head are used:

-  = Video, luminance and chrominance signals
-  = Sound signal
-  = Other signals

The arrow heads shown at the IC pins tell whether the pin indicated is an input or an output.

MEASURING CONDITIONS

Measure all DC voltages in relation to ground and with voltmeter with inner resistance of at least 2 Mohm.

Measure DC voltages and oscilloscope pictures in TV mode at an VHF aerial signal of approx. 1.5mV. Brilliance step 32, contrast step 44 and colour saturation step 32.

The DC voltages are stated in volts (V), e.g. 0.7 V.

All oscillograms and AC voltages have been measured in relation to ground with an oscilloscope or a voltmeter with an input resistance of 1 Mohm.

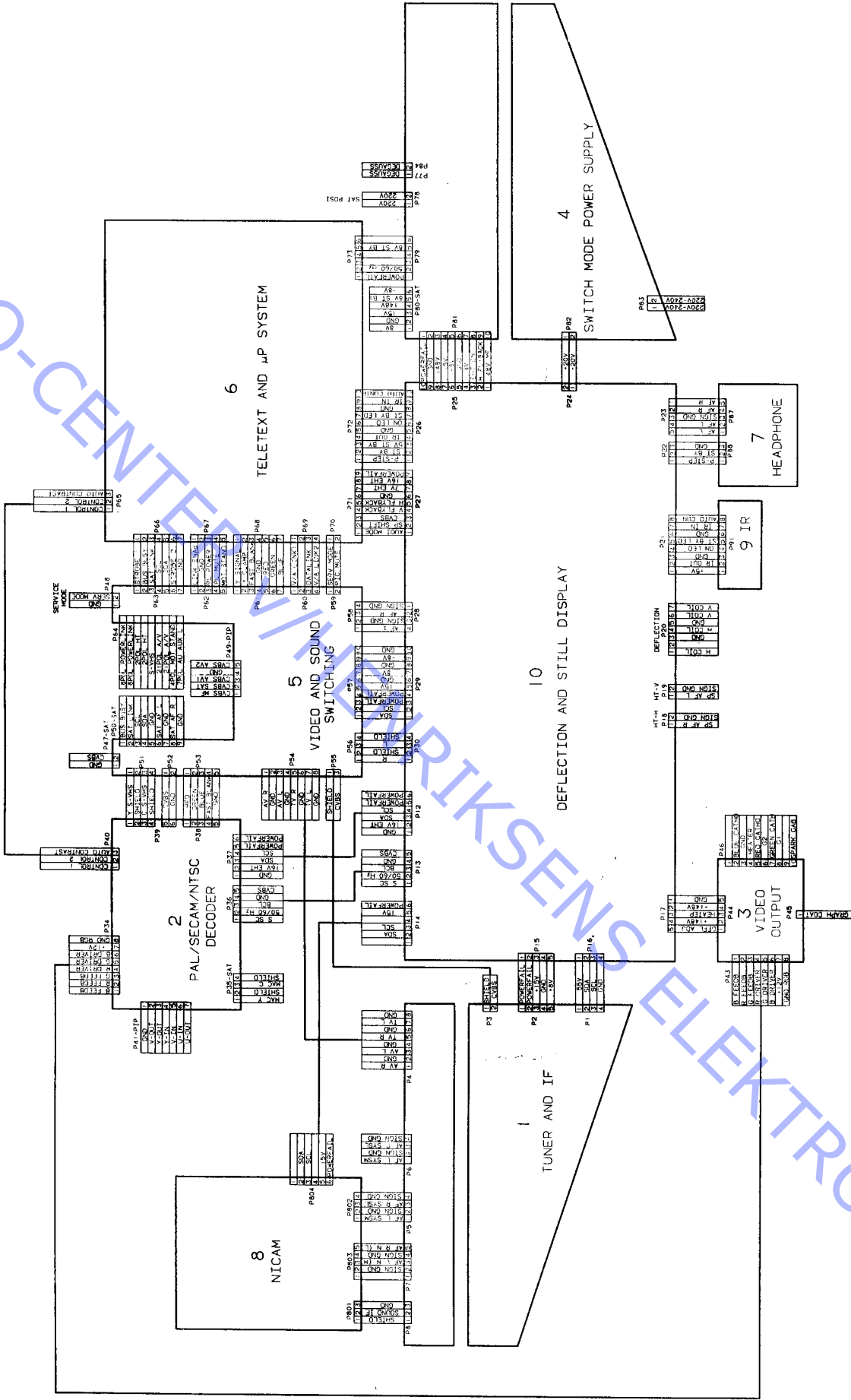
AC voltages are stated in millivolts (mV), e.g. 660 mV.

SYMBOL FOR SAFETY RESISTORS

When replacing components with this symbol the same type has to be used, also the same values for ohm and watt. The new component is to be mounted in the same way as the replaced one.

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PLUG SURVEY

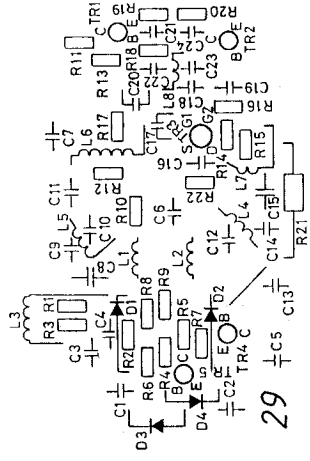
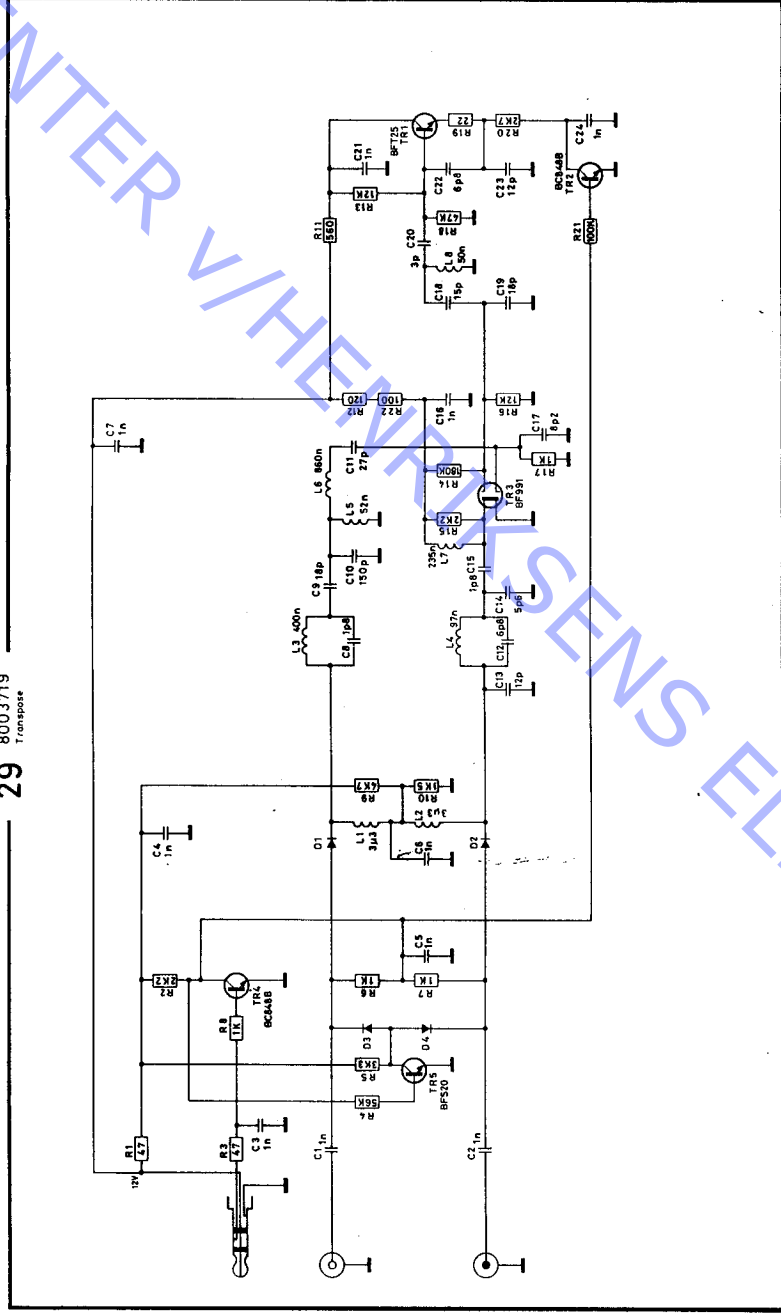


ABO-CENTER
RIKSENS ELEKTRONIK

TRANSPOSER

29 8003719

Transposer



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ABO-CENTER VITENS ESENS ELEKTRONIK

DIAGRAM A TUNER AND IF SYSTEM

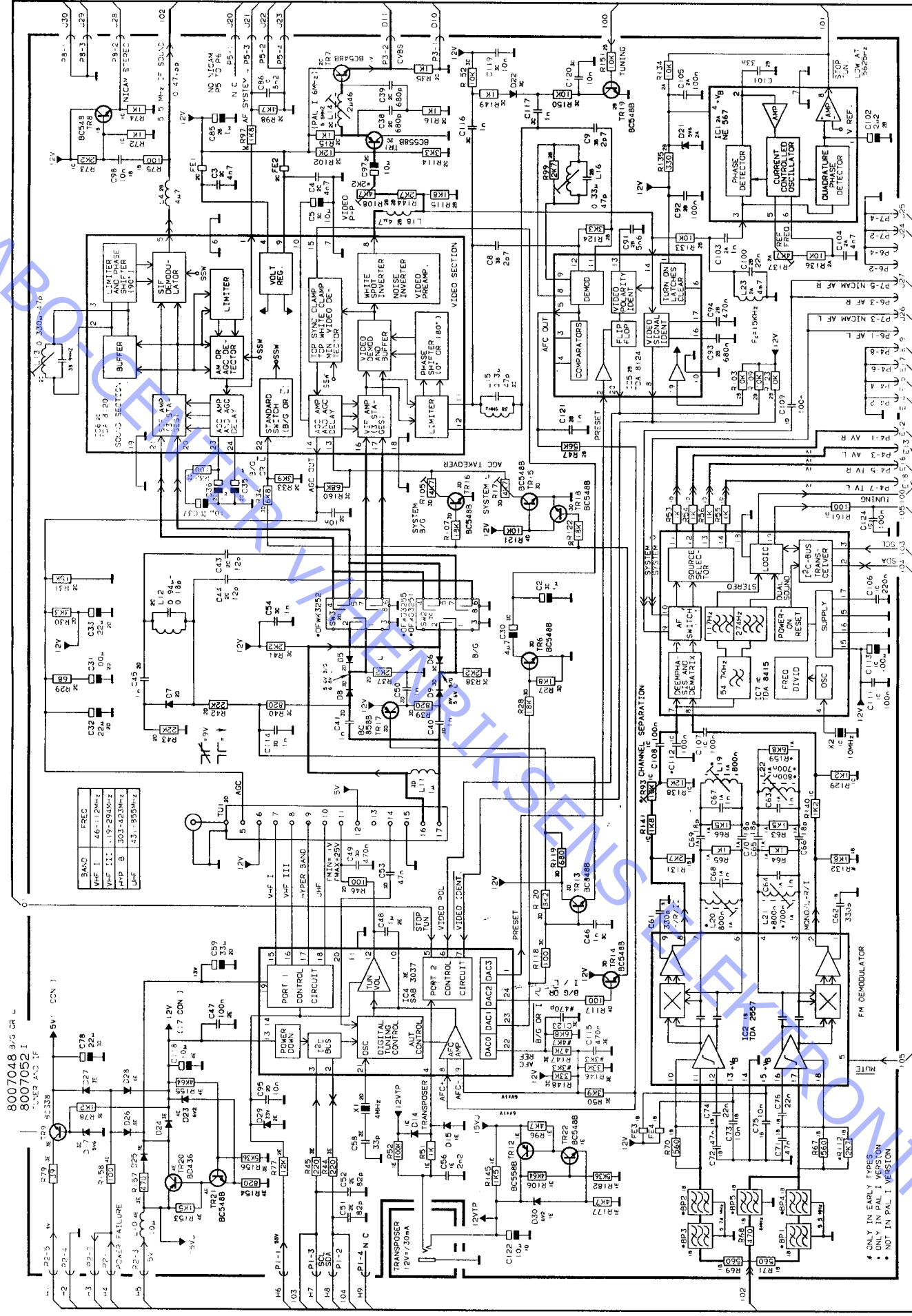


DIAGRAM B PAL/SECAM/NTSC DECODER

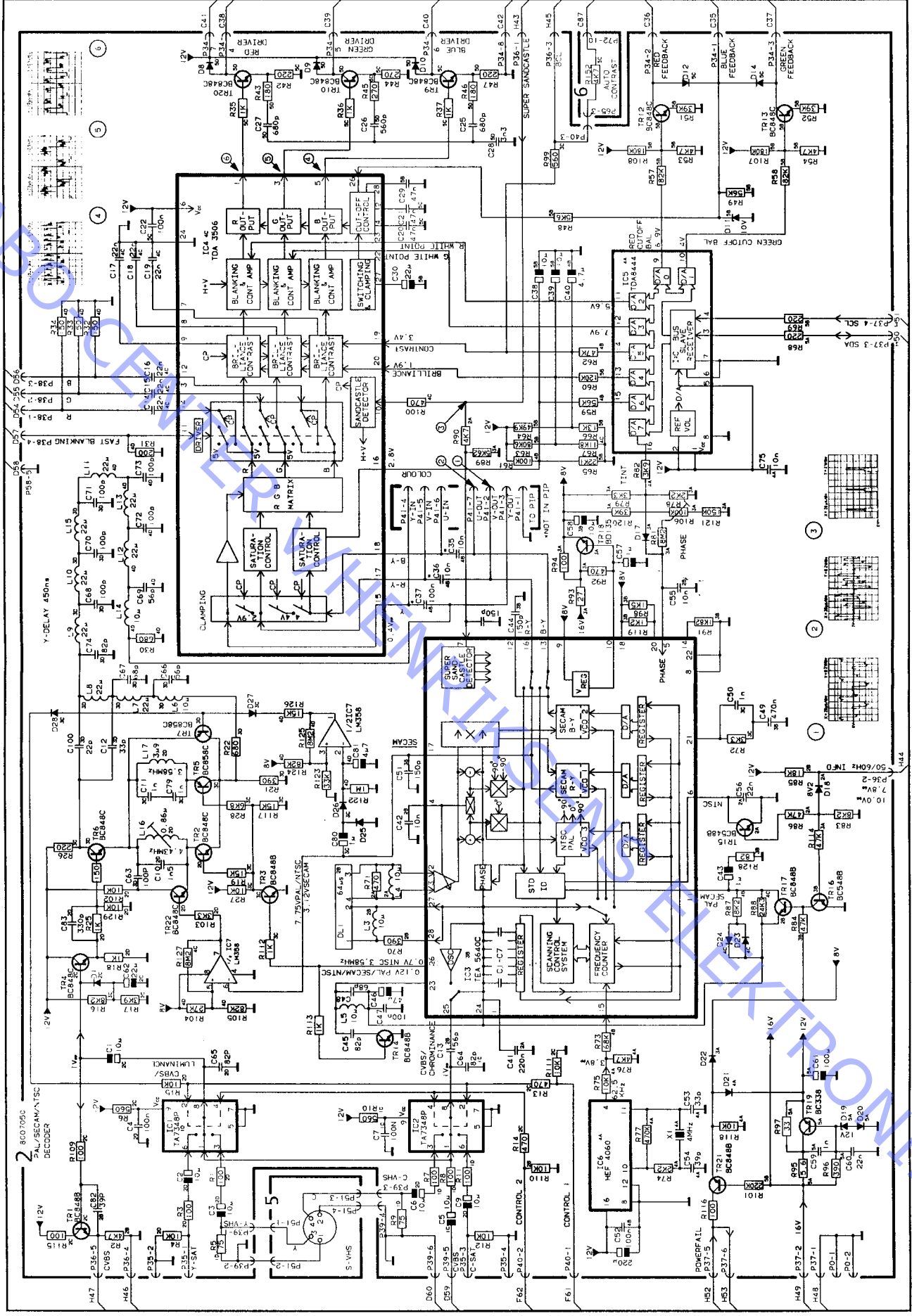
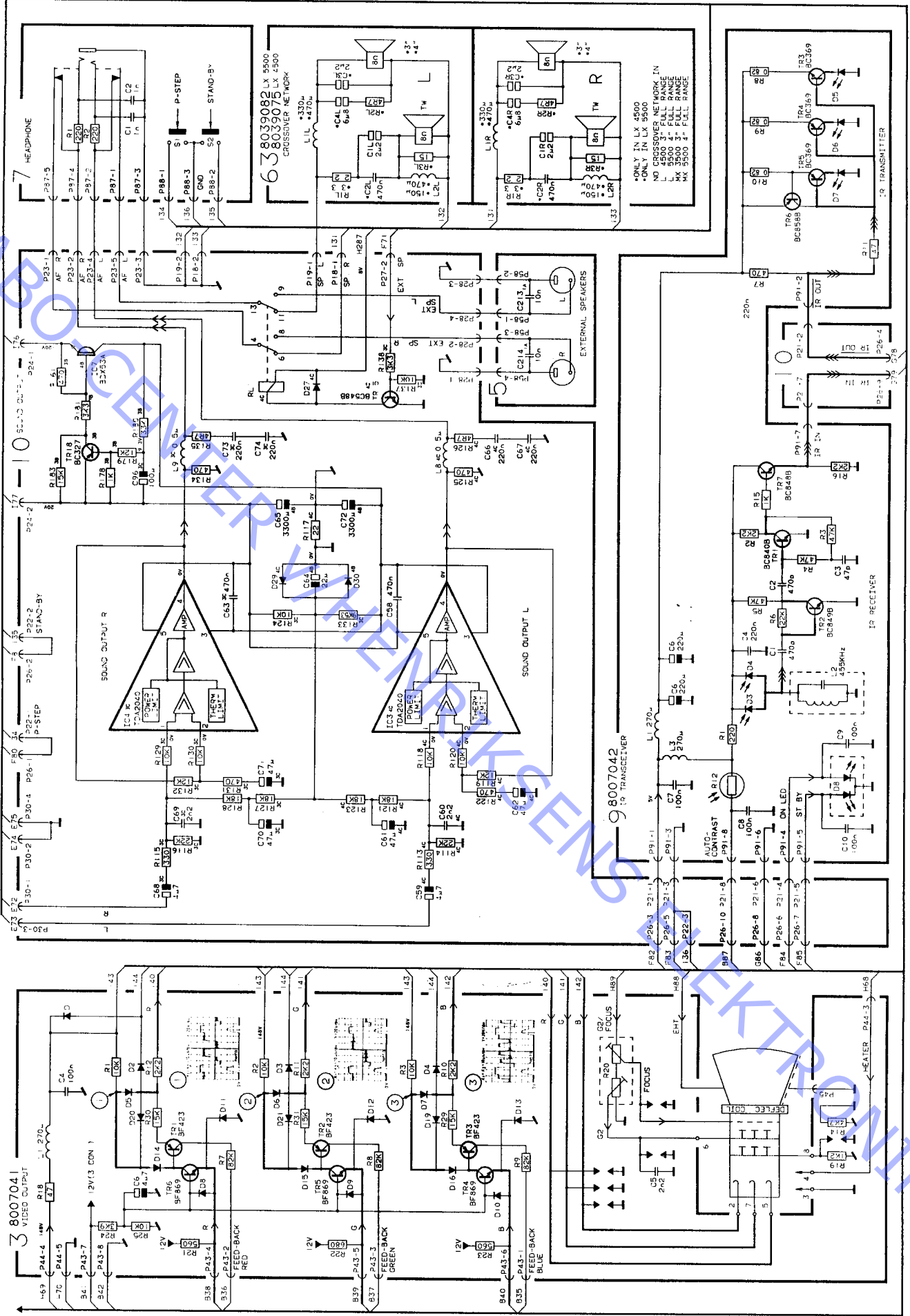
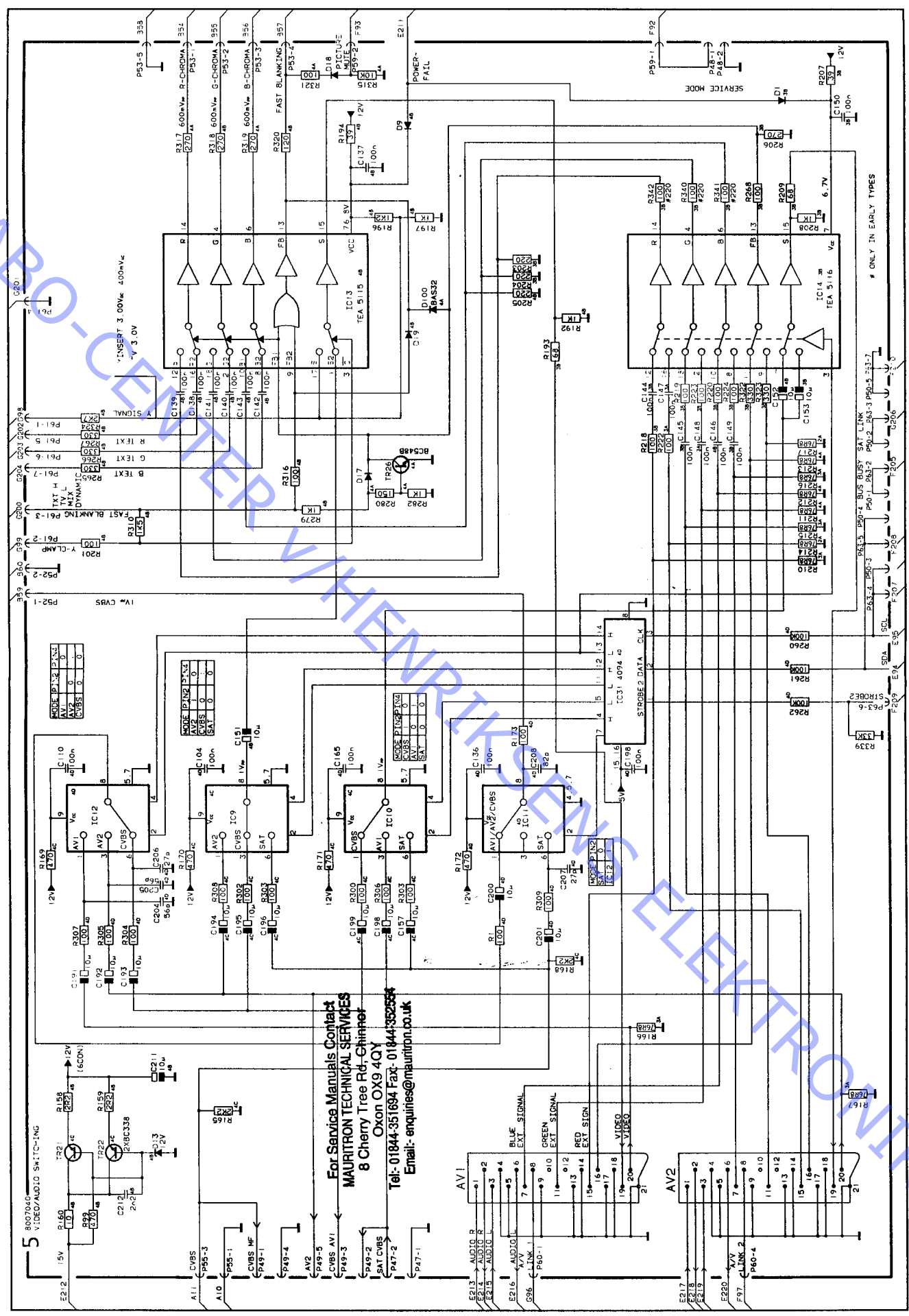


DIAGRAM C VIDEO OUTPUT, IR TRANSMITTER, HEADPHONE, CROSSOVER NETWORK



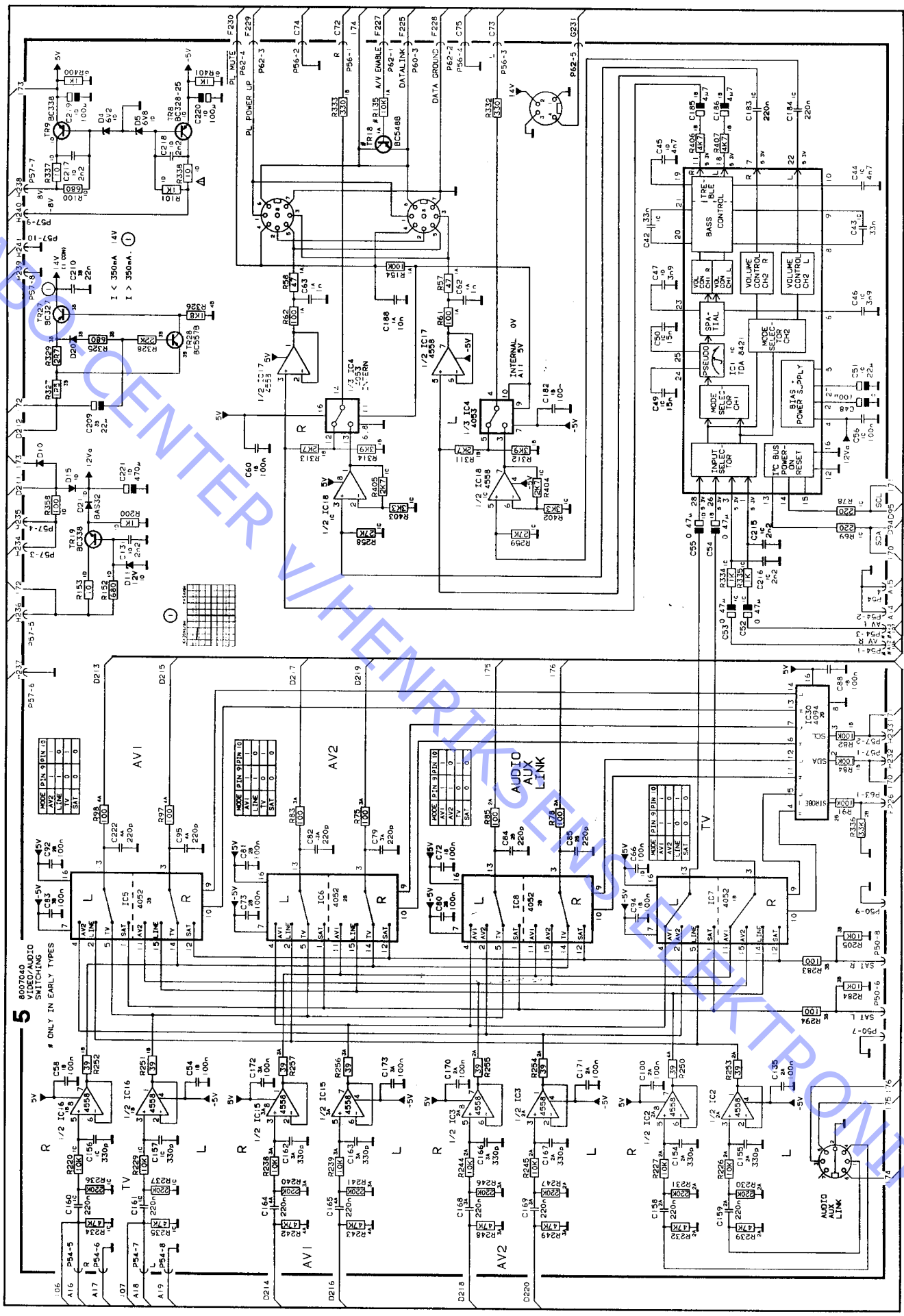
*ONLY IN LX 4500
 *ONLY IN LX 5500
 NO CROSSOVER NETWORK IN
 LX 3500 4" FULL RANGE
 LX 3500 3" FULL RANGE
 MX 3500 3" FULL RANGE
 MX 3500 3" FULL RANGE

DIAGRAM D VIDEO SWITCHING



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ONLY IN EARLY TYPES



2-8

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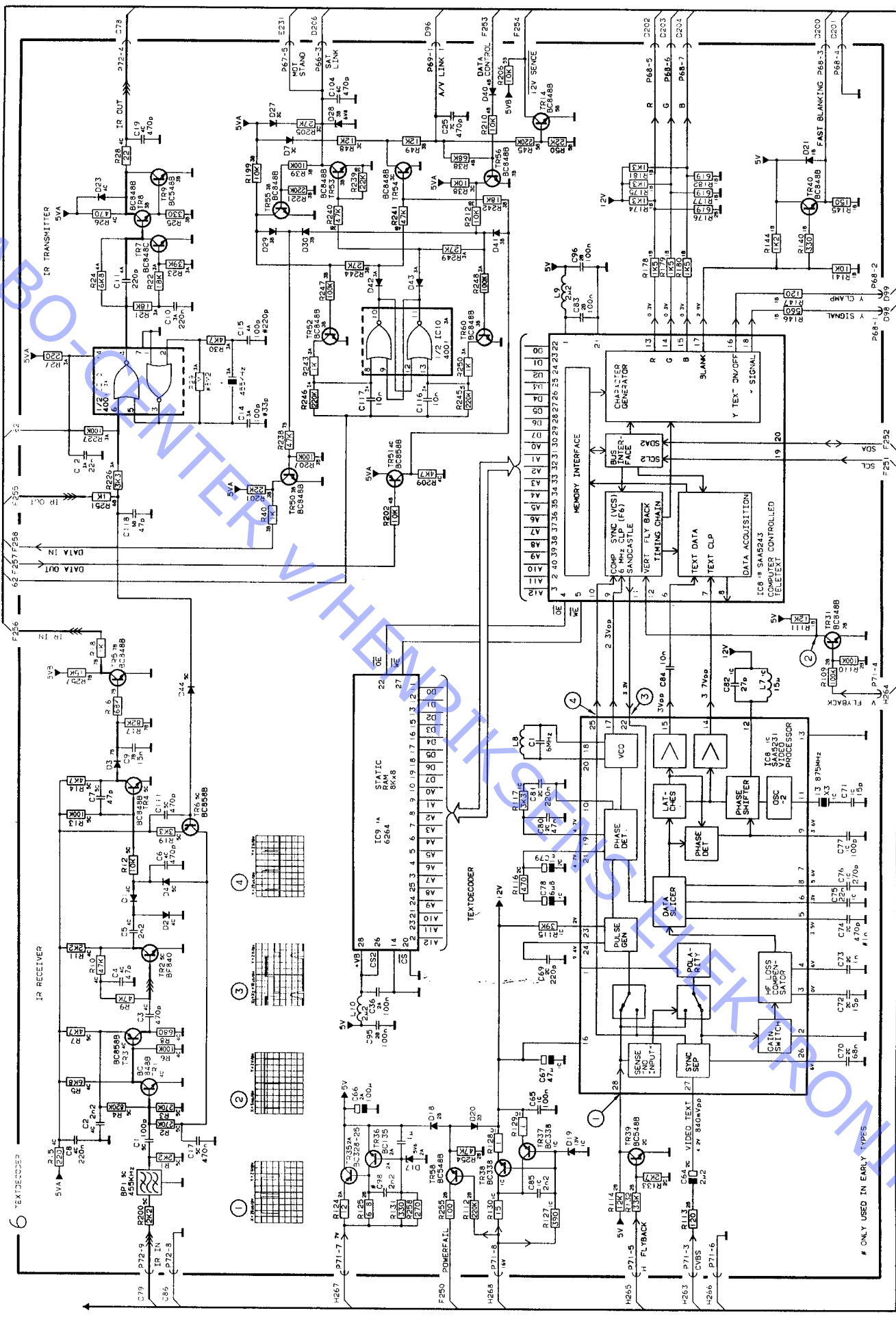
DIAGRAM F MICROCOMPUTER

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VIDEO SELECT CONTROL SELECT 2	FUNCTION
1	SAT
0	SWBS
0	DOOT CARE

ONLY USED IN EARLY TYPES

DIAGRAM G TEXTDECODER, IR RECEIVER, IR TRANSMITTER



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DIAGRAM H DEFLECTION AND STILL DISPLAY

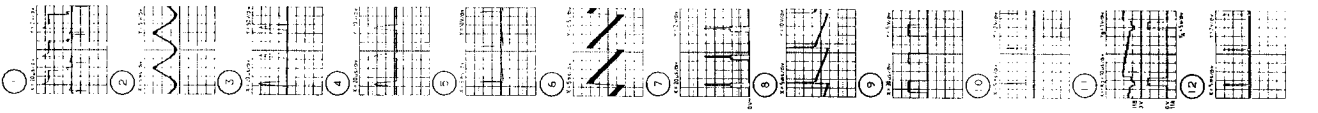
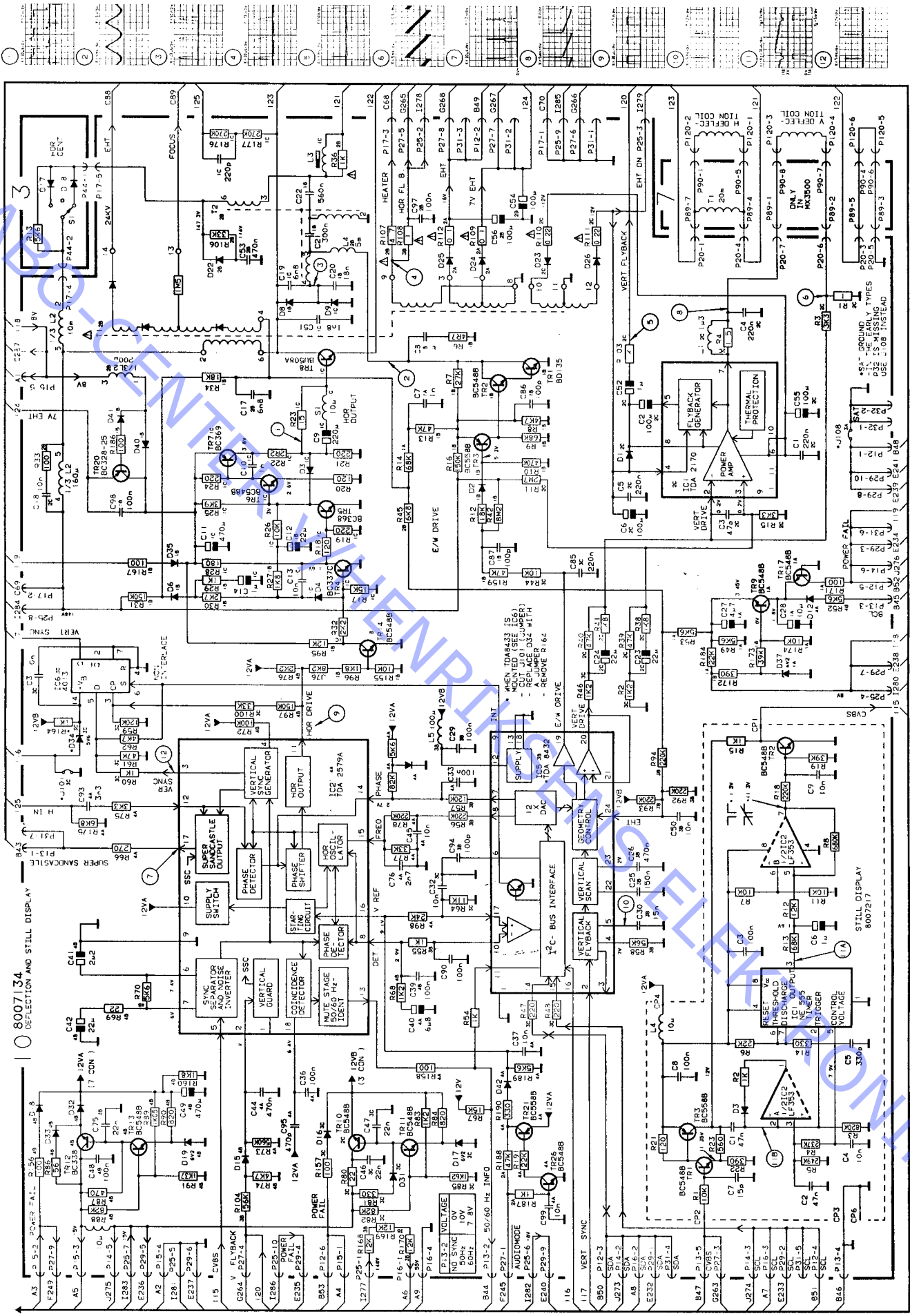


