

Bang & Olufsen

Beovision MX 3000

Beolink 1000 Terminal
Stand 3000
Video Stand

Beovision MX 4500

Stand 5000

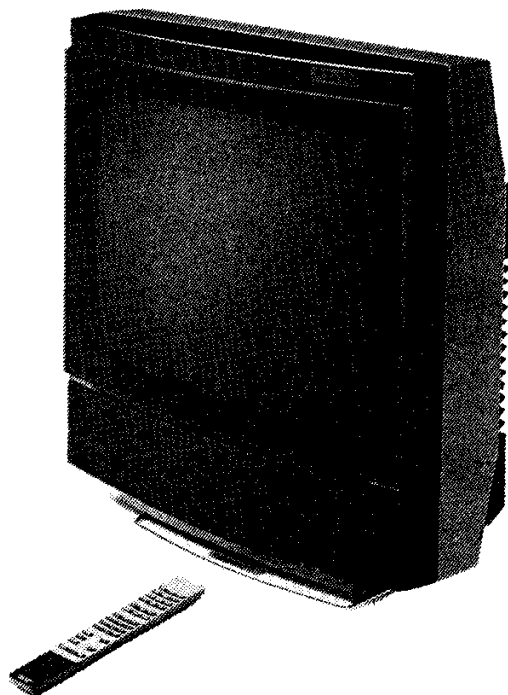
Beovision MX 5000

Nicam 728
MB 5000
MS 5000

(Type-3211)
(Type-3213)

Nicam 728

New version



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



CONTENTS

Beovision MX 3000

Technical specifications	1
Diagrams etc.	2
List of electrical parts	3
List of mechanical parts	4
Beolink 1000 Terminal	4-7
Video Stand	4-8
Stand 3000	4-8
Adjustments	5
Disassembly	6
Repair tips	7
Chassis modifications	7-1
Final test	7-3
Insulation test	8

Beovision MX 4500

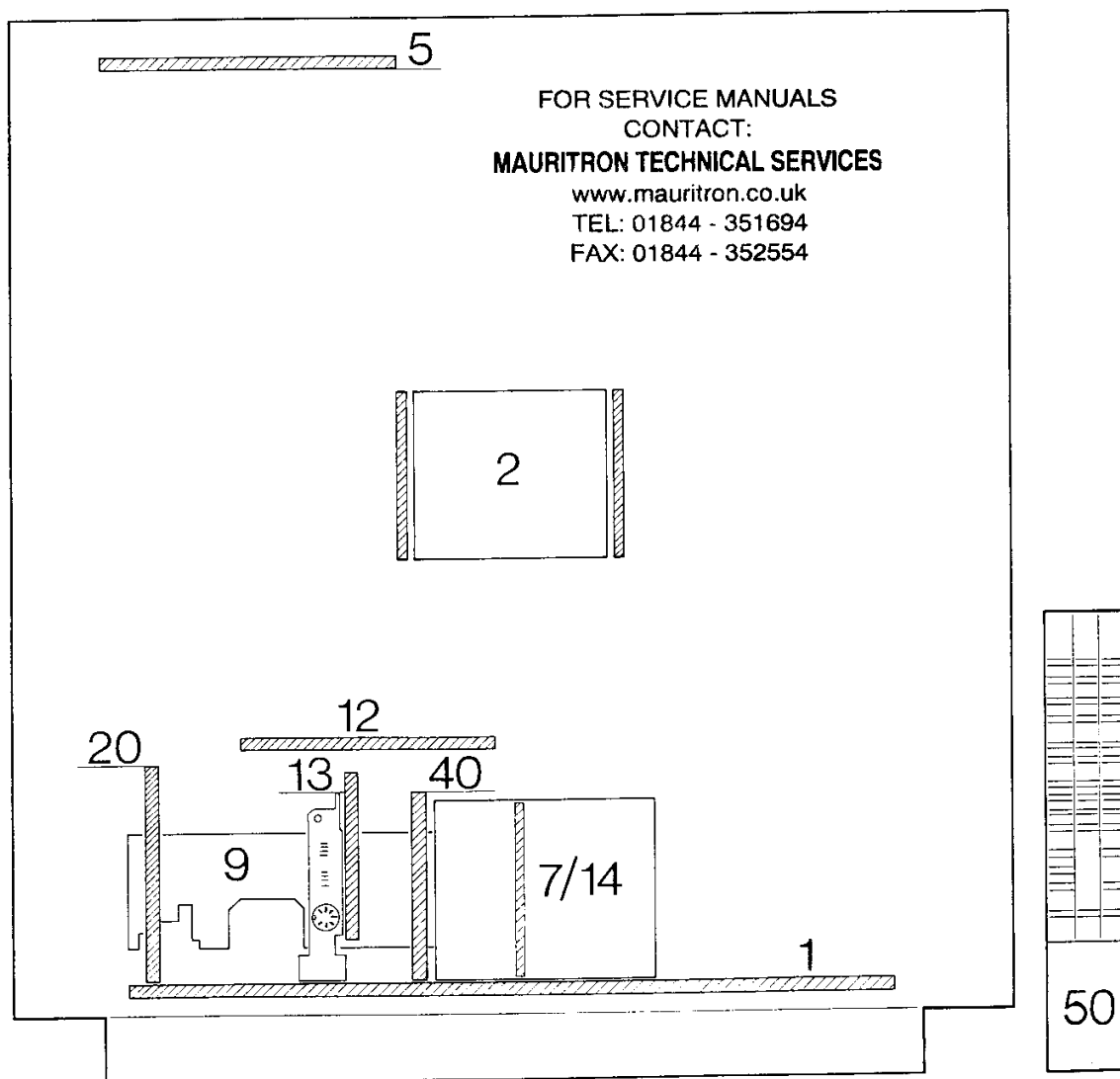
Technical specifications	9
Diagrams etc.	10
List of electrical parts	11
List of mechanical parts	12
Stand 5000	12-4
Adjustments	13
Disassembly	14
Final test	15
Insulation test	16

Beovision MX 5000	17
Nicam 728	18
MB/MS 5000	19

Nicam 728 new version	20
------------------------------------	-----------

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

1 Basic Board	diagr. A-D-E-F-G page 2-6, 9, 10, 11, 12	13 A/V Connections	diagr. E page 2-10
2 Video Output	diagr. C page 2-8	14 Display	diagr. H page 2-13
5 IR-Receiver	diagr. G page 2-12	20 Sound B/G/I/L/M	diagr. D-E page 2-9, 10
7 Teletext	diagr. H page 2-13	40 Pal/Secam Decoder	diagr. B-C page 2-7, 8
9 P-Step/Mains Filter	diagr. E-G page 2-10, 12	50 Beolink 1000 Terminal	page 2-14
12 Interface Audio/Data	diagr. E-G page 2-10, 12		



Accessories

Stand	ST 3000: Type 3085
Beosat RX receiver, AV Link	Type 3026
Nicam stereo kit, EU	Type 3037
Nicam stereo kit, GB	Type 3040
Loop amplifier	Type 3098

Type Survey

Type		Colour	System	Teletext	Transposer
3140	EU-MULTI	PAL-SECAM	B-G-I-L		X
3141	EU-MULTI	PAL-SECAM	B-G-I-L	X	X
3143	AUS	PAL-SECAM	B-G	X	
3144	I	PAL-SECAM	B-G	X	
3145	EU-FTZ	PAL-SECAM	B-G		
3146	EU-FTZ	PAL-SECAM	B-G	X	
3147	E	PAL-SECAM	B-G	X*	

* 6 character S-D-GB-I-F-E

Subject to change without notice

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 351694
FAX: 01844 352554

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

PCB-tegningerne over de største printplader indeholder et komponenttryk og et koordinatsystem. På diagrammerne er enhver komponent forsynet med et koordinatnummer. Dette fortæller i hvilket koordinat på PCB-tegningen, komponenten er placeret. Koordinatnumrene er angivet med mindre skrifttype end positionsnumrene.

Styrekredsløb

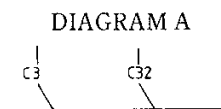
I visse styrekredsløb er den aktive tilstand angivet med en funktionsangivelse. Denne kan eksempelvis være ST.BY. = »low« i stand-by-stilling eller ST.BY. = »high« i stand-by-stilling.

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 PCB drawings of the largest printed circuit boards include a component print and a coordinate system.

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

Control Circuit

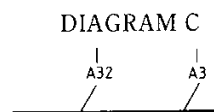
In certain control circuits the active mode is indicated by a function term. This may be e.g. ST.BY. = low in the stand-by mode or ST.BY. = high in the stand-by mode.

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

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).

SYMBOL FOR SIKKERHEDSKOMPONENTER



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

MÅLEBETINGELSER

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

DC-spændingerne og oscillogrammerne er målt i TV-mode med »BRILLIANCE« niveau 20, »CONTRAST« niveau 24 og »COLOUR« niveau 40.

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 OF SAFETY COMPONENTS



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

MEASURING CONDITIONS

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

The DC voltages and oscillogrammes have been measured in the TV mode with "BRILLIANCE" level 20, "CONTRAST" level 24 and "COLOUR" level 40.

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.

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

DIAGRAM OF Π U1 -
VHFTUNER

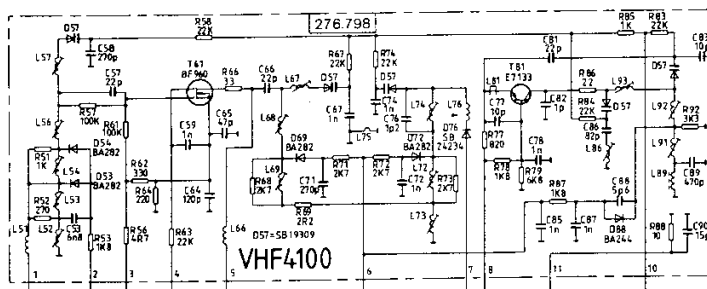
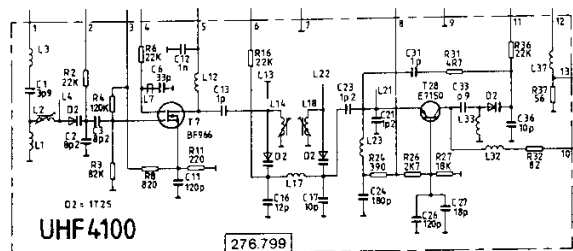
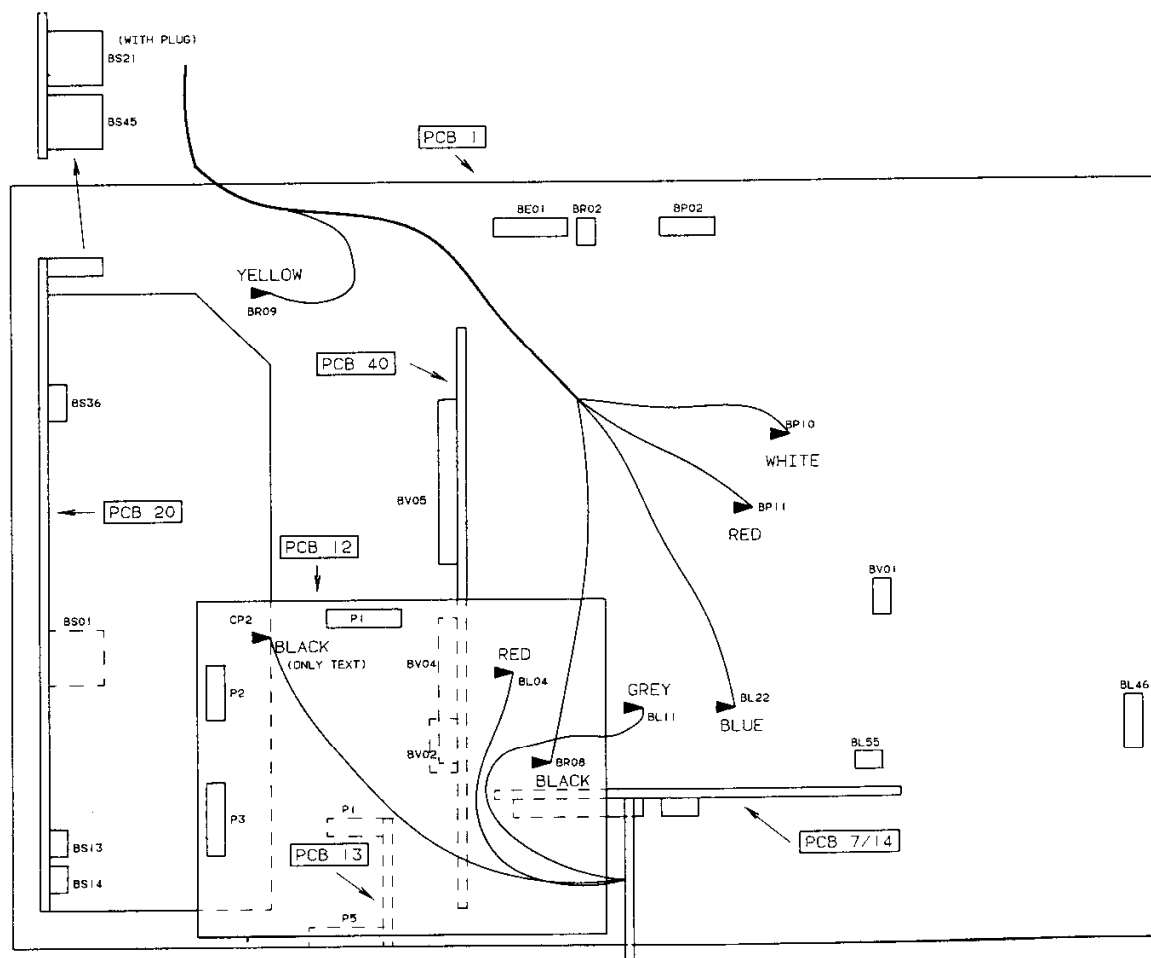


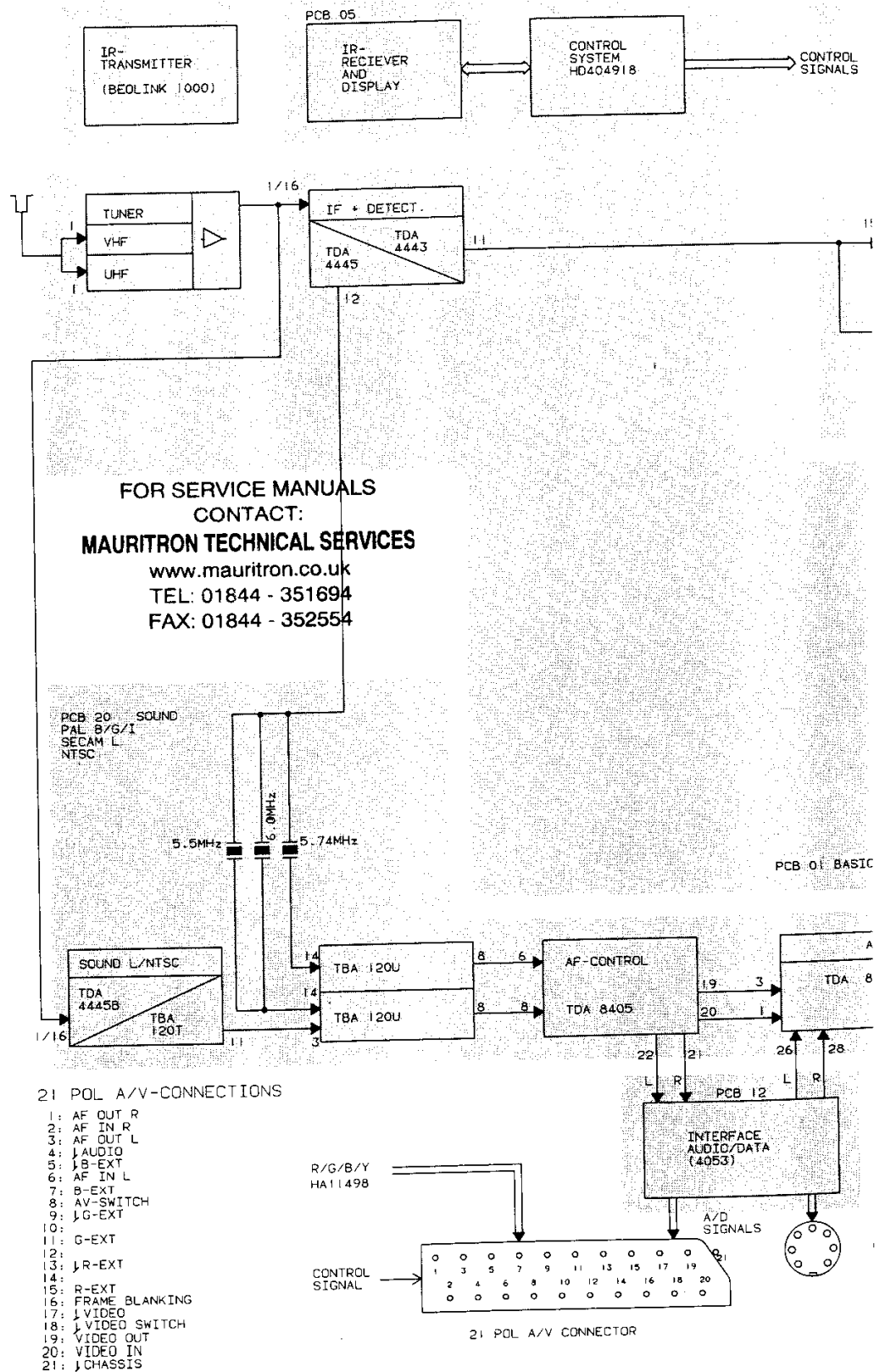
DIAGRAM OF Π U2 -
UHF TUNER

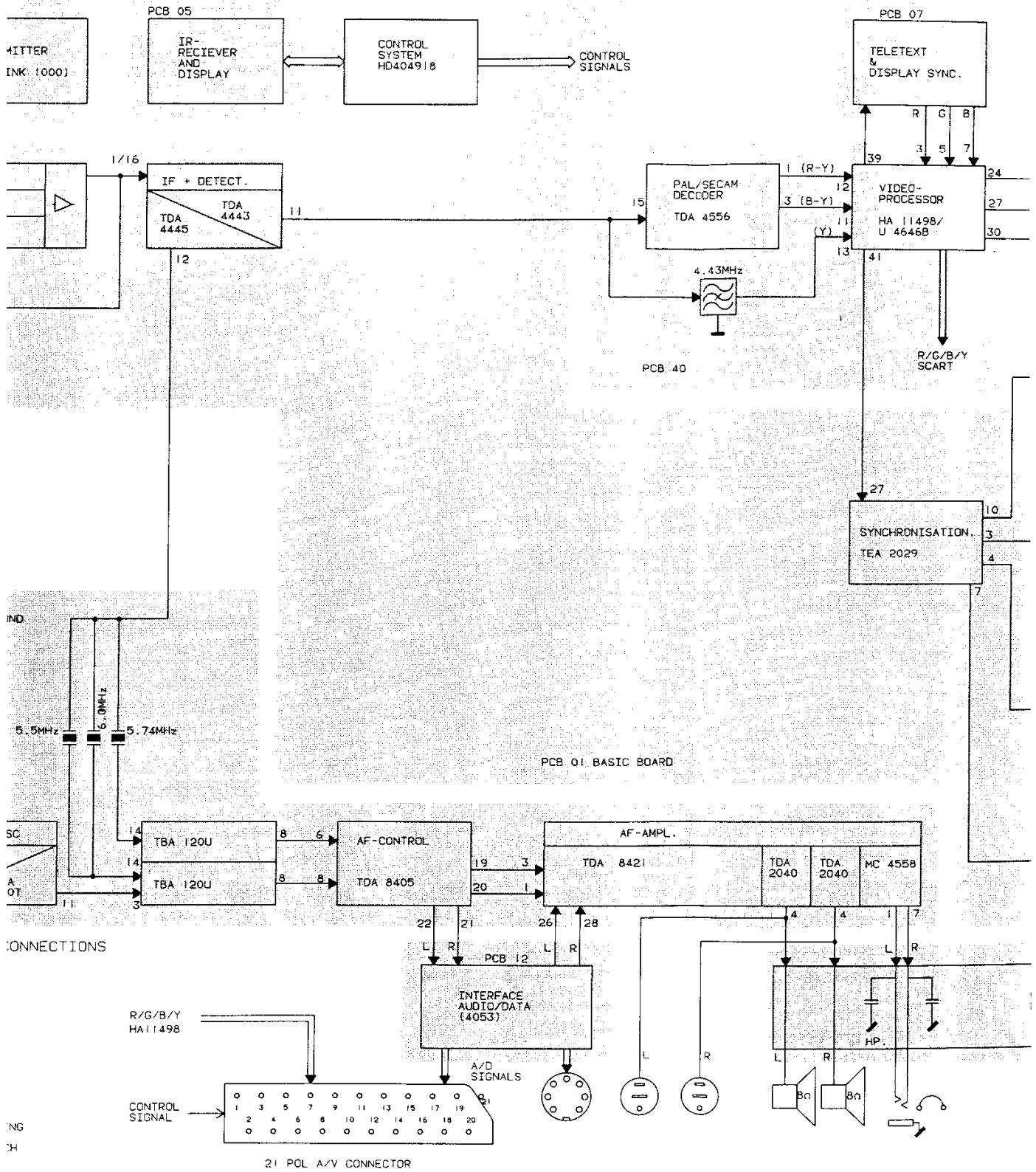


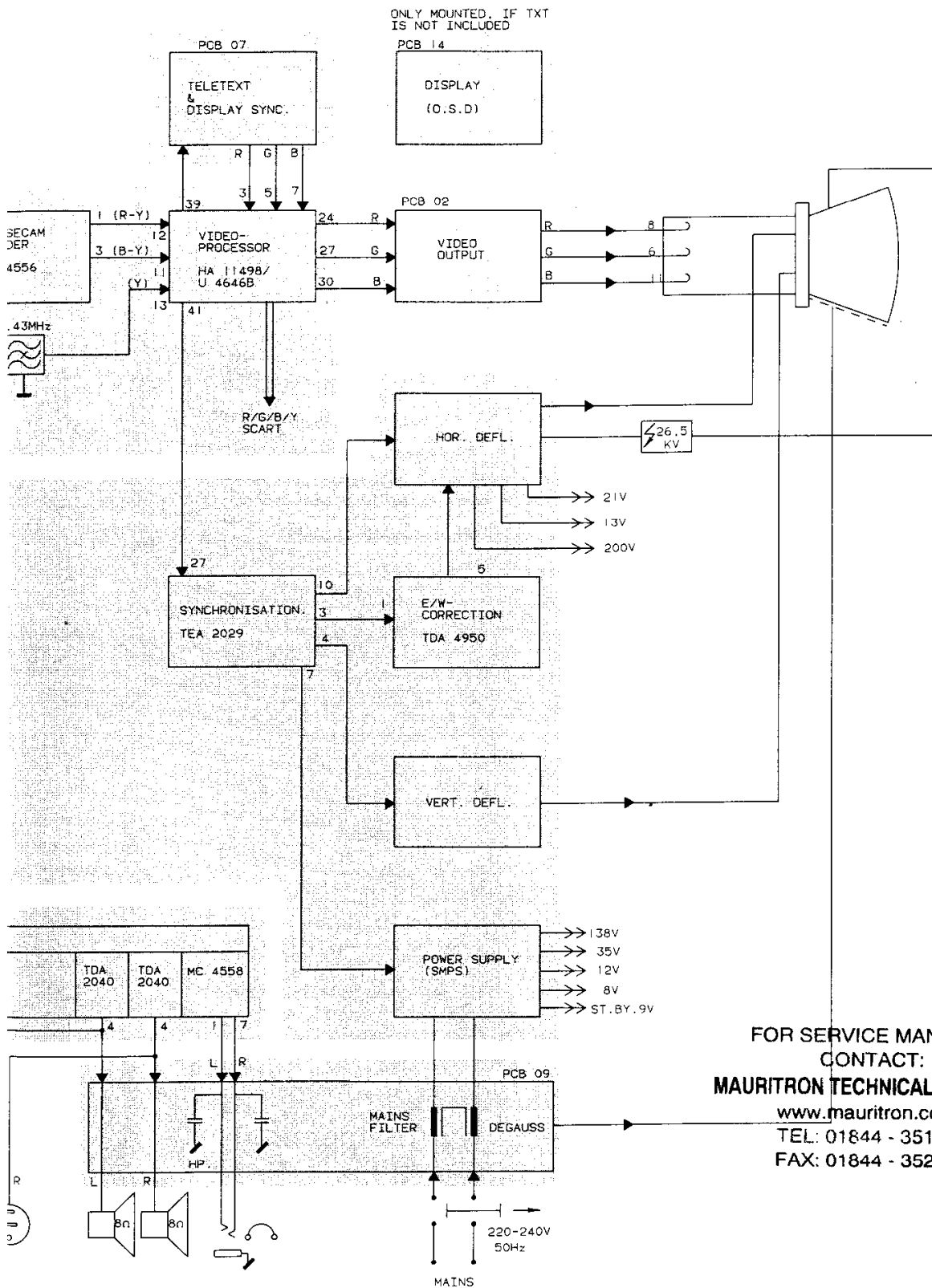
WIRING DIAGRAM



BLOCKDIAGRAM

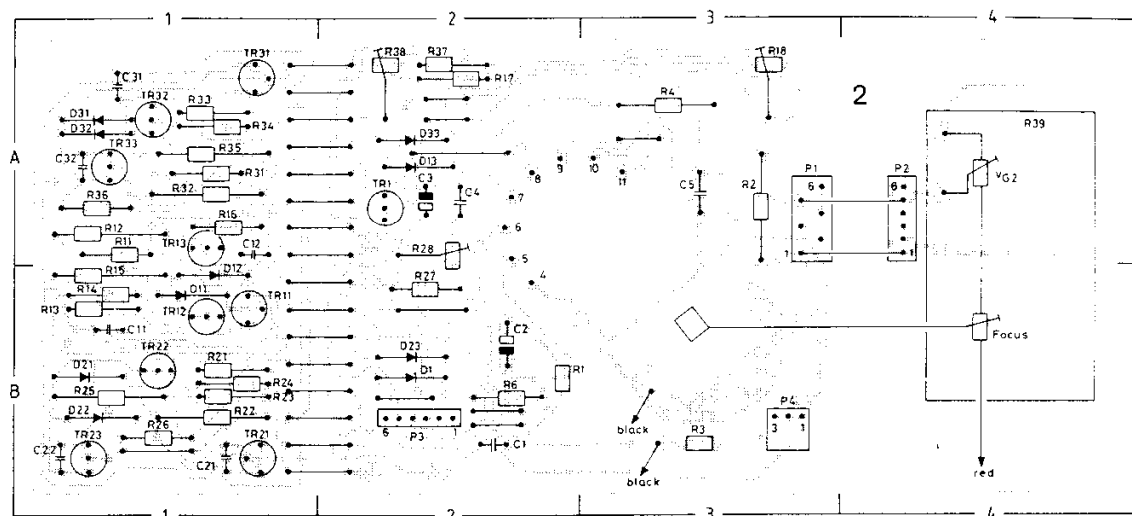






FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

PCB2, VIDEO OUTPUT



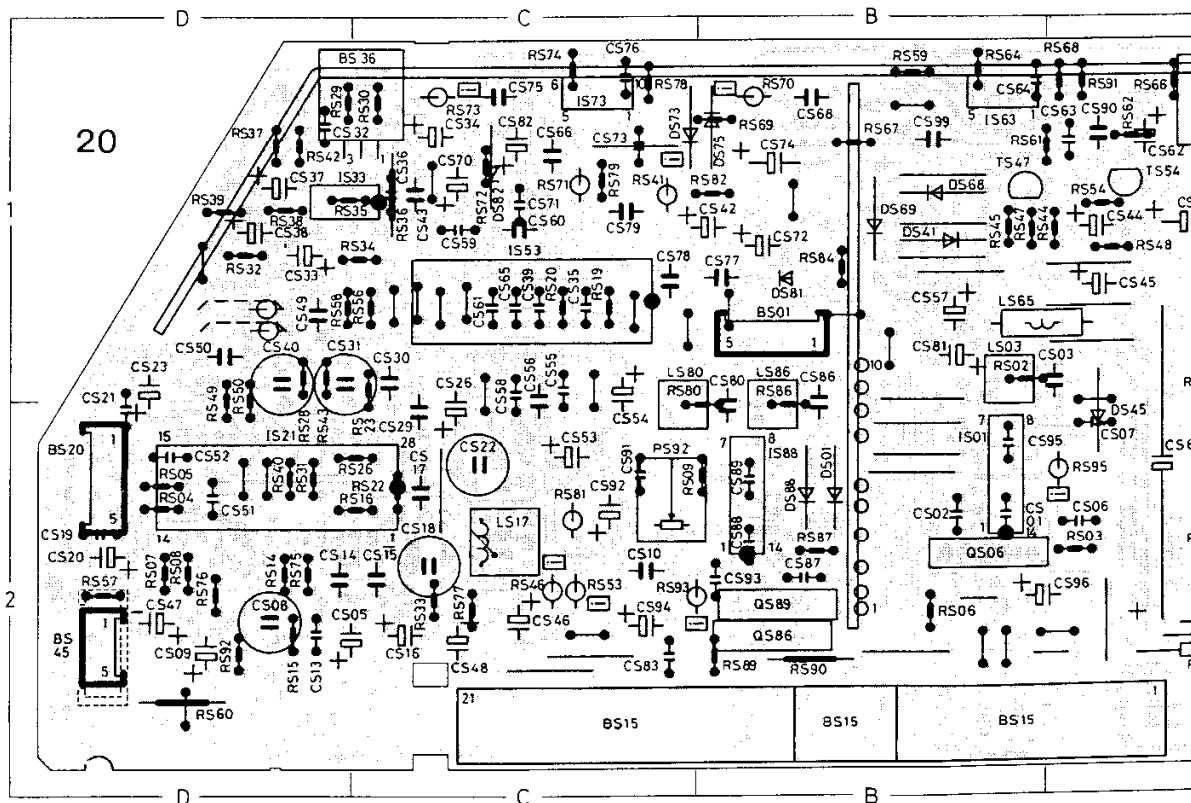
FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