DIAGRAM H DEFLECTION AND STILL DISPLAY, PCB E VERSION

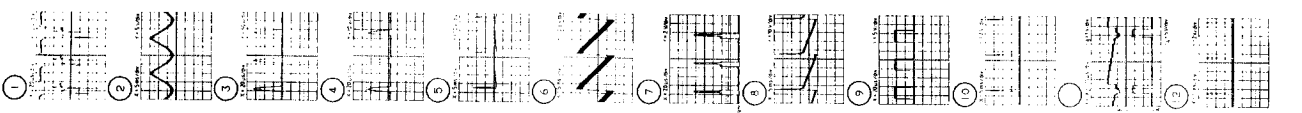
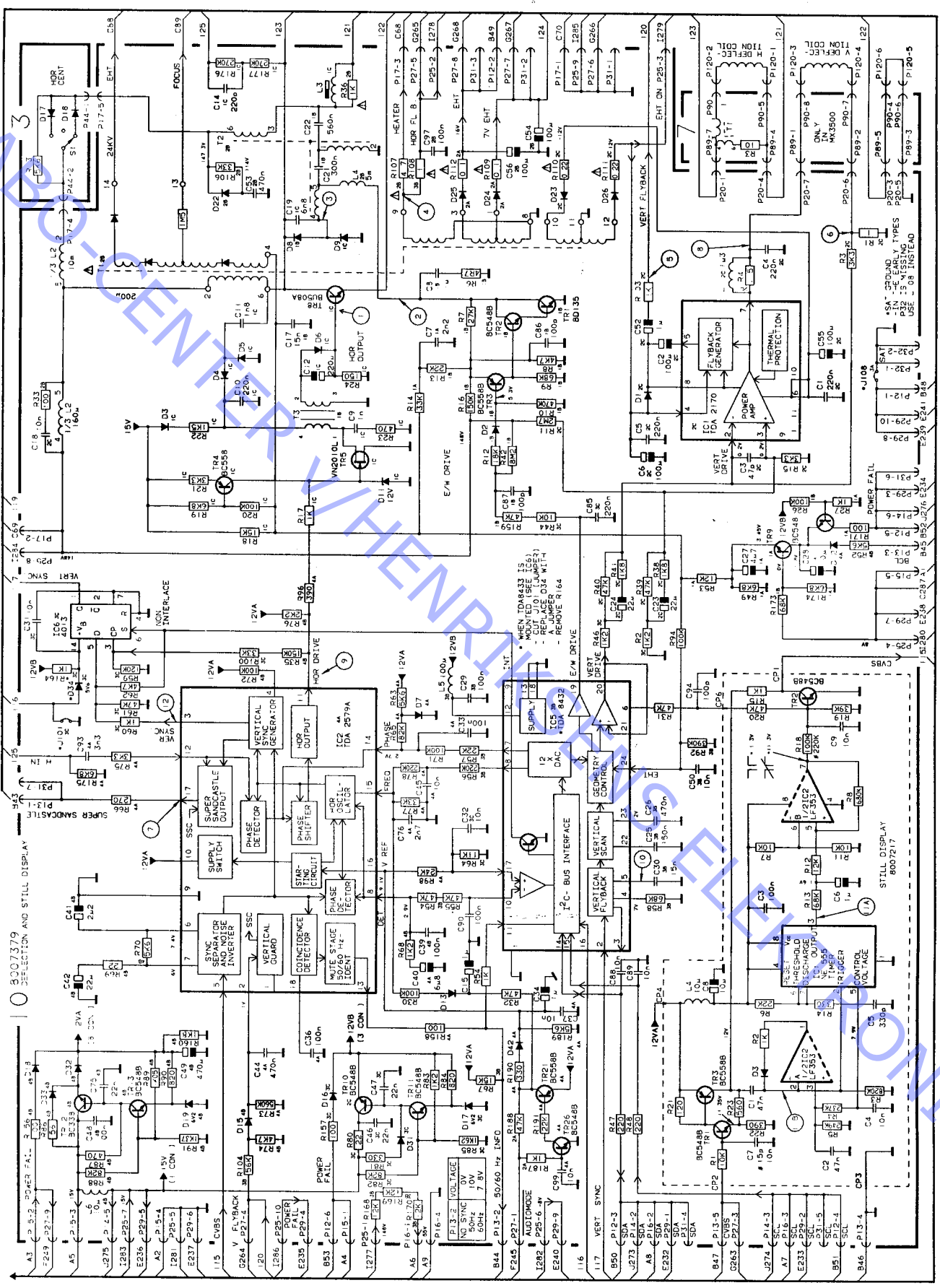


DIAGRAM I SWITCH MODE POWER SUPPLY

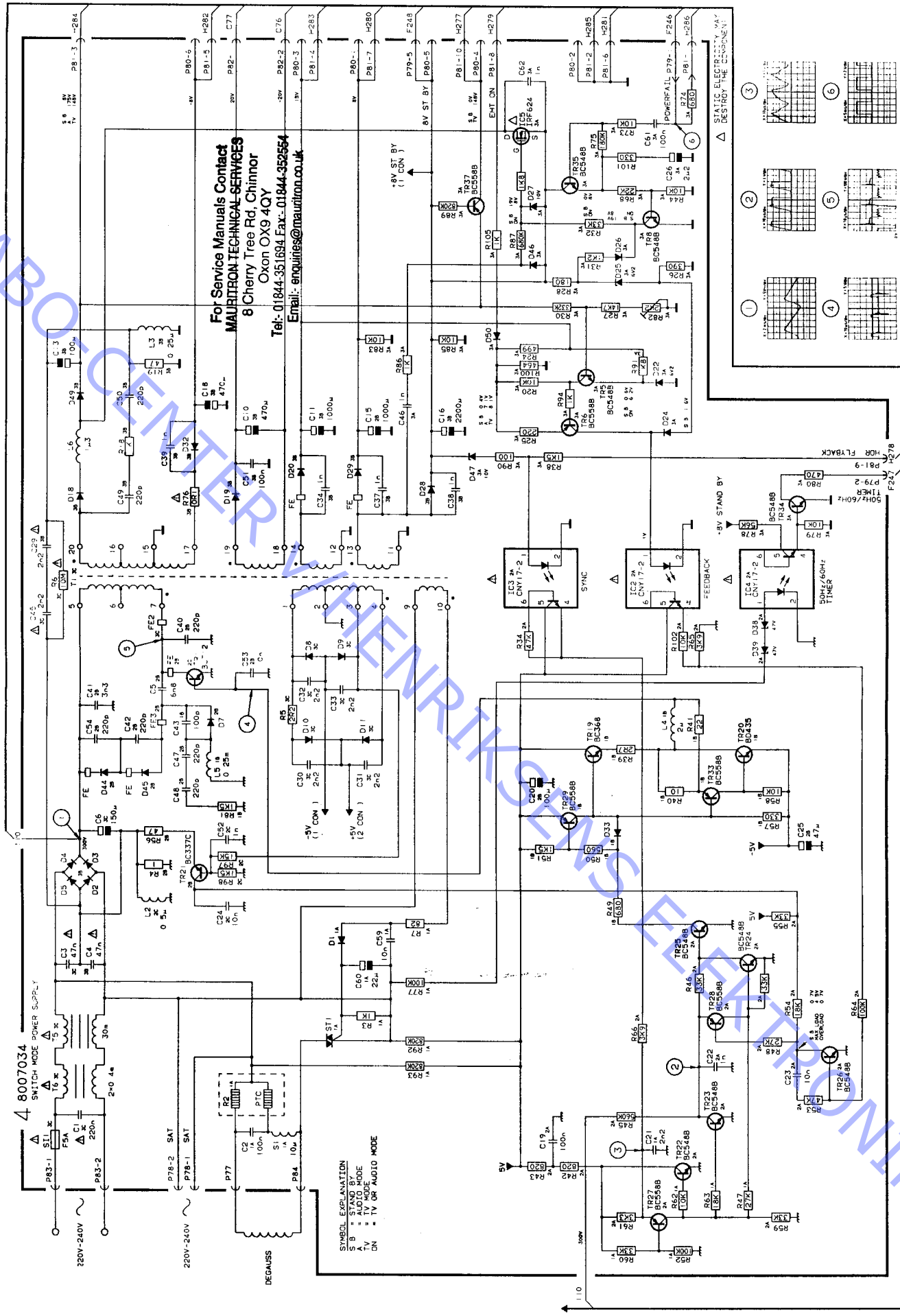
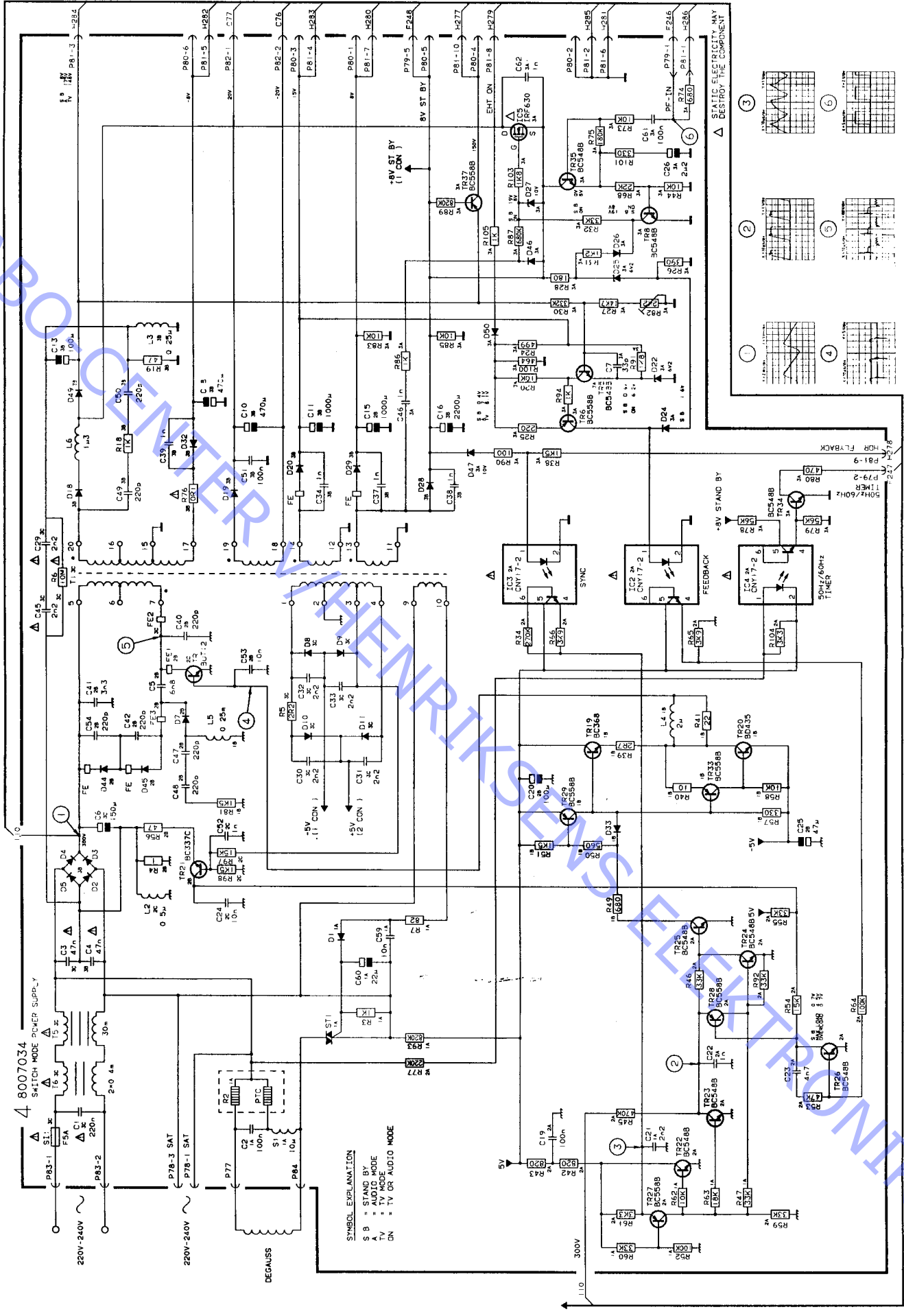


DIAGRAM I SWITCH MODE POWER SUPPLY, PCB G VERSION



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DIAGRAM J NICAM

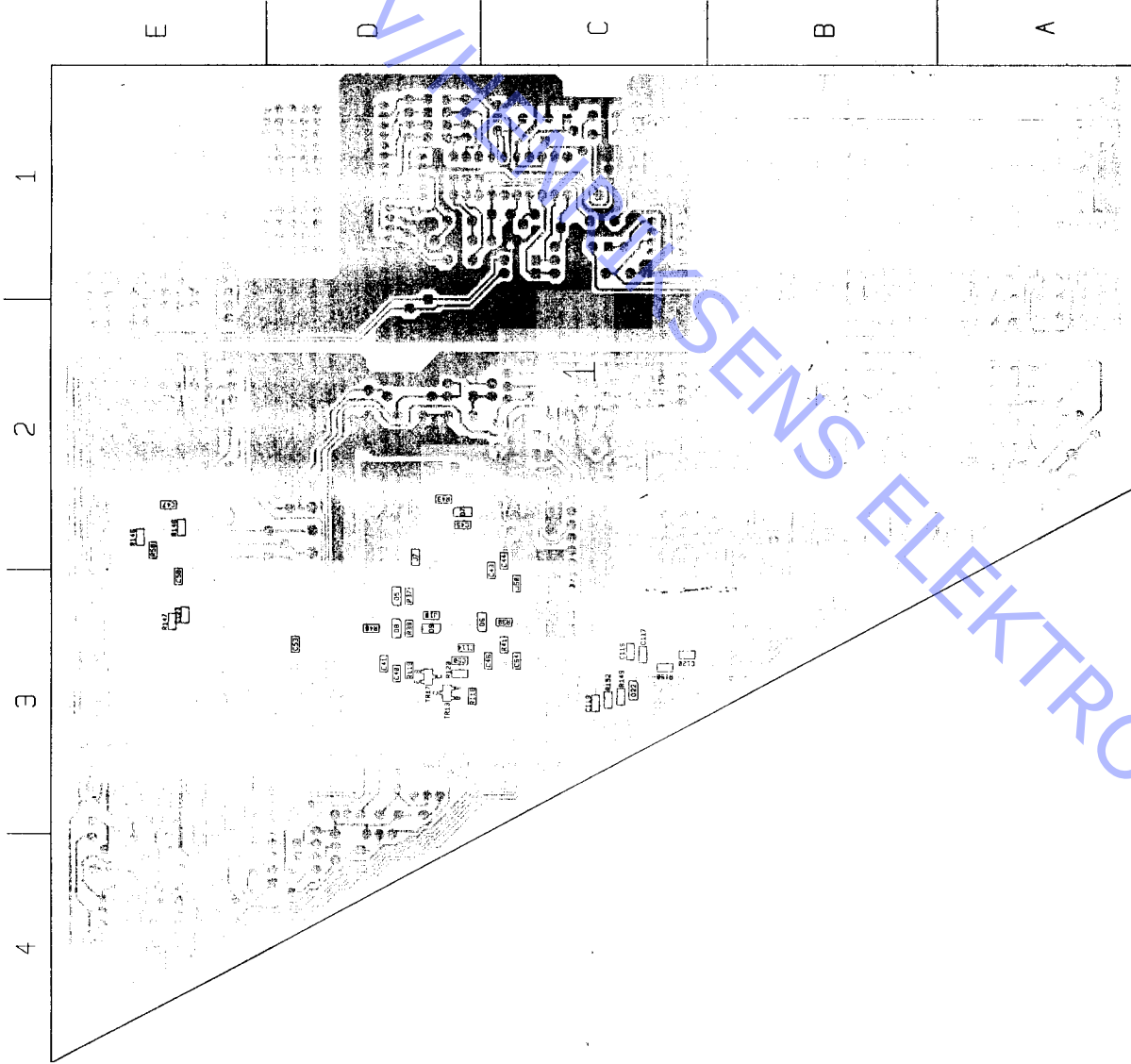
The diagram illustrates the internal circuitry of a NICAM receiver, organized into several functional blocks:

- Power Supply (P804-5):** A 5V regulator section featuring a 100µF capacitor (C50), a 22pF capacitor (C51), and a 3A diode (D2).
- Audio Amplifier (P802-3):** Utilizes an LM3576 operational amplifier (IC6) to drive a speaker through a 100µF capacitor (C47) and a 3A diode (D2).
- Decoder and Processor (P803-1, P803-2):** Contains IC4 (SAA 7320) for digital filtering and DA conversion, and IC5 (4052) for channel selection.
- Tuner and Demodulator (P801-1, P801-2):** Includes a DAC621M (IC1) for digital-to-analog conversion, a DAC622M (IC2) for digital-to-analog conversion, and a DAC623M (IC3) for digital-to-analog conversion.
- Control and Timing (P805-1, P805-2, P805-3, P805-4, P805-5, P805-6, P805-7, P805-8, P805-9):** A series of comparators and logic gates (IC10-IC15) that manage the timing and control signals for the receiver's various stages.
- Other Components:** Includes a 5V regulator (P804-4), a 5V regulator (P804-3), a 5V regulator (P804-2), a 5V regulator (P804-1), a 5V regulator (P803-3), a 5V regulator (P803-2), a 5V regulator (P803-1), a 5V regulator (P802-2), a 5V regulator (P802-1), a 5V regulator (P801-2), and a 5V regulator (P801-1).

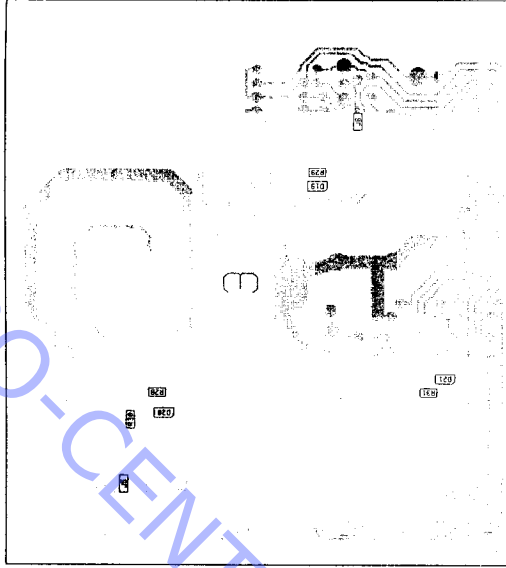
Key components and their values are listed in the component list:

- IC1: DAC621M
- IC2: DAC622M
- IC3: DAC623M
- IC4: SAA 7320
- IC5: 4052
- IC6: LM3576
- IC7: 4052
- IC8: 4052
- IC9: 4052
- IC10: 4052
- IC11: 4052
- IC12: 4052
- IC13: 4052
- IC14: 4052
- IC15: 4052
- IC16: 4052
- IC17: 4052
- IC18: 4052
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- IC55: 4052
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- IC74: 4052
- IC75: 4052
- IC76: 4052
- IC77: 4052
- IC78: 4052
- IC79: 4052
- IC80: 4052
- IC81: 4052
- IC82: 4052
- IC83: 4052
- IC84: 4052
- IC85: 4052
- IC86: 4052
- IC87: 4052
- IC88: 4052
- IC89: 4052
- IC90: 4052
- IC91: 4052
- IC92: 4052
- IC93: 4052
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- IC95: 4052
- IC96: 4052
- IC97: 4052
- IC98: 4052
- IC99: 4052
- IC100: 4052

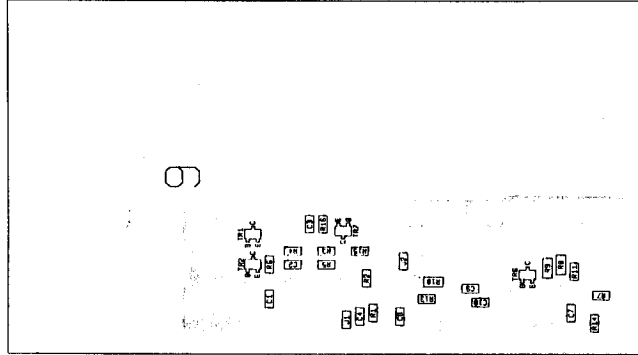
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PCB3 VIDEO OUTPUT

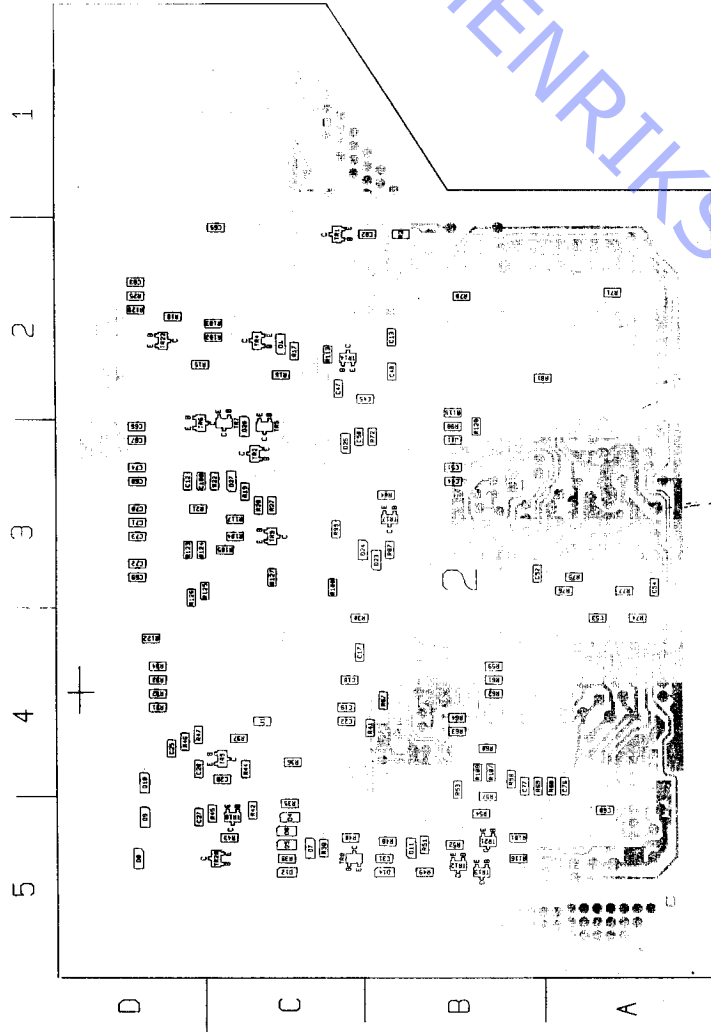


PCB9 IR TRANSCEIVER

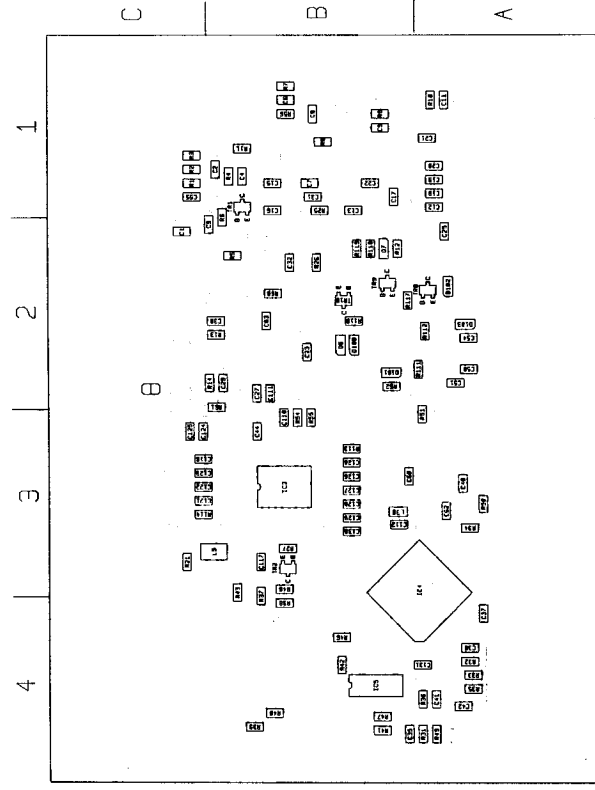


ABO-CENTER
SENS ELEKTRONIK

PCB2 PAL/SECAM/NTSC DECODER

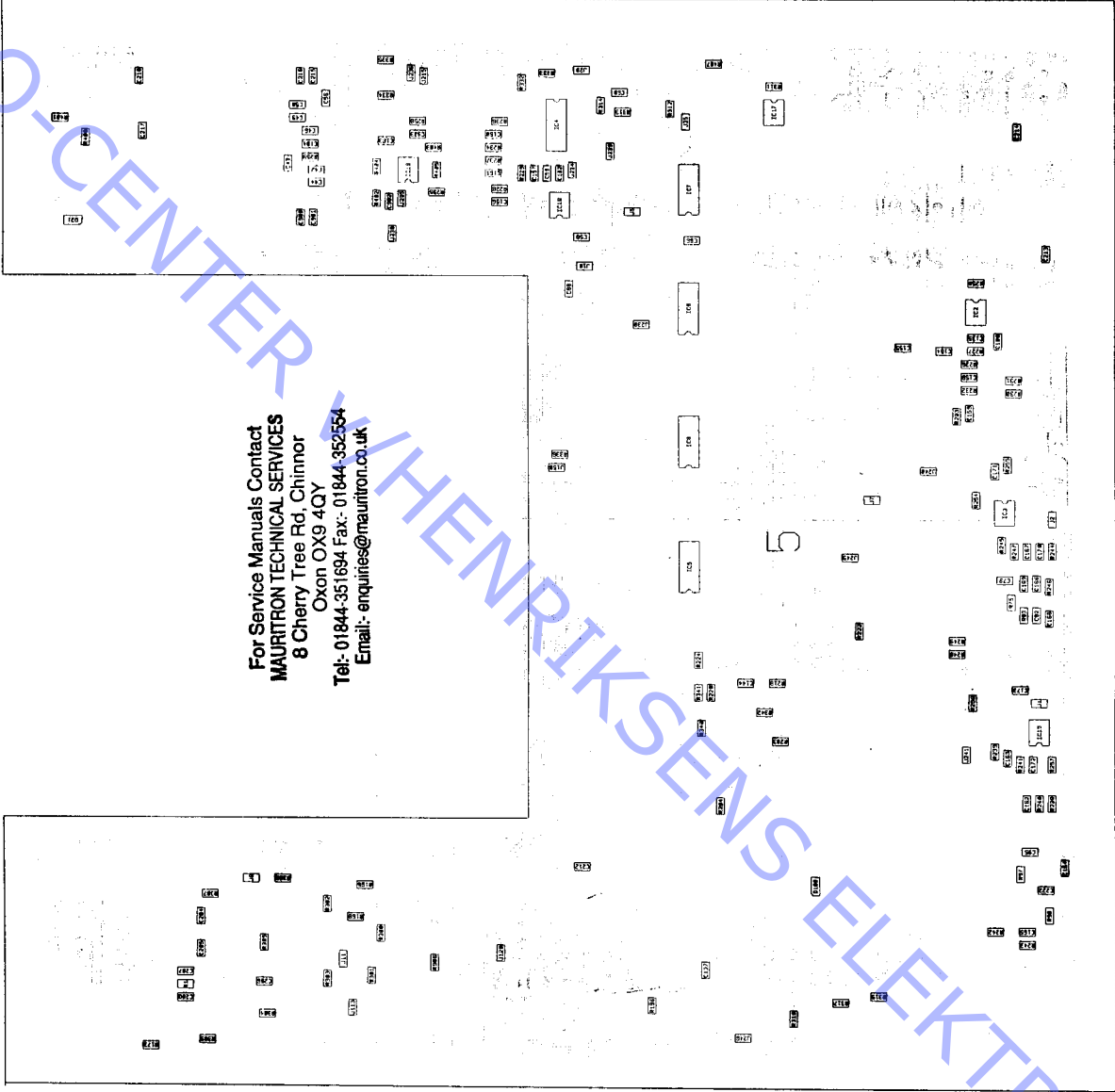


PCB8 NICAM

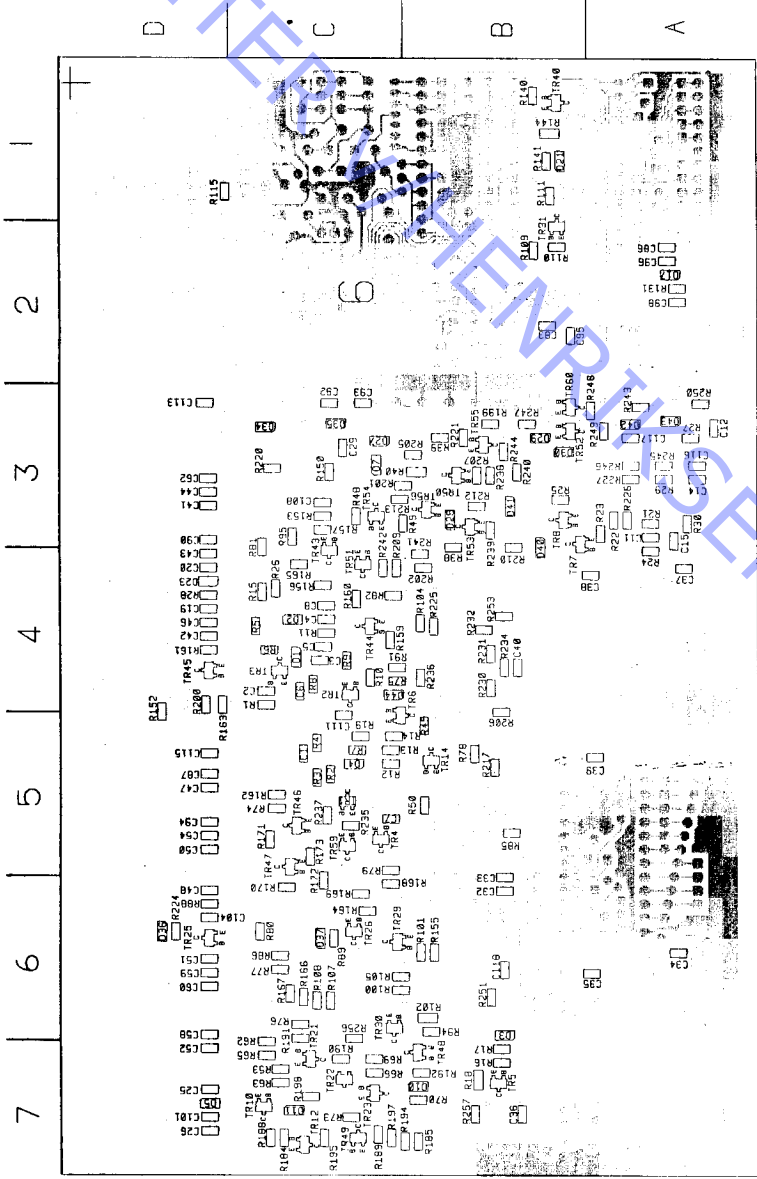


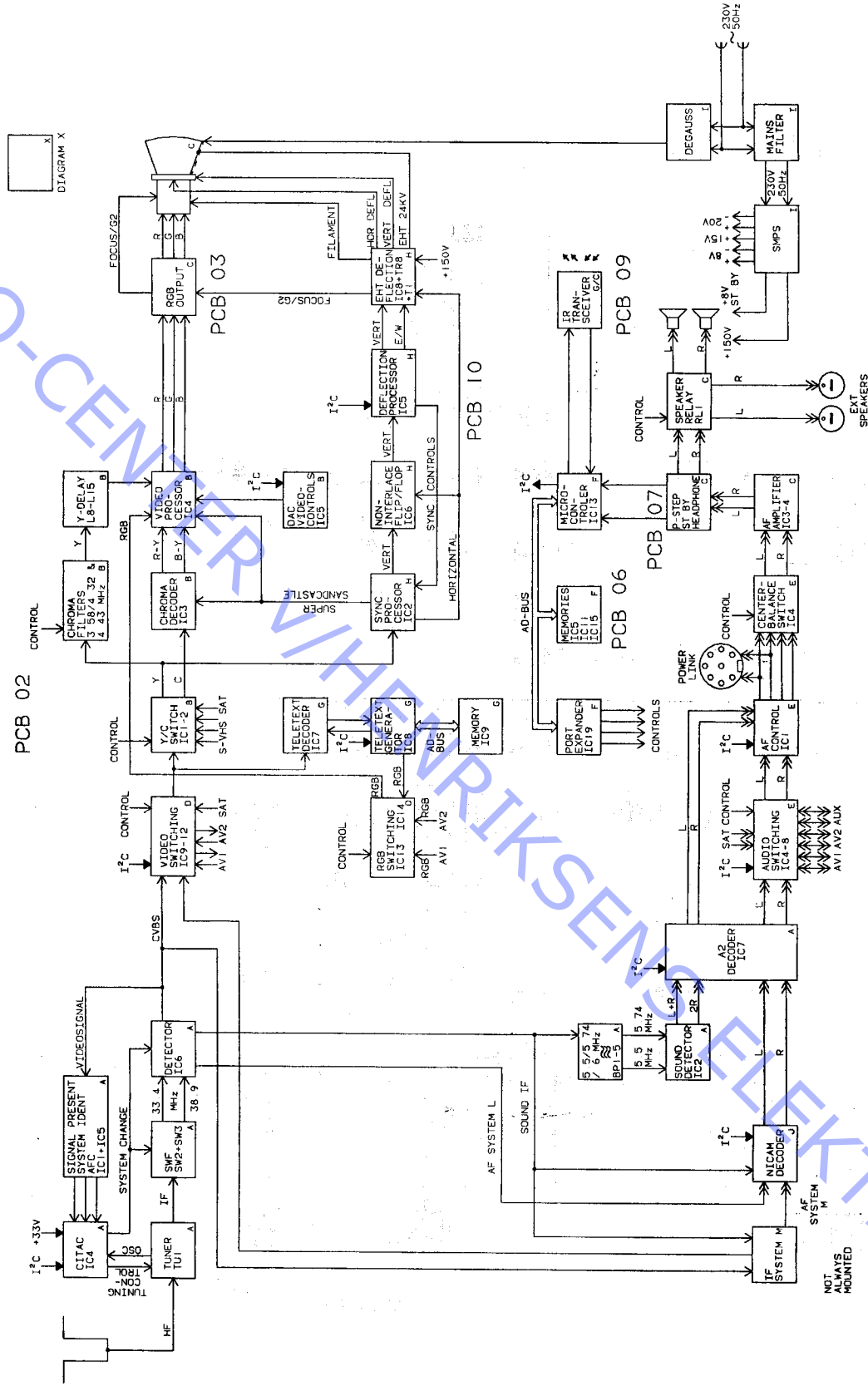
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ABO-CENTER V/HENRIKSENS ELEKTRONIK



PCB6 MICROCOMPUTER AND TELETEXT



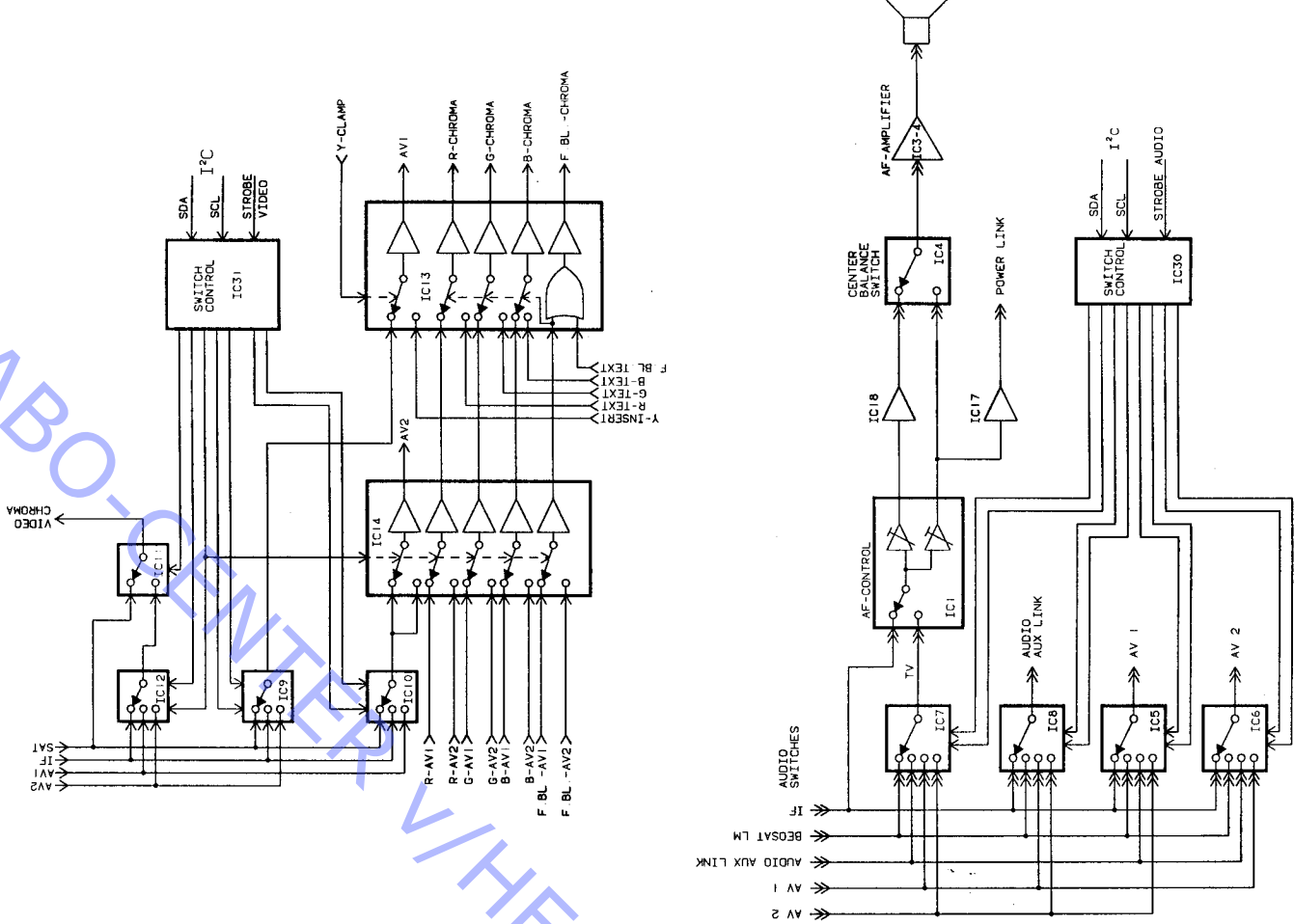
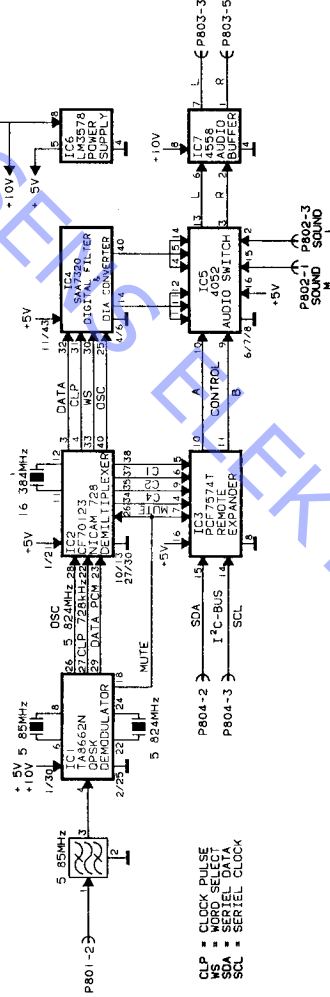
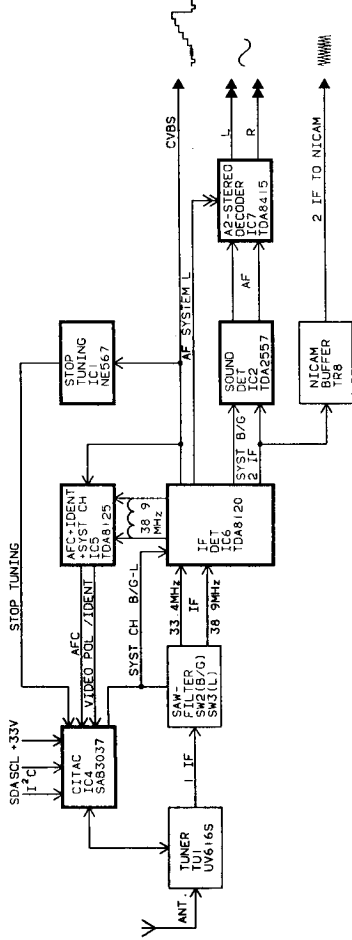


PCB 01

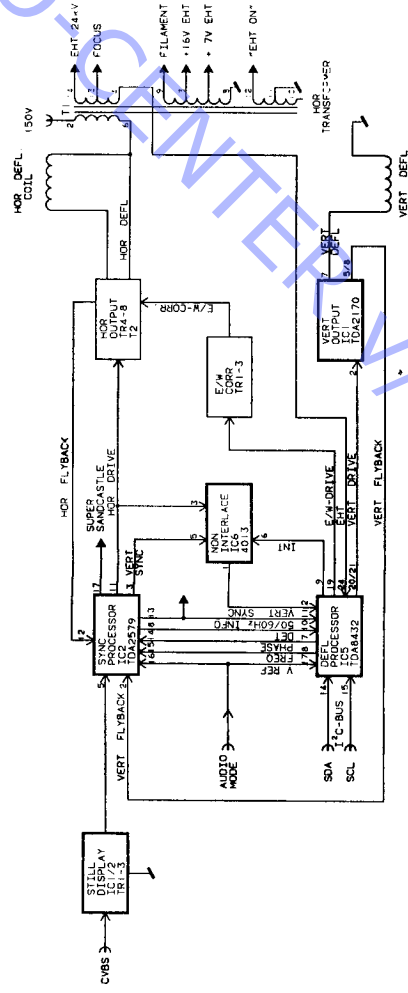
PCB 05

PCB 04

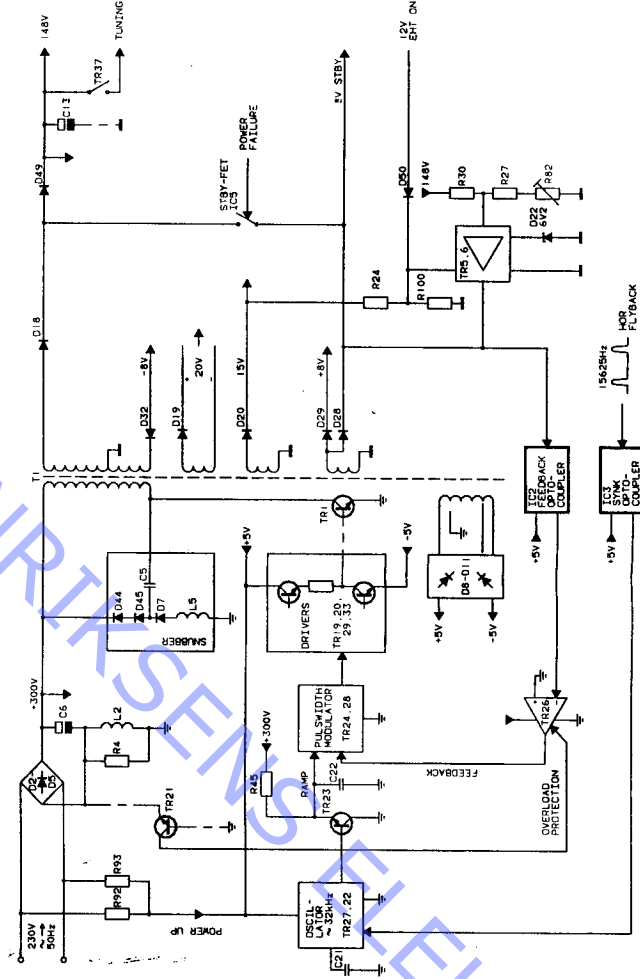
ABO-CENTRAL VIKSENS ELETRONIK

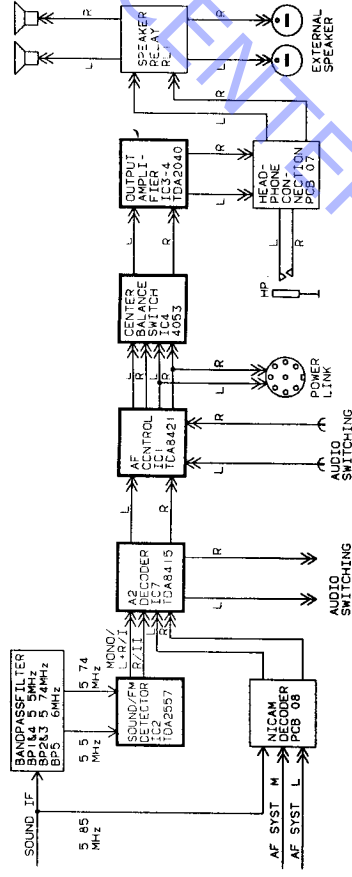


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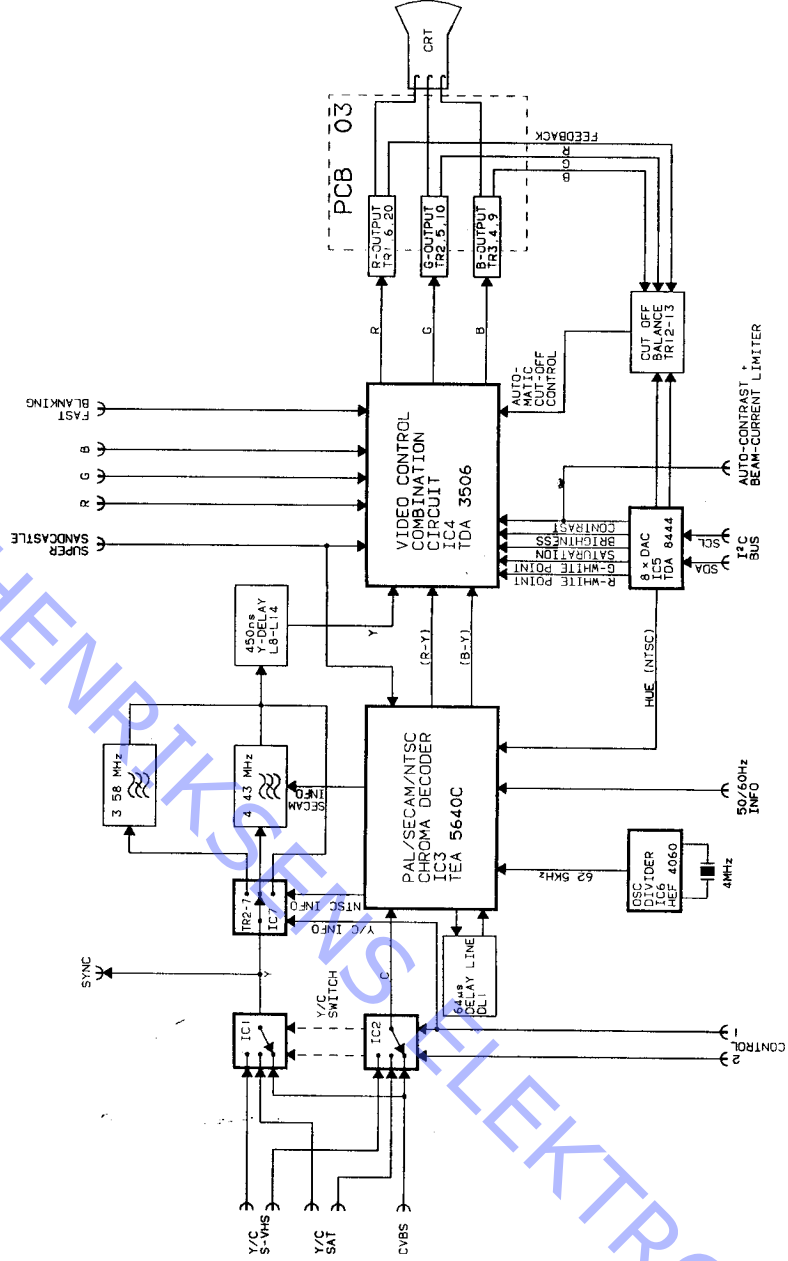


PCB4 SWITCH MODE POWER SUPPLY

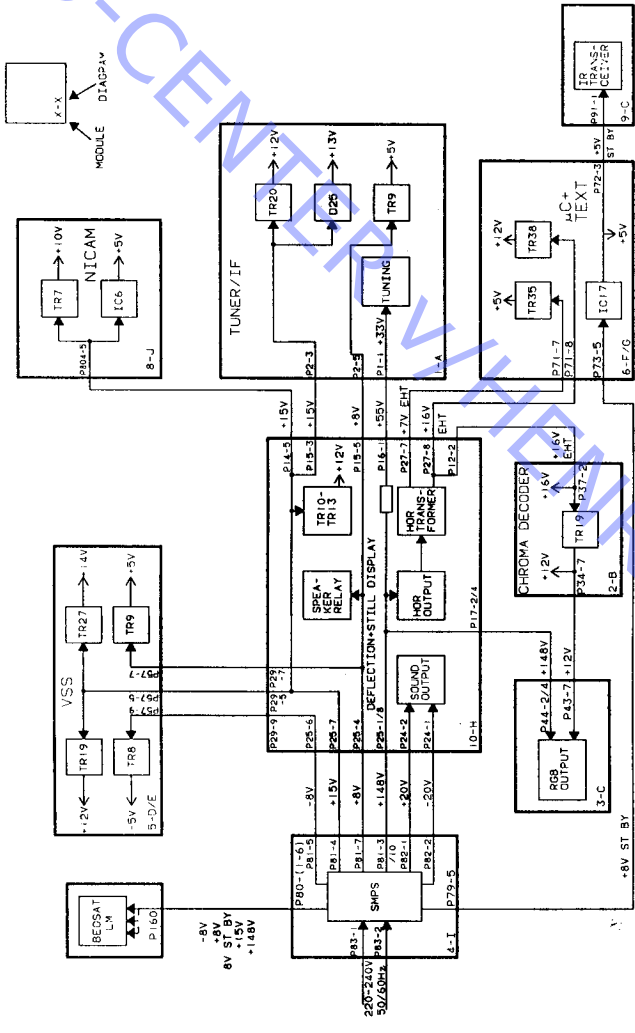




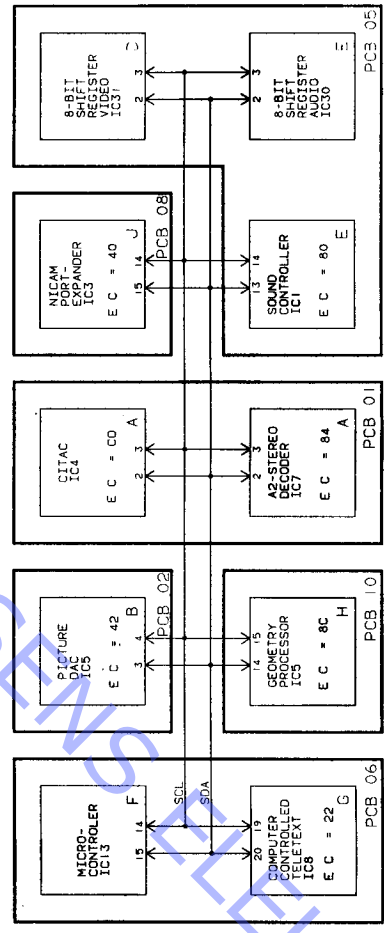
PCB2 PAL/SECAM/NTSC DECODER



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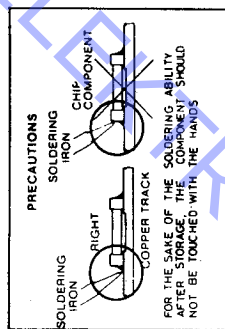
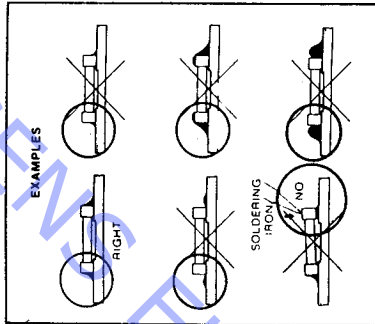
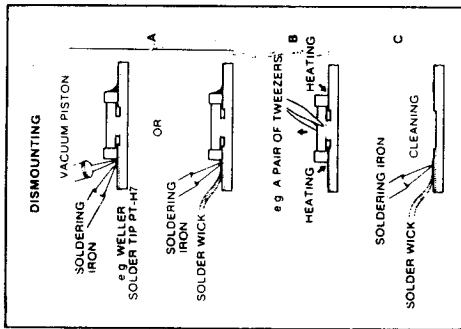
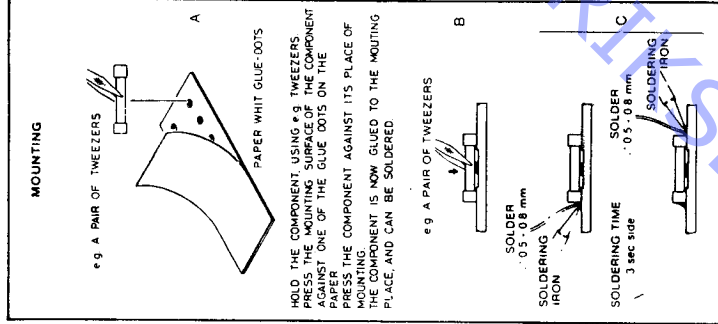
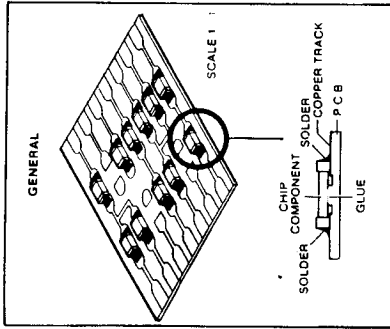
SYSTEM CONTROL



SDA = SYSTEM DATA
 SCL = SYSTEM CLOCK
 EC = ERROR CODE - IIC ADDRESS XX

LIST OF ELECTRICAL PARTS

In the player chip components have been applied. For insertion and removal of chip components see the figure below.



20	32	51	101	103	111	113	125
134	136	139	209	217	250		

Resistors not referred to are standard, see page 3-12. Δ indicates that static electricity may destroy the component.

IC1	8341311	103	NE567 PILL	IC5	8341142	134	TDA8124
IC2	8340940	111	TDA2557	IC6	8341137	113	TDA8120
IC4	8341002	136	SAB3037	IC7	8341291	134	TDA8415
TR1	8320510	20	BC558B	TR16	8320616	51	BC558B
TR6-	8320509	20	BC548B	TR17	8320509	20	BC548B
TR8				TR18-			
TR9	8320512	20	BC338-25	TR19			
TR12	8320510	20	BC558B	TR20	8320840	32	BD436
TR13	8320615	51	BC848B	TR21-	8320509	20	BC548B
TR14-	8320509	20	BC548B	TR22			
D5-	8300635	250	BA683	D23	8300596	209	6.2V 2%
D9				D24	8300023	209	1N4002 100V
D14-	8300058	209	1N4148	D25-	8300058	209	1N4148
D15				D28			
D17	8300296	209	5.6V 2% 0.4W	D29	8300321	209	33V 5% 0.4W
D21	8300128	209	5.6V 5% 0.4W	D30	8300596	209	6.2V 2%
D22	8300635	250	BA683				
R17	5370326	10K Ω	20% 0.1W	R108	5370325	2.2K Ω	20% 0.1W
R93	5370326	10K Ω	20% 0.1W	R137	5370324	4.7K Ω	20% 0.1W
R105	5370326	10K Ω	20% 0.1W	R155	5020093	4.64K Ω	1% 1/4W
R106	5020093	4.64K Ω	1% 1/4W	R156	5020219	5.36K Ω	1% 1/4W
R108	5370324	4.7K Ω	20% 0.1W	R182	5020219	5.36K Ω	1% 1/4W
C2	4200512	1 μ F	20% 50V	C59	4200509	33 μ F	20% 25V
C3-	4010101	4.7nF	10% 63V	C61-	4000227	330pF	5% 63V
C4				C62			
C5	4200512	1 μ F	20% 50V	C63-	4100236	1nF	5% 63V
C8-	4000380	2.7pF	0.25pF 50V	C64			
C9				C65-	4000167	18pF	5% 63V
C30	4200515	4.7 μ F	20% 25V	C66			
C31	4200628	100 μ F	20% 16V	C67	4100236	1nF	5% 63V
C32-	4200544	22pF	20% 16V	C68			
C33				C69-	4000167	18pF	5% 63V
C35-	4200512	1 μ F	20% 50V	C70			
C36				C71-	4130235	47nF	20% 63V
C37	4200510	10 μ F	20% 16V	C72			
C38-	4100235	680pF	5% 63V	C73	4010106	10nF	-20+80% 40V
C39				C74	4010107	22nF	-20+80% 40V
C40-	4010132	1nF	10% 50V	C75	4010106	10nF	-20+80% 40V
C41				C76	4010107	22nF	-20+80% 40V
C43	4000274	12pF	5% 50V	C78	4200525	22 μ F	20% 10V
C44				C85	4200512	1 μ F	20% 50V
C45-	4010132	1nF	10% 50V	C86	4100243	8.2nF	5% 63V
C46				C91	4130347	5.6nF	10% 63V
C47	4010166	100nF	-20+80% 50V	C92	4130230	100nF	20% 63V
C48	4130136	1 μ F	20% 100V	C93	4130311	680nF	10% 63V
C49	4130313	470nF	20% 63V	C94	4130813	470nF	20% 63V
C50	4010132	1nF	10% 50V	C95	4130241	10nF	20% 63V
C51-	4000142	82pF	5% 63V	C95	4010106	10nF	-20+80% 40V
C52				C97	4200510	10 μ F	20% 16V
C53	4010209	47nF	10% 50V	C98	4010106	10nF	-20+80% 40V
C54	4010132	1nF	10% 50V	C100	4130255	22nF	5% 63V
C55	4010103	2.2nF	10% 63V	C101	4130257	33nF	20% 63V
C56				C102	4200517	2.2 μ F	20% 50V
C58	4000239	33pF	5% 50V				

PCB 01, 8007048
Tuner and IF, B/G-L

PCB 01, 8007052
Tuner and IF, I

* Only in I version

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C103	4010105	1nF 10% 63V	C115	4130313	470nF 20% 63V
C104	4010241	4,7nF 5% 50V	C116-	4010132	1nF 10% 50V
C105	4130230	100nF 20% 63V	C117		
C106	4130233	220nF 20% 63V	C118	4200510	10µF 20% 16V
C107-	4130306	100nF 10% 63V	C119-	4010176	10nF -20+80% 50V
C109			C120		
C111	4130230	100nF 20% 63V	C121	4010105	1nF 10% 63V
*C112	4130179	100nF 20% 63V	C122	4200510	10µF 20% 16V
C113	4200628	100µF 20% 16V	C123	4000286	470 pF 5% 50V
C114	4010132	1nF 10% 50V	C124	4130230	100nF 20% 63V

L4	8020551	Coil 4,7 µH	L16	8020738	Coil 330 nH-47pF
L10	8020807	Coil 10µH	L18	8020551	Coil 4,7 µH 10%
L11	8020600	Coil 1µH 10%	L19-	8020742	Coil 800 nH 5,5 MHz
L12	8020740	Coil 940 nH-18pF	L22		
L13	8020738	Coil 330 nH-47pF	*L21-	8020743	Coil 700nH
L14	8020741	Coil 2,46 µH 5,5 MHz	L22		
L15	8020739	Coil 300 nH-47pF	L23	8022250	Coil 4,7 mH 5%

FE1- 6000030 Standard Wire
FE4

TU1 8050117 Tuner UV

BP1	8030021	5,5 MHz±50 kHz	BP4	8030026	5,5 MHz±50 kHz
BP2	8030029	5,74 MHz+50 kHz	*BP5	8030033	6MHz
BP3	8030028	5,74 MHz±75 kHz			

SW2	8030158	Filter 38,9/33,05 MHz	SW3	8030082	Filter K3252L
*SW2	8030159	Filter 38,9/32,348MHz			

X1	8090000	Crystal 4 MHz	X2	8090105	Crystal 10,0 MHz
----	---------	---------------	----	---------	------------------

P0	7220129	Plug 2/2 pol	P5-	7220711	Plug 4 pol
P1	7220711	Plug 4 pol	P6		
P2	7220712	Plug 5 pol	P7	7220712	Plug 5 pol
P3	7220709	Plug 2 pol	P8	7220710	Plug 3 pol
P4	7220715	Plug 8 pol	P100	7210660	Jack plug

PCB 02, 8007050
PAL/SECAM/NTSC Decoder

IC1-	8341127	139	TA734	IC5	8341193	101	TDA8444
IC2				IC6Δ	8341230	101	4060
IC3	8341191	125	TEA5640C	IC7	8340569	103	LM358
IC4	8341192	125	TDA3506				

TR1	8320615	51	BC848B	TR13			
TR2	8320747	51	BC848C	TR14	8320615	51	BC848B
TR3	8320615	51	BC848	TR15-	8320509	20	BC548B
TR4	8320747	51	BC848C	TR16			
TR5	8320778	51	BC858C	TR17	8320615	51	BC848B
TR6	8320747	51	BC848C	TR18	8320317	32	BD135
TR7	8320778	51	BC858C	TR19	8320512	20	BC338-25
TR8-	8320747	51	BC848C	TR20	8320747	51	BC848C
TR10				TR21	8320615	51	BC848B
TR12-	8320747	51	BC848C	TR22	8320747	51	BC848C

D1	8300482	217	4148	D20-	8300058	209	1N4148
D4-	8300482	217	4148	D22			
D10				D23-	8300482	217	4148
D11	8300605	209	Z10V 5%	D24			
D12	8300482	217	4148	D25-	8300058	209	1N4148
D14	8300482	217	4148	D26			
D17	8300058	209	1N4148	D27-	8300482	217	4148
D18	8300173	209	8,2V 5% 0,4W	D28			
D19	8300029	209	12V 5% 0,4W				

17	20	32	36	136	209	212	214
221							

Resistors not referred to are standard, see page 3-12.

Δ indicates that static electricity may destroy the component.