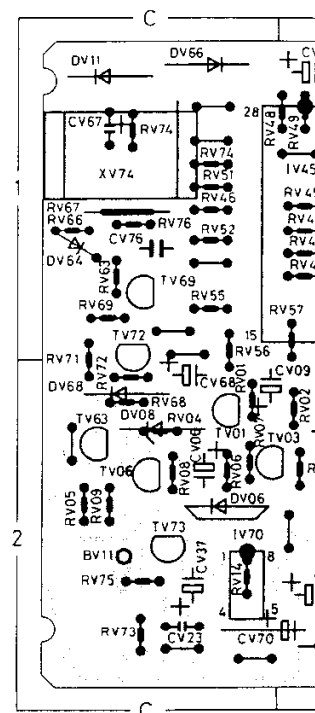
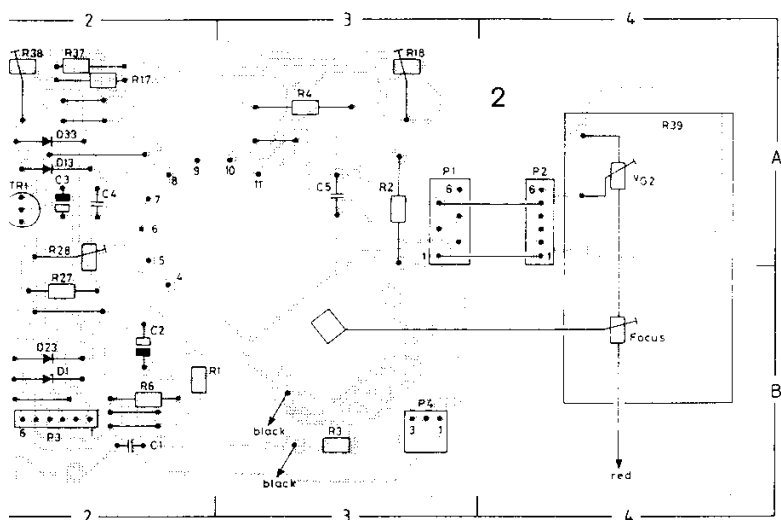
TEL: 01844 - 351694

FAX: 01844 - 352554

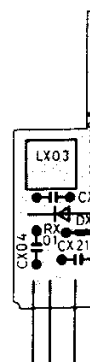
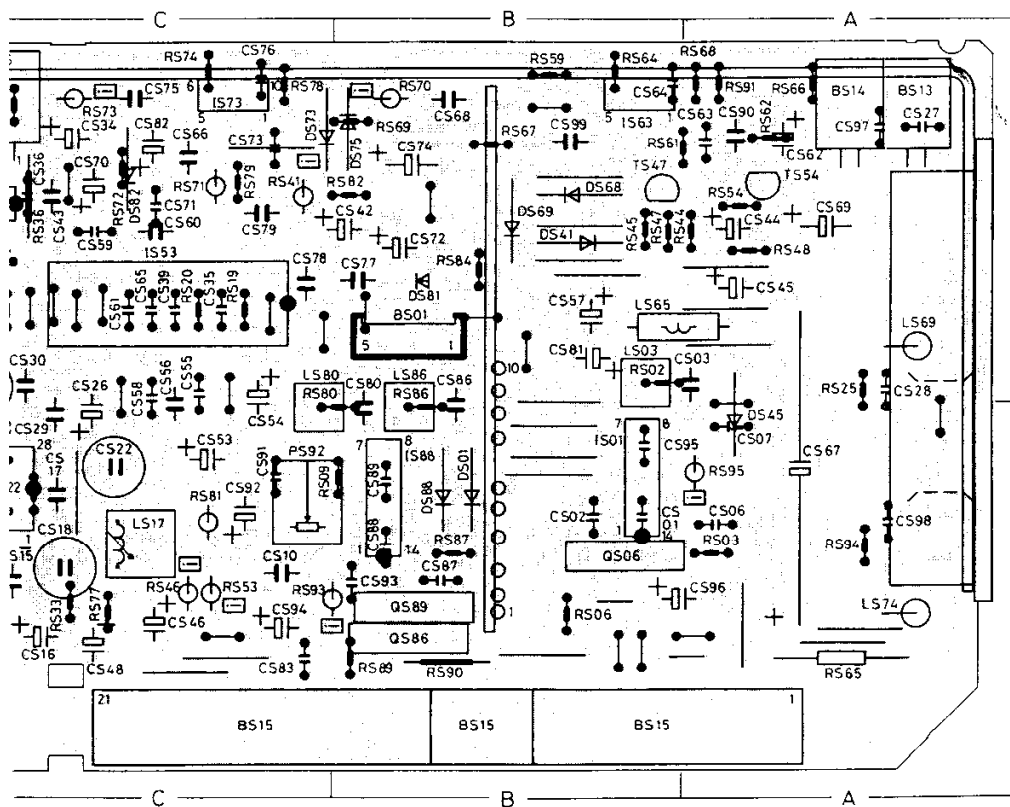
PCB20, SOUND B/G/I/L/M



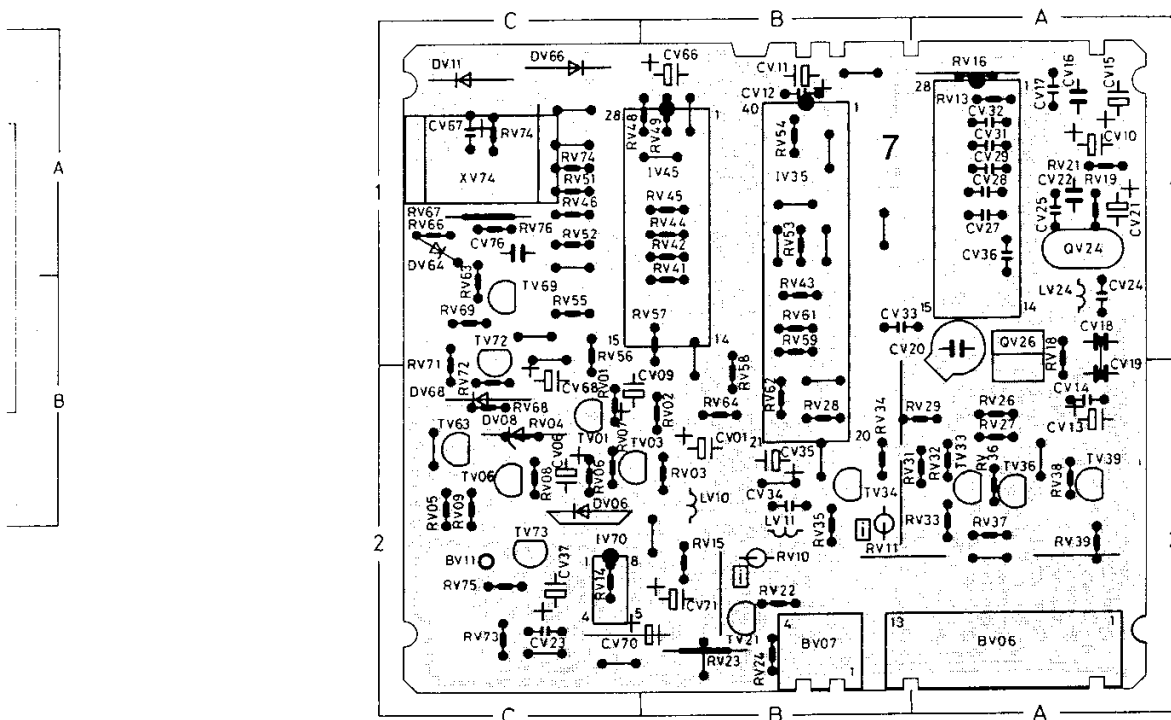
PCB7, TELETXT



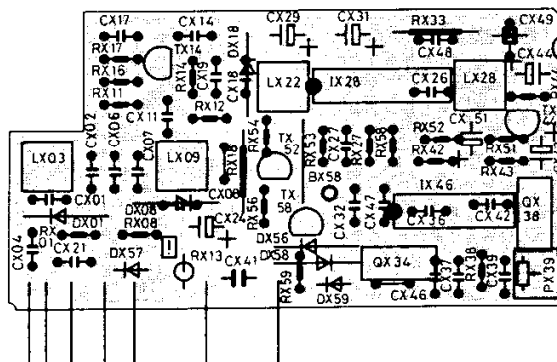
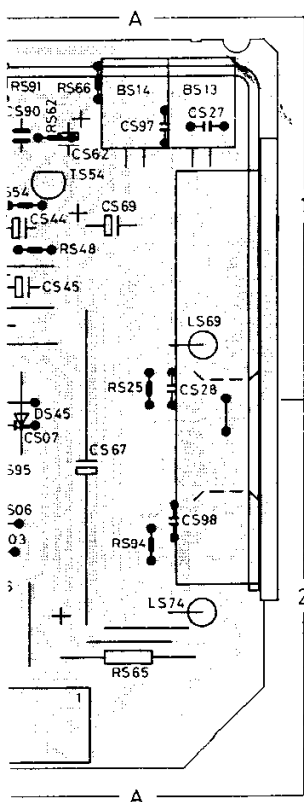
AM/FM



PCB7, TELETXT

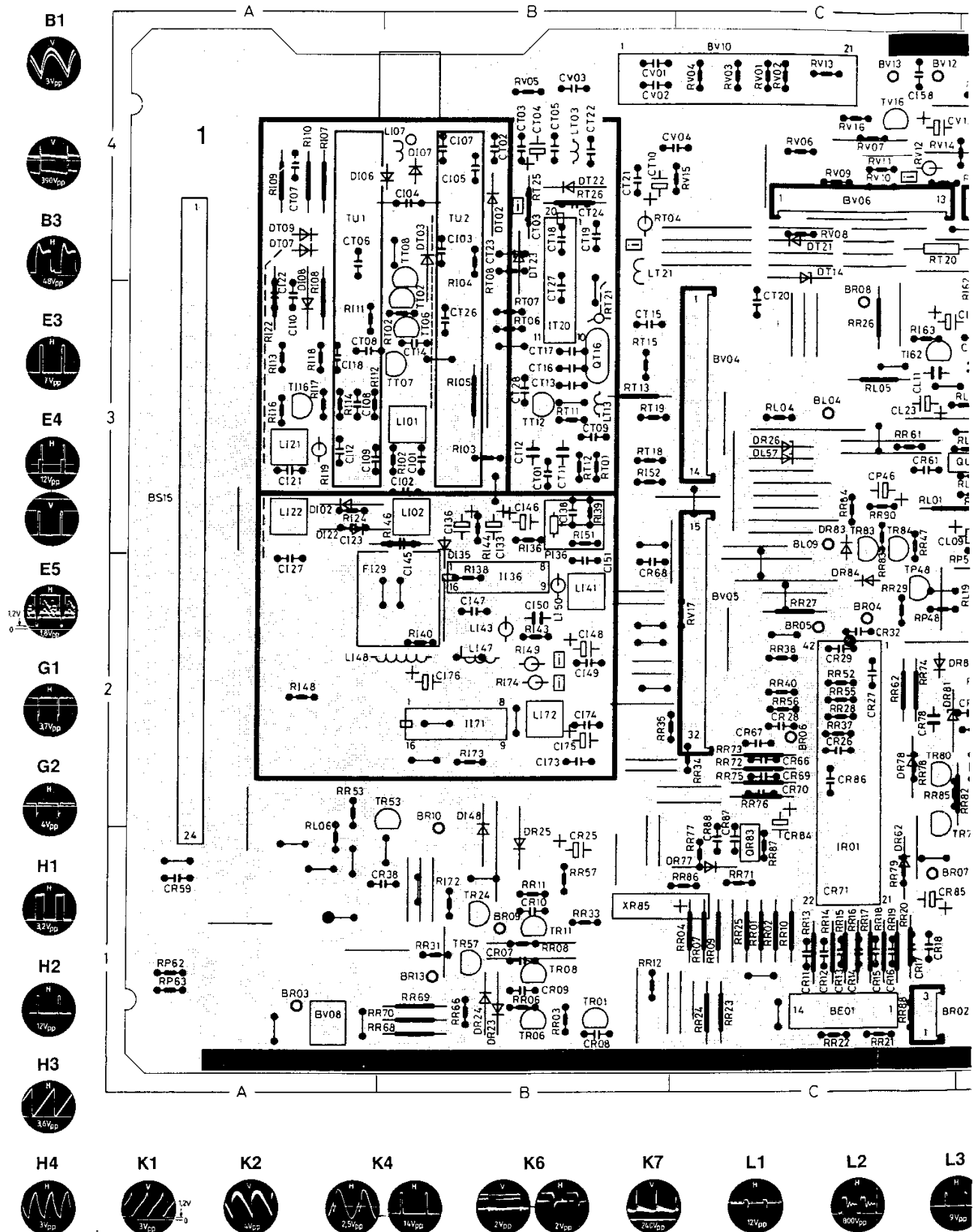


AM/FM SOUND



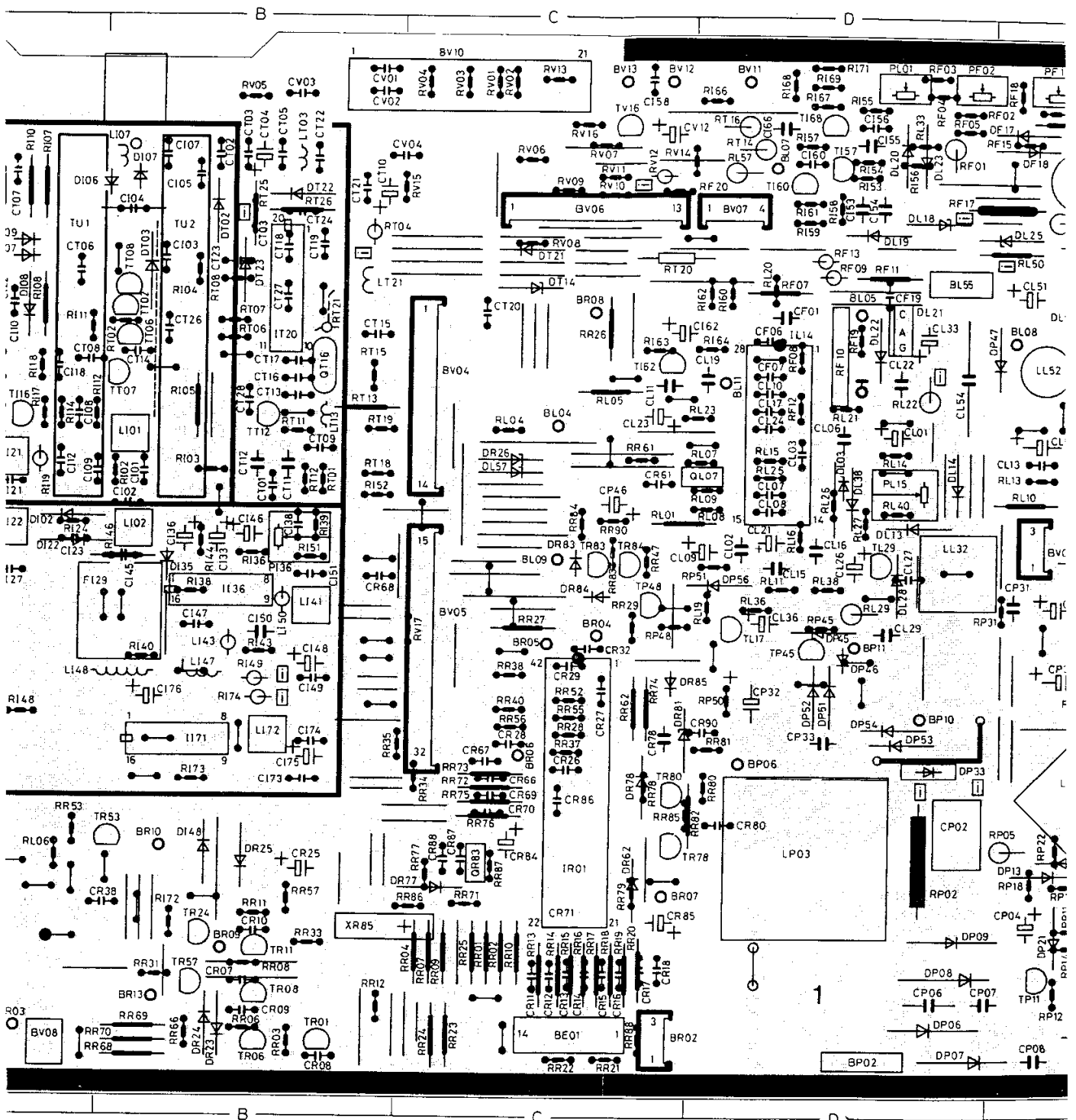
FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

PCB 1, Basic Board

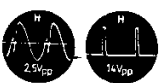


2-5

2-5



K4



K6



K7



L1



L2



L3



M1

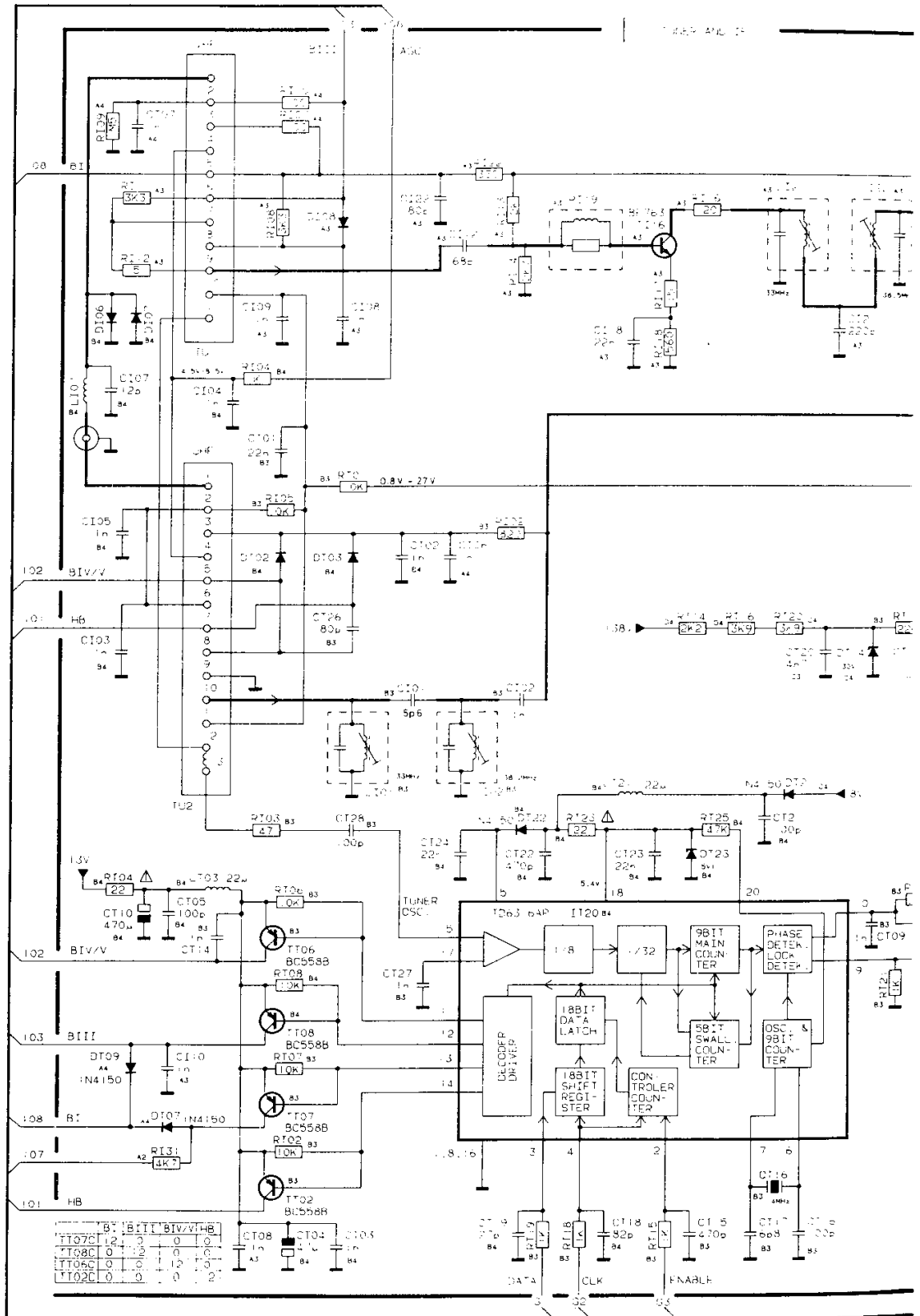


M2



M4





www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

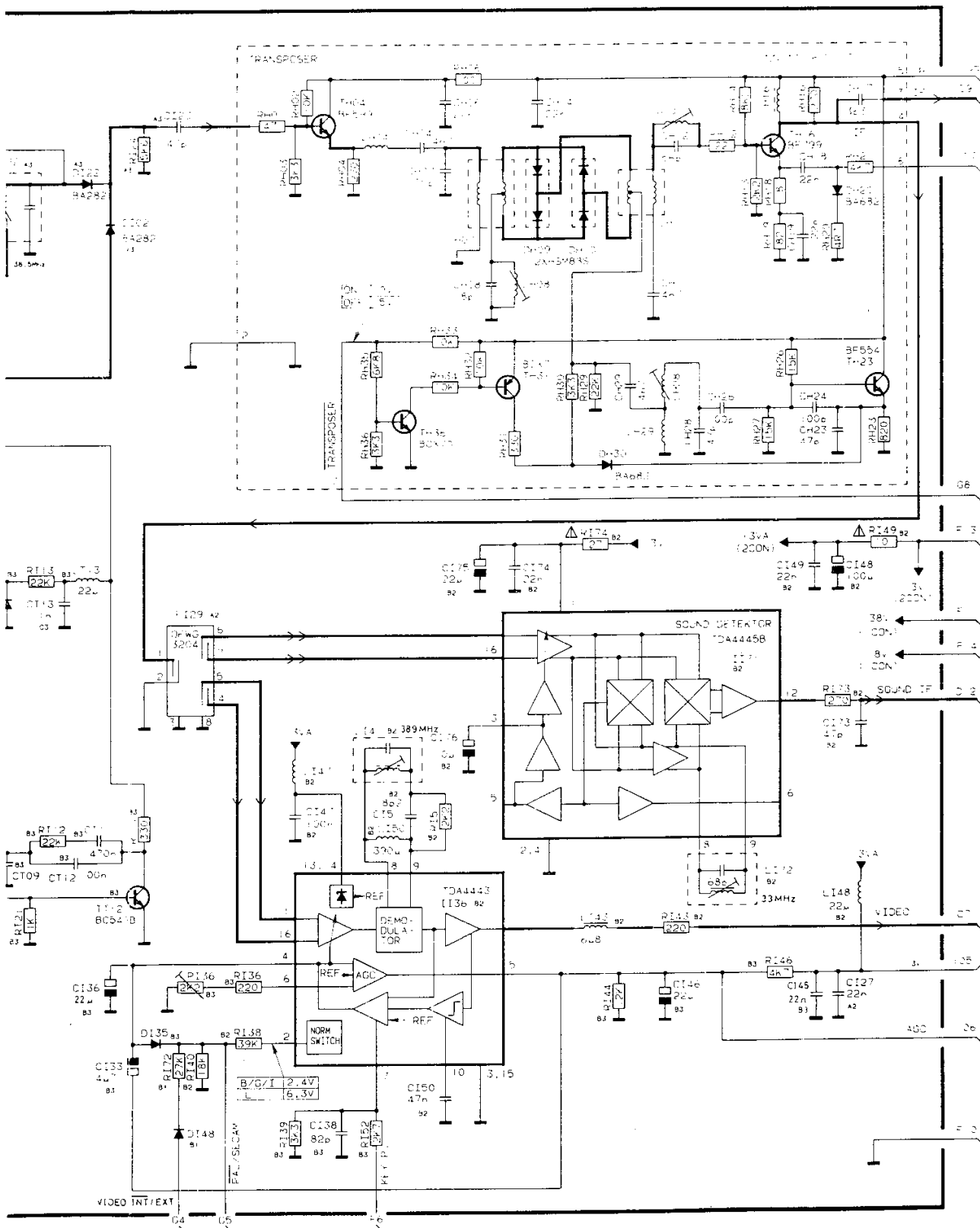
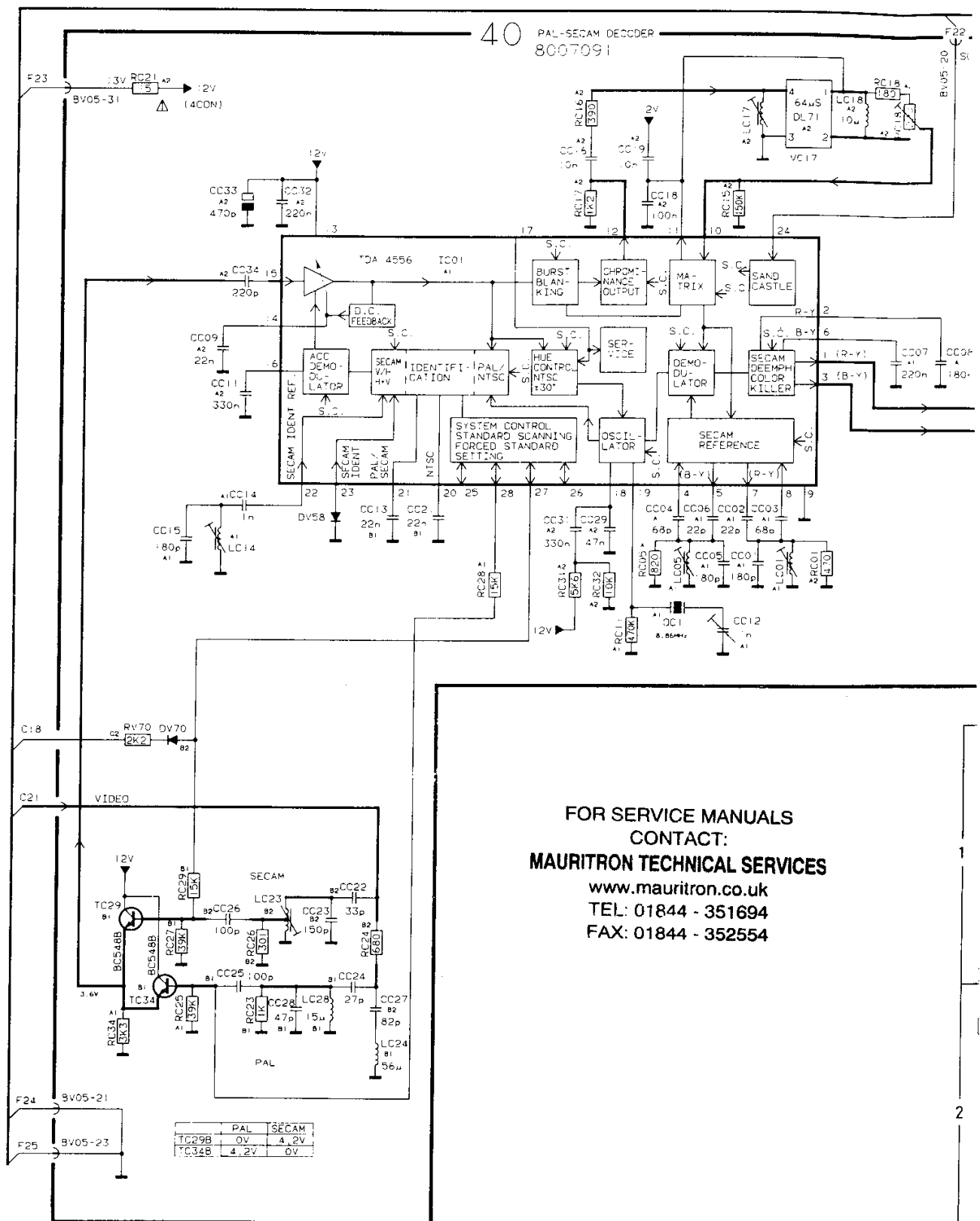
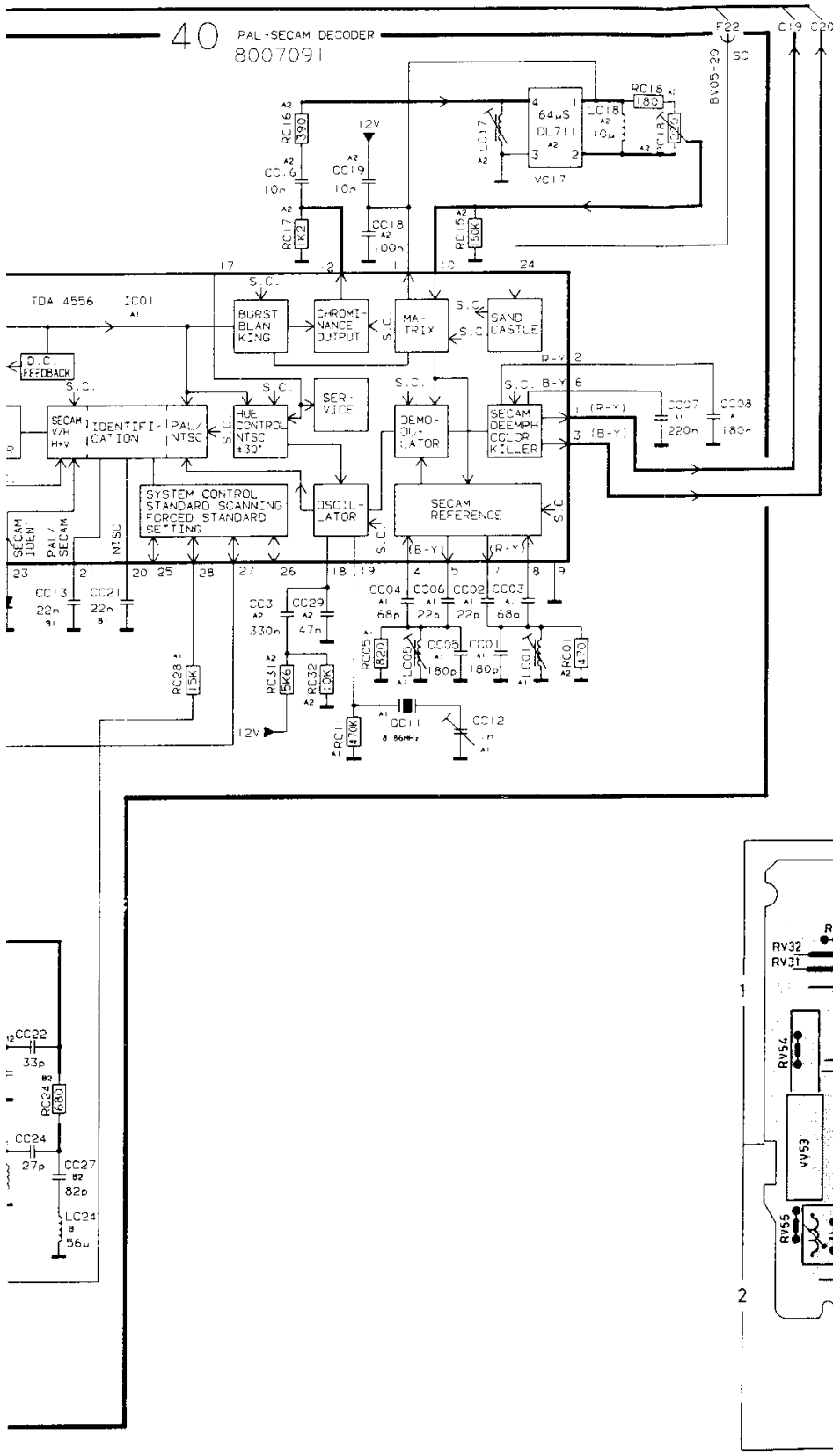