R5	5020161	75Ω 1% 1/4W	R67	5011841	11,8kΩ 1% 1/8W
R9	5020161	75Ω 1% 1/4W	R88	5020239	24,3kΩ 1% 1/4W
R31	5011570	200Ω 1% 1/8W	R89	5020221	5,62kΩ 1% 1/4W
R61	5011600	100kΩ 1% 1/8W	R91	5021029	1,82kΩ 1% 1/4W
R63	5011843	80,6kΩ 1% 1/8W	R93	5021120	27Ω 5% 1W
R64	5011599	49,9kΩ 1% 1/8W	R94	5021122	100Ω 5% 1W
R65	5020542	22,1kΩ 1% 1/4W	R106	5370284	100kΩ 20% 0,1W
R66	5020318	13kΩ 1% 1/4W			

C1-	4200510	10μF 20% 16V	C45	4000281	82pF 5% 50V
C2			C46	4200483	47μF 20% 16V
C3	4200431	10μF 20% 16V	C47	4010166	100nF -20+80% 50V
C4	4130230	100nF 20% 63V	C48	4000280	68pF 5% 50V
C5-	4200510	10μF 20% 16V	C49	4130313	470nF 20% 63V
C6			C50	4000352	1nF 5% 50V
C7	4130230	100nF 20% 63V	C51	4000229	150pF 5% 50V
C9	4200510	10μF 20% 16V	C52	4010166	100nF -20+80% 50V
C10	4100210	1,5nF 5% 63V	C53	4000239	33pF 5% 50V
C11	4100236	1nF 5% 63V	C54	4000279	39pF 5% 50V
C12	4000239	33pF 5% 50V	C55	4130241	10nF 20% 63V
C13	4000240	56pF 5% 50V	C56	4130262	22nF 20% 63V
C14-	4010107	22nF -20+80% 40V	C57	4200512	1μF 20% 50V
C16			C58	4200510	10μF 20% 16V
C17-	4010177	22nF -20+80%	C59	4010105	1nF 10% 63V
C19			C60	4010177	22nF -20+80%
C20-	4130240	47nF 10% 63V	C61	4200403	100μF -20+50% 25V
C21			C62	4200544	22μF 20% 16V
C22	4010166	100nF -20+80%	C63	4100232	100pF 5% 63V
C24	4200512	1μF 20% 50V	C64	4000142	82pF 5% 63V
C25	4000326	680pF 5% 50V	C65	4000281	82pF 5% 50V
C26	4000286	470pF 5% 50V	C66	4000240	56pF 5% 50V
C27	4000326	680pF 5% 50V	C67	4000231	68pF 5% 50V
C28	4010172	3,3nF 10% 50V	C68	4000241	100pF 5% 50V
C29	4130240	47nF 10% 63V	C69	4000240	56pF 5% 50V
C30	4200544	22μF 20% 16V	C70-	4000241	100pF 5% 50V
C35-	4010106	10nF -20+80% 40V	C74		
C36			C75	4010106	10nF -20+80% 40V
C37	4130230	100nF 20% 63V	C79	4100236	1nF 5% 63V
C40	4200515	4,7μF 20% 25V	C80	4200512	1μF 20% 50V
C41	4130233	220nF 20% 63V	C81	4200515	4,7μF 20% 25V
C42	4130241	10nF 20% 63V	C82	4000279	39pF 5% 50V
C43	4200625	3,3μF 20% 50V	C83	4000284	330pF 5% 50V
C44	4000229	150pF 5% 50V			

L3-	8020608	Coil 10μH 5%	L14	8020608	Coil 10μH 5%
L4			L15	8020730	Coil 22μH 10%
L5	8020830	Coil 10μH	L16	8020751	Coil 0,86μH- 4,43 MHz
L6	8020608	Coil 10μH 5%	L17	8020649	Coil 3,9μH 5%
L7-	8020730	Coil 22μH 10%			
L13					

DL1	6240012	Delay line 64μS
-----	---------	-----------------

X1	8090000	Crystal 4,000 MHz
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ABO-CENTER

VITHI SEMEONIK

P0	7220129	Plug 2/2 pol	P38	7220712	Plug 5 pol
P34	7220715	Plug 8 pol	P39	7220713	Plug 6 pol
P35	7220711	Plug 4 pol	P40	7220710	Plug 3 pol
P36	7220712	Plug 5 pol	P41	7220714	Plug 7 pol
P37	7220713	Plug 6 pol			

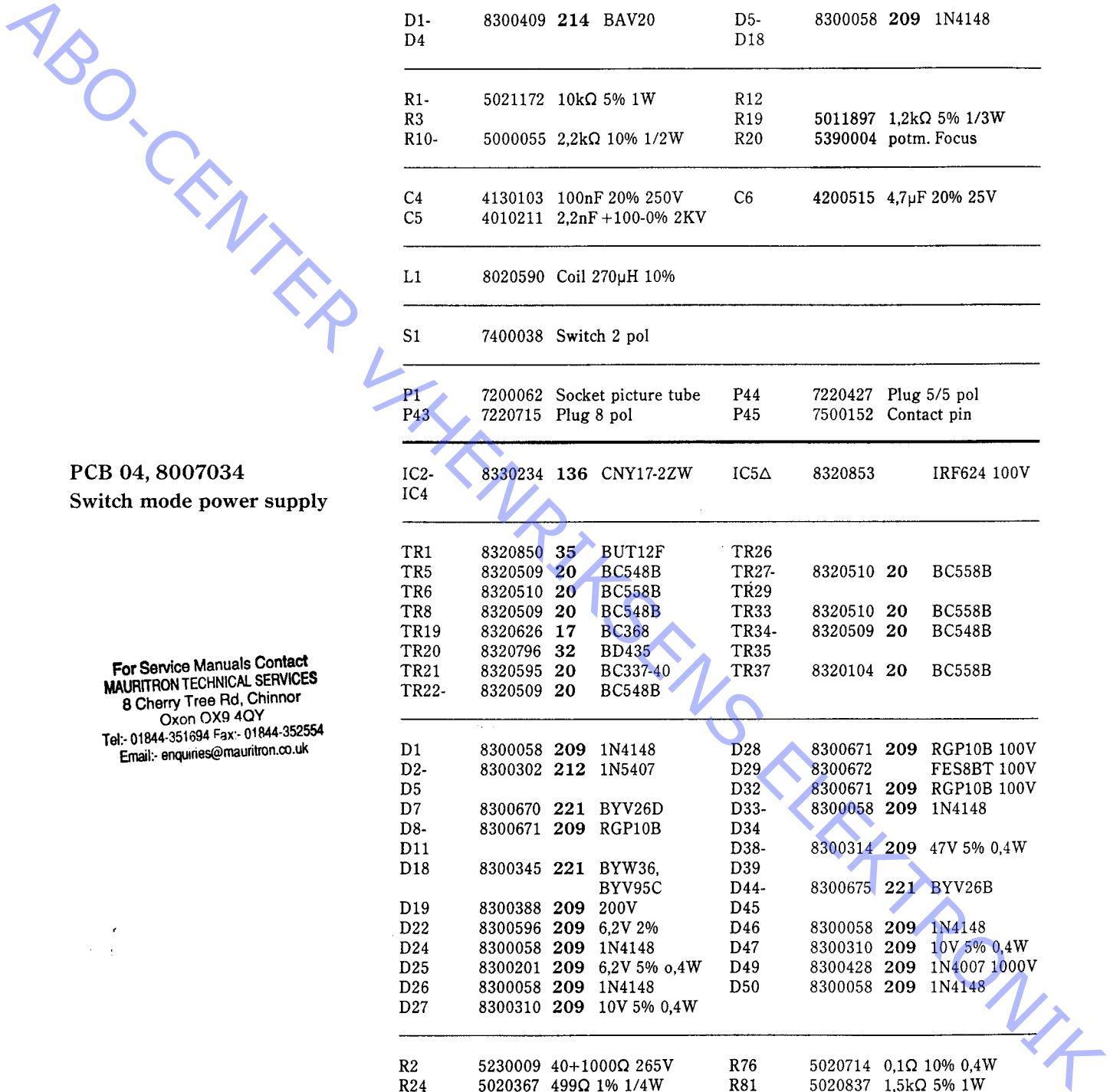
PCB 03, 8007041
Video Output

TR1- TR3	8320623	17	BF423	TR4- TR6	8320440	36	BF869
D1- D4	8300409	214	BAV20	D5- D18	8300058	209	1N4148
R1- R3 R10-	5021172	10kΩ	5% 1W	R12 R19 R20	5011897	1,2kΩ	5% 1/3W potm. Focus
C4 C5	4130103	100nF	20% 250V	C6	4200515	4,7μF	20% 25V
	4010211	2,2nF	+100-0% 2KV				
L1	8020590	Coil	270μH 10%				
S1	7400038	Switch	2 pol				
P1 P43	7200062	Socket picture tube		P44 P45	7220427	Plug 5/5 pol	Contact pin
	7220715	Plug 8 pol			7500152		

PCB 04, 8007034
Switch mode power supply

IC2- IC4	8330234	136	CNY17-2ZW	IC5Δ	8320853		IRF624 100V
TR1 TR5 TR6 TR8 TR19 TR20 TR21 TR22-	8320850	35	BUT12F	TR26 TR27- TR29 TR33 TR34- TR35 TR37	8320510	20	BC558B
	8320509	20	BC548B		8320510	20	BC558B
	8320510	20	BC558B		8320510	20	BC558B
	8320509	20	BC548B		8320509	20	BC548B
	8320626	17	BC368		8320509	20	BC548B
	8320796	32	BD435				
	8320595	20	BC337-40		8320104	20	BC558B
	8320509	20	BC548B				
D1 D2- D5 D7 D8- D11 D18	8300058	209	1N4148	D28 D29 D32 D33- D34 D38- D39 D44- D45 D46 D47 D49 D50	8300671	209	RGP10B 100V
	8300302	212	1N5407		8300672		FES8BT 100V
	8300670	221	BYV26D		8300671	209	RGP10B 100V
	8300671	209	RGP10B		8300058	209	1N4148
	8300345	221	BYW36, BYV95C		8300314	209	47V 5% 0,4W
	8300388	209	200V		8300675	221	BYV26B
	8300596	209	6,2V 2%		8300058	209	1N4148
	8300058	209	1N4148		8300310	209	10V 5% 0,4W
	8300201	209	6,2V 5% 0,4W		8300428	209	1N4007 1000V
	8300058	209	1N4148		8300058	209	1N4148
	8300310	209	10V 5% 0,4W				
R2 R24 R27 R30 R39	5230009	40+1000Ω	265V	R76 R81 R82 R100	5020714	0,1Ω	10% 0,4W
	5020367	499Ω	1% 1/4W		5020837	1,5kΩ	5% 1W
	5020234	14,7kΩ	1% 1/4W		5370402	2,2kΩ	30%
	5020851	332kΩ	1% 1/4W		5020183	464Ω	1% 1/4W
	5021160	2,7Ω	5% 1W				

For Service Manuals Contact
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Email:- enquiries@mauritron.co.uk



20	101	103	111	125	136	139	209
217							

Resistors not referred to are standard, see page 3-12.

Δ indicates that static electricity may destroy the component.

C1	4130486	220nF 10% 250V	C29	4010240	2,2nF 20% 400V
C2	4130098	100nF 20% 400V	C30-	4010103	2,2nF 10% 63V
C3-	4130169	47nF 20% 250V	C33		
C4			C34	4010105	1nF 10% 63V
C5	4130474	6,8nF 20% 630V	C37-	4010105	1nF 10% 63V
C6	4200609	150μF 20% 385V	C39		
C7	4000153	33p 5% 50V	C40	4010230	220pF 20% 1KV
C10	4200610	470μF 20% 63V	C41	4010228	3,3nF -20+50% 400V
C11	4200612	1000μF -20+50% 25V	C42	4010104	220pF 10% 500V
C13	4200607	100μF 20% 250V	C43	4010229	100pF 20% 1KV
C15	4200612	1000μF -20+50% 25V	C45	4010240	2,2nF 20% 400V
C16	4200392	2200μF 20% 16V	C46	4010105	1nF 10% 63V
C18	4200600	470μF 20% 16V	C47-	4010104	220pF 10% 500V
C19	4130306	100nF 10% 63V	C50		
C20	4200952	47μF -20+50% 25V	C51	4130306	100nF 10% 63V
C21	4100237	2,2nF 5% 63V	C52	4010105	1nF 10% 63V
C22	4100236	1nF 5% 63V	C53	4010106	10nF -20+80% 40V
C23-	4010106	10nF -20+80% 40V	C54	4010104	220pF 10% 500V
C24			C59	4010106	10nF -20+80% 40V
C25	4200952	47μF -20+50% 25V	C60	4200544	22μF 20% 16V
C26	4200517	2,2μF 20% 50V	C61	4130230	100nF 20% 63V
L2	6850209	Coil 0,5μ	L5	8024047	Coil 250μH
L3	6850210	Coil 0,25μH	L6	6850195	Coil 1,3μH
L4	6850208	Coil 2μH			
FE1	6710023	5x0,7x10	FE3	6710023	5x0,7x10
FE2	6710022	3x0,7x10			
S1	8020325	Coil 10μH	For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554 Email:- enquiries@mauritron.co.uk		
SI1	7500223	Fuse holder			
ST	8300320	T0509μH			
T1	8014096	Trafo switch	T6	8022295	Coil
T5	8022320	Coil			
P77	7500013	Contact pin	P81	7220419	Plug 10/10 pol
P78	7220406	Plug 2/2 pol	P82	7220424	Plug 2/2 pol
P79	7220713	Plug 6 pol	P83	7220897	Plug 2/2 pol
P80	7220415	Plug 6/6 pol	P84	7500013	Contact pin

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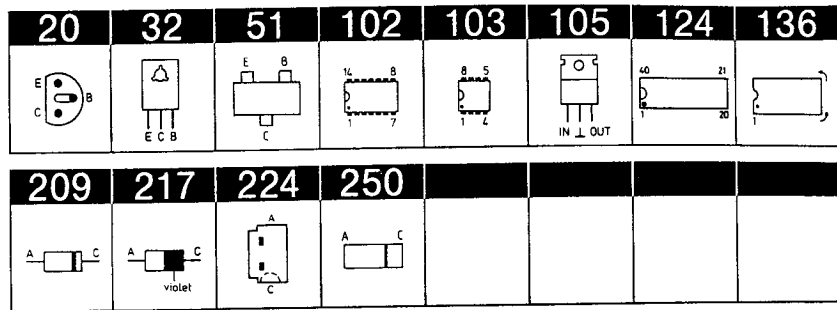
4/44

PCB 05, 8007040
Video and sound switching

IC1	8341037	125	TDA8421	IC12			
IC2-Δ	8341022	103	4558	IC13	8341167	111	TEA5115
IC3				IC14	8341168	111	TEA5116
IC4Δ	8341072	101	4053	IC15-Δ	8341022	103	4558
IC5-Δ	8341059	101	4052	IC18			
IC8				IC30-Δ	8340782	136	4094
IC9-	8341127	139	TA7348	IC31			
TR8	8320523	20	BC328-25	TR22			
TR9	8320512	20	BC338-25	TR26	8320509	20	BC548B
TR18	8320509	20	BC548B	TR27	8320552	20	BC327-25
TR19	8320512	20	BC338-25	TR28	8320503	20	BC557B
TR21-	8320512	20	BC338-25				
D1	8300058	209	1N4148	D13	8300029	209	Z12V
D4	8300201	209	Z6,2V 5% 0,4W	D15	8300058	209	1N4148
D5	8300154	209	Z6,8V 5% 0,4W	D17-	8300058	209	1N4148
D9-	8300058	209	1N4148	D20			
D10				D21	8300482	217	4148
D11	8300029	209	Z12V 5% 0,4W	D100	8300482	217	4148
R160	5020495	10Ω	5% 1W	R207	5021197	39Ω	5% 1W
R166-	5021145	76,8Ω	1% 1/4W	R213	5021145	76,8Ω	1% 1/4W
R167				R217	5021145	76,8Ω	1% 1/4W
R194	5021197	39Ω	5% 1W	R338	5020489	10Ω	10% 0,3W
R197	5011510	1kΩ	1% 1/4W				
C42-	4010175	33nF	10% 50V	C150			
C43				C151	4200826	10μF	20% 16V
C44	4010173	4,7nF	10% 50V	C152-	4200431	10μF	20% 16V
C45	4010063	4,7nF	10% 63V	C153			
C46	4010242	3,9nF	10% 50V	C154-	4000284	330pF	5% 50V
C47	4010182	3,9nF	10% 50V	C157			
C48	4200628	100μF	20% 16V	C158-	4000287	220nF	-20+80% 25V
C49-	4000289	15nF	10% 50V	C162-	4000287	220nF	-20+80% 25V
C50				C163			
C51	4200525	22μF	20% 10V	C165	4000287	220nF	-20+80% 25V
C52-	4200523	0,47μF	20% 50V	C166-	4000284	330pF	5% 50V
C55				C167			
C56	4010166	100nF	-20+80% 50V	C168-	4000287	220nF	-20+80% 25V
C58	4010166	100nF	-20+80% 50V	C169			
C60	4010166	100nF	-20+80% 50V	C170-	4010166	100nF	-20+80% 50V
C62-	4010105	1nF	10% 63V	C173			
C63				C182	4010166	100nF	-20+80% 50V
C66	4010166	100nF	-20+80% 50V	C183-	4000287	220nF	-20+80% 25V
C72-	4130230	100nF	20% 63V	C184			
C73				C185-	4200515	4,7μF	20% 25V
C79	4000233	220pF	5% 50V	C186			
C80-	4130230	100nF	20% 63V	C188	4010106	10nF	-20+80% 40V
C81				C189	4010105	1nF	10% 50V
C82	4000233	220pF	5% 50V	C190	4130230	100nF	20% 63V
C83	4130230	100nF	20% 63V	C191-	4200510	10μF	20% 16V
C84-	4010155	220pF	10% 63V	C200			
C85				C201	4200826	10μF	20% 16V
C88	4010166	100nF	-20+80% 50V	C204-	4000240	56pF	5% 50V
C92	4130230	100nF	20% 63V	C205			
C94	4130230	100nF	20% 63V	C206-	4000278	27pF	5% 50V
C95	4000233	220pF	5% 50V	C207			
C100	4010166	100nF	-20+80% 50V	C208	4000281	82pF	5% 50V
C104-	4130230	100nF	20% 63V	C209	4200525	22μF	20% 10V
C105				C210	4010107	22nF	-20+80% 40V
C110	4130230	100nF	20% 63V	C211	4200431	10μF	20% 16V
C131	4010103	2,2nF	10% 50V	C212	4010170	2,2nF	10% 50V
C133-	4130230	100nF	20% 63V	C213-	4010157	10nF	10% 50V
C134				C214			
C135	4010166	100nF	-20+80% 50V	C215-	4010170	2,2nF	10% 50V
C136	4130230	100nF	20% 63V	C218			
C137	4010166	100nF	-20+80% 50V	C219-	4200525	22μF	20% 10V
C138-	4130230	100nF	20% 63V	C220			
C143				C221	4200600	470μF	20% 16V
C144	4010166	100nF	-20+80% 50V	C222	4000233	220pF	5% 50V
C145-	4130230	100nF	20% 63V	C902-	4010166	100nF	-20+80% 50V
				C903			

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VIDEO-TECHNIK



Resistors not referred to are standard, see page 3-12.
 □ only used in early types
 Δ indicates that static electricity may destroy the component.

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BP1- 7500013 Contact pin
 BP3

P47	7220709	Plug 2 pol	P56	7220711	Plug 4 pol
P48	7220129	Plug 2/2 pol	P57	7220717	Plug 10 pol
P49	7220712	Plug 5 pol	P58	7220413	Plug 4/4 pol
P50	7220716	Plug 9 pol	P59	7220709	Plug 2 pol
P51	7220711	Plug 4 pol	P60	7220711	Plug 4 pol
P52	7220709	Plug 2 pol	P61	7220714	Plug 7 pol
P53	7220712	Plug 5 pol	P62	7220712	Plug 5 pol
P54	7220715	Plug 8 pol	P63	7220714	Plug 7 pol
P55	7220710	Plug 3 pol	P64	3168760	Din/Scart

PCB 06, 8007025
 Teletext and uP System

PCB 06, 8007384
 Teletext and uP System, E

IC1	8341126	136	74HCT138	IC13	8341034	124	80C32
IC4	8340777	136	74HCT573	IC15Δ	8341713		S/W 1.5 S
IC5	8341125	136	2816B	IC15Δ	8341470		S/W 1.5 P
IC7	8340720	136	SAA5231	IC15Δ	8341694	136	S/W 1.5 E
IC8	8341068	124	SAA5243	IC16	8341233	103	TL7705
IC9	8341463	136	6264	IC17	8341227	105	7205
IC10Δ	8340167	102	4001	IC19	8341322	124	82C55A
IC11	8340885	136	6264				

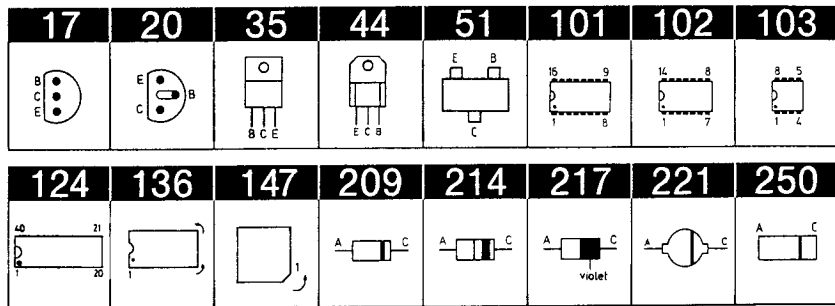
TR1	8320615	51	BC848B	TR31	8320615	51	BC848B
TR2	8320740	51	BF840	TR35	8320523	20	BC328-25
TR3	8320616	51	BC858B	TR36	8320317	32	BD135
TR4-	8320615	51	BC848B	TR37-	8320512	20	BC338-25
TR5				TR38			
TR6	8320616	51	BC858B	TR39	8320509	20	BC548B
TR7	8320747	51	BC848C	TR40	8320615	51	BC848B
TR8	8320615	51	BC848B	TR43	8320616	51	BC858B
TR9	8320509	20	BC548B	TR44	8320615	51	BC848B
TR10	8320615	51	BC848B	TR45-	8320616	51	BC858B
TR12	8320615	51	BC848B	TR49			
TR14	8320615	51	BC848B	TR50	8320615	51	BC848B
TR21-	8320615	51	BC848B	TR51	8320616	51	BC858B
TR23				TR52-	8320615	51	BC848B
TR25-	8320616	51	BC858B	TR56			
TR26				TR58	8320509	20	BC548B
TR29	8320615	51	BC848B	TR59	8320616	51	BC858B
TR30	8320616	51	BC858B	TR60	8320615	51	BC848B

D1-	8300482	217	4148 75V	D23	8300482	217	4148
D4				D27	8300482	217	4148
D5	8300520	224	Z6,8V 5%	D28	8300520	224	Z6,8V 5%
D7	8300482	217	4148	D29-	8300482	217	4148
D10-	8300482	217	4148	D30			
D11				D34-	8300482	217	4148
D17	8300562	250	Z5,6V 2%	D35			
D18	8300058	209	1N4148	D36-	8300520	224	Z6,8V 5%
D19	8300316	209	Z 13V 5% 0,4W	D37			
D20	8300058	209	1N4148	D38	8300556	209	Z6,2V 1,3W
D21	8300482	217	4148	D40-	8300482	217	4148
				D44			

R174- R175 R176- R177	5020569 5020872	1,3k Ω 1% 1/4W 619 Ω 1% 1/4W	R178- R180 R181 R182	5011509 5020569 5020872	1,5k Ω 1% 1/4W 1,3k Ω 1% 1/4W 619 Ω 1% 1/4W
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C14 C15 C17 C19 C20 C25- C26 C29 C32- C33 C34- C40 C41- C42 C43 C44 C46- C48 C49 C50- C52 C54 C57 C58 C59- C60 C62 C64 C65	4000292 4010170 4000236 4000293 4010170 4000236 4000293 4000287 4130315 4130308 4000233 4010177 4000241 □ 4000239 4000241 □ 4000233 4130313 4000286 4010166 4000236 4010170 4000239 4010166 4010170 4010170 4010170 4010170 4010170 4010103 4010170 4010170 4010103 4010170 4010170 4010103 4000241 4000281 4010170 4200517 4130230	100pF 5% 50V 2,2nF 10% 50V 470pF 10% 50V 47pF 5% 50V 2,2nF 10% 50V 470pF 10% 50V 47pF 5% 50V 220nF -20+80% 25V 15nF 5% 63V 220nF 10% 63V 220pF 5% 50V 22nF -20+80% 50V 100pF 5% 50V 33pF 5% 50V 100pF 5% 50V 220pF 5% 50V 470nF 20% 63V 470pF 5% 50V 100nF -20+80% 50V 470pF 10% 50V 4010170 2,2nF 10% 50V 4000239 33pF 5% 50V 4010166 100nF -20+80% 50V 4010170 2,2nF 10% 50V 4010157 10nF 10% 50V 4010170 2,2nF 10% 50V 4010170 2,2nF 10% 50V 4010170 2,2nF 10% 50V 4010103 2,2nF 10% 63V 4010170 2,2nF 10% 50V 4010170 2,2nF 10% 50V 4010103 2,2nF 10% 63V 4000241 100pF 5% 50V 4000281 82pF 5% 50V 4010170 2,2nF 10% 50V 4200517 2,2 μ F 20% 50V 4130230 100nF 20% 63V	C66 C67 C69 C70 C71- C72 C73- C74 C75 C76 C77 C78 C79 C80 C81 C82 C83 C84 C85 C86 C87 C90 C91 C92- C93 C94 C95- C96 C98 C101 C104 C105 C106 C108 C109 C110 C111 C112 C113 C115 C116- C117 C118	4200637 4200516 4000165 4130290 4000146 4010105 4130262 4010110 4000139 4200616 4200512 4130240 4130308 4000140 4010166 4010106 4010103 4010166 4010170 4010157 4200510 4000234 4010170 4010166 4010170 4000286 4000236 4200512 4200510 4010157 4130230 4130233 4000286 4010103 4010166 4010170 4010157 4000234	100 μ F -10+100% 16V 47 μ F 20% 16V 220pF 5% 63V 68nF 20% 63V 15pF 5% 63V 1nF 10% 63V 22nF 20% 63V 270pF 10% 63V 100pF 5% 63V 6,8 μ F 20% 25V 1 μ F 20% 50V 47nF 10% 63V 220nF 10% 63V 27pF 5% 63V 100nF -20+80% 50V 10nF -20+80% 40V 2,2nF 10% 63V 100nF -20+80% 50V 2,2nF 10% 50V 10nF 10% 50V 10 μ F 20% 16V 47pF 5% 50V 2,2nF 10% 50V 100nF -20+80% 50V 2,2nF 10% 50V 4010170 2,2nF 10% 50V 4000286 470pF 5% 50V 4000236 470pF 10% 50V 1 μ F 20% 50V 10 μ F 20% 16V 10nF 10% 50V 100nF 20% 63V 220nF 20% 63V 470pF 5% 50V 2,2nF 10% 63V 100nF -20+80% 50V 2,2nF 10% 50V 10nF 10% 50V 4000234 47pF 5% 50V
BP1	8030056	455kHz	X3 X4	8090041 8090075	13.875 MHz 12 MHz
F1	6604036	315mAF			
L1 L2 L7 L8	8020807 8020552 8020554 8020555	Coil 10 μ H Coil 10 μ H 10% Coil 15 μ H 5% Coil 6MHz	L9- L10 L11- L12	8020565 8020552	Coil 2,2 μ H Coil 10 μ H 10%
P65 P66 P67 P68 P69	7220710 7220714 7220712 7220714 7220711	Plug 3 pol Plug 7 pol Plug 5 pol Plug 7 pol Plug 4 pol	P70 P71 P72 P73	7220709 7220716 7220717 7220713	Plug 2 pol Plug 9 pol Plug 10 pol Plug 6 pol
S1- S2	7400318	Switch 1 pol	S3	7210386	Socket Jack
P87	7220710	Plug 3 pol	P88	7220427	Plug 5/5 pol
T1	8014111	Trafo auto inp. Only MX3500	□	8024049	Coil 20 mH Only MX3500

PCB 07, Headphone
8007068 LX45/5500

8007211 MX5500
8007212 MX3500
PCB07 8007213
Push button panel
MX3500



Resistors not referred to are standard, see page 3-12.

Δ indicates that static electricity may destroy the component.

PCB 08, 8007066
Nicam decoder, B/G

IC1	8341099	136	TA8662N	IC5Δ	8341257	102	74HC4052
IC2	8341159	124	CF70123	IC6	8341225	103	LM3578
IC3	8341173	101	PCF8574	IC7Δ	8341022	103	4558
IC4	8341174	147	SAA7320				

PCB 08, 8007071
Nicam decoder, I

TR1-	8320615	51	BC848B	TR8-	8320609	51	BC808-25
TR2				TR9			
TR3	8320904	22	BF256A	TR10	8320615	51	BC848B
TR7	8320439	35	BD535				

* Only in I version

D1	8300730	209	SIBB809	D101	8300677	250	Z4,7V 5%
D2	8300345	221					0,5W
D6-	8300482	217	4148	D102	8300482	217	4148
D7				D103	8300605	250	Z10V 5%
D100	8300482	217	4148				

R31	5011527	12kΩ	1% 1/8W	R46-	5011600	100kΩ	1% 1/8W
R32	5011600	100kΩ	1% 1/8W	R47			
R33-	5011527	12kΩ	1% 1/8W	R100-	5011600	100kΩ	1% 1/8W
R35				R101			
R36	5011600	100kΩ	1% 1/8W	R102-	5011839	180kΩ	1% 1/8W
R41-	5011600	100kΩ	1% 1/8W	R103			
R42							

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C1	4010166	100nF	-20+80% 50V	C44-	4010220	100nF	10% 50V
C2	4010220	100nF	10% 50V	C45			
C3	4010166	100nF	-20+80% 50V	C46-	4200826	10μF	20% 16V
C4	4010157	10nF	10% 50V	C49			
C6	4010176	10nF	-20+80% 50V	C50	4000342	1nF	10% 50V
C7	4000240	56pF	5% 50V	C51	4000277	22pF	5% 50V
C8-	4000277	22pF	5% 50V	C52	4200760	220μF	-10+50% 16V
C9				C53	4200946	10μF	20% 50V
C11	4010176	10nF	-20+80% 50V	C54	4010220	100nF	10% 50V
C12-	4000282	180pF	5% 50V	C55	4000241	100pF	5% 50V
C13				C56-	4130485	470nF	20% 63V
C15-	4010220	100nF	10% 50V	C59			
C20				C60	4010166	100nF	-20+80% 50V
C21-	4010176	10nF	-20+80% 50V	C62	4010166	100nF	-20+80% 50V
C23				C63	4000275	15pF	5% 50V
C25	4010176	10nF	-20+80% 50V	C100	4200826	10μF	20% 16V
C27	4000281	82pF	5% 50V	C112	4010220	100nF	10% 50V
C29	4000342	1nF	10% 50V	C115	4010220	100nF	10% 50V
C30	4010220	100nF	10% 50V	C116	4000234	47pF	5% 50V
C31	4000278	27pF	5% 50V	C117	4010220	100nF	10% 50V
C32	4000277	22pF	5% 50V	C118-	4000277	22pF	5% 50V
C34	4340034	7,5-50pF		C119			
C35	4000286	470pF	5% 50V	C120-	4000234	47pF	5% 50V
C36	4200826	10μF	20% 16V	C123			
C37	4010172	3,3nF	10% 50V	C124	4000352	1nF	5% 50V
C38	4000241	100pF	5% 50V	C125	4000234	47pF	5% 50V
C39	4010220	100nF	10% 50V	C126-	4000352	1nF	5% 50V
C40	4000286	470pF	5% 50V	C130			
C41	4000241	100pF	5% 50V	C131-	4000236	470pF	10% 50V
C42	4010172	3,3nF	10% 50V	C132			
C43	4000234	47pF	5% 50V				

L1-	8020806	Coil 1μH 10%	L6	8020759	Coil 1μH 10%
L2			L7	8020609	Coil 3,3μH
L3	8020772	Coil 10μH	L20	8020804	Coil 33μH 10%
L4-	8020609	Coil 3,3μH	L30	8020609	Coil 3,3μH
L5					

BP1	8020734	Coil 5,85 MHz	* BP1	8020735	Coil 6,552MHz
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X1	8090085	Crystal 5,85 MHz	X2	8090110	Crystal 16,384 MHz
* X1	8090081	Crystal 6,552MHz	X3	8090083	Crystal 5,824 MHz

P801	7220710	Plug 3 pol	P804	7220713	Plug 6 pol
P802	7220711	Plug 4 pol	P807	7220714	Plug 7 pol
P803	7220712	Plug 5 pol			

PCB 09, 8007042
IR receiver and transmitter

TR1	8320740	17	BF423	TR5		
TR2	8320636	51	BC849B	TR6	8320616	51 BC858B
TR3-	8320691	17	BC369	TR7	8320615	51 BC848B

D3-	8330145	880nM	D5-	8330237	245	IR Emitter
D4		455 KHz	D7			
			D8	8330236	222	Bicolor

C1-	4000286	470pF 5% 50V	C4	4000287	220nF -20+80% 25V
C2			C7-	4010166	100nF -20+80% 50V
C3	4000234	47pF 5% 50V	C10		

L1	8020590	Coil 270μH 10%	L2	8020768	Coil 455 KHz
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P91	7220715	Plug 8 pol
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PCB 10, 8007134
Time base and deflection

IC1	8340717	133	TDA 2170	IC5	8341359	113	TDA8432
IC2	8341131	111	TDA2579A	IC6Δ	8340176	102	4013
IC3	8341236	136	TDA 2050	IC7	8341222	35	BDX53A

PCB 10, 8007379
Time base and deflection, ver. E
(see soldering side)

TR1	8320239	44	BD135	TR8	8320857	39	BU508AF
TR2	8320509	20	BC548B	TR9-	8320509	20	BC548B
TR3	8320510	20	BC558B	TR11			
TR4	8320595	20	BC337-40	TR12	8320512	20	BC338-25
	* 8320510	20	BC558B	TR13-	8320509	20	BC548B
TR5	8320626	17	BC368	TR17			
	* 8320922	21	VN2010	TR18	8320552	20	BC327-25
TR6	8320509	20	BC548B	TR20	8320523	20	BC328-25
TR7	8320691	17	BC369	TR21	8320510	20	BC558B

**Only in PCB E version*

Still display, 8007217

D1	8300023	209	1N4002	D22	8300518	217	BA157
D2	8300058	209	1N4148	D23	8300503	209	RGP10G
D3	8300486	214	BAX14	D24-	8300345	221	BYV95C
D4-	8300058	209	1N4148	D25			
D6				D26	8300503	209	RGP10G
* D4-	8300518	217	BA157	D27	8300058	209	1N4148
D5				D29-	8300058	209	1N4148
* D6	8300023	209	1N4002	D31			
D8	8300738	221	BY228	D32-	8300023	209	1N4002
D9	8300345	221	BYV95C	D33			
* D11	8300029	209	Z12V 0,4W	D34	8300169	209	Z 5,1V 5% 0,5W
D12	8300058	209	1N4148	D35	8300058	209	1N4148
D15-	8300058	209	1N4148	D37	8300201	209	Z 6,2V 5% 0,4W
D16				D40	8300023	209	1N4002
D17	8300596	209	Z6,2V 2%	D41-	8300058	209	1N4148
D18	8300058	209	1N4148	D42			
D19	8300596	209	Z6,2V 2%				

R1	5020784	1Ω 5% 1W	R98	5011744	24kΩ 1% 1/4W
R22	5020464	2,2Ω 5% 1W	R107	5020962	4,7Ω 5% 0,5W
R23	5020448	15Ω 5% 2W	R108	5021054	1Ω 10% 0,30W
R33	5020709	100Ω 5% 2W	R109	5020499	0,1Ω 10% 0,4W
R36	5020713	1kΩ 10% 0,5W	R110-	5020812	0,22Ω 10% 0,4W
R64	5020114	11kΩ 1% 1/4W	R111		
R77	5011745	33kΩ 1% 1/4W	R112	5020499	0,1Ω 10% 0,4W
R85	5020195	1,62kΩ 1% 1/4W	R133	5020229	9,53kΩ 1% 1/4W
R89	5011210	1,05kΩ 1% 1/4W	R181	5021125	3,3kΩ 5% 1W
R91	5020835	1,37kΩ 1% 1/4W			

C1	4130233	220nF 20% 63V	C45	4130241	10nF 20% 63V
C2	4201082	100μF -10+100% 40V	C46-	4010107	22nF -20+80% 40V
C3	4000193	47pF 5% 63V	C47		
C4-	4130233	220nF 20% 63V	C48	4130230	100nF 20% 63V
C5			C49	4200704	470μF 20% 25V
C6	4201082	100μF -10+100% 40V	C50	4130241	10nF 20% 63V
C7	4010105	1nF 10% 63V	C51	4130404	1,8nF 10% 1500V
C8	4130136	1μF 20% 100V	C52	4200512	1μF 20% 50V
C9	4200760	220μF -10+50% 16V	C53	4130029	470nF 10% 250V
C10	* 4010123	1nF 10% 500V	C54-	4201082	100μF -10+100% 40V
C10	4010105	1nF 10% 63V	C56		
C11	* 4130308	220nF 10% 63V	C58	4130234	470nF 10% 63V
C11	4200395	470μF -20+50% 16V	C59	4200515	4,7μF 20% 25V
C12	* 4130404	1,8nF 10% 1500V	C60	4010103	2,2nF 10% 63V
C12	4200525	22μF 20% 10V	C61-	4200617	47μF 20% 10V
C13	* 4200760	220μF 20% 16V	C62		
C13	4130241	10nF 20% 63V	C63	4130313	470nF 20% 63V
C14	4200512	1μF 20% 50V	C64	4200525	22μF 20% 10V
C17	4130372	6,8nF 20% 400V	C65	4200559	3300μF -10+50% 40V
C18	4130081	10nF 20% 250V	C66-	4130233	220nF 20% 63V
C19	4130323	6,8nF 5% 1500V	C67		
C20	4130325	18nF 5% 63V	C68	4200515	4,7μF 20% 25V
C21	4130349	300nF 5% 250V	C69	4010103	2,2nF 10% 63V
C22	4130326	560nF 5% 250V	C70-	4200617	47μF 20% 10V
C23-	4200525	22μF 20% 10V	C71		
C24			C72	4200559	3300μF -10+50% 40V
C25	4130307	150nF 10% 63V	C73-	4130233	220nF 20% 63V
C26	4130234	470nF 10% 63V	C74		
C27	4200515	4,7μF 20% 25V	C75	4010107	22nF -20+80% 40V
C28	4200510	10μF 20% 16V	C76	4100289	2,7nF 1% 63V
C29	4130230	100nF 20% 63V	C76	4130308	220nF 10% 63V
C30	4130303	15nF 10% 63V	C85	4130308	220nF 10% 63V
C31-	4130241	10nF 20% 63V	C86-	4000243	100pF 5% 63V
C32			C87		
C33	4130230	100nF 20% 63V	C90	4130230	100nF 20% 63V
C36	4130230	100nF 20% 63V	C93	4010111	3,3nF 10% 63V
C37	4130241	10nF 20% 63V	C94	4000243	100pF 5% 63V
C39	4130230	100nF 20% 63V	C95	4010128	470pF 10% 50V
C40	4200616	6,8μF 20% 25V	C96	4200628	100μF 20% 16V
C41	4200517	2,2μF 20% 50V	C97	4130103	100nF 20% 250V
C42	4200508	22μF 20% 25V	C98	4130230	100nF 20% 63V
C44	4130313	470nF 20% 63V	C99	4010106	10nF -20+80% 40V