DIAGRAM B IF SYSTEM B/G/I/L



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



PCB40, PAL/SECAM DECODER

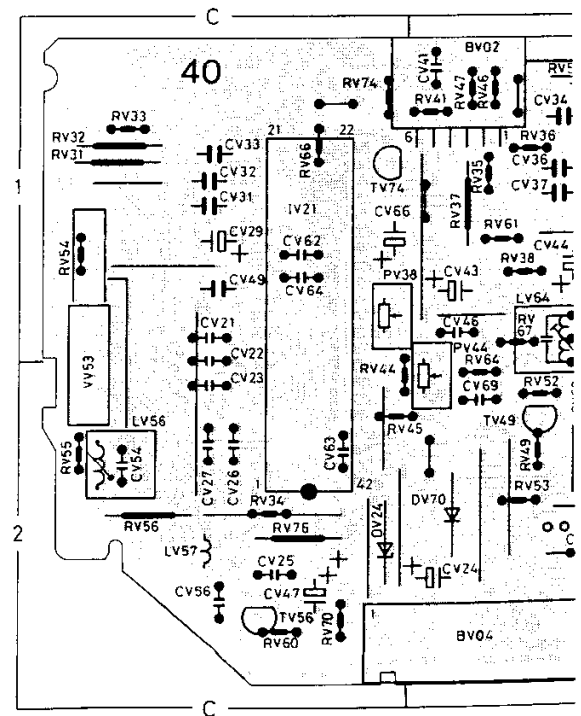
A1

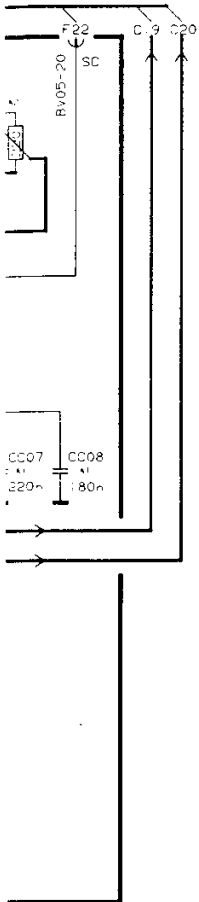


A2



A3





FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

PCB40, PAL/SECAM DECODER

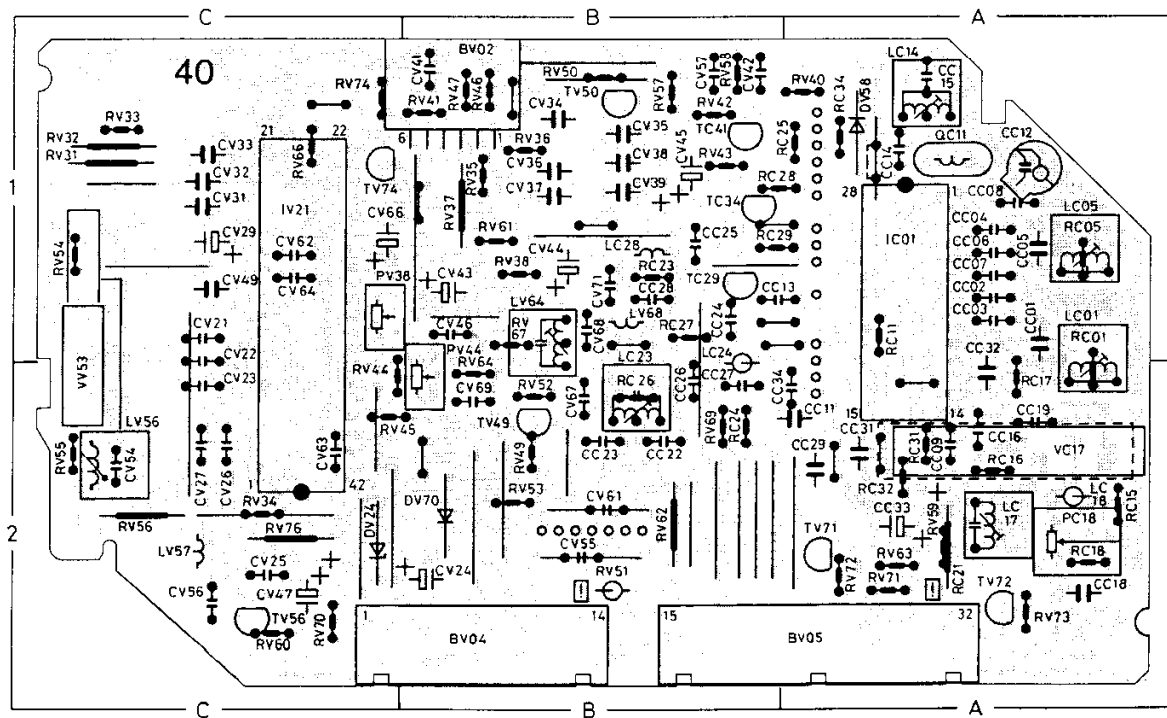
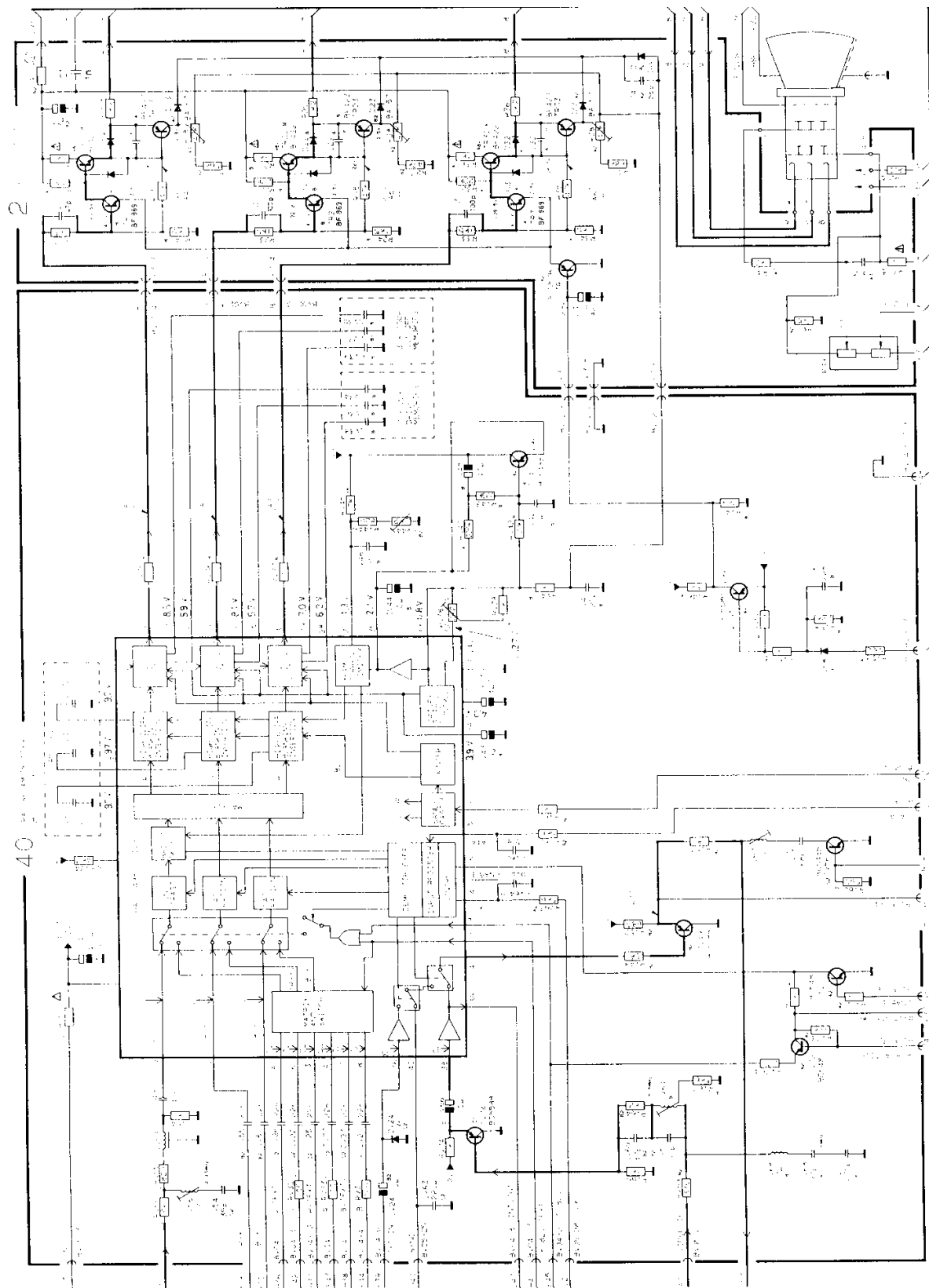


DIAGRAM C PAL/SECAM DECODER, VIDEO OUTPUT



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

AGRAM D STEREO DECODER, SOUND CONTROLS

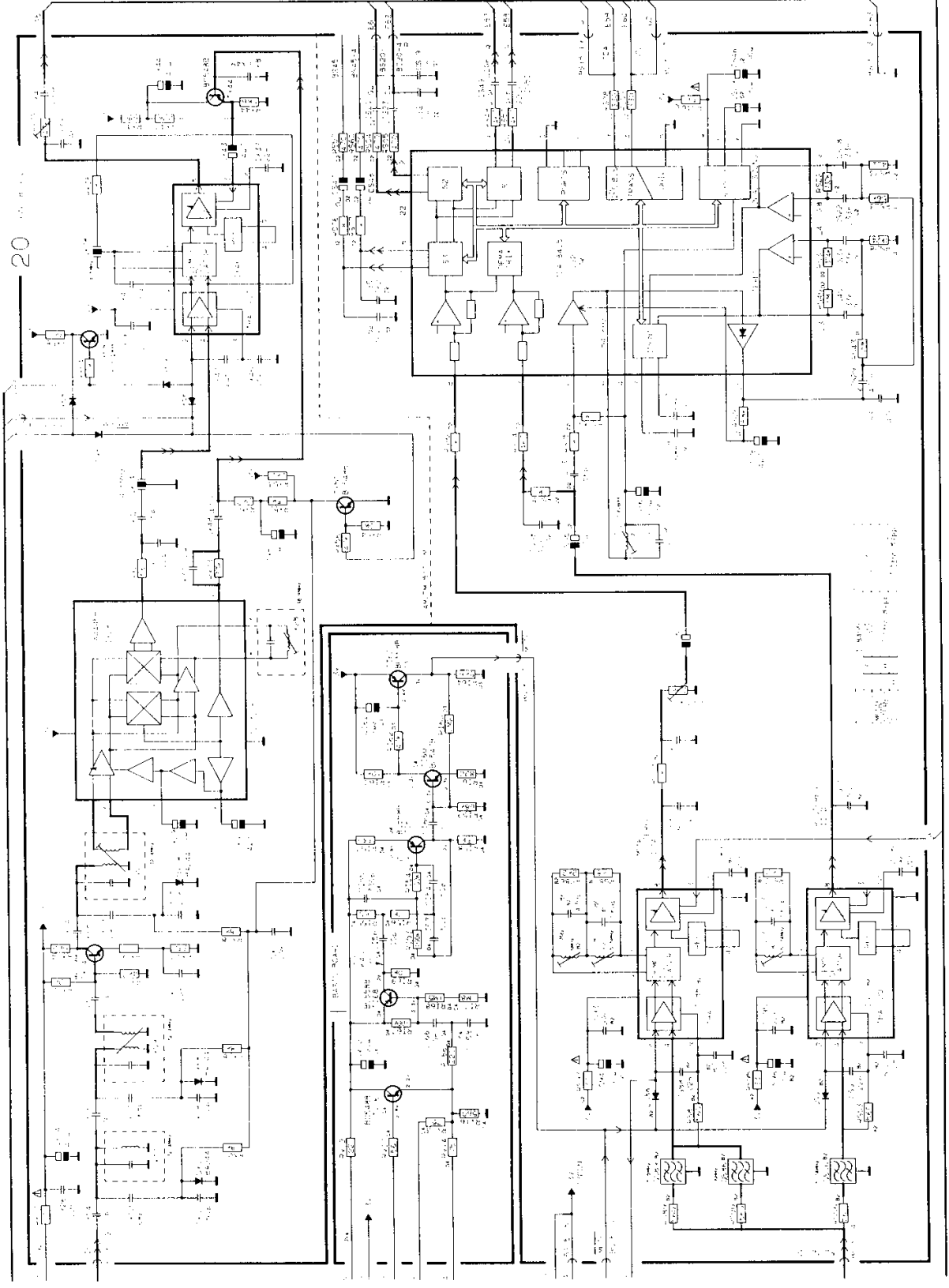
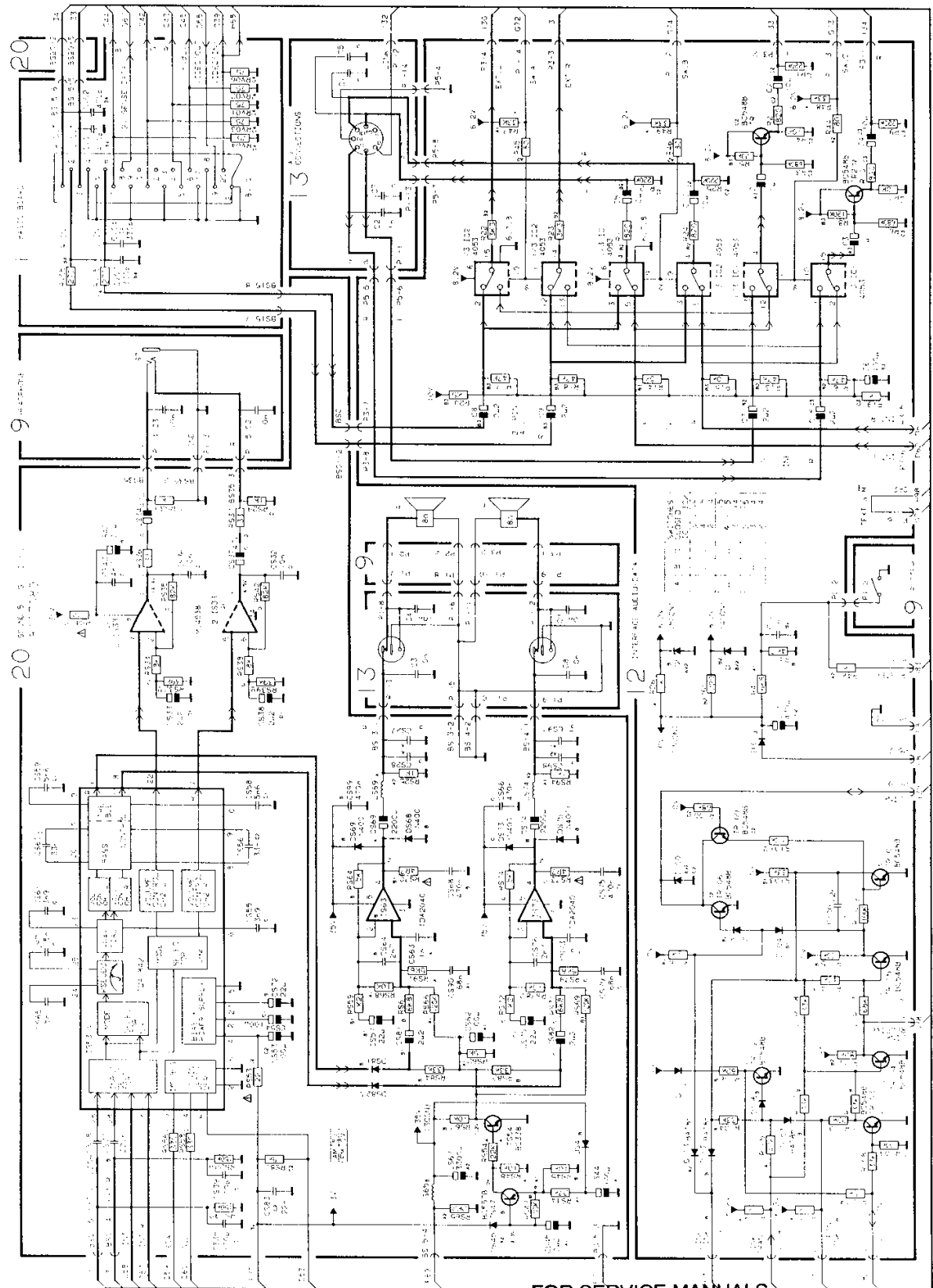


DIAGRAM E AF-AMPLIFIER, LINK INTERFACE A/V CONNECTIONS



FOR SERVICE MANUALS

CONTACT:

MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

1 F POWER SUPPLY, DEFLECTION

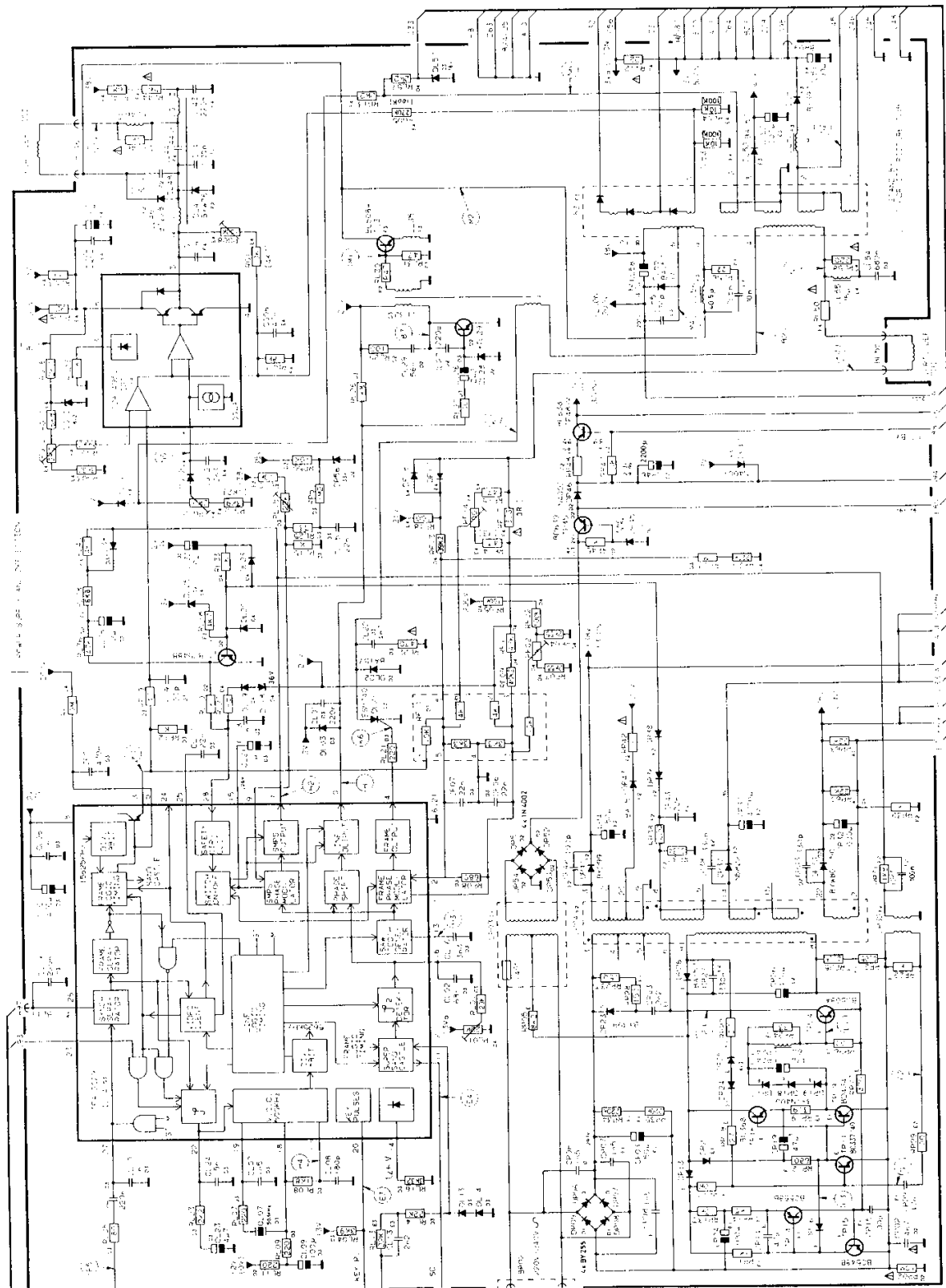
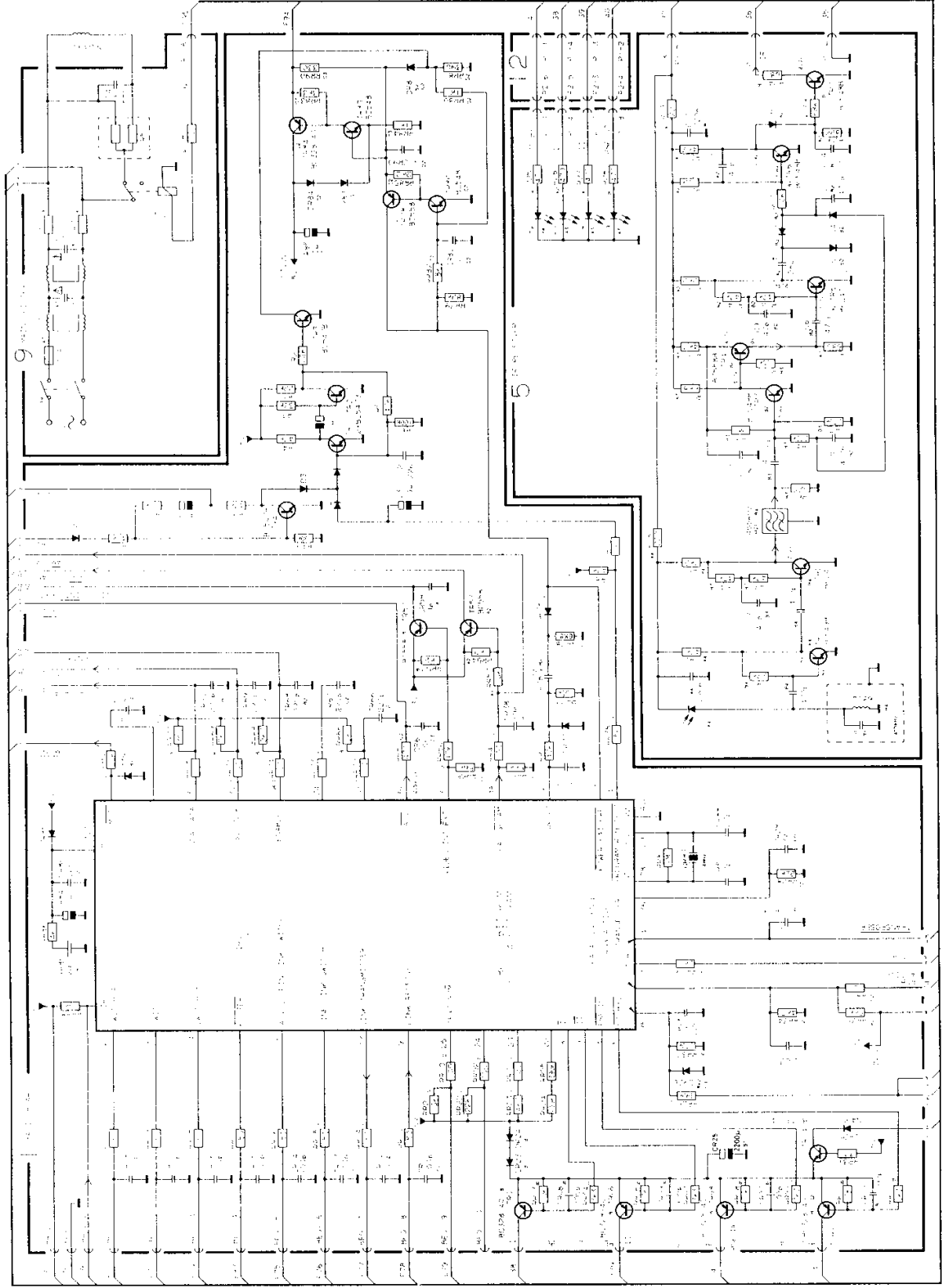
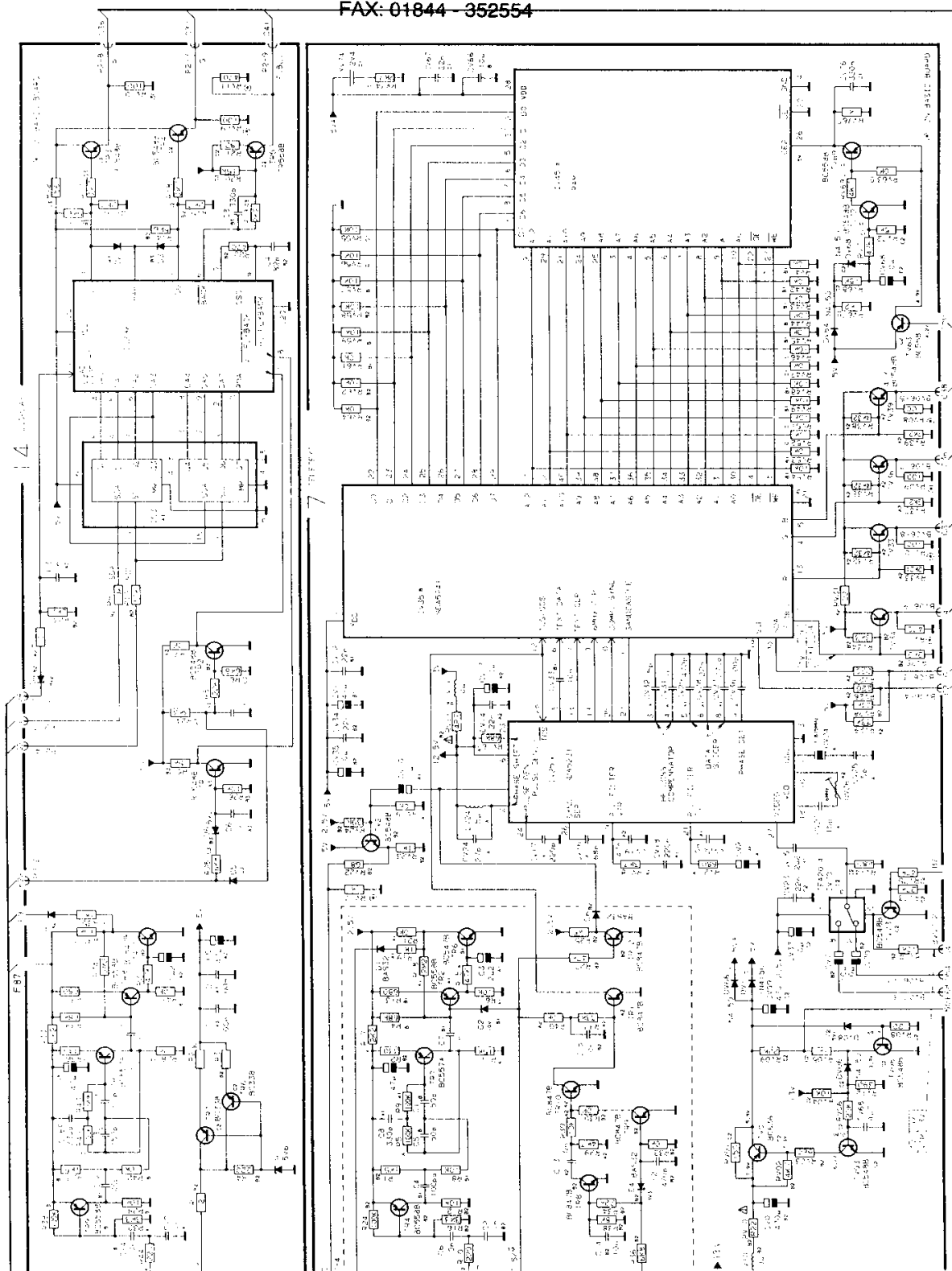