L1	6850195	Coil 1,3μH	L4	8024046	Trafo coil
L2	8020564	Coil 160μ-200μ- 10μH	L5	8020660	Coil 100μH
L3	8024045	Coil	L8-	6850214	Coil 0,8μH
			L9		

RL1 7600098 Relay 9V

S1 8020325 Coil 10μH

T1	8014094	Trafo	T3	8014102	Trafo
T2	8014074	Trafo			

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

P12	7220713	Plug 6 pol
P13	7220712	Plug 5 pol
P14	7220432	Plug 2/2 pol
P15	7220712	Plug 6 pol
P16	7220712	Plug 5 pol
P17	7220427	Plug 4 pol
P18	7220411	Plug 5/5 pol
P19	7220711	Plug 2/2 pol
P20	7220429	Plug 7/7 pol
P21	7220715	Plug 8 pol
P22	7220710	Plug 3 pol

Resistors 5% 1/2 W

P23	7220427	Plug 5/5 pol
P24	7220424	Plug 2/2 pol
P25	7220432	Plug 10/10 pol
P26	7220716	Plug 9 pol
P27	7220426	Plug 4/4 pol
P28	7220717	Plug 10 pol
P29	7220714	Plug 7 pol
P30	7220424	Plug 2/2 pol
P31	5020447	15Ω 5% 2W, only LX4500
P32	5100374	4.7Ω 10% 2W

PCB 63, 8039082
Crossover network, LX5500

R1	5100373	2.2Ω 10% 3W
R2	5100374	4.7Ω 10% 2W

Resistors 5% 1/4 W

R3	5020447	15Ω 5% 2W, only LX4500
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PCB 63, 8039075
Crossover network, LX4500

C1	4200560	2.2μF 20%
C2	4130228	470nF 20% 63V, only LX5500
C3	4200560	2.2μF 20%, only LX5500
C4	4200336	6.8μF 20%, only LX5500

Resistors 5% 1/8 W

L1	6850146	Coil 0.47μH-0.74Ω
L2	6850207	Coil 470μH-1.8Ω

PCB 29, 8003719, Transposer

TR1	8320670	51 BFT 25
TR2	8320615	51 BC 848B
TR3	8320754	53 BF 992

Resistors 5% 1/8 W

D1-4	8300478	209 BA 483
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C1-7	4000342	1 nF 10% 50V
C8	4000337	1.8 pF ±0.25 pF 63V
C9	4000276	18 pF 5% 50V
C10	4000229	150 pF 5% 50V
C11	4000278	27 pF 5% 50V
C12	4000331	6.8 pF ±0.25 pF 50V
C13	4000274	12 pF 5% 50V
C14	4000330	5.6 pF ±0.5 pF 50V
C15	4000337	1.8 pF ±0.25 pF 63V

C16	4000342	1 nF 10% 50V
C17	4000332	8.2 pF ±0.5 pF 50V
C18	4000275	15 pF 5% 50V
C19	4000276	18 pF 5% 50V
C20	4000267	3 pF ±0.25 pF 50V
C21	4000342	1 nF 10% 50V
C22	4000331	6.8 pF ±0.25 pF 50V
C23	4000274	12 pF 5% 50V
C24	4000342	1 nF 10% 50V

Resistors SMD 2% 1/8 W
SMD 5% 1/8 W

L1-2	8020609	Coil 3.3 μH
L3	6850203	Coil 400 nH
L4	6850177	Coil 97 nH
L5	6850175	Coil 52 nH

7210589 Socket COAX, female
7220539 Socket COAX, male
3164631 Cap, top

3164635 Cap, bottom
6270386 Wire w/plug

x1	x10	x1K	x10K	x100K	x1M	x10M
1.0	5011000	5011013	5011028	5011044	5010313	5011069
1.2	5011406	5011001	5011034	5011050	5011058	5010421
1.5	5010727	5011002	5011015	5011030	5011046	5011071
1.8	5010657	5010787	5011016	5011033	5011047	5011072
2.2	5011335	5010708	5010815	5011034	5011048	5011074
2.7	5011612	5010903	5011018	5010055	5011049	5011075
3.3	5010955	5011007	5011019	5011037	5011063	5010381
3.9	5010782	5011021	5011070	5011051	5011065	5010392
4.7	5010765	5011009	5011022	5010036	5011065	5011078
5.6	5011010	5011023	5011041	5011066	5011078	5011079
6.8	5010874	5011011	5011024	5011042	5011081	5011080
8.2	5011012	5011026	5011043	5011038	5011068	5011081

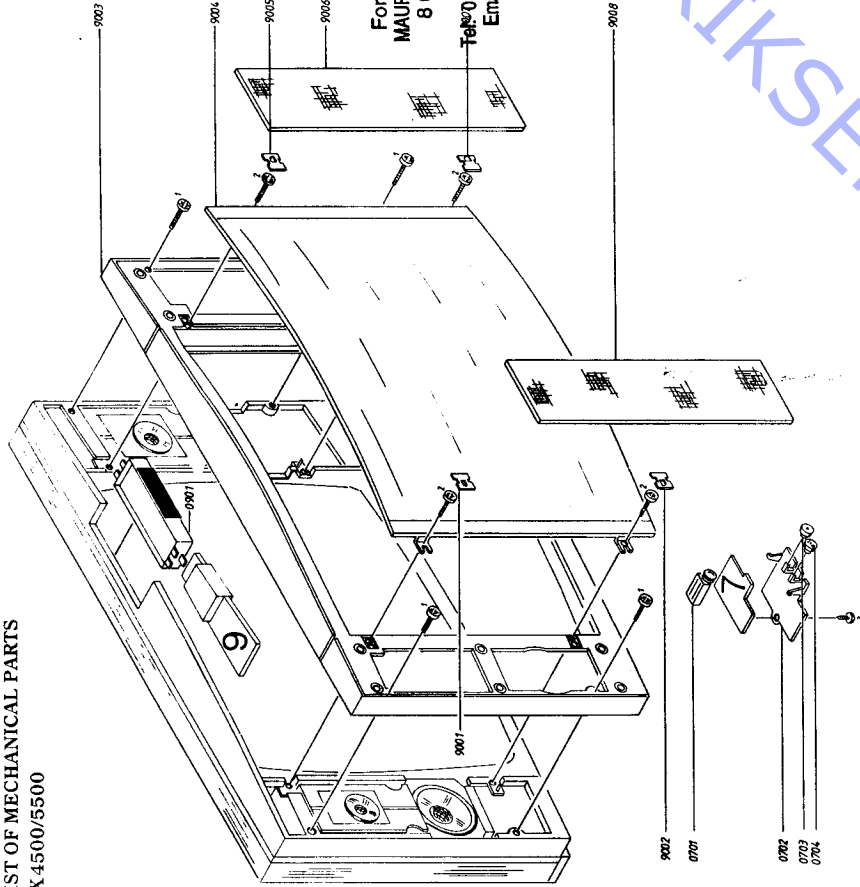
x1	x10	x1K	x10K	x100K	x1M	x10M
1.0	5010592	5010506	5010065	5010049	5010054	5010638
1.2	5010592	5010506	5010065	5010049	5010054	5010638
1.5	5011348	5010468	5010037	5010053	5010063	5010093
1.8	5010682	5010448	5010092	5010064	5010079	5010245
2.2	5010925	5010403	5010000	5010141	5010083	5010431
2.7	5010888	5010411	5010058	5010048	5010075	5010791
3.3	5011377	5010622	5010070	5010069	5010117	5010848
3.9	5010888	5010411	5010058	5010048	5010075	5010791
4.7	5010888	5010411	5010058	5010048	5010075	5010791
5.6	5010706	5010151	5010067	5010094	5010061	5010071
6.8	5010904	5010039	5010144	5010052	5010062	5010074
8.2	5010880	5010056	5010068	5010154	5010091	5010505

x1	x10	x1K	x10K	x100K	x1M	x10M
1.0	5011464	5011357	5010816	5010935	5011440	5011459
1.2	5011351	5011084	5011442	5011338	5011341	5011175
1.5	5011463	5011443	5011178	5011364	5011398	5011460
1.8	5011350	5011350	5011341	5011468	5011468	5011342
2.2	5011092	5011376	5010886	5011353	5011366	5011478
2.7	5011471	5011355	5011362	5011370	5011370	5011478
3.3	5011347	5011337	5010827	5011346	5011371	5011462
3.9	5011438	5011817	5011157	5011457	5011372	5020876
4.7	5011363	5011441	5011363	5010937	5011343	5011611
5.6	5011412	5011358	5010885	5011166	5011340	5011458
6.8	5011356	5011336	5010839	5011367	5011458	5011367
8.2	5011468	5011354	5011339	5011368	5011373	5011373

x1	x10	x1K	x10K	x100K	x1M	x10M
1.0	5011623	5011647	5011218	5011227	5011241	5011256
1.1	5011624	5011648	5011669	5011681	5011689	5011707
1.2	5011625	5011649	5011219	5011682	5011490	5011708
1.3	5011626	5011650	5011670	5011683	5011242	5011709
1.5	5011627	5011651	5011220	5011228	5011243	5011710
1.6	5011628	5011652	5011671	5011684	5011690	5011711
1.8	5011629	5011653	5011672	5011229	5011244	5011712
2.0	5011630	5011654	5011673	5011685	5011691	5011713
2.2	5011631	5011655	5011674	5011230	5011245	5011714
2.4	5011632	5011656	5011675	5011686	5011246	5011715
2.7	5011633	5011657	5011497	5011231	5011247	5011716
3.0	5011634	5011658	5011498	5011232	5011248	5011717
3.3	5011635	5011659	5011676	5011233	5011249	5011718
3.6	5011636	5011660	5011677	5011687	5011250	5011719
3.9	5011637	5011661	5011221	5011233	5011491	5011720
4.3	5011638	5011662	5011498	5011688	5011492	5011721
4.7	5011639	5011663	5011222	5011234	5011250	5011722
5.1	5011640	5011664	5011678	5011235	5011493	5011723
5.6	5011641	5011665	5011223	5011236	5011251	5011724
6.2	5011642	5011666	5011224	5011237	5011252	5011725
6.8	5011643	5011667	5011225	5011238	5011253	5011726
7.5	5011644	5011668	5011679	5011239	5011254	5011727
8.2	5011645	5011270	5011238	5011240	5011266	5011728
9.1	5011646	5011668	5011680	5011489	5011235	5011729

(Glue dots, approx. 200, part no. 3181932).

LIST OF MECHANICAL PARTS
LX 4500/5500



For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel: 01844-351694 Fax: 01844-352554
Email: enquiries@mauritron.co.uk

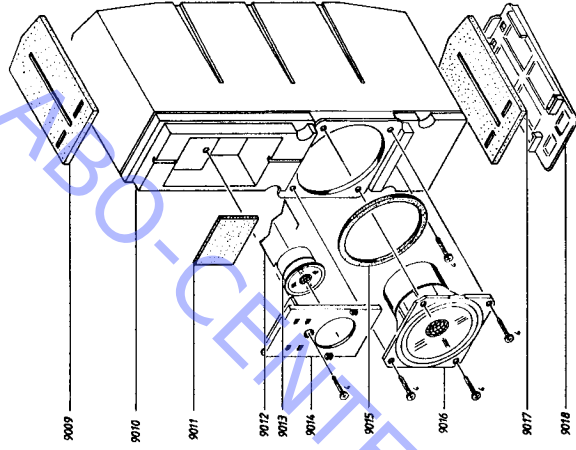
Front frame for
Beovision LX4500

9001	3164570	Cap	9006	3450898	Loudspeaker panel,
9002	3164570	Cap	9007	3164570	right
9003	3414146	Front frame	9008	3450897	Cap
9004	3450890	Glassplate			left
9005	3950043	Rubber string			
	3164570	Cap			
0701	8007068	Headphone	0704	2776033	Button, Pstrep
0702	7210386	Jack plug		6275990	Mains lead
0703	3131324	Cap		6275989	Mains lead, AUS
	2776032	Button for mains switch			

Front frame for
Beovision LX4500

0901	8007042	IR receiver and transmitter	9006	3450894	Loudspeaker panel,
	3302467	Shield, top			right
	3302468	Shield, bottom	9008	3450893	Loudspeaker panel,
	3131325	House for IR			left
9003	3414136	Front frame			
9004	3450888	Glass plate			
	3950044	Rubber string			

Other parts like front frame for Beovision LX5500



Loudspeaker cabinet for
Beovision LX5500

9009	3152614	Pressure pad	9013	8480204	Treble speaker
9010	3430373	Loudspeaker cabinet, right	9014	3152433	Loudspeaker suspension
	3430374	Loudspeaker cabinet, left	9015	3340078	Gasket
9011	3907051	Pressure pad	9016	8480214	Bass speaker
9012	2819207	Spring	9017	3152614	Pressure pad
			9018	3035054	Plastic foot
9009	3152615	Pressure pad	9015	3340047	Gasket
9010	3430376	Loudspeaker cabinet, right	9016	8480164	Bass speaker
	3430377	Loudspeaker cabinet, left	9017	3152615	Pressure pad

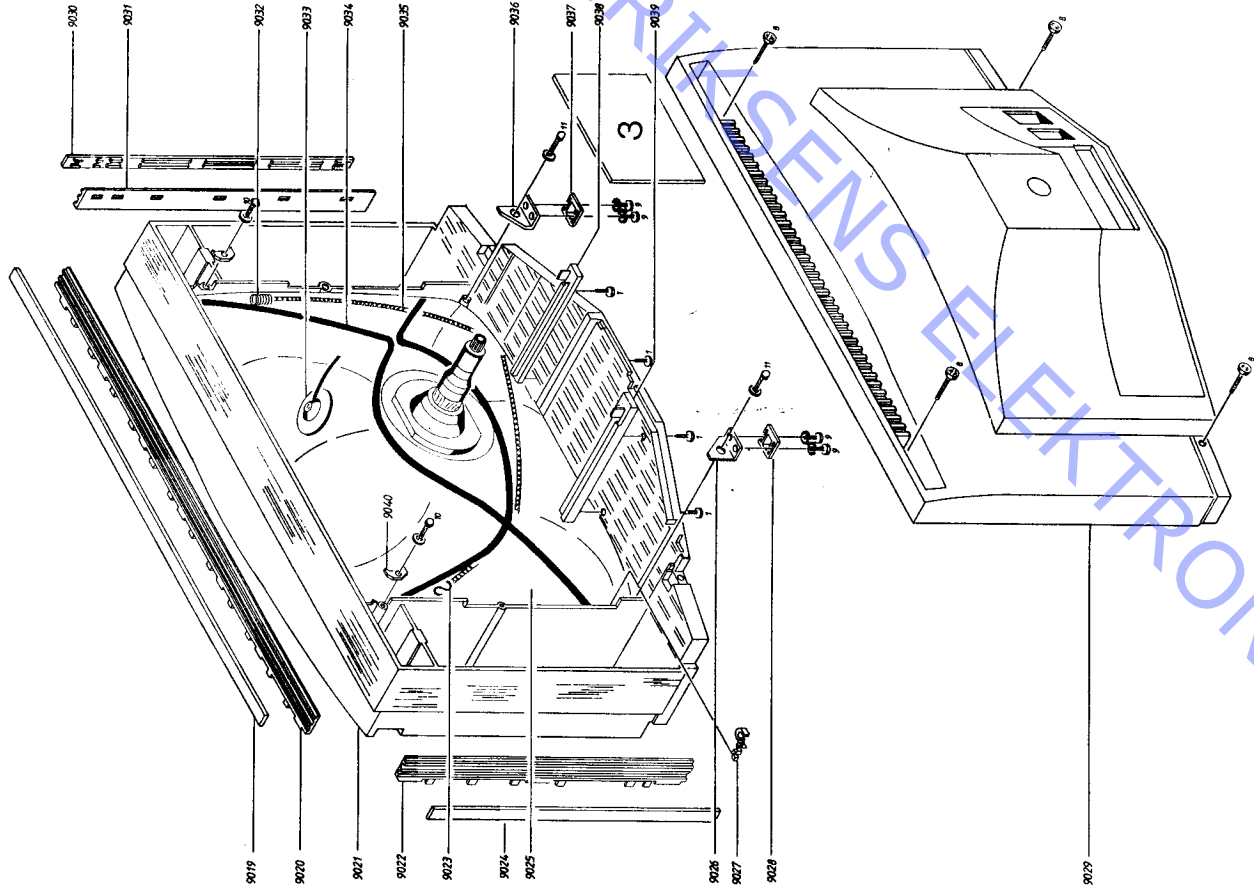
Other parts like loudspeaker cabinet for Beovision LX5500

Loudspeaker cabinet for
Beovision LX4500

9009	3152615	Pressure pad	9015	3340047	Gasket
9010	3430376	Loudspeaker cabinet, right	9016	8480164	Bass speaker
	3430377	Loudspeaker cabinet, left	9017	3152615	Pressure pad

Cabinet

Cabinet for Beovision LX5500



Cabinet for Beovision LX4500

9019	2569205	Profile, top	9028	2576200	Spacer
9020	2569207	Profile, top, blank	9029	3414336	Rear cover
9021	3152415	Holder	9030	2569232	Profile, side
	3414603	Cabinet, rosewood		2569220	Profile, side, blank
	3414325	Cabinet, white	9031	3152438	Holder, left
	3414326	Cabinet, black	9032	2810189	Spring
	3414329	Cabinet, grey	9033	6270474	EHT cable
9022	3152339	Holder, right	9034	8022222	Degaussing coil
9023	2510119	Clamp	9035	7510041	Ground current
9024	2569232	Profile, side	9036	3152432	Holder
9025	2569220	Profile, side, blank	9037	2576200	Spacer
9026	3200065	Picture tube 28"	9038	3152678	Rail, right
9027	3152446	Holder	9039	3152677	Rail, left
	3152778	Holder	9040	2576170	Spacer

03 modul8007041 Video Output

9019	2569206	Profile, top	9025	2569221	Profile, side blank
9020	2569208	Profile, top, blank	9029	8200064	Picture tube 25"
9021	3152451	Holder	9030	3414436	Rear cover
	3414303	Cabinet, rosewood		2569233	Profile, side
	3414425	Cabinet, white	9031	2569221	Profile, side, blank
	3414426	Cabinet, black	9034	3152452	Holder
9022	3414429	Cabinet, grey	9034	8022249	Degaussing coil
9024	3152538	Holder	9035	7510040	Ground current
	2569233	Profile, side			

Other parts like cabinet for Beovision LX5500

Survey of screws and washers

1	2019018	Screw 4.0x16	7	2013123	Screw 3x10
2	2021006	Screw 5x20	8	2021010	Screw 5x25
3	2015066	Screw 3.5x16	9	2044042	Screw 3x20
4	2015133	Screw 3.5x16	10	2044048	Screw 3x25
5	2013118	Screw 3x8	11	2044047	Screw 5x15
6	2013208	Screw 2.9x9.5			

Parts not shown

3397568	Foam packing, LX5500	3503571	Setting up guide, E
3397593	Foam packing, LX4500	3503572	Setting up guide, I
3392082	Outer carton LX5500	3501091	Users guide, DK
3946109	Moulding, set, LX4500	3501092	Users guide, S
3946110	Moulding, set, LX5500	3501093	Users guide, SF
3503558	Setting up guide, DK	3501094	Users guide, GB
3503559	Setting up guide, S	3501095	Users guide, D
3503566	Setting up guide, SF	3501096	Users guide, NL
3503567	Setting up guide, GB	3501097	Users guide, F
3503568	Setting up guide, D	3501102	Users guide for Videosystem, F
3503569	Setting up guide, NL	3501098	Users guide, E
3503570	Setting up guide, F	3501099	Users guide, I
3503573	Setting up guide for Videosystem, F		

LX5500, White Line

9003	3414215	Front frame	9024	2569243	Profile, side
9019	2569209	Profile, top	9029	3414845	Rear cover
9020	3152750	Holder, top	9030	2569243	Profile, side
9021	3414149	Cabinet	9031	3152752	Holder, right
9022	3152751	Holder, left			

Other parts like cabinet for Beovision LX5500

LX4500, White Line

9003	3414135	Front frame	9024	2569242	Profile, side
9019	2569210	Profile, top	9029	3414945	Rear cover
9020	3152753	Holder, top	9030	2569242	Profile, side
9021	3414139	Cabinet	9031	3152755	Holder, right
9022	3152754	Holder, left			

Other parts like cabinet for Beovision LX5500

LX5500, Grey Line

9003	3414649	Front frame	9021	3414449	Cabinet
9006	3451138	Loudspeaker panel, right	9022	3152766	Holder, left
9008	3451139	Loudspeaker panel, left	9024	2569258	Profile, side
9019	2569259	Profile, top	9029	3414336	Rear cover
9020	3152768	Holder, top	9030	2569258	Profile, side
			9031	3152767	Holder, right

Other parts like cabinet for Beovision LX5500

LX4500, Grey Line

9003	3414549	Front frame	9021	3414349	Cabinet
9006	3451136	Loudspeaker panel, right	9022	3152769	Holder, left
9008	3451137	Loudspeaker panel, left	9024	2569248	Profile, side
9019	2569249	Profile, top	9029	3414436	Rear cover
9020	3152771	Holder, top	9030	2569248	Profile, side
			9031	3152770	Holder, right

Other parts like cabinet for Beovision LX5500

L5500

9003	3414176	Front frame	9019	2569211	Profile, top
9010	3430373	Loudspeaker cabinet, right	9021	3414603	Cabinet, rosewood
				3414601	Cabinet, teak
				3414613	Cabinet, grey metal
9016	8480215	Bass speaker	9024	2568935	Profile, side
			9030	2568935	Profile, side

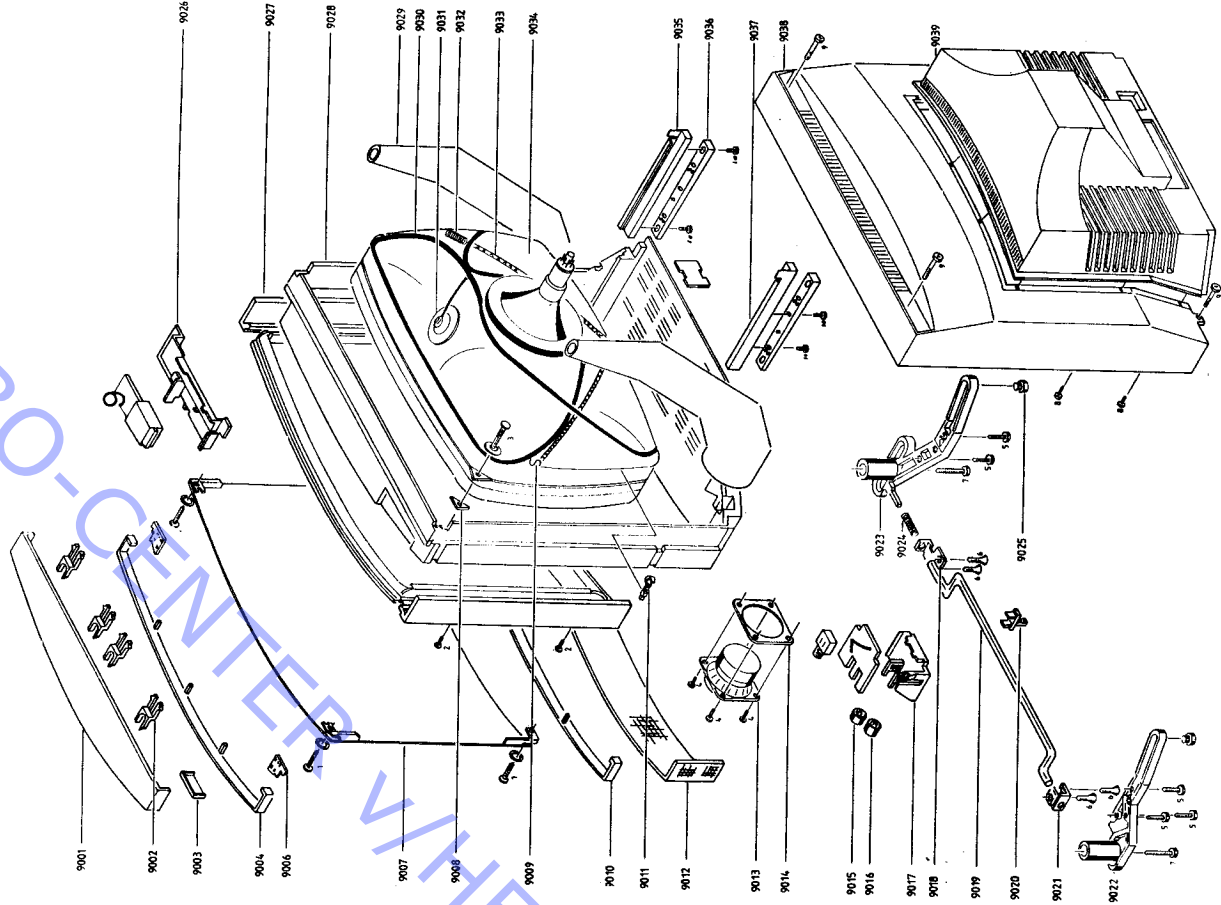
Other parts like cabinet for Beovision LX5500

L4500

9003	3414196	Front frame	9019	2569212	Profile, top
9010	3430376	Loudspeaker cabinet, right	9021	3414303	Cabinet, rosewood
				3414301	Cabinet, teak
				3414313	Cabinet, grey metal
9016	8480205	Bass speaker	9024	2568956	Profile, side
			9030	2568956	Profile, side

Other parts like cabinet for Beovision LX5500

LIST OF MECHANICAL PARTS
MX5500



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**Cabinet
MX5500**

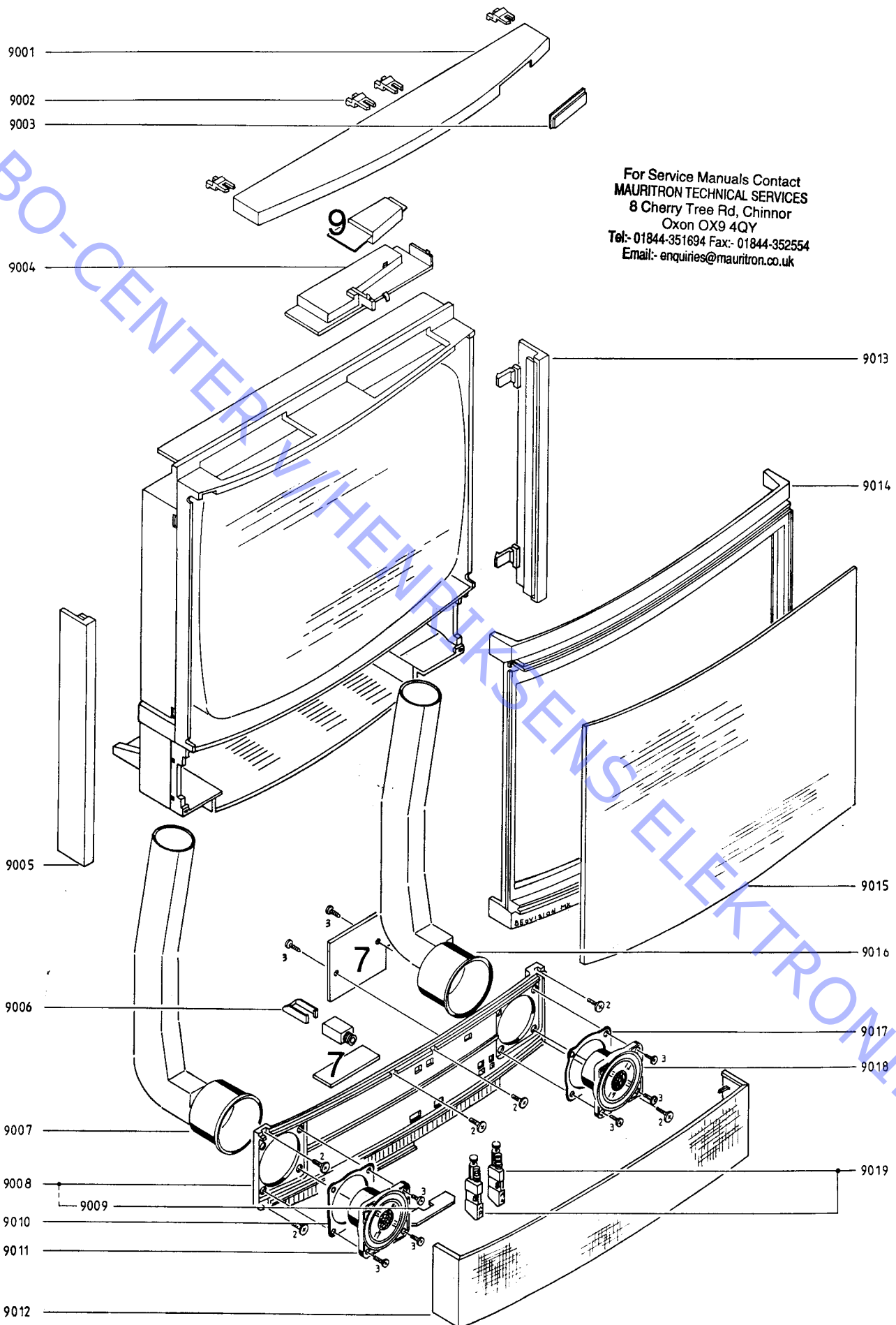
9001	3450691	Lid	9026	3131329	Holder	
9002	2391070	Hinge	9027	3320106	Front frame w/rubber string	
9003	3322092	Window		3950029	Rubber string	
9004	3450701	Cap		3320131	Chassis w/foot	
9006	3164687	Holder	9028	3946083	Tightning, side	
9007	3451039	Contrast screen		3946084	Tightning, top/bottom	
9008	2640053	Spacer		3103287	Foot	
9009	2510119	Clamp		6275990	Mains lead	
9010	3450925	Cap		6275989	Mains lead AUS	
9011	3152778	Holder		3132103	Loudspeaker damping tube	
9012	3450709	Loudspeaker panel		9029	8022222	Degaussing coil
9013	8480164	Loudspeaker	9029	9031	6270474	EHT cable
9014	3340074	Gasket		9032	2810189	Tension spring
9015	2776033	Press button - STEP	9030	9033	7510041	Ground current
9016	2776032	Press button - ●	9031	9034	8200065	Picture tube
9017	3152674	Holder	9032	9035	3152677	Guide rail, left
9018	3031175	Fitting f/tilting foot left	9033	9036	2576242	Spacer f/rail
			9034	9037	3152678	Guide rail, right
9019	3103238	Tilting foot	9035	9038	3414244	Back cover, red
9020	3152566	Holder f/tilting foot	9036		3414245	Back cover, white
9021	3031129	Fitting f/tilting foot right	9037		3414246	Back cover, black
			9038		3414248	Back cover, blue
9022	3031157	Fitting f/bottom right			3414249	Back cover, grey
					3430484	Back cover, small
			9039			

07modul 8007211 Headphone
7210386 Jack plug

Survey of screws and washers

1	2015129	Screw 3.5 x 12 w/washer	5	2019018	Screw 4 x 16
			6	2019015	Screw 4 x 14
2	2013123	Screw 3 x 10	7	2021003	Screw 5 x 35
3	2044048	Screw 5 x 25 w/washer	8	2019017	Screw 4 x 10
			9	2021010	Screw 5 x 25/11
4	2013106	Screw 2.9 x 16	10	2019018	Screw 4 x 16

LIST OF MECHANICAL PARTS MX3500

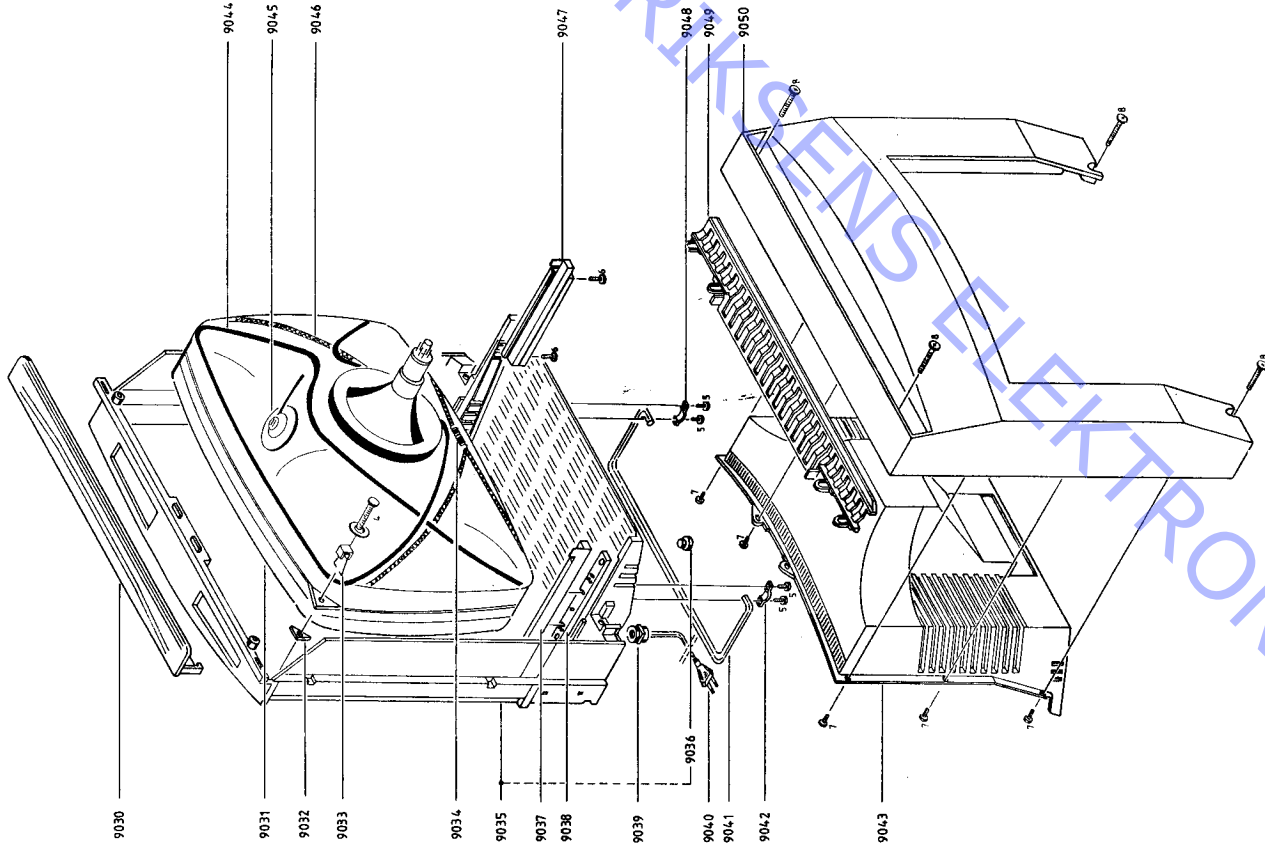


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ABO-CENTER / HEMERIKS ELEKTRONIK

Cabinet
MX3500

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9001	3164644	Lid	9032	2640053	Spacer
9002	2391070	Hinge	9033	2514066	Clamp
9003	3322082	Window	9034	2810189	Tension spring
9004	3131329	Holder	9035	3320133	Chassis
9005	3470193	Side plate	9036	3946094	Tightening rail
9006	3950028	Rubber string	9037	3035053	Rubber foot
9007	2510160	Clamp	9038	3152678	Guide rail, right
9008	3132113	Loudspeaker damping tube, left	9039	2576242	Spacer f/guide rail
9009	3440108	Loudspeaker baffle w/foot	9040	2641119	Bushing f/mains cable
9010	3103286	Foot	9040	6271102	Mains lead w/euro plug
9011	3340074	Gasket	6270297	6270297	Mains lead AUS
9012	8480164	Loudspeaker	9041	3103261	Fitting f/tilting foot
9013	3450704	Loudspeaker panel	9042	2641114	Fitting f/tilting foot
9014	3470193	Side plate	9043	3430483	Back cover, small
9015	3950028	Rubber string	9044	8022325	Degaussing coil
9016	3320135	Front frame	9045	6270474	EHT cable
9017	3950020	Rubber string	9046	7510035	Ground current
9018	3451100	Contrast screen	9047	3152577	Guide rail, left
9019	3132114	Loudspeaker damping tube, right	9048	2641114	Fitting f/tilting foot
9020	3340074	Gasket	9049	3444182	Grill
9021	8480164	Loudspeaker	9050	3414165	Back cover, red
9022	2776154	Press buttons, complete		3414166	Back cover, white
9023	2530537	Carrying handle		3414298	Back cover, black
9024	8200063	Picture tube		3414169	Back cover, grey

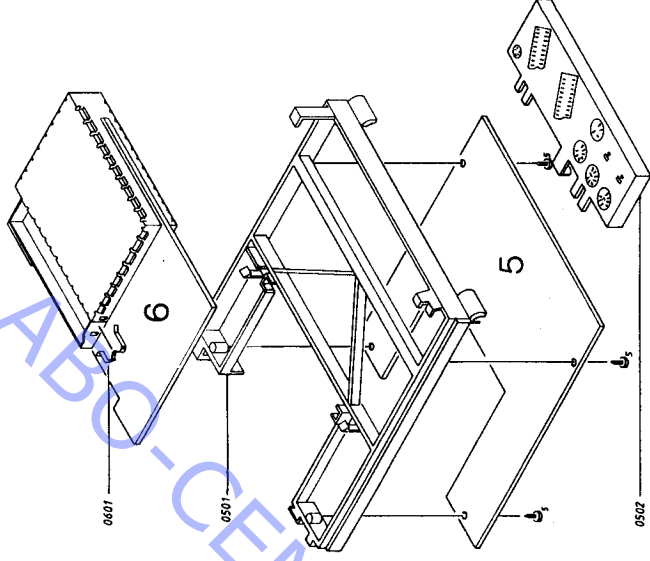
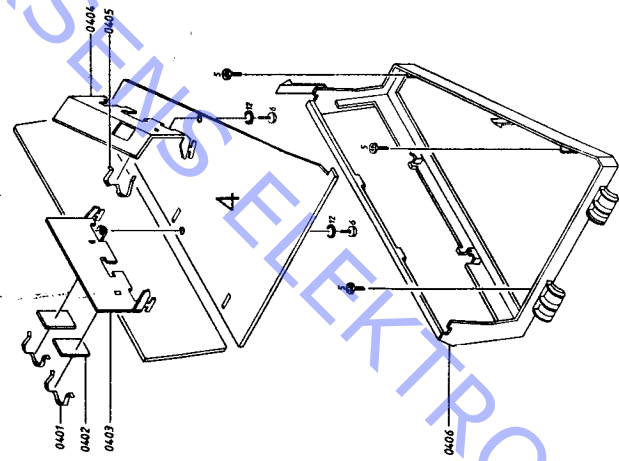
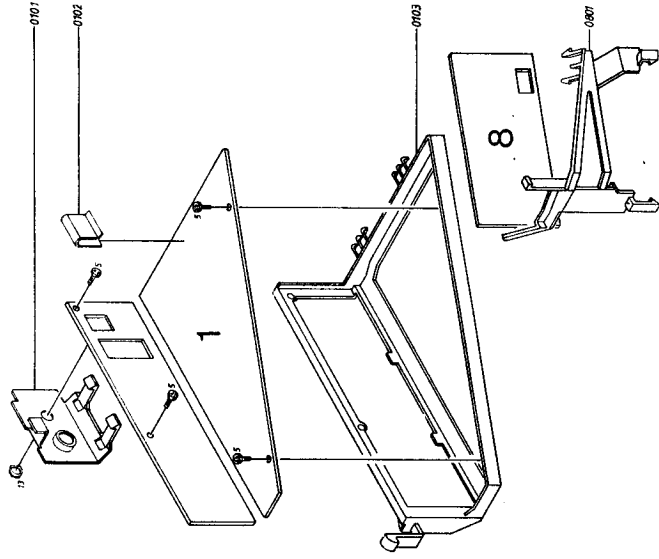
07	modul	8007213	Push button panel
		8007212	Headphone
		7210386	Jack plug

Survey of screws

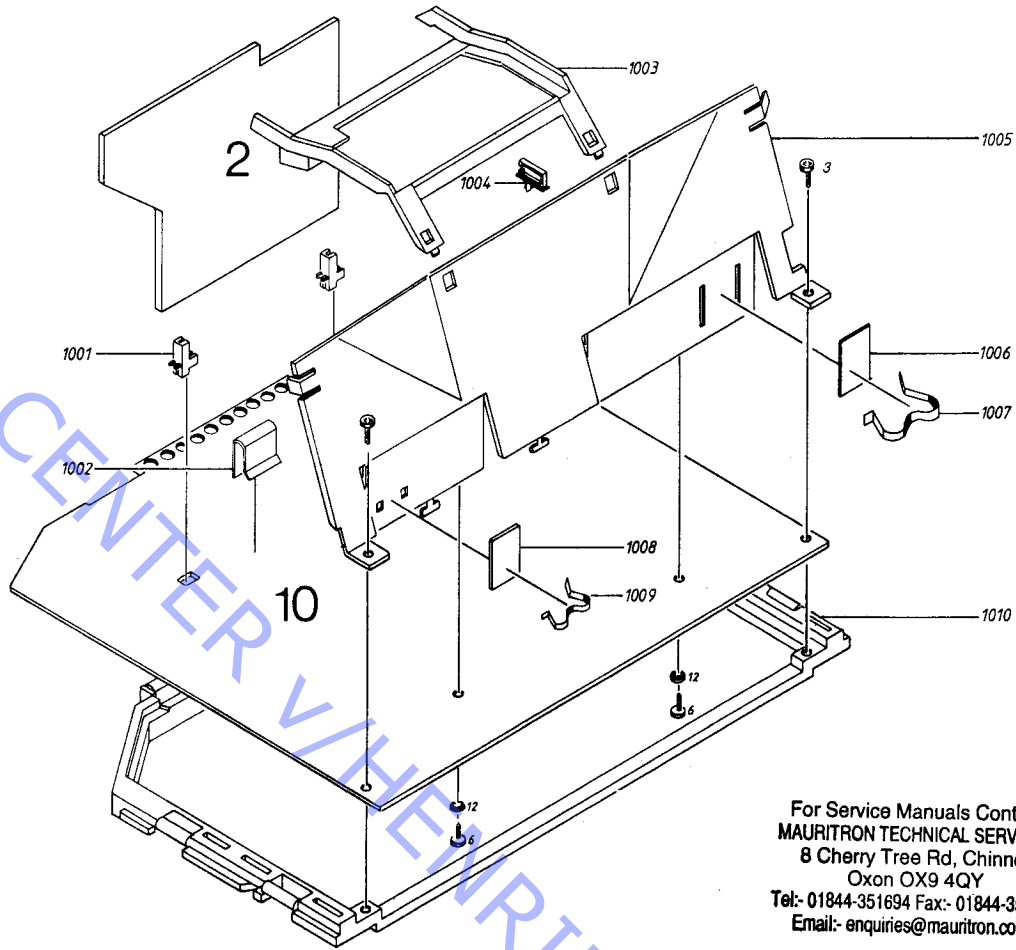
2	2019009	Screw 4 x 12
3	2013123	Screw 3 x 10
4	2044048	Screw 5 x 25 w/washer
5	2019009	Screw 4 x 12
6	2019018	Screw 4 x 16
7	2019010	Screw 4 x 8
8	2021009	Screw 5 x 25

Parts not shown

1301166	Back cover f/MX3500 with Beosat LM
3397557	Foam insert f/MX3500
3917104	Foam foil f/MX3500
3917105	Foam foil f/MX5500
3397620	Foam packing f/MX3500
3397637	Foam packing f/MX3500
3391983	Outer carton f/MX3500
3392015	Outer carton f/MX5500
3501103	Users guide, DK
3501104	Users guide, S
3501105	Users guide, SF
3501106	Users guide, GB
3501107	Users guide, D
3501108	Users guide, NL
3501109	Users guide, F
3501110	Users guide, I
3501111	Users guide, E
3501112	Users guide for Videosystem, F
3503593	Setting up guide f/MX3500, DK
3503583	Setting up guide f/MX5500, DK
3503584	Setting up guide f/MX3500, S
3503595	Setting up guide f/MX5500, SF
3503585	Setting up guide f/MX3500, SF
3503586	Setting up guide f/MX5500, GB
3503587	Setting up guide f/MX3500, GB
3503588	Setting up guide f/MX5500, D
3503589	Setting up guide f/MX3500, D
3503590	Setting up guide f/MX5500, NL
3503591	Setting up guide f/MX3500, NL
3503592	Setting up guide f/MX5500, F
3503593	Setting up guide f/MX3500, F
3503600	Setting up guide f/MX5500, I
3503601	Setting up guide f/MX3500, I
3503602	Setting up guide f/MX5500, E
3503603	Setting up guide f/MX3500, E
3503604	Setting up guide for Videosystem f/MX3500, F
3503605	Setting up guide for Videosystem f/MX5500, F



01 modul	8007048	MF B/GL
	8007052	MF I
0101	3451045	Front plate
0102	3358259	Heat sink
0103	3152673	Chassis
02 modul	8007050	PAL/SECAM/NTSC decoder
04 modul	8007034	Switch mode power supply
0401	2816260	Spring clip
0402	3170001	Mica washer
0403	3358263	Heat sink
0404	3358254	Heat sink
0405	2816238	Leaf spring
0406	3152672	Chassis
05 modul	8007040	Video and sound switching
0501	3152671	Chassis
0502	3168760	Aerial panel
06 modul	8007025	Teletext and up system
0601	2816195	Spring clip
	3302465	Shield, top
	3302466	Shield, bottom
08 modul	8007066	Nicam decoder
	8007071	Nicam I decoder
0801	3152676	Chassis



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10	modul8007134	Deflection and Still display
1001	3152612	Holder
1002	3358267	Heat sink
1003	3152670	Chassis
1004	3152561	Cable holder
1005	3358264	Heat sink
1006	3170169	Mica washer
1007	2816154	Spring clip
1008	3170001	Mica washer
1009	2816195	Spring clip
1010	3152675	Chassis

Survey of screws

3	2013123	Screw 3x10
5	2013118	Screw 3x8
6	2013208	Screw 2,9x9,5
12	2625002	Washer
13	2380143	Nut

Survey of wire bundles

1P1-10P16	6276014	5P57-10P29	6276036
1P3-5P55	6276015	5P56-10P30	6276016
1P4-5P54	6276015	5P59-6P70	6276018
1P2-10P15	6276017	6P72-10P26	6276038
1P8-8P801	6276127	6P71-10P27	6276039
1P5-1P6	6276020	7P87-10P23	6276041
	<i>only in products without NICAM</i>	7P88-10P22	6276040
1P7-8P803	6276037	9P91-10P21	6276021
2P39-5P51/52	6276016	10P20-deflection	6276042
2P38-5P53	6276022	10P20-deflection	6276007 <i>Only MX5500</i>
2P34-3P43	6276023	8P20-1P6	6276020
2P37-10P12	6276024	8P804-10P14	6276128
2P36-10P13	6276025	Focuscable	6270473
2P40-6P65	6276026	Holder	3152721
3P44-10P17	6276027	EHT-cable	6270474
4P79-6P73	6276028	Cable-loudspeaker	6100094
4P81-10P25	6276029	Cable-loudspeaker	6100214 <i>Only MX3500</i>
4P83-Net	6275990	Cable-loudspeaker	6100142 <i>Only MX5500</i>
4P82-10P24	6276030	Wire bundle for	
5P63-6P66	6276031	power failure	6276361
5P60-6P69	6276032	Main wire bundle	6275986
5P62-6P67	6276033	10P18-19-P1	6276208 <i>Only MX5500</i>
5P61-6P68	6276034	7P89-10P20	6276225 <i>Only MX3500</i>
5P58-10P28	6276035		

**Video stand,
1410613, LX55/4500
1410714, MX5500**

9111	3124124	Mounting plate, L/LX45/5500	9115	3454689	Frame, bottom piece
9112	3456188	Spacer	9116	3103298	Cover f/bottom
9113	3458498	Frame, top - L/LX45/5500, MX5500	9117	3451012	Profile
				3035063	Rubber foot
9114	2569039	Frame intermediate piece	9118	3124117	Mounting plate, MX5500
	3164831	Cover f. intermediate	9119	8053314	Revolving unit
			9120	3151279	Shelf, VX

Survey of Screws

3	2046031	Screw 6x25
4	2044058	Screw 5x10
5	2380130	Nut
6	2046023	Screw 6x8

Parts not shown

3390407	Bag with parts, L/LX45/5500
3390412	Bag with parts, MX5500
3397726	Foam packing
3392152	Packing
3504412	Assembling guide, L/LX45/5500
3504418	Assembling guide, MX5500

**Motorized Base,
1410111, LX45/5500
1410211, MX5500**

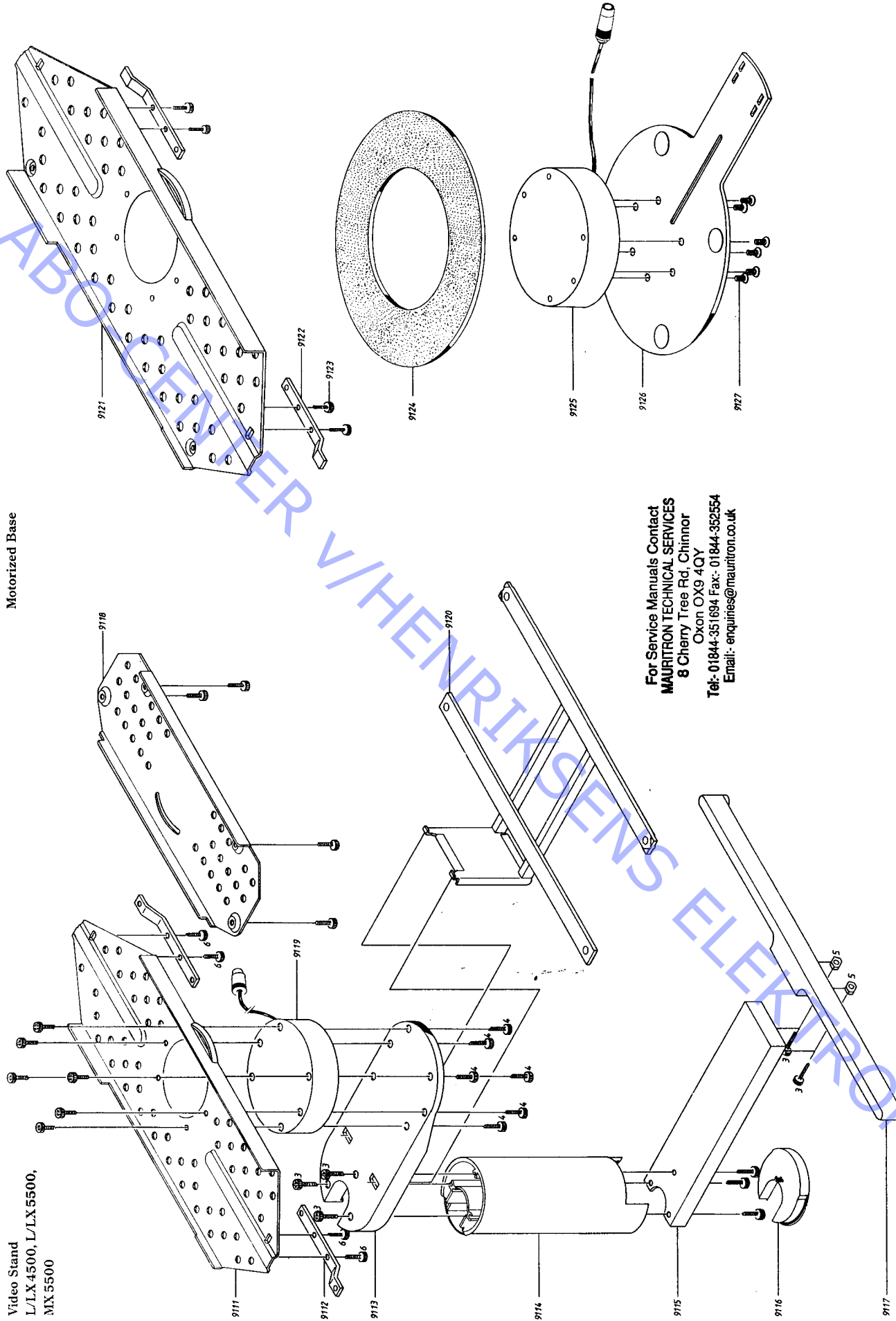
9121	3124124	Mounting plate, L/LX45/5500	9123	2046023	Screw 6x8
	3124117	Mounting plate, MX5500	9124	3458735	Topplate
	3124122	Mounting plate, MX3500	9125	8053314	Revolving unit
			9126	2752026	Bottom plate
				3103285	Plastic foot
9122	3456185	Spacer	9127	2044032	Screw 5x10

Parts not shown

3390404	Bag with parts, L/LX45/5500
3390405	Bag with parts, MX5500
3390406	Bag with parts, MX3500
3392150	Packing, L/LX45/5500
3392151	Packing, MX35/5500
3397724	Foam packing, L/LX45/5500
3397725	Foam packing, MX35/5500
3504413	Assembling guide, L/LX45/5500
3504419	Assembling guide, MX5500
3504420	Assembling guide, MX3500

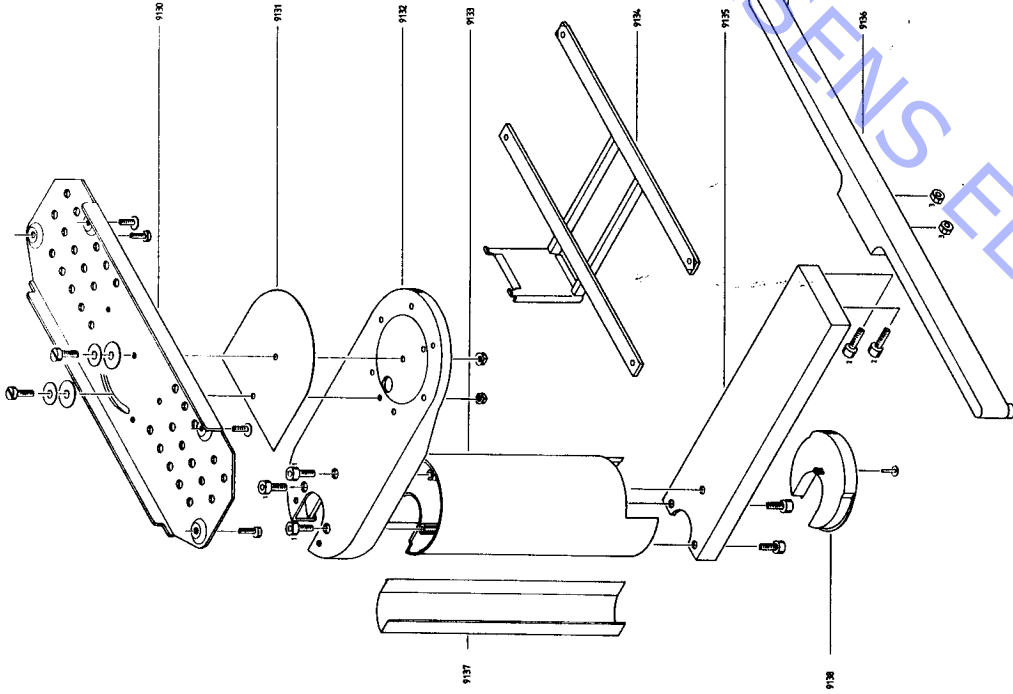
Video Stand
L/LX 4500, L/LX 5500,
MX 5500

Motorized Base



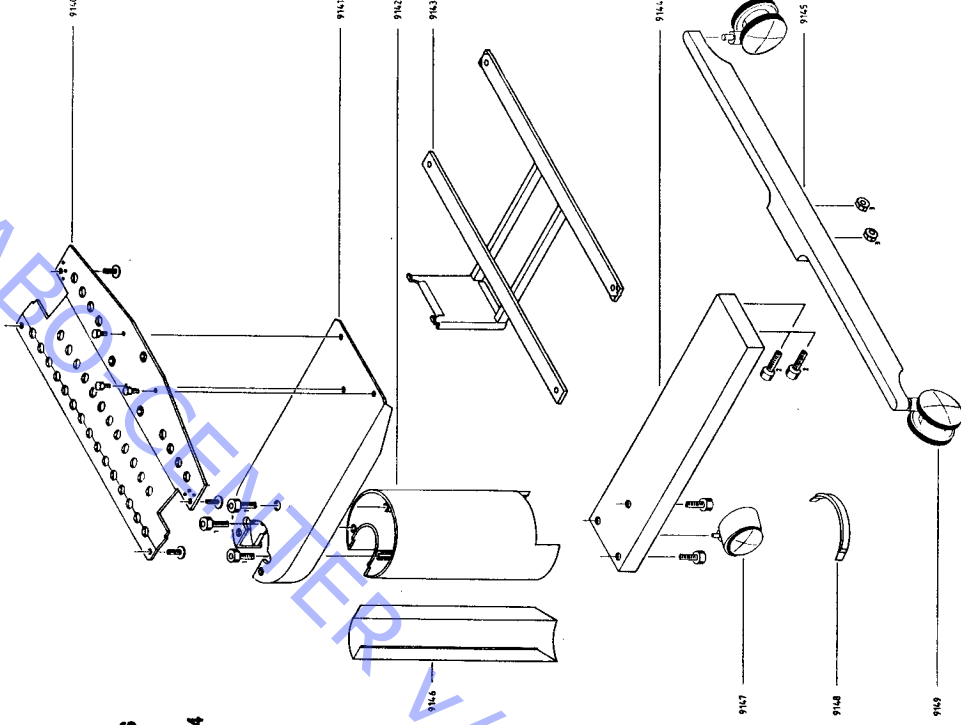
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TV/Video Stand
MX 5500



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TV/Video Stand
MX 3500



Video Stand, 1411013, MX 3500
Shelf 1411366, VX 5000

9130	3124117	Mounting plate	9135	3454689	Frame, bottom
9131	3915044	Gasket	9136	3451012	Profile
9132	3458498	Frame, top	9137	3035063	Rubber foot
9133	2569039	Frame intermediate piece	9138	3164831	Cover f/interm.
9134	3151279	Shelf, VX	9138	3103298	Cover f/bottom

Survey of Screws

1	2046017	Screw 6x16 mm
2	2046031	Screw 6x25 mm
3	2380130	Nut

Parts not shown

3390415	Bag w/parts
3392152	Packing
3397726	Foam packing
3504414	Assembling guide

9140	3124122	Mounting plate	9145	3451079	Profile
9141	3458756	Frame, top	9146	3164857	Cover f/interm.
9142	2569241	Frame intermediate piece	9147	3032022	Wheel
9143	3151279	Shelf, VX	9148	3456187	Cover f/bottom
9144	3454699	Frame, bottom	9149	3032019	Wheel

Survey of Screws

1	2046017	Screw 6x16 mm
2	2044060	Screw 5x25 mm
3	2380141	Nut

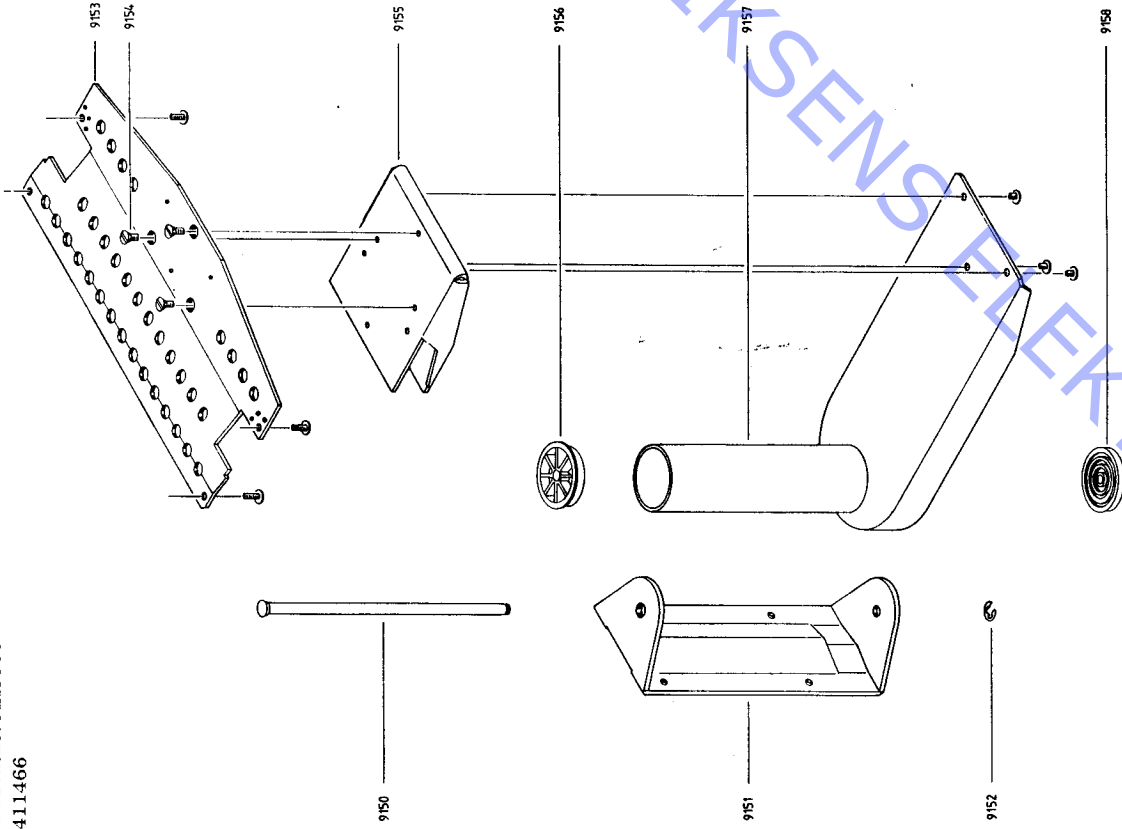
Parts not shown

3390418	Bag w/parts
3392169	Packing
3397748	Foam packing
3504415	Assembling guide

Bang & Olufsen

Wall Bracket MX3500
1411466

4-12

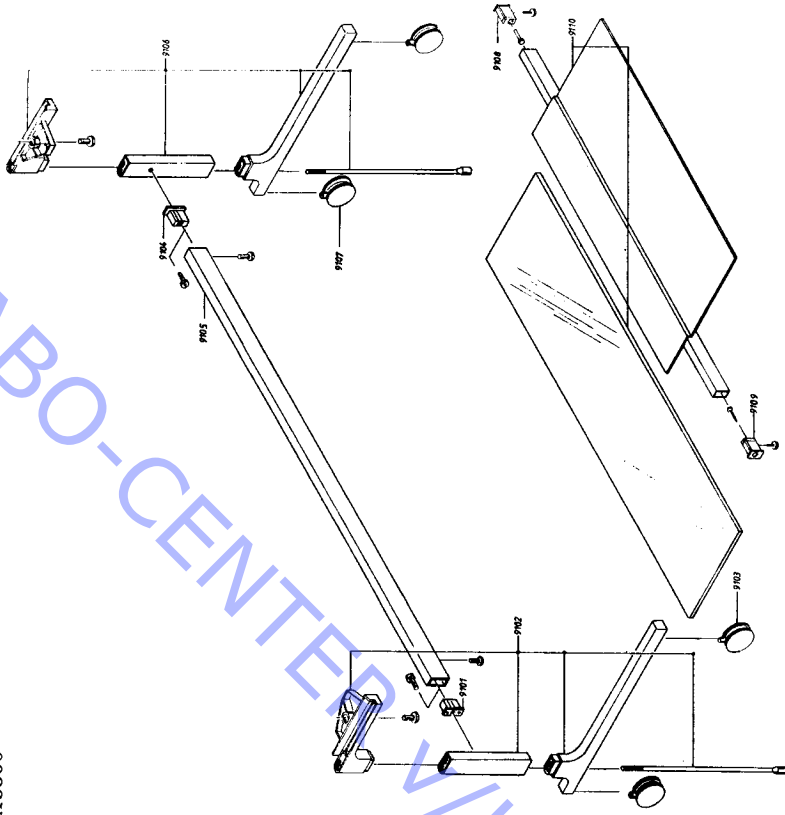


Parts not shown

- 3390416 Bag w/parts
- 3392173 Packing
- 3397749 Foampacking
- 3504430 Assembling guide

4-12

TV-stand L/LX4500,
L/LX5500



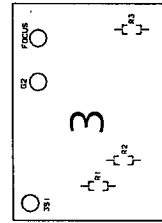
TV-stand 1410865, White
1410866, Black
Shelf LX 5500 1411113, Grey
Shelf LX 4500 1411213, Grey

Parts not shown

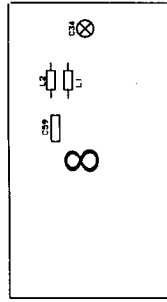
- 3152531 Holder
- 3103301 Post, left, black
- 3103307 Post, left, white
- 3032019 Wheel, black
- 3032018 Wheel, white
- 3152531 Holder
- 2576196 Travers L/LX5500, black
- 2576197 Travers L/LX5500, white
- 2576198 Travers L/LX4500, black
- 2576199 Travers L/LX4500, white
- 3103300 Post, right, black
- 3103308 Post, right, white
- 3032019 Wheel, black
- 3032018 Wheel, white
- 3152748 Holder, right
- 3152749 Holder, left
- 3151289 Holder, VX, L/LX4500
- 3151288 Holder, VX, L/LX4500

4-12

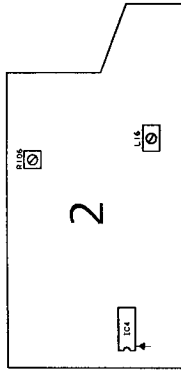
- 3390409 Bag with parts, VX
- 3397712 Foam packing, VX
- 3453411 Assembling guide, VX
- 3391963 Packing, TV-stand
- 3397564 Foam packing, TV-stand
- 3390273 Bag with parts, TV-stand



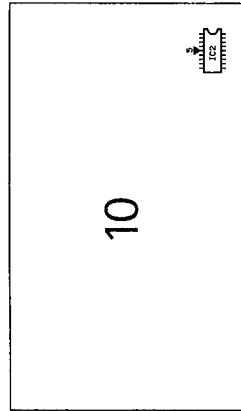
3



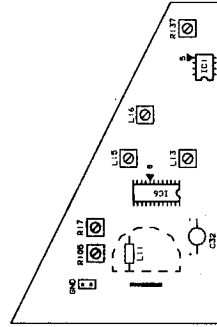
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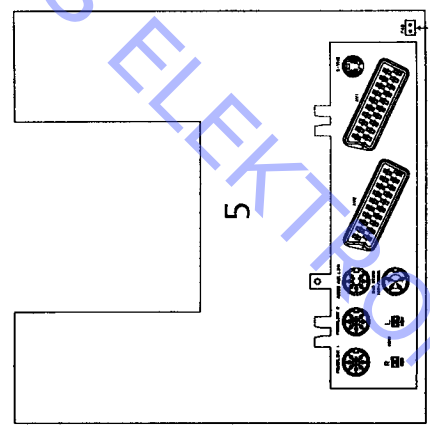
2



10



5



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 8 Cherry Tree Rd, Chinnor
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SERVICEJUSTERINGER MED BEOLINK 1000

Service mode

- Bring Beovision 3500, 4500 og 5500 i forskellige 'service modes':
- fjern bagparten
 - tast /TV/
 - kortslut SERVICEMODE-stikket P48 på PCB5 kortvarigt

Service mode menuen giver mulighed for:

Type serial No.

Viser fjernsynets type- og serienummer.