DIAGRAM G IR-RECEIVER, CONTROL, MAINS SWITCH



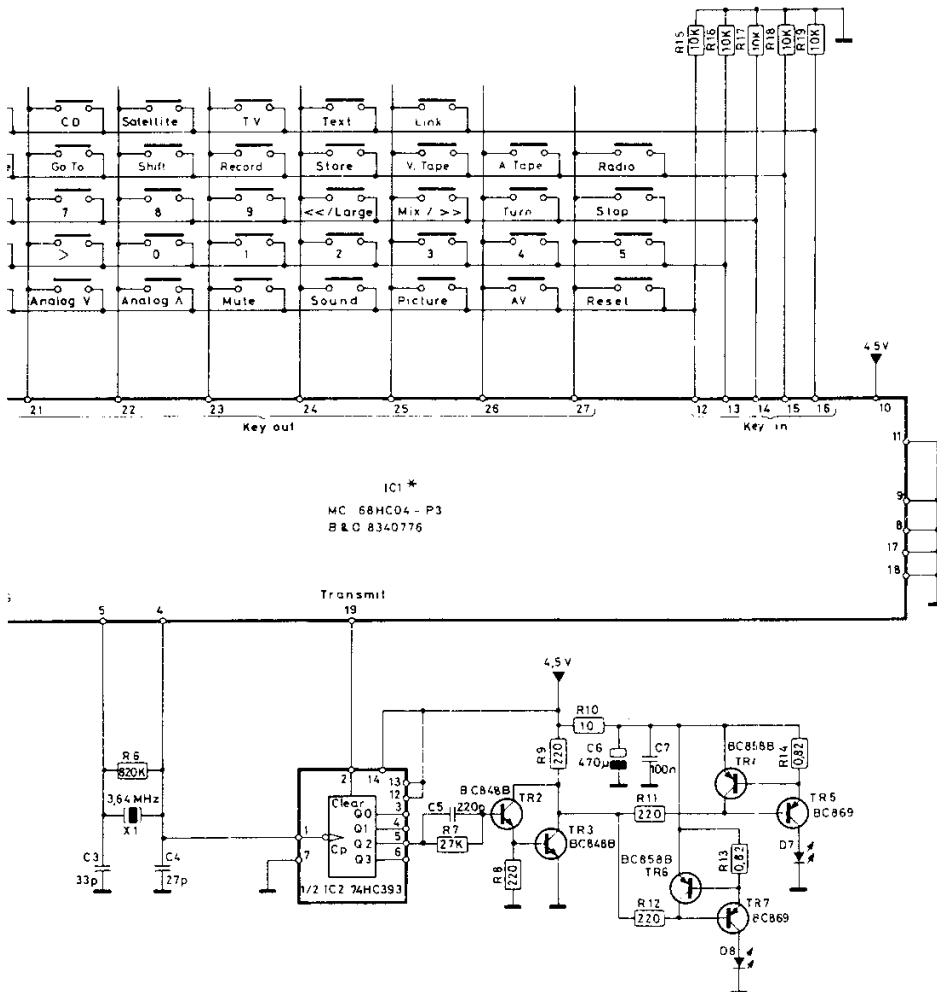
TELETEXT DECODER, DISPLAY (PC814 can be in set only if there is no teletext decoder)

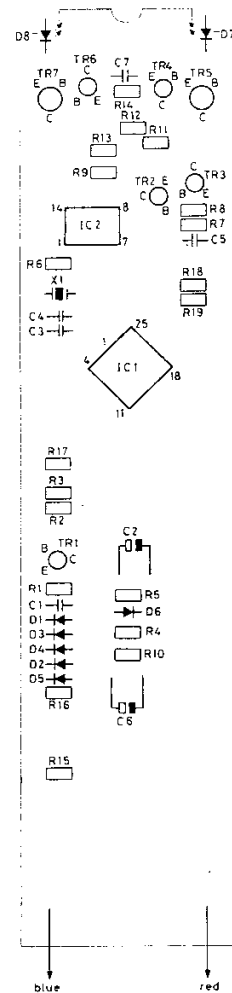
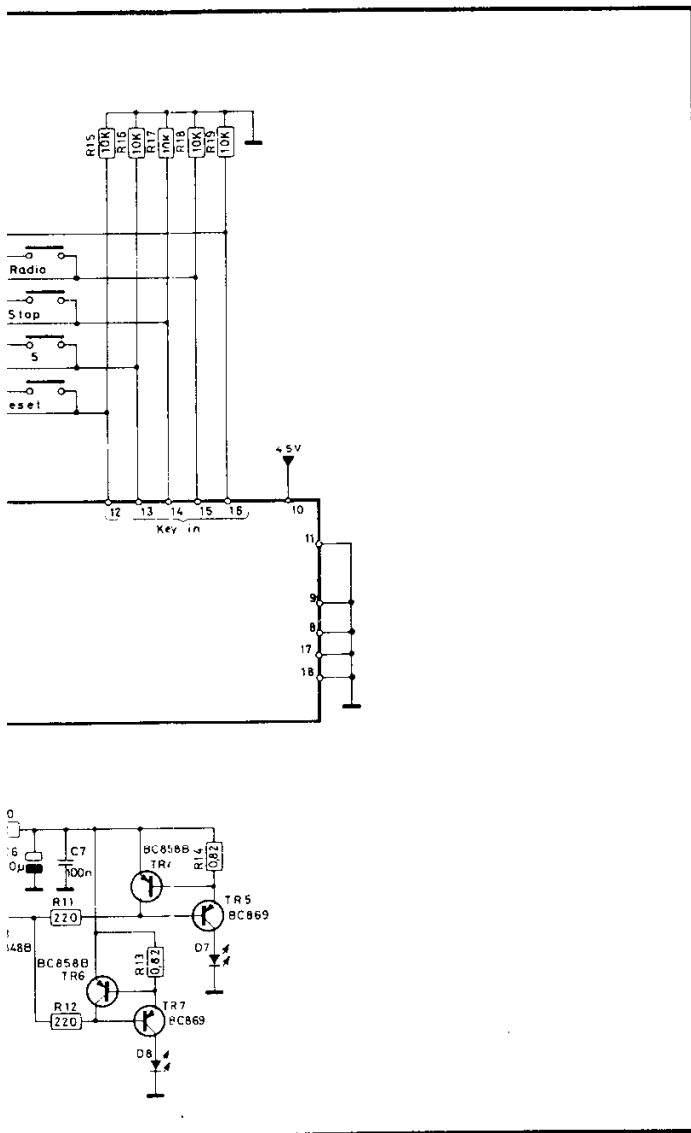


CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



50 GB = 8930130
I = 8930150
Bealink 1000 terminal





FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

LIST OF ELECTRICAL PARTS

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

PCB 1, 8053219 Basic Board
f/ITT picture tube, see page 7-1
PCB 1, 8053272 Basic Board
f/VC picture tube, see page 7-1

IG01 8341199 136 TDA 8145

IH36 8341107 136 TDA 4443

IH71 8341115 136 TDA 4445B

IL14Δ 8341108 136 TEA 2029

IR01Δ 8341123 136 HD 404918 w/Teletext

Δ 8341124 136 HD 404918 w/Display

IT20Δ 8341109 136 TD 6316 B

TI16 8320782 58 BF 763

TI57* 8320783 20 BC 558A

TI60 8320497 20 BC 547B

TI62 8320510 20 BC 558B

TI68 8320510 20 BC 558B

TL17 8320510 20 BC 558B

TL29* 8320797 17 BC 639

TL31* 8320800 39 BU 508A

TP11 8320595 20 BC 337-40

TP14 8320510 20 BC 558B

TP15 8320509 20 BC 548B

TP16 8320626 17 BC 368

TP19 8320781 32 BD 434

TP24* 8320800 39 BU 508A

TP45 8320430 17 BC 639

TP48 8320391 17 BC 638

TR01 8320784 20 BC 328-40

TR06 8320784 20 BC 328-40

TR08 8320784 20 BC 328-40

TR11 8320784 20 BC 328-40

TR24 8320595 20 BC 337-40

TR53 8320510 20 BC 558B

TR57 8320510 20 BC 558B

TR78 8320510 20 BC 558B

TR80 8320509 20 BC 548B

TR83 8320509 20 BC 548B

TR84 8320784 20 BC 328-40

TT02 8320510 20 BC 558B

TT06- 8320510 20 BC 558B

TT08

TT12 8320497 20 BC 547B

TV16 8320509 20 BC 548B

DF17 8300058 209 1N 4148

DF18 8300058 209 1N 4148

DG10 8300173 209 ZPD 8.2

DG12 8300058 209 1N 4148

DG13 8300058 209 1N 4148

DI02 8300618 209 BA 282

DI06- 8300058 209 1N 4148

DI08

DI22 8300618 209 BA 282

DI35 8300058 209 1N 4148

DI48 8300058 209 1N 4148

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

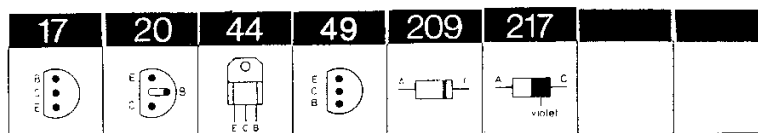
Δ indicates that static electricity may destroy the component.

* Specially selected or adapted sample.