Picture setup

Giver mulighed for følgende billedjusteringer:

- RED DRIVE
- GREEN DRIVE
- RED CUT-OFF BALANCE
- GREEN CUT-OFF BALANCE
- BRIGHTNESS PRESET
- SATURATION PRESET

Geometry

Giver mulighed for følgende geometrijusteringer:

- HORIZONTAL FREQUENCY
- HORIZONTAL PHASE
- HORIZONTAL AMPLITUDE
- E/W PARABOLA
- E/W TILT
- E/W CORNER
- VERTICAL AMPLITUDE
- VERTICAL LINEARITY
- VERTICAL S-CORRECTION
- VERTICAL CENTERING

TV variant

Oplyser om fjernsynets 'hardware'-variant: B/G/L, I eller B/G/M.

OBS! 'Hardware' ændres *ikke* ved at ændre i menuen.

Error message

Giver mulighed for at udlæse en evt. fejlmeddelelse (se reparationstips).

Reset

Indstil lys, farvemætning og kontrast til nominelle værdier:

- BRILLIANCE 32
- COLOUR 32
- CONTRAST 44

Gem værdierne i modtageren, **PICTURE STORE** [STORE] så de kan kaldes tilbage ved at taste **RESET**.

SERVICE ADJUSTMENTS PERFORMED WITH BEOLINK 1000

Service Mode

- To bring Beovisions 3500, 4500 and 5500 into various 'service modes':
- remove the rear panel
 - press /TV/
 - short-circuit the SERVICE MODE plug, P48, on PCB5 briefly

The Service Mode menu gives access to:

Type Serial No

-Shows the type and serial number of the TV.

Picture Setup

Gives access to the following picture adjustments:

- RED DRIVE
- GREEN DRIVE
- RED CUT-OFF BALANCE
- GREEN CUT-OFF BALANCE
- BRIGHTNESS PRESET
- SATURATION PRESET

Geometry

Gives access to the following geometry adjustments:

- HORIZONTAL FREQUENCY
- HORIZONTAL PHASE
- HORIZONTAL AMPLITUDE
- E/W PARABOLA
- E/W TILT
- E/W CORNER
- VERTICAL AMPLITUDE
- VERTICAL LINEARITY
- VERTICAL S-CORRECTION
- VERTICAL CENTERING

TV Variant

Informs about the hardware variant of the TV: B/G/L, I or B/G/M.

NOTE! The hardware is *not* modified by modifying this menu.

Error Message

Allows the display of any error message (see repair tips).

Reset

Set brilliance, colour saturation and contrast to nominal values:

- BRILLIANCE 32
- COLOUR 32
- CONTRAST 44

Store the values in the receiver, **PICTURE STORE** [STORE] such that they can be reset by pressing **RESET**.

BETJENING I SERVICE MODE

<input type="button" value="PLAY"/>	Godkend menu/værdi
<input type="button" value="◀"/>	Step i menu
<input type="button" value="▶"/>	Ændring af værdi
<input type="button" value="STOP"/>	Tilbage

Der anvendes normalt farvetestbillede til de efterfølgende justeringer.

Preset

Preset-justering (referenceniveau) af lys og farvemætning.

- Indstil lys og farvemætning til nominelle værdier
- Sæt modtageren i SERVICEMODE
- Vælg PICTURE SETUP menuen

Juster lys (BRI PRE) til korrekt lysindhold i billedet (typisk 3).

Juster farvemætning (SAT PRE) til korrekt farvemætning (typisk 4).

Cut-off balance

- Indstil lys til nominal værdi
- Indstil farvemætning til '0'
- Vælg PICTURE SETUP menuen i SERVICE-MODE.

Juster rød og grøn cut-off balance (RED BAL og GRN BAL) så de mørke felter i testbilledet er farveløse.

Drive

- Indstil lys til nominal værdi,
- Indstil farvemætning til '0'
- Vælg PICTURE SETUP menuen i SERVICE-MODE

Juster rød og grøn drive (RED DRV og GRN DRV) til korrekt hvidpunkt.

HORISONTAL AFBØJNING

Hor. frekvens

- Læg 10IC2, ben 5 til stel
- Vælg GEOMETRY menuen i SERVICEMODE

Juster hor. frekvens (H FREQ) til langsomst horisontalt billedrul.

Fjern kortslutning

Øst/Vest parabel

- Vælg GEOMETRY menuen i SERVICEMODE
- Vælg EW PAR og juster

Øst/Vest 'tilt'

- Vælg GEOMETRY menuen i SERVICEMODE
- Vælg EW TILT og juster (V CENT påvirkes)

OPERATION IN SERVICE MODE

<input type="button" value="PLAY"/>	Approve menu/value
<input type="button" value="◀"/>	Step in menu
<input type="button" value="▶"/>	Value modification
<input type="button" value="STOP"/>	Return

An ordinary colour test picture is used in the following adjustments.

Preset

Preset adjustment (reference level) of brilliance and colour saturation.

- Set brilliance and colour saturation to nominal values .
- Bring the receiver into SERVICE MODE
- Select PICTURE SETUP in the menu

Adjust the brilliance (BRI PRE) until the proper brilliance in the picture is achieved (typically 3).

Adjust the colour saturation (SAT PRE) until the proper colour saturation is achieved (typically 4).

Cut-off balance

- Set the brilliance to the nominal value,
- Set the colour saturation to "0"
- Select the PICTURE SETUP menu in SERVICE MODE.

Adjust the red and green cut-off balance (RED BAL and GRN BAL) such that the dark fields in the test picture are without colour.

Drive

- Set the brilliance to the nominal value,
- Set the colour saturation to "0"
- Select the PICTURE SETUP menu in SERVICE MODE.

Adjust the red and green drive (RED DRV and GRN DRV) until the proper white level is achieved.

HORIZONTAL DEFLECTION

Horizontal frequency

- Connect 10IC2, pin 5, to chassis
- Select the GEOMETRY menu in SERVICE MODE

Adjust the horizontal frequency (H FREQ) to the slowest possible horizontal picture roll.

Remove the short circuit.

East/West parabola

- Select the GEOMETRY menu in SERVICE MODE
- Select EW PAR and adjust

East/West tilt

- Select the GEOMETRY menu in SERVICE MODE
- Select EW TILT and adjust (V CENT is affected)

Øst/Vest 'corner'

- Vælg GEOMETRY i SERVICEMODE
- Vælg EW COR og juster til korrekt geometri i hjørner

Hor. amplitude

- Vælg GEOMETRY i SERVICEMODE
- Vælg H AMPL og juster

Hor. centrering/'Phase'

- Vælg GEOMETRY i SERVICEMODE
- Vælg H AMPL og juster til minimum bredde (63)
- Centrér billedet bedst muligt med 3S1
- Vælg H PHASE og centrér billedet så det ligger indenfor 'scan'-tiden
- Indstil lys (BRILLIANCE) til maksimum på billedskærmen
- Vælg H AMPL og juster bredden korrekt
- Vælg H PHASE og efterjuster

VERTIKAL AFBØJNING**Vert. amplitude**

- Vælg GEOMETRY menuen i SERVICEMODE
- Vælg V AMPL og juster

Vert. linearitet

- Vælg GEOMETRY menuen i SERVICEMODE
- Vælg V LIN og juster

Vert. S-korrektion

- Vælg GEOMETRY menuen i SERVICEMODE
- Vælg V S-KOR og juster (EW COR påvirkes)

Vert. centrering

- Vælg GEOMETRY menuen i SERVICEMODE
- Vælg V CENT og juster (EW TILT påvirkes)

Gentag evt. justeringsproceduren

East/West corner

- Select GEOMETRY in SERVICE MODE
- Select EW COR and adjust to proper geometry in corners

Horizontal amplitude

- Select GEOMETRY in SERVICE MODE
- Select H AMPL and adjust

Horizontal centring/Phase

- Select GEOMETRY in SERVICE MODE
- Select H AMPL and adjust to minimum width (63)
- Centre the picture optimally by means of 3S1
- Select H PHASE and centre the picture such that it is within the scan period
- Set BRILLIANCE to maximum on the picture screen
- Select H AMPL and adjust the width properly
- Select H PHASE and readjust

VERTICAL DEFLECTION**Vertical amplitude**

- Select the GEOMETRY menu in SERVICE MODE
- Select V AMPL and adjust

Vertical linearity

- Select the GEOMETRY menu in SERVICE MODE
- Select V LIN and adjust

Vertical S-correction

- Select the GEOMETRY menu in SERVICE MODE
- Select V S-KOR and adjust (EW COR is affected)

Vertical centring

- Select the GEOMETRY menu in SERVICE MODE
- Select V CENT and adjust (EW TILT is affected)

Repeat the adjustment procedure if required.

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JUSTERINGSVEJLEDNING

Under de følgende justeringer skal modtageren være tilsluttet et normalt farvetestbillede, hvis ikke andet er nævnt.

Servicejusteringer med terminal skal være foretaget.

Modul 2 PAL/SECAM/NTSC**Fokus**

- Indstil lys og farvemætning til nominelle værdier,

RESET

- Indstil kontrast til maksimum

Juster til optimal fokusering set ca. 10 cm fra skærmkanten, med fokuspotentiometeret på modul 3.

4,43 MHz cromasug

- Tilslut et PAL testbillede (farvebar)
- Slut oscilloskop til 2IC4, ben 1, koordinat 4C

Juster til minimum 4,43 MHz-rest på signalet, vha. 2L16 - 4,43 MHz, koordinat 2D.

'Phase'

- Tilslut et PAL testbillede (farvebar)
- Slut oscilloskop til 2IC4, ben 1, koordinat 4c. Indstil X-afbøjningen på 10µs/div., så der ses både lige og ulige horisontale linier)

Juster til bedst muligt sammenfald i farvebaren, med 2R106 - Phase, koordinat 3A.

Cut-off

- Indstil lys til nominal værdi, **RESET**
- Tast **PICTURE** **MUTE**

Mål med et DC-voltmeter (Ri >1MΩ) spændingsfaldet over 3R1, 3R2 og 3R3.

Juster med G2-potentiometeret (modul 3), indtil der er 20V over den af 3R1, 3R2 eller 3R3, der har det mindste spændingsfald.

Tast **PICTURE** **MUTE** efter justeringen.

Modul 1 TUNER IF B/G/L**AFC**

- Slut oscilloskop til indgangen på 1BP1, koordinat 1B (x = 1µs).
- Tilslut antennesignal med lyd (AFC = 0 i tuningsmenu)

Juster med 1L16, koordinat 2B indtil top og bund af signalet er så parallelle som muligt.

ADJUSTMENT INSTRUCTIONS

During the following adjustments the receiver must be connected to an ordinary colour test picture unless otherwise specified.

Service adjustments carried out by means of the terminal must have been executed.

Module 2, PAL/SECAM/NTSC**Focus**

- Set brilliance and colour saturation to nominal values, **RESET**
- Set contrast to maximum

Adjust for optimal focusing when viewed approx. 10 cm from the edge of the screen with the focus potentiometer on module 3.

4.43 MHz chroma separation filter

- Connect the receiver to a PAL test picture (colour bar)
- Connect oscilloscope to 2IC4, pin 1, coordinate 4C

Adjust to a minimum of 4.43 MHz residue on the signal by means of 2L16 - 4.43 MHz, coordinate 2D.

Phase

- Connect the receiver to a PAL test picture (colour bar)
- Connect oscilloscope to 2IC4, pin 1, coordinate 4c.
- Set the X deflection to 10µs/div., such that both even and uneven horizontal lines can be seen)

Adjust to the best possible convergence in the colour bar by means of 2R106 - Phase, coordinate 3A.

Cut-off

- Set brilliance to nominal value, **RESET**
- Press **PICTURE** **MUTE**

Measure the voltage drop across 3R1, 3R2 and 3R3 by means of a DC voltmeter (R: >1MΩ). Adjust by means of the G2 potentiometer (module 3) until there is a voltage of 20V across that resistor (3R1, 3R2 or 3R3) which has the smallest voltage drop.

Press **PICTURE** **MUTE** after the adjustment has been executed.

Module 1, TUNER IF B/G/L**AFC**

- Connect oscilloscope to the input of 1BP1, coordinate 1B (x = 1µs).
- Connect aerial signal with sound (AFC = 0 in tuning menu).

Adjust by means of 1L16, coordinate 2B, until the top and bottom of the signal are as parallel as possible.

Sound carrier 33,4 MHz

Justeres kun hvis 1IC6 TDA8120 udskiftes.

- Slut oscilloskop til indgangen på 1BP1, koordinat 1B (x = 1µs)

Juster med 1L13, koordinat 2C indtil top og bund af signalet er så parallelle som muligt.

Video carrier 38,9 MHz

Justeres kun hvis 1IC6 TDA8120 udskiftes.

- Slut oscilloskop til 1IC6, ben 8, koordinat 2C.

Juster med 1L15, koordinat 3C, indtil for- og bagreces på liniesynkspulsen er så vandret som muligt.

Stop tuning

Justeres kun hvis 1IC1, koordinat 2A udskiftes

- Fjern antennesignalet fra tunerens
- Slut en frekvenstæller til 1IC1, ben 5 (2A)

Juster med 1R137, koordinat 2A til 15625 Hz.

AGC System B/G/L

- Tilslut et UHF antennesignal (B/G) på 2 mV
- Juster signalet ind XXX
- Slut oscilloskop til 1L11, koordinat 3D

Drej til maksimal udstyring med 1R105 (3D). Juster herefter HF-signalet til -3dB i forhold til max. udstyring.

- Tilslut et UHF antennesignal (system L) på 2mV
- Juster signalet ind XXX
- Slut oscilloskop til 1L11, koordinat 3D

Drej til maksimal udstyring med 1R17 (3D). Juster herefter HF-signalet til -3dB i forhold til max. udstyring.

Alternativ AGC-justering, system B/G/L

- Tilslut et antennesignal (B/G) via variabel attenuator
- Juster signalet ind XXX
- Slut et DC-voltmeter til 1C32, koordinat 2D
- Drej 1R105 med uret til anslag
- Juster den variable attenuator, indtil billedet netop er støjfrit

Juster med 1R105 (3D) indtil AGC-spændingen på 1C32 netop ændrer sig.

Sound carrier 33.4 MHz

Only to be adjusted if 1IC6 TDA8120 is replaced.

- Connect oscilloscope to the input of 1BP1, coordinate 1B (x = 1µs).

Adjust by means of 1L13, coordinate 2C, until the top and bottom of the signal are as parallel as possible.

Video carrier 38.9 MHz

Only to be adjusted if 1IC6 TDA8120 is replaced.

- Connect oscilloscope to 1IC6, pin 8, coordinate 2C.

Adjust by means of 1L15, coordinate 3C, until the front and rear recesses on the line sync pulse are as horizontal as possible.

Stop tuning

Only to be adjusted if 1IC1, coordinate 2A, is replaced

- Disconnect the aerial signal from the tuner
- Connect a frequency counter to 1IC1, pin 5 (2A)

Adjust by means of 1R137, coordinate 2A, to 15625 Hz.

AGC System B/G/L

- Connect a 2 mV UHF aerial signal (B/G)
- Adjust the signal XXX
- Connect oscilloscope to 1L11, coordinate 3D

Turn to maximum deflection by means of 1R105 (3D). Then adjust the HF signal to -3dB compared to maximum deflection.

- Connect a 2mV UHF aerial signal (system L)
- Adjust the signal XXX
- Connect oscilloscope to 1L11, coordinate 3D

Turn to maximum deflection by means of 1R17 (3D). Then adjust the HF signal to -3dB compared to maximum deflection.

Alternative AGC adjustment, system B/G/L

- Connect an aerial signal (B/G) via a variable attenuator
- Adjust the signal XXX
- Connect a DC voltmeter to 1C32, coordinate 2D
- Turn 1R105 clockwise to maximum
- Adjust the variable attenuator until the picture is just free of noise

Adjust by means of 1R105 (3D) until the AGC voltage at 1C32 just changes.

- Tilslut et antennesignal (L) via variabel attenuator
- Juster signalet ind $\overline{\text{GOTO}}$ XXX
- Slut et DC-voltmeter til 1C32, koordinat 2D
- Drej 1R17 med uret til anslag
- Juster den variable attenuator til billedet netop er støjfrit

Juster med 1R17 (3D) indtil AGC-spændingen på 1C32 netop ændrer sig.

Kanaladskillelse

Anvend en CTV servicegenerator, der kan levere A2 stereo lydmodulation, til denne justering.

- Slut oscilloskop til 1IC7, ben 12, koordinat 1C.

Juster med 1R93 (1C) til minimal overhøring.

NICAM system B/G og I

- Tilslut et NICAM antennesignal B/G eller I.
- Slut oscilloskop, der kan lave x-y afbøjning, til 8L1 og 8L2, koordinat 1A, på den side der vender mod 8C59, koordinat 1A.

Juster med 8C34, koordinat 1B (VCO-frekvensen 5,85 MHz for system B/G eller 6,552 MHz for system I). Juster indtil oscilloskopbilledet herunder er opnået.

- Connect an aerial signal (L) via a variable attenuator
- Adjust the signal $\overline{\text{GOTO}}$ XXX
- Connect a DC voltmeter to 1C32, coordinate D2
- Turn 1R17 clockwise to maximum
- Adjust the variable attenuator until the picture is just free of noise

Adjust by means of 1R17 (3D) until the AGC voltage at 1C32 just changes.

Channel separation

Use a CTV service generator capable of supplying A2 stereo sound modulation for this adjustment.

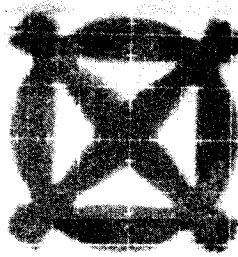
- Connect oscilloscope to 1IC7, pin 12, coordinate 1C.

Adjust by means of 1R93 (1C) to minimum cross-talk.

NICAM system B/G and I

- Connect a NICAM aerial signal, B/G or I.
- Connect an oscilloscope capable of performing x-y deflection to 8L1 and 8L2, coordinate 1A, on the side facing towards 8C59, coordinate 1A.

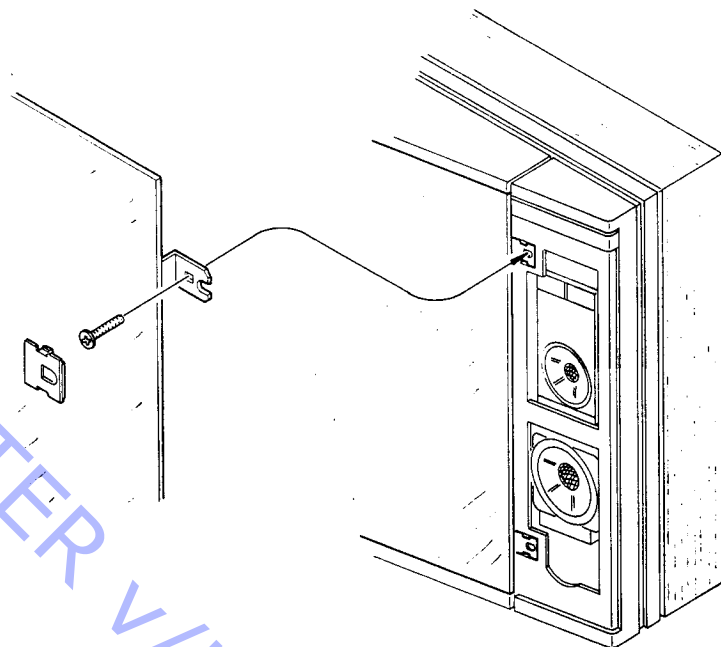
Adjust by means of 8C34, coordinate 1B, (VCO frequency 5.85 MHz for system B/G or 6.552 MHz for system I). Adjust until the oscilloscope picture shown below has been achieved.



x = y = 0,2 V/DIV

ADSKILLELSE
LX4500/5500

DISASSEMBLY
LX4500/5500



Kontrastskærm

Rammen med højttalerstof fjernes ved først at trække forsigtigt ud for neden, dernæst i midten og til sidst foroven.

De fire dæksler, to i hver side, aftages med en lille flad skruetrækker.

Skrueerne som holder skærmen er nu tilgængelige.

Afmonter de to nederste skruer og *kun* en foroven.

Hold godt fast på skærmen medens den sidste skrue fjernes.

Contrast screen

Remove frame with loudspeaker cloth by first pulling carefully from the bottom, then in the middle and finally from the top.

Remove the four caps, two in each side, using a small flat screw driver.

The screws which hold the screen are now accessible.

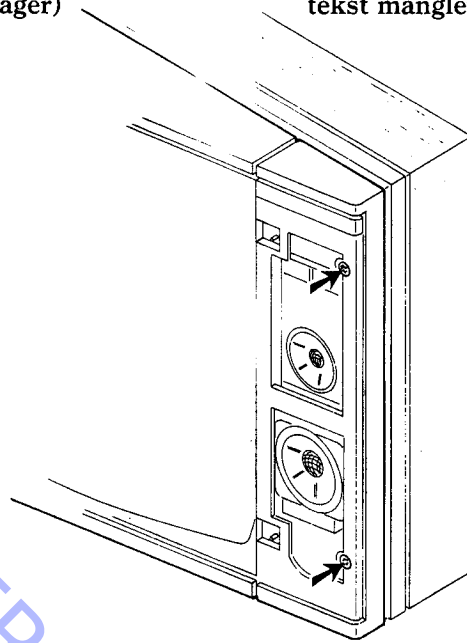
Remove the two bottom screws and *one* from the top.

Hold tightly on to the screen while removing the last screw.

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Frontramme
(Adgang til IR sender/modtager)

Front frame
tekst mangler



Kontrastskærmen afmonteres.

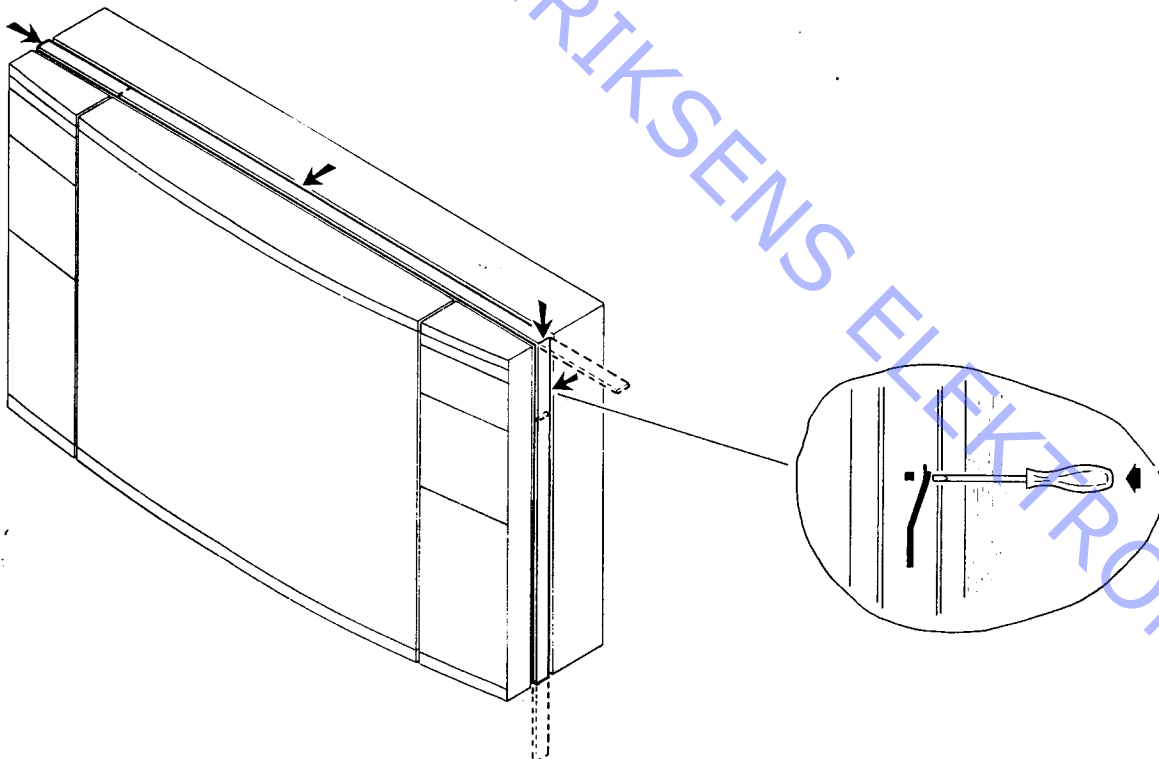
Remove the contrast screen.

De to viste skruer og de to tilsvarende i den anden side skrues af, og frontrammen kan aftages.

Unscrew the two screws illustrated as well the two corresponding screws in the other side, and take of the front frame.

Topliste/Sideliste

Top list/Side list



Sidelisterne løsnes ved at udløse låsen med en smal skruetrækker.

Loosen side lists by releasing lock using a small screw driver.

Når låsen er udløst kan sidelisten skubbes ned.

Now the side list may be pushed down.

Toplisten løsnes som sidelisterne.

Loosen top list like the side lists.

Toplisten skubbes mod højre.

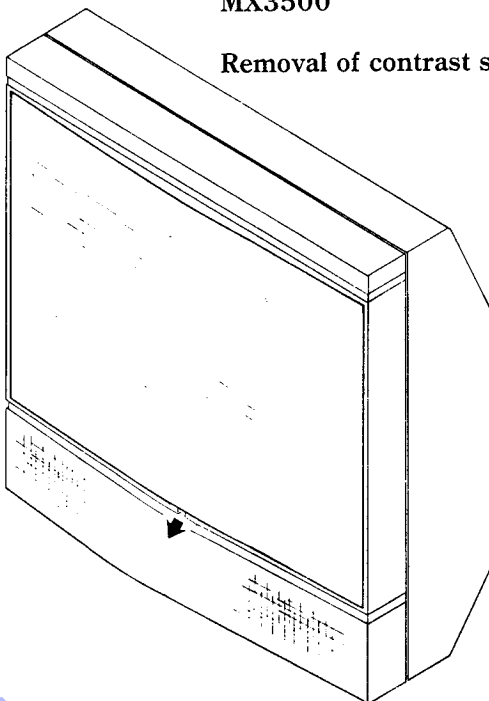
Push top list towards the right.

ADSKILLELSE
MX3500

DISASSEMBLY
MX3500

Demontering af kontrastskærmen

Removal of contrast screen



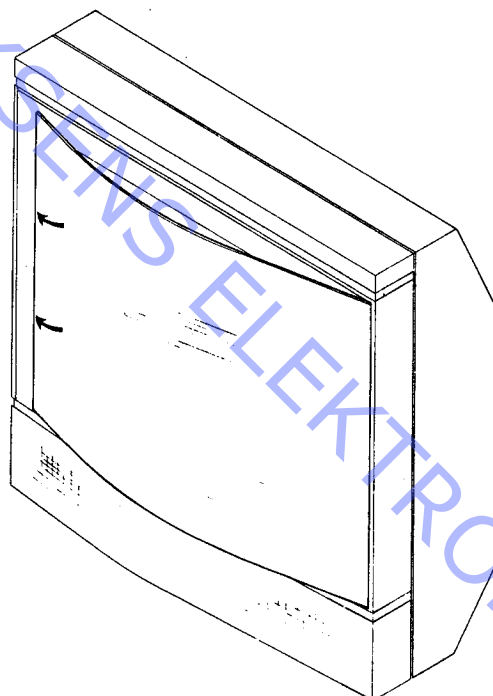
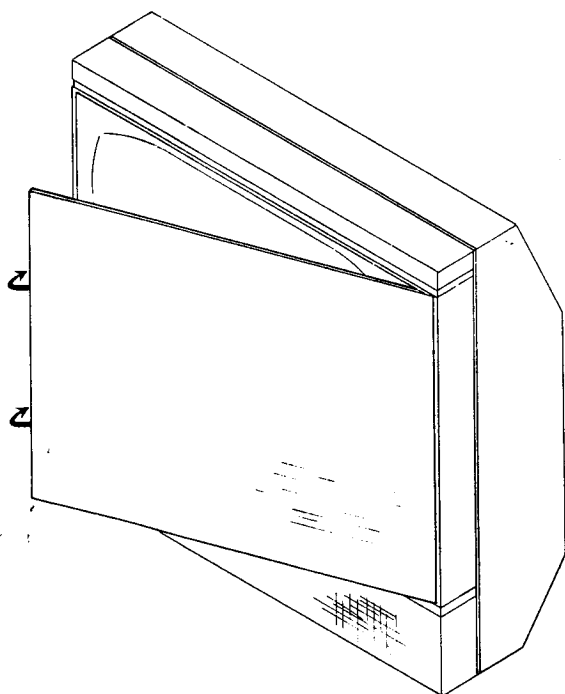
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Træk ud i kontrastskærmens nederste kant.

Pull the lower edge of the contrast screen outwards.

Montering af kontrastskærmen

Mounting of contrast screen



Monter skærmen i rillen af det ene sidepanel.

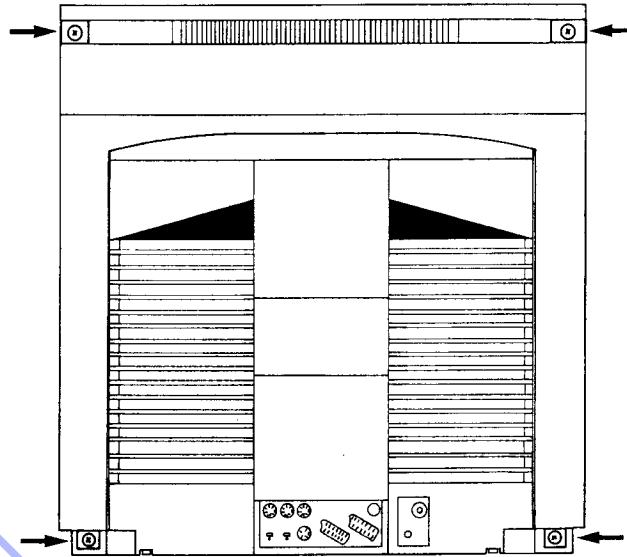
Fit the screen into the groove in one of the side panels.

Bøj skærmen frem og monter skærmen i rillen af det modsatte sidepanel.

Flex the screen slightly outwards and fit the screen into the groove in the opposite side panel.

Bagpart

Rear part



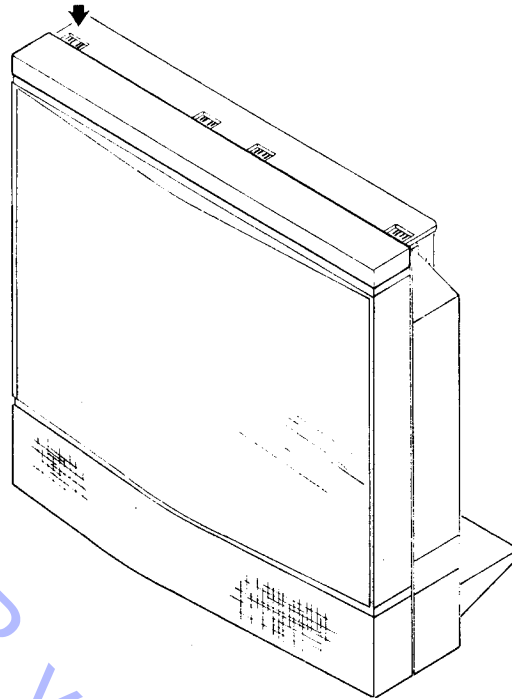
De fire skruer løsnes, og bagparten trækkes lige bagud.

Loosen the 4 screws and then remove the rear part by pulling straight outwards.

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Toppanel

Top panel



Panelet løsnes i den ene side, ved at låsen aktiveres med en skruetrækker.

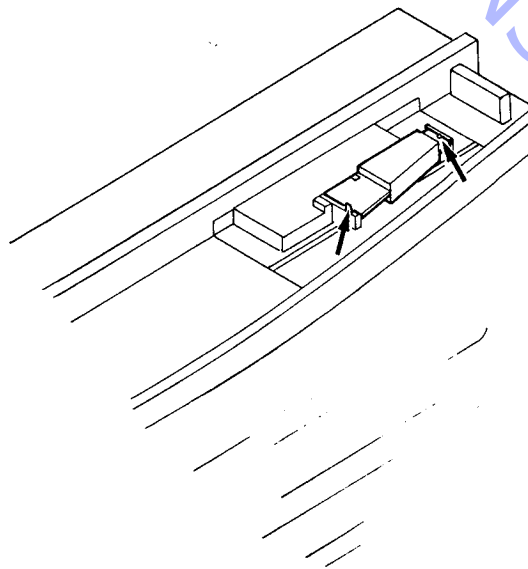
Loosen the panel in one side by releasing the lock with a screwdriver.

Toppanelet kan nu fjernes.

The top panel can now be removed.

PCB 09 IR-modtager

PCB 09 IR-receiver

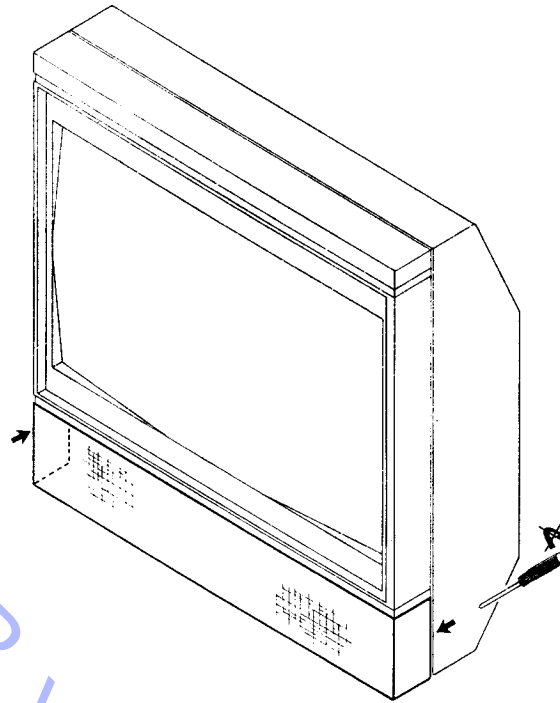


De to låse løsnes og PCB'en tages ud, ved at løfte i den forreste kant.

Release the two locks and remove the PCB by lifting it at its front.

Højtalerpanel

Loudspeaker panel



En skruetrækker sættes forsigtigt ind mellem højtalerpanelet og kabinettet i apparatets højre side.

Carefully insert a screwdriver between the loudspeaker panel and the cabinet in the right-hand side of the set.

Højtalerpanelet løsnes med et let tryk med skruetrækkeren og skubbes dernæst mod venstre.

Loosen the loudspeaker panel by exerting a light pressure with the screwdriver.

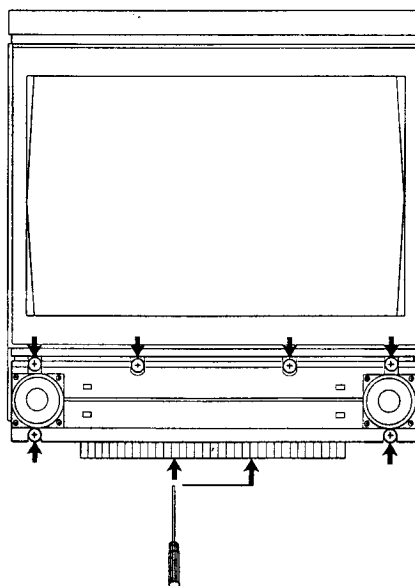
Med et let tryk mod højtalerpanelets venstre hjørne frigøres panelet fuldstændig.

Push the loudspeaker panel towards the left.

A light push against the left corner of the loudspeaker panel will now release the panel completely.

Højtalerbaffel

Loudspeaker baffle



De seks skruer fjernes.

Remove the 6 screws.

Højtalerbafflen løsnes, ved at de to låse i bunden af apparatet aktiveres, hvorefter bafflen trækkes fremad og opad.

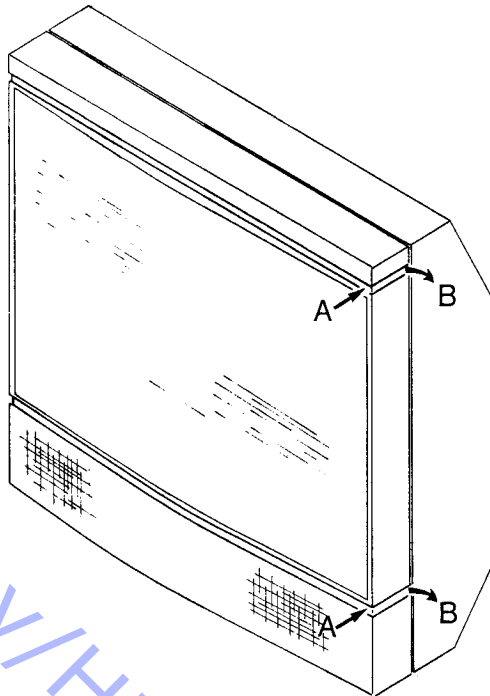
Loosen the loudspeaker baffle by using a screwdriver to release the 2 locks at the base of the set. Then pull the baffle outwards and upwards.

ADSKILLELSE
MX5500

DISASSEMBLY
MX5500

Demontering af kontrastskærmen

Removal of contrast screen



For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

Pyntelisterne over og under kontrastskærmen løsnes ved at trykke listen ind (A) og samtidig trække ud i pilen B's retning. Listerne kan nu frigøres hele vejen rundt.

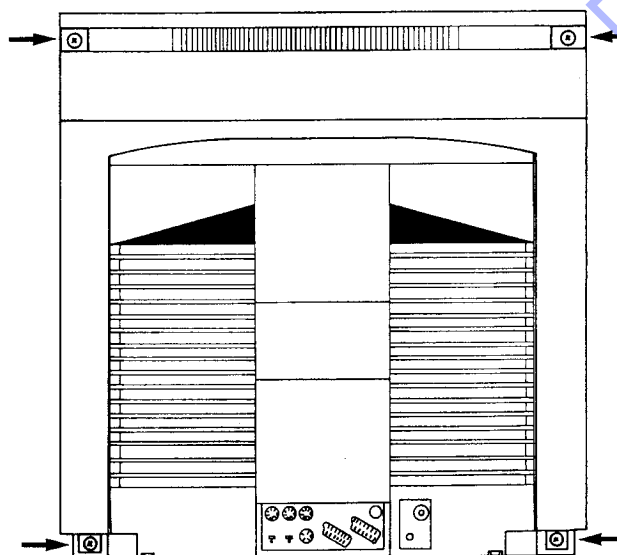
Loosen the upper and lower plastic strips by firmly pressing the strips in one side (A) and simultaneously pulling at the end of the strips in the direction of the arrow B. The strips are now loose and can be removed.

I hvert af de fire hjørner sidder en skrue som skrues ud, hvorefter kontrastskærmen er fri.

Loosen the screw in each of the four corners. The contrast screen can now be removed.

Bagpart

Rear part



De fire skruer løsnes, og bagparten trækkes lige bagud.

Loosen the four screws and then remove the rear part by pulling straight outwards.

Toppanel

Top panel



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Panelet løsnes i den ene side, ved at låsen aktiveres med en skruetrækker.

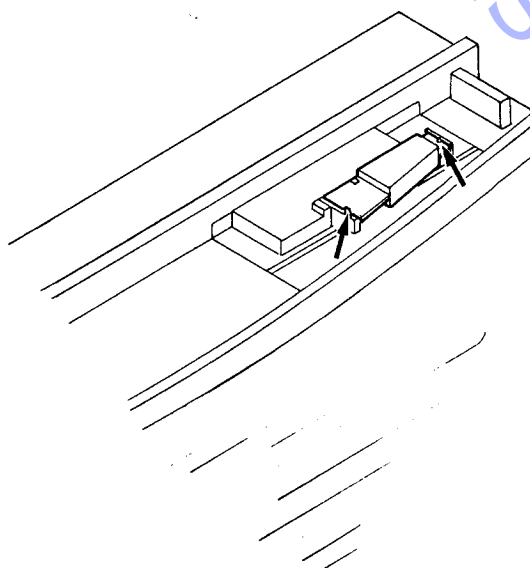
Loosen the panel in one side by releasing the lock with a screwdriver.

Toppanelet kan nu fjernes.

The top panel can now be removed.

PCB 09 IR-modtager

PCB 09 IR-receiver

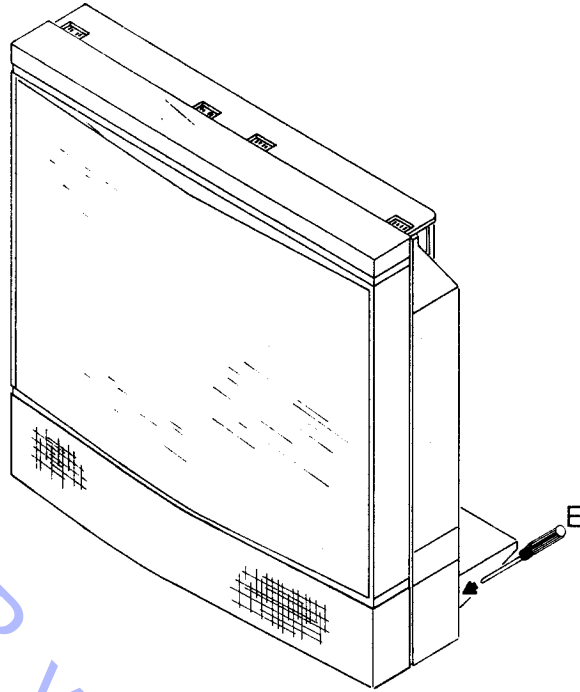


De to låse løsnes og PCB'en tages ud, ved at løfte i den forreste kant.

Release the two locks and remove the PCB by lifting it at its front.

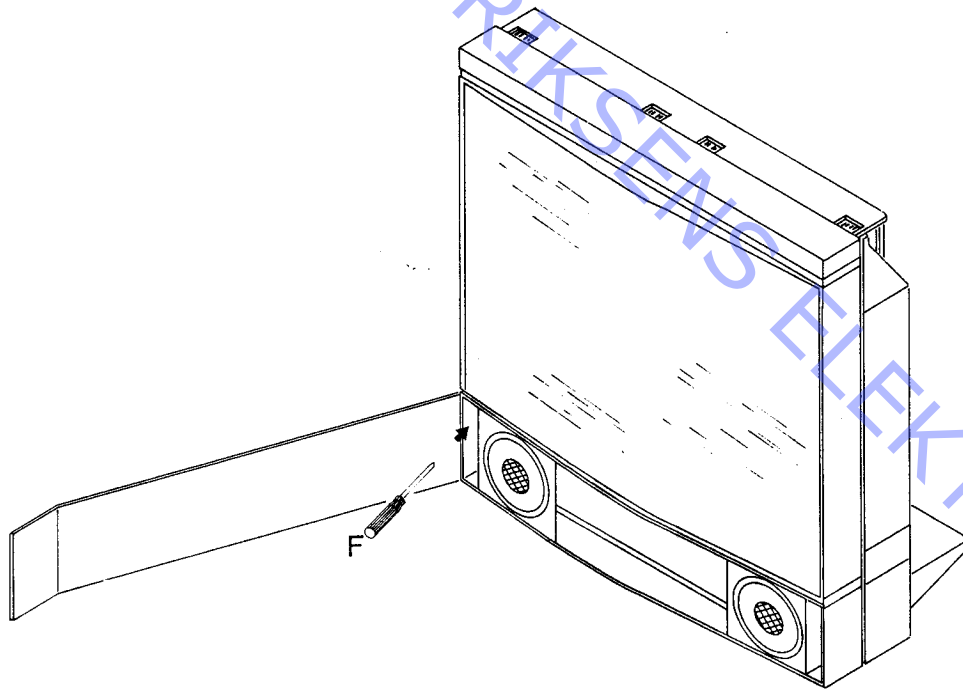
Højtalerpanel

Loudspeaker panel



Panelet frigøres i venstre side (set bagfra) ved at løsne låsene med en skruetrækker igennem hullerne i kabinettet (E). Herefter trækkes panelet fri langs kanten.

Loosen the panel in the left-hand side (seen from behind) by inserting a screwdriver into the holes in the cabinet (E) to release the locks. Loosen the panel at the front of the set.



Panelet frigøres i den anden side ved at løsne låsene forfra med en skruetrækker mellem panelet og kabinettet (F).

To detach the panel in the opposite side, release the locks by inserting a screwdriver between the panel and the cabinet (F).

REPARATIONSTIPS

Beovision 3500, 4500 og 5500 er forsynet med en række sikringskredsløb der træder i kraft ved fejl i apparatet og beskytter apparatet mod følgeskader.

Flg. tre fejltyper overvåges:

- 'Power fail' (spændingssvigt)
- IIC-bus fejl
- Fejl i NV-RAM

'Power fail'-kredsløbet er et ringkoblet system, der detekterer om en eller flere spændingsstabiliseringsringer er overbelastede. I givet fald registreres dette af μP 'en, der bringer apparatet i stand-by.

Kredsløbet fungerer ved, at μP 6IC13 sender en pulserende spænding ud på ben 10.

Hvis der ikke er fejl, modtager μP 'en signalet igen på ben 13.

Hvis der opstår en overbelastning, 'clamper' den overbelastede forsyning signalet, og der kommer ikke noget retur til ben 13.

Det samme signal styrer desuden netdelen ON via 4C61, 4R72 og 4TR35.

Hvis der opstår en fejl i μP , så den ikke længere udsender den pulserende spænding, går netdelen automatisk i stand-by.

IIC-bus fejlsystemet er en del af softwaren, der registrerer kommunikationsfejl mellem μP 'en og de komponenter, der styres via IIC-bussen.

Hvis der opstår en sådan fejl, bringer μP 'en apparatet i stand-by.

Hvis der opstår fejl i NV-RAM (6IC5), så det ikke er muligt at overføre apparatets grundindstillinger til afbøjningsdelen og farvedelen, erstatter μP 'en de manglende data med standardværdier, der er gemt i programlageret.

Apparatet skriver »DATA FAILURE« i statuslinien, hver gang der tændes, indtil fejlen er udbedret.

REPAIR TIPS

The Beovisions 3500, 4500 and 5500 are equipped with a number of safety circuits which are engaged in case of errors in the set to protect the set from damage caused by such errors.

The following three types of error are monitored:

- 'Power fail'
- IIC bus errors
- Errors in NV-RAM

The "power fail" circuit is a ring coupled system that detects whether or not one or several voltage stabilizers are overloaded. If that is the case, this is registered by the μP , which brings the set into stand-by.

The circuit operates in that the μP 6IC13 outputs a pulsating voltage at pin 10.

If there are no errors, the μP receives the signal back at pin 13.

If an overload condition occurs, the overloaded supply clamps the signal, and no signal is returned to pin 13.

The same signal furthermore switches the power-supply unit ON through 4C61, 4R72 and 4TR35.

If an error occurs in the μP such that it no longer outputs the pulsating voltage, the power-supply unit automatically goes into stand-by.

The IIC bus error system is a part of the software that registers communication errors between the μP and the components controlled through the IIC bus. If such an error occurs, the μP brings the set into standby.

If an error occurs in the NV-RAM (6IC5) such that it is not possible to transfer the basic settings of the set to the deflection section and the colour section, the μP replaces the missing data with standard values stored in the program memory.

The set writes "DATA FAILURE" in the status line every time it is switched on until the defect has been repaired.

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Det er muligt, at undersøge hvilken fejltpe der er opstået:

Tryk på stand-by på apparatet

Tryk TV på Beolink 1000 terminalen.

Tænder TV'et? → Ja: Står der »DATA FAILURE« i statuslinien?
Nej?

Ja: Der er registreret en fejl i NV-RAM
Nej: Der er en periodisk fejl.
Aktiver SERVICE-MODE og se under ERROR MESSAGE

Tryk på stand-by på apparatet.
Kortslut servicestikket og tryk TV på Beolink 1000.

Tænder TV'et? → Ja: Der er en IIC-bus fejl.
Nej Aktiver SERVICE-MODE og se under ERROR MESSAGE.

Der er opstået en 'power fail'. Anvend service kit 6276361.

Fejlfinding ved IIC-bus fejl

Kortslut servicestikket og tast TV.

Apparatet tænder, og ICC-bus fejl ignoreres. Ud fra fejlsymptomerne kan fejlen indkredses. Som hjælp hertil kan apparatet bringes i SERVICE-MODE ved først at fjerne kortslutningen i servicestikket og herefter kortvarigt at kortslutte igen:

I SERVICE-MODE menuen vælges ERROR MESSAGE og skærbilledet LAST ERROR viser en af flg. tekster:

(no error)	Ingen fejl er registreret
POWERFAIL:	Apparatet blev bragt i stand-by pga. en 'power-fail'.
DATA FAILURE:	Datafejl under skrivning/læsning til/fra NV-RAM (6IC5).
IIC ADDRESS	22 6IC8, TEXT IC
	40 8IC3, NICAM PORT EXPANDER
	42 2IC5, DAC TIL CUTOFF OG DRIVE
	80 5IC1, SOUND CONTROLLER
	84 1IC7, A-2 STEREO-DEKODER
	8C 10IC5, GEOMETRY CONTROLLER
	C0 1IC4, TUNING CITAC
	44 12IC10PIP SWITCH
	2e 12IC9PIP IC

It is possible to examine which type of error has occurred:

Press the stand-by button on the set

Press TV on the Beolink 1000 terminal

Does the TV switch on? → Yes: Does the status line read "DATA FAILURE"?

Yes: An error has been registered in the NV-RAM
No: There is a periodic error. Actuate SERVICE MODE and look under ERROR MESSAGE

Press the stand-by button on the set.
Short-circuit the service plug and press TV on Beolink 1000.

Does the TV switch on? → Yes: There is an IIC bus error.
No Actuate SERVICE MODE and look under ERROR MESSAGE.

A "power fail" condition has occurred. Use service kit 6276361.

Fault-finding in connection with IIC bus errors

Short-circuit the service plug and press TV.

The set switches on, and IIC bus errors are ignored. The error can be isolated on the basis of the error symptoms.

To this end the set can be brought into SERVICE MODE by first removing the short circuit in the service plug and then short-circuiting it again briefly.

Select ERROR MESSAGE in the SERVICE MENU, and the screen picture LAST ERROR will show one of the following texts:

Bemærk: En IIC-bus fejl betyder, at kommunikationen på bussen svigtede, da μP 'en forsøgte at kommunikere med den pågældende adresse. I de fleste tilfælde betyder det, at den tilhørende komponent er defekt. Fejlen kan dog også skyldes en anden komponent, der ødelagde kommunikationen netop, som der blev kommunikeret med adressen, der står som LAST ERROR.

TIPS: Ved en fejl, hvor al kommunikation på bussen er blokeret, registreres IIC ADDRESS 8C oftest som LAST ERROR. Hvis apparatet startes med servicestikket kortsluttet (busfejl ignoreres), viser apparatet kun en vandret streg.

Fejlfinding ved 'power-fail'

Til dette formål er der fremstillet et servicekit, best. nr. 6276361, der består af 4 adaptorer.

BEMÆRK: Fejlfinding med dette kit kobler 'power-fail'-kredsløbet fra. Der kan derfor opstå følgeføj.

Der er registreret en 'power-fail'.

Under resten af fejlsøgningen skal servicestikket være kortsluttet.

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(no error)	No error has been registered
POWERFAIL:	The set was brought into stand-by because of a "power fail" condition.
DATA FAILURE:	Data error during writing/reading into/from the NV-RAM (6IC5)
IIC ADDRESS 22	6IC8, TEXT IC
40	8IC3, NICAM PORT EXPANDER
42	2IC5, DAC FOR CUT-OFF AND DRIVE
80	5IC1, SOUND CONTROLLER
84	1IC7, A2 STEREO DECODER
8C	10IC5, GEOMETRY CONTROLLER
C0	1IC4, TUNING CITAC
44	12IC10, PIP SWITCH
2e	12IC9, PIP IC

Note: An IIC bus error means that the communication on the bus failed when the μP tried to communicate with the address in question. In most cases this means that the component associated with that address is defective. However, the error may also have been caused by another component which destroyed the communication just when communication was in progress with the address listed as LAST ERROR.

TIPS: In the case of an error where all communication on the bus is blocked, IIC ADDRESS 8C is usually registered as the LAST ERROR. If the set is started with the service plug short-circuited (bus errors are ignored), the set will only show a horizontal line.

Fault-finding in connection with "power fail"

A service kit consisting of four adapters has been made for this purpose, part no. 6276361.

NOTE: Fault-finding with this kit disengages the "power fail" circuit. Consequently, errors may occur as a consequence of that.

A "power fail" condition has been registered. During the remainder of the fault-finding operation the service plug must be short-circuited.

Afmonter 8P804 (kun hvis NICAM er monteret).

Tryk på stand-by på apparatet.

Tast TV



Stand-by Nej → Undersøg forsyningerne på modul 08 (NICAM)

Ja



Tryk på stand-by på apparatet.

Tast AV RADIO (= audio mode)



Stand-by Nej → A

Ja



Monter adaptor 1 i serie med kablet til 5P57.

Tryk på stand-by på apparatet.

Tast TV



Stand-by Nej → Undersøg forsyningerne på modul 05 (VSS).

Ja



Monter adaptor 3 i serie med kablet til 10P15.

Tryk på stand-by på apparatet.

Tast TV.



Stand-by Nej: → Undersøg forsyningerne på modul 01 (MF).

Ja



Monter adaptor 4 i serie med 6P71. Mellemløddet mrk. MODUL 4 monteres i serie med stik 4P81.

Tryk på stand-by på apparatet.

Tast TV .



Stand-by Nej → Undersøg forsyninger på modul 10 og strålestrømsbegrænser.

Ja



Undersøg 'power-fail out'/retur på modul 05 (μP/TEXT).

Dismount 8P804 (only if NICAM is installed).

Press the stand-by button on the set.

Press TV



Stand-by No → Check the supplies on module 08

Yes



Press the stand-by button on the set

Press AV RADIO (= audio mode)



Stand-by No → A

Yes



Mount adapter 1 in series with the cable to 5P57.

Press the stand-by button on the set.

Press TV



Stand-by No → Check the supplies on module 05 (VSS)

Yes



Mount adapter 3 in series with the cable to 10P15.

Press the stand-by button on the set.

Press TV.



Stand-by No → Check the supplies on module 01 (IF)

Yes



Mount adapter 4 in series with 6P71. Mount the connecting link marked MODULE 4 in series with plug 4P81.

Press the stand-by button on the set.

Press TV .



Stand-by No → Check the supplies on module 10 and the beam current limiter.

Yes



Check "power fail out"/return on module 06 (μP/TEXT).

Afmonter 10P31 (kun hvis der er monteret PIP).

Tryk på stand-by på apparatet.

Tast TV.



Stand-by Nej → Undersøg forsyningerne på modul 12 (PIP).

Ja



Monter adaptor 2 i serie med kablet til 10P12.

Tryk på stand-by på apparatet.

Tast TV.



Stand-by → Nej: Undersøg forsyningerne på modul 02 (PAL/SECAM/NTSC).

Ja



Undersøg forsyningerne på modul 06 ved 6TR35-6TR38 (μP/TEXT).

Dismount 10P31 (only if PIP is installed)

Press the stand-by button on the set.

Press TV.



Stand-by No → Check the supplies on module L2 (PIP)

Yes



Mount adapter 2 in series with the cable to 10P12.

Press the stand-by button on the set.

Press TV.



Stand-by → No: Check the supplied on module 02 (PAL/SECAM/NTSC)

Yes



Check the supplies on module 06 next to 6TR35-6TR38 (μP/TEXT).

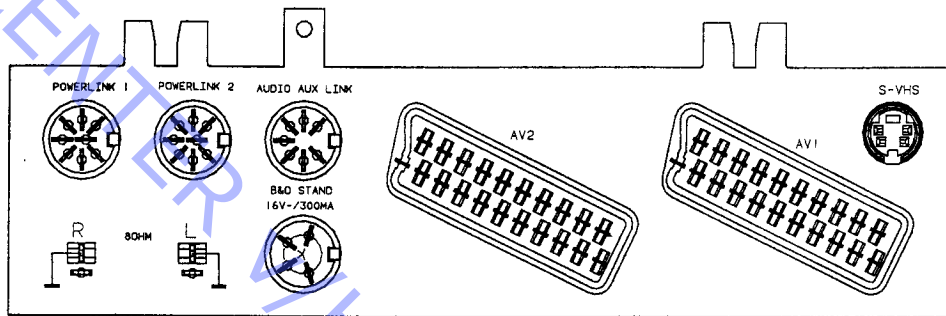
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ISOLATIONSTEST

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 stelbenet i en af højttalerstikdåserne.



OBS!

For at undgå beskadigelser på apparatet er det vigtigt, at begge terminaler fra isolationstesteren har virkelig god 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 it has been dismantled. The test is to be carried out when the set has been re-assembled and is ready for delivery to the customer.

The insulation test is carried out in the following way:

Short-circuit the two plug pins of the main plug and connect one of the terminals of the insulation tester. Connect the other terminal of the insulation tester to the chassis pin of one of the loudspeaker sockets.

NOTE!

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

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

Flashovers are not permitted during the testing procedure.

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Picture-in-picture

Type 4120 (LX)
4121 (MX)

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ABO-COMPUTER V/HENRIKSENS ELEKTRONIK

DIAGRAM Picture-In-Picture

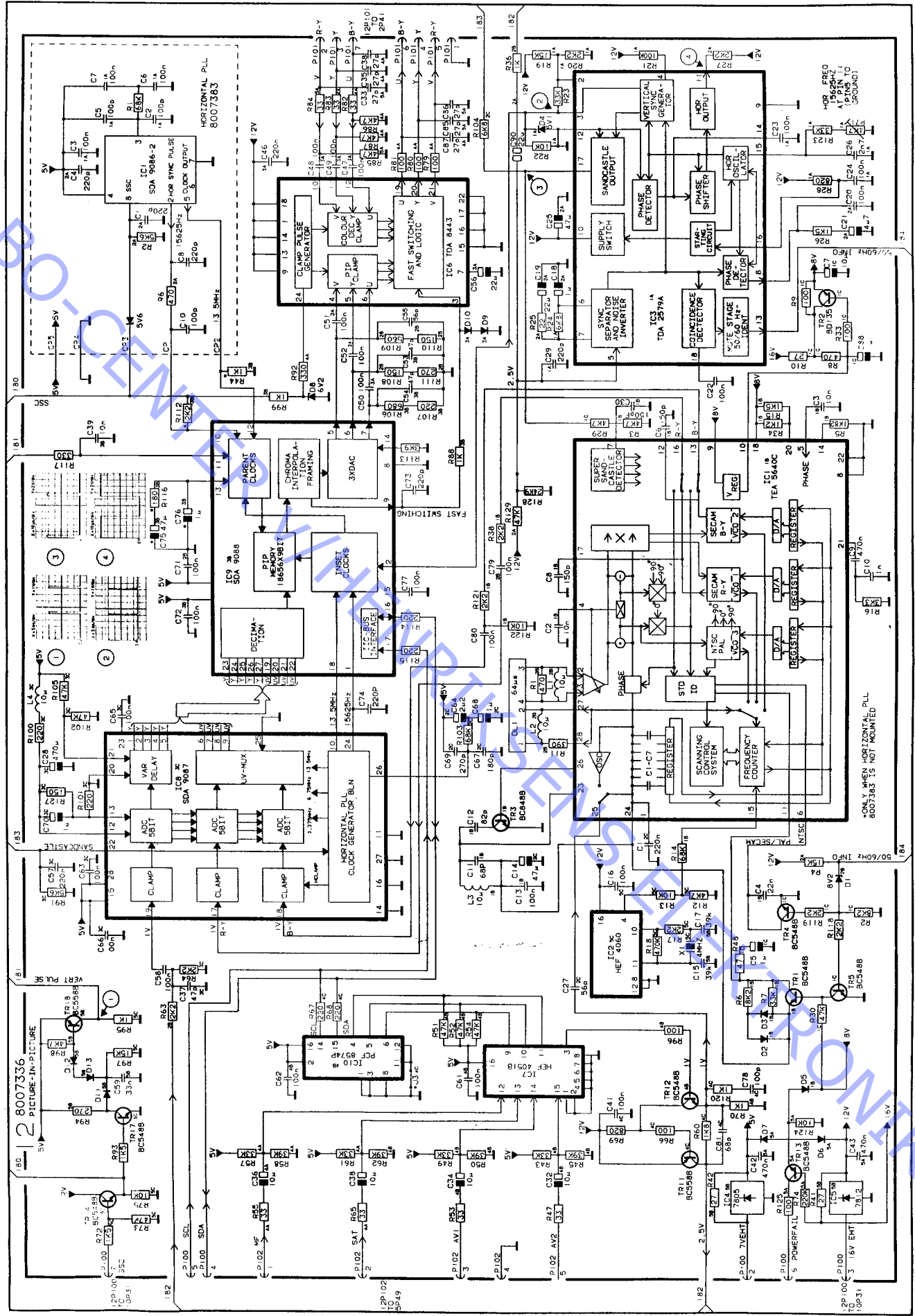
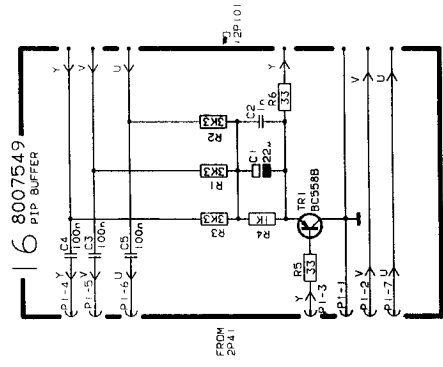
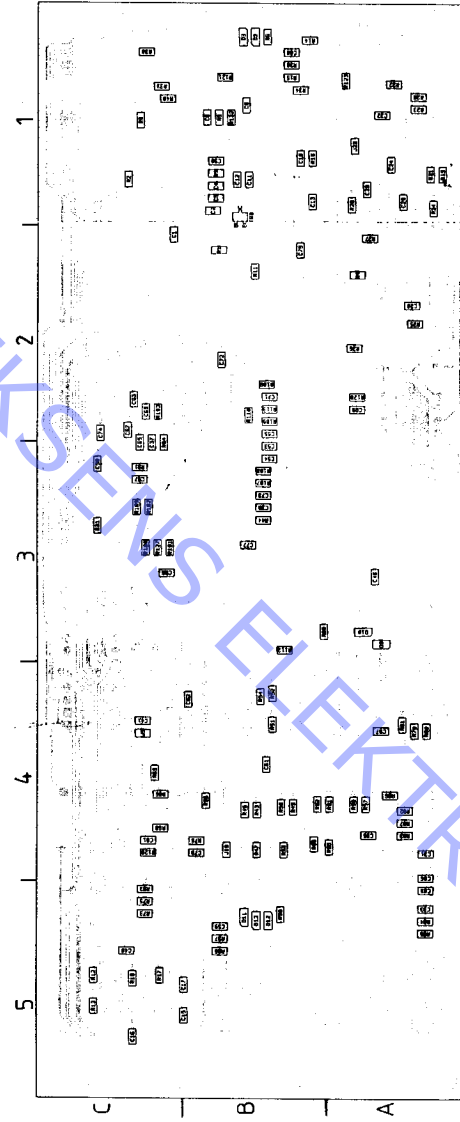


DIAGRAM PIP Buffer



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PCB 12



LIST OF ELECTRICAL PARTS

20	32	51	101	105	109	111	113
125	136	209	250				

Resistors not referred to are standard, see page 3-12
 Δ indicates that static electricity may destroy the component.

PCB 12, 8007336
 Picture in Picture

IC1Δ	8341191	125	TEA5640C	IC6Δ	8341363	113	TDA8443A
IC2Δ	8341230	101	4060	IC7Δ	8341440	101	4051
IC3Δ	8341131	111	TDA979A	IC8Δ	8341442	136	SDA9087
IC4	8340065	105	7805	IC9Δ	8341443	136	SDA9088
IC5	8340049	105	7812	IC10Δ	8341158	101	PCF8574P
TR1	8320509	20	BC548B	TR11	8320510	20	BC558B
TR2	8320317	32	BD135	TR12-	8320509	20	BC548B
TR3	8320615	51	BC848B	TR14			
TR4-	8320509	20	BC548B	TR17	8320509	20	BC548B
TR5				TR18	8320510	20	BC558B

D1	8300173	209	8.2V 5% 0.4W	D7	8300201	209	6.2V 5% 0.4W
D2-	8300482	250	4148	D8	8300482	250	LL4148
D3				D9-			
D4	8300169	209	5.1V 5% 0.5W	D13			
D5-	8300058	209	1N4148				

R10	5021120	27Ω	5% 1W	R71	5370324	4.7kΩ	20% 0.1W
R41-	5021120	27Ω	5% 1W	R128	5011598	24.9kΩ	1% 1/8W
R42							

C1	4000287	220nF	-20+80% 25V	C36	4200510	10μF	20% 16V
C2-	4010187	10nF	10% 50V	C37	4000234	47nF	5% 50V
C3				C38	4200510	10μF	20% 16V
C4	4000290	22nF	10% 50V	C39	4010157	100nF	10% 50V
C5	4200512	1μF	20% 50V	C41	4010166	100nF	-20+80% 50V
C6	4000229	150pF	5% 50V	C42-	4130313	470nF	20% 63V
C7	4200510	10μF	20% 16V	C43	4000287	220nF	-20+80% 25V
C8	4000229	150pF	5% 50V	C46	4130230	100nF	20% 63V
C9	4130313	470nF	20% 63V	C47-			
C10	4000345	1nF	5% 50V	C52	4000234	47pF	5% 50V
C11	4000280	68pF	5% 50V	C53-			
C12	4000281	82pF	5% 50V	C54	4000240	56pF	5% 50V
C13	4010166	100nF	-20+80% 50V	C55	4200544	22μF	20% 16V
C14	4200516	47μF	20% 16V	C56	4000233	220pF	5% 50V
C15	4000279	39pF	5% 50V	C57	4000233	220pF	5% 50V
C16	4010166	100nF	-20+80% 50V	C58	4010166	100nF	-20+80% 50V
C17	4000279	39pF	5% 50V	C59	4010175	33nF	10% 50V
C18	4200512	1μF	20% 50V	C61-	4010166	100nF	-20+80% 50V
C19	4200508	22nF	20% 25V	C63			
C20	4010166	100nF	-20+80% 50V	C64	4200517	2.2μF	20% 50V
C21	4200515	4.7μF	20% 25V	C65-	4010166	100nF	-20+80% 50V
C22-	4010166	100nF	-20+80% 50V	C66			
C24				C67	4000282	180pF	5% 50V
C25	4200516	47μF	20% 16V	C68	4200512	1μF	20% 50V
C26	4100308	2.7nF	5% 63V	C69	4000283	270pF	5% 50V
C27	4000155	56pF	5% 63V	C70	4200512	1μF	20% 50V
C28	4200831	470μF	20% 10V	C71-	4010166	100nF	-20+80% 50V
C29	4000233	220pF	5% 50V	C72			
C30	4000229	150pF	5% 50V	C73-	4000233	220pF	5% 50V
C31	4000278	27pF	5% 50V	C74			
C32	4200510	10μF	20% 16V	C77	4010166	100nF	-20+80% 50V
C33	4000278	27pF	5% 50V	C78	4000241	100pF	5% 50V
C34	4200510	10μF	20% 16V	C79-	4010166	100nF	-20+80% 50V
C35	4000278	27pF	5% 50V	C80			

C81	4000231	68pF	5% 50V	C88	4200512	1μF	20% 50V
C85-	4000278	27pF	5% 50V	C90	4200784	22μF	20% 16V
C87							
L1	8020608	Coil	10μH 5%	L3	8020830	Coil	10μH
L2	8020752	Coil	10μH	L4	8020608	Coil	10μH 5%
P100-	7220714	Plug	7pol	P102	7220712	Plug	5pol
P101							
DL1	8240012	Delay line	64μs				
X1	8090000	Crystal	4MHz				
IC1	8341646	109	SDA 9086-2				
C1	4010155	220nF	10% 50V	C7	4010155	220pF	10% 50V
C2	4000281	82pF	5% 50V	C8-			
C3	4130230	100nF	20% 63V	C9	4000204	100pF	5% 63V
C5	4000243	100pF	5% 50V	C10			
C6-	4130224	100nF	10% 63V				
CPI-	7220564	Plug	1pol				
CP5							
TR1	8320510	20	BC558B				
C1	4200544	22μF	20% 16V	C3-	4130230	100nF	20% 63V
C2	4010105	1nF	10% 50V	C5			
3152722	Holder						
2938276	Bushing	only LX 5500					
2015108	Screw	3.5x16, only LX 4500					
2015138	Screw	3.5x30, only LX 5500					
6276222	Wire bundle	L/LX 4500/5500					
3152178	Cable holder						
3152739	Holder	MX 3500/5500					
6276221	Wire bundle	MX 3500/5500					

For Service Manuals Contact
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 8 Chery Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351684 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

LIST OF MECHANICAL PARTS

L/LX 4500/5500

MX 3500/5500