DL03	8300058	209	1N 4148	DL25	8300181	218	BA 220
DL06	8300058	209	1N 4148	DL28	8300058	209	1N 4148
DL13	8300058	209	1N 4148	DL38	8300058	209	1N 4148
DL14	8300058	209	1N 4148	DL41	8300610	208	BYW 76
DL18	8300350	209	ZPD 36V	DL46	8300304	221	BY 228
DL19	8300058	209	1N 4148	DL51	8300611	209	BY 397
DL20	8300058	209	1N 4148	DL52	8300518	217	BA 157
DL21	8300488	202	ESM 740	DL55	8300518	217	BA 157
DL22	8300518	217	BA 157	DL57	8300619	209	ZPD 16
DL23	8300058	209	1N 4148				
DP06-	8300612	209	BY 255	DP36	8300058	209	1N 4148
DP09				DP37	8300616	209	1N 5822
DP13	8300058	209	1N 4148	DP38	8300058	209	1N 4148
DP16	8300058	209	1N 4148	DP41	8300613	209	BY 399
DP17-	8300023	209	1N 4002	DP43	8300518	217	BA 157
DP19				DP45	8300189	209	ZTK 11
DP21	8300518	217	BA 157	DP46	8300023	209	1N 4002
DP23	8300613	209	BY 399	DP47	8300023	209	1N 4002
DP24	8300058	209	1N 4148	DP51-	8300023	209	1N 4002
DP25	8300620	209	ZPD 4.3V 2%	DP54			
DP26	8300518	217	BA 157	DP56	8300727	209	ZPD 33V
DP33	8300614	221	BYW 80-150				
DR23	8300058	209	1N 4148	DR77	8300058	209	1N 4148
DR24	8300058	209	1N 4148	DR78	8300058	209	1N 4148
DR25	8300023	209	1N 4002	DR81	8300479	209	ZPD 5.1V
DR26	8300173	209	ZPD 8.2V	DR83-	8300058	209	1N 4148
DR62	8300173	209	ZPD 8.2V	DR85			
DT02	8300058	209	1N 4148	DT14	8300210	209	ZPD 30V
DT03	8300058	209	1N 4148	DT21	8300498	215	1N 4150
DT07	8300498	215	1N 4150	DT22	8300498	215	1N 4150
DT09	8300498	215	1N 4150	DT23	8300479	209	ZPD 5.1V
RF01	5011615	3 M Ω 5% 1/2W		RF13	5021250	39.2 k Ω 1%	
RF03	5020228	8.87 k Ω 1% 1/4W		RF17	5011614	3.3 Ω 5% f/VC	
RF04	5020212	4.02 k Ω 1% 1/4W				picture tube	
RF09	5021072	40.2 k Ω 1% 1/4W			5011622	3 Ω f/ITT picture tube	
RF10	5030031	Resistor network					
RG01	5020362	56.2 k Ω 1% 1/4W		RG08	5021061	22 Ω 5% 0.4W	
RG03	5020291	3.32 k Ω 1% 1/4W					
RI19	5011613	Resistor w/coil		RI54	5020263	100 k Ω 1% 1/4W	
RI49	5021067	10 Ω 5% 0.3W		RI56	5020110	10 k Ω 1% 1/4W	
RI53	5020263	100 k Ω 1% 1/4W		RI74	5020462	27 Ω 5% 0.3W	
RL10	5020263	100 k Ω 1% 1/4W		RL46	5021063	1 k Ω 10% 0.5W	
RL16	5020291	3.32 k Ω 1% 1/4W		RL50	5020755	1 Ω 10% 0.3W	
RL22	5020738	470 Ω 5% 0.3W		RL53	5100357	150 Ω 5% 2W	
RL29	5020709	100 Ω 5% 2W		RL56	5020543	22 Ω 5% 2W	
RL30	5100203	0.47 Ω 10% 2W		RL57	5011034	2.2 k Ω 5% 1/2W	
RL42	5020547	68 Ω 5% 2W		RL58	5021065	220 Ω 10% 0.5W	
RL44	5021062	56 Ω 5% 0.3W					
RP02	5021098	10 M Ω 5% 1W		RP25	5100359	0.05 Ω	
RP05	5104023	8.2 k Ω 5% 3W		RP28	5100360	150 Ω 5% 7W	
RP19	5100358	3.9 Ω 5% 3W		RP37	5100362	0.034 Ω	
RP21	5100359	0.05 Ω		RP42	5021064	1 Ω 10% 0.3W	
RP23	5100360	150 Ω 5% 7W					
RT04	5021068	22 Ω 5% 0.3W		RT20	5002028	2.2 k Ω 10% 1W	
RT14	5011749	3.9 k Ω 5% 1W		RT23	5021066	22 Ω 10% 0.3W	
RT16	5011749	3.9 k Ω 5% 1W					
RV12	5021068	22 Ω 5% 0.3W					
PF02	5370372	1 k Ω 20%		PF14	5370306	47 Ω 20%	
PG02	5370308	2.2 k Ω 20%		PG12	5370308	2.2 k Ω 20%	
PG08	5370310	100 k Ω 20%					
P136	5370376	2.2 k Ω 20%					
PL01	5370377	22 k Ω 20%		PL15	5370378	22 k Ω 20%	

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

CF01	4130438 470 nF 5% 63V	CF07	4130193 22 nF 20% 63V
CF06	4130193 22 nF 20% 63V	CF19	4000176 100 pF 5% 63V
CG01	4200561 10 µF 20% 50V	CG11	4010105 1 nF 10% 63V
CG02	4130311 680 nF 10% 63V	CG12	4100238 3.3 nF 5% 63V
CG06	4130235 47 nF 20% 63V		
CI01	4000086 5.6 pF ±0.25 pF 63V	CI47	4130230 100 nF 20% 63V
CI02	4010027 1 nF 10% 63V	CI48	4200129 100 µF -20+50% 16V
CI05		CI49	4130193 22 nF 20% 63V
CI07	4000177 12 pF 5% 63V	CI50	4130235 47 nF 20% 63V
CI08	4010027 1 nF 10% 63V	CI51	4000363 47 pF 2% 63V
CI10		CI53	4000135 150 pF 5% 63V
CI12	4000215 68 pF 5% 63V	CI54	4000135 150 pF 5% 63V
CI18	4130193 22 nF 20% 63V	CI55	4100228 330 pF 5% 63V
CI21	4000160 220 pF 5% 63V	CI56	4000176 100 pF 5% 63V
CI22	4100244 180 pF 5% 63V	CI58	4010027 1 nF 10% 63V
CI23	4000057 47 pF 5% 63V	CI60	4010027 1 nF 10% 63V
CI27	4130193 22 nF 20% 63V	CI62	4200517 2.2 µF 20% 50V
CI33	4200515 4.7 µF 20% 25V	CI66	4010106 10 nF -20+80% 40V
CI36	4200508 22 µF 20% 25V	CI73	4000057 47 pF 5% 63V
CI38	4000200 82 pF 5% 63V	CI74	4130193 22 nF 20% 63V
CI45	4130193 22 nF 20% 63V	CI75	4200544 22 µF 20% 16V
CI46	4200508 22 µF 20% 25V	CI76	4200561 10 µF 20% 50V
CL01	4200395 470 µF -10+50% 16V	CL26	4200517 2.2 µF 20% 50V
CL02	4130264 68 nF 10% 63V	CL27	4000160 220 pF 5% 63V
CL03	4000160 220 pF 5% 63V	CL29	4130382 56 nF 5% 63V
CL06	4010027 1 nF 10% 63V	CL33	4200510 10 µF 20% 16V
CL07	4100210 1.5 nF 5% 63V	CL36	4200488 22 µF 20% 25V
CL08	4100244 180 pF 5% 63V	CL41	4130439 20 nF 5% 400V
CL09	4200129 100 µF -20+50% 16V	CL43	4130437 220 nF 5% 250V
CL10	4010027 1 nF 10% 63V	CL44	4130436 440 nF 5% 250V
CL11	4130226 220 nF 10% 63V	CL48	4130435 11 nF 3.5% 1500V f/VC picture tube
CL13	4010188 2.2 nF 10% 63V		4130429 12 nF 2.5% 1500V f/ITT picture tube
CL15	4130216 22 nF 10% 63V	CL51	4200512 1000 µF 16V
CL16	4130440 3.3 nF 2.5%	CL52	4200622 1000 µF 40V
CL17	4130193 22 nF 20% 63V	CL54	4130163 680 nF 10% 250V
CL18	4010027 1 nF 10% 63V	CL55	4130434 330 pF 1000V
CL19	4130226 220 nF 10% 63V	CL56	4130441 10 nF
CL21	4200426 1 µF 20% 50V	CL58	4200584 47 µF 20% 100V
CL22	4010141 4.7 nF 10% 500V		
CL23	4200515 4.7 µF 20% 25V		
CL24	4130315 15 nF 5% 63V		
CP02	4020012 4.7 nF 20% 400V	CP27	4010062 330 pF 10% 63V
CP03	4200609 150 µF -20+50% 385V	CP29	4130235 47 nF 20% 63V
CP04	4200403 100 µF -10+100% 25V	CP31	4130230 100 nF 20% 63V
CP06	4130433 1.5 nF 1 kV	CP32	4200810 1000 µF 63V
CP07	4130432 1.5 nF 1 kV	CP33	4130434 330 pF 1000V
CP08	4130432 1.5 nF 1 kV	CP37	4200811 4700 µF 25V
CP14	4000057 47 pF 5% 63V	CP38	4010062 330 pF 10% 63V
CP15	4000176 100 pF 5% 63V	CP41	4200812 150 µF 150V
CP19	4200516 47 µF 20% 16V	CP42	4130430 100 pF 1 kV
CP23	4130431 2.2 nF 20% 1 kV	CP43	4130193 22 nF 20% 63V
CP24	4200584 47 µF 20% 100V	CP46	4200813 2200 µF 16V
CP26	4200704 470 µF 20% 25V		
CR07	4000176 100 pF 5% 63V	CR71	4010027 1 nF 10% 63V
CR18		CR78	4130290 68 nF 20% 63V
CR25	4200813 2200 µF 16V	CR80	4010027 1 nF 10% 63V
CR26	4130193 22 nF 20% 63V	CR84	4200561 10 µF 20% 50V
CR27	4010027 1 nF 10% 63V	CR85	4200510 10 µF 20% 16V
CR29		CR86	4130193 22 nF 20% 63V
CR32	4000176 100 pF 5% 63V	CR87	4000244 27 pF 5% 50V
CR38	4130220 10 nF 5% 63V	CR88	4000244 27 pF 5% 50V
CR59	4010027 1 nF 10% 63V	CR90	4130193 22 nF 20% 63V
CR61	4130220 10 nF 5% 63V		
CR66	4000160 220 pF 5% 63V		
CR70			



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

CT01	4130193	22 nF 20% 63V	CT15	4010024	470 pF 10% 63V
CT02	4010027	1 nF 10% 63V	CT16	4000176	100 pF 5% 63V
CT03	4010027	1 nF 10% 63V	CT17	4000120	6.8 pF ± 0.25 pF 63V
CT04	4200516	47 μ F 20% 16V	CT18	4000200	82 pF 5% 63V
CT05	4000176	100 pF 5% 63V	CT19	4000244	27 pF 5% 50V
CT06	4010027	1 nF 10% 63V	CT20	4010063	4.7 nF 10% 63V
CT08			CT21	4000176	100 pF 5% 63V
CT10	4200600	470 μ F 20% 16V	CT22	4010024	470 pF 10% 63V
CT11	4130234	470 nF 10% 63V	CT24	4130193	22 nF 20% 63V
CT12	4130306	100 nF 10% 63V	CT26	4100244	180 pF 5% 63V
CT13	4010027	1 nF 10% 63V	CT27	4010027	1 nF 10% 63V
CT14	4010027	1 nF 10% 63V	CT28	4000176	100 pF 5% 63V
CV01	4010024	470 pF 10% 63V	CV04	4010062	330 pF 10% 63V
CV02	4010024	470 pF 10% 63V	CV12	4200403	100 μ F -10+100% 25V
CV03	4010062	330 pF 10% 63V			

LG11	8022285	Coil			
LI01	8022286	Coil 36 MHz	LI43	8020595	Coil 6.8 μ H
LI02	8022287	Coil 36 MHz	LI48	8022290	Coil 22 μ H
LI21	8022288	Coil 36 MHz	LI50	8022291	Coil 390 μ H
LI22	8022289	Coil 36 MHz	LI72	8022293	Coil 38.9 MHz
LI41	8022293	Coil 38.9 MHz			
LL32	8022292	Coil	LL53	8014087	Transformer
LL35	8022311	Coil 4 μ H	LL54	6710018	Ferrite core
LL46	8022312	Coil	LL55	8022314	Coil 75 μ H
LL52	8022313	Coil 11 μ H	LL56	8022315	Coil 40 μ H
LP03	8013418	Transformer	LP39	6710019	Ferrite core
LP04	8014088	Transformer	LP40	6710019	Ferrite core
LP24	8022316	Coil 6 μ H	LP43	6710019	Ferrite core
LP32	8014086	Transformer	LP44	6710019	Ferrite core
LT03	8022294	Coil 22 μ H	LT21	8022294	Coil 22 μ H
LT13	8022294	Coil 22 μ H			

FI29	8030617	Filter OFWG 3204 f/type 3140-3141
	8030081	Filter OFWG 3201 f/type 3143/44/45/46/47

QL07	8030084	Cer. res. 503 kHz
------	---------	-------------------

QR83	8030149	Cer. res. 4 MHz
------	---------	-----------------

QT16	8090079	Crystal 4 MHz
------	---------	---------------

TU1	8050115	VHF tuner
TU2	8050116	UHF tuner

XR85	8700024	Battery 2.4V
------	---------	--------------

BE01	7220551	Plug 14 pol
------	---------	-------------

BL04-	7500013	Contact pin	BL46	7500013	Contact pin
BL09			BL55	7500013	Contact pin
BL11	7500013	Contact pin			
BP02	7500013	Contact pin	BP10	7500013	Contact pin
BP06	7500013	Contact pin	BP11	7500013	Contact pin

BR02	7220462 Plug 3/3 pol	BR13	7500013 Contact pin
BR03- BR10	7500013 Contact pin		
BS15	7500013 Contact pin		
BV01	7220462 Plug 3/3 pol	BV07	7220739 Plug 4 pol
BV04	7220742 Plug 14 pol	BV10	7210750 Socket 21 pol scart
BV05	7220741 Plug 18 pol	BV11-	7500013 Contact pin
BV06	7220740 Plug 13 pol	BV13	

6275749 Mains cable w/holder
6270416 Focusable

Watch dog

TR1- 8320497 20 BC 547B
TR4

D1D4 8300058 209 1N 4148

C1 4200512 1 μ F 20% 50V
C2 4010107 22 nF -20+80% 40V
C3-C4 4200510 10 μ F 20% 16V

PCB 2, 8003823 Video Output

TR1	8320503	20	BC 557B	TR22	8320505	49	BF 422
TR11	8320440	44	BF 869	TR23*	8320631	17	BF 423
TR12	8320505	49	BF 422	TR31	8320440	44	BF 869
TR13*	8320631	17	BF 423	TR32	8320505	49	BF 422
TR21	8320440	44	BF 869	TR33*	8320631	17	BF 423

D1	8300194	209	Z20V 5%	D23	8300533	217	BA 157
D11-12	8300058	209	1N 4148	D31-32	8300058	209	1N 4148
D13	8300533	217	BA 157	D33	8300533	217	BA 157
D21-22	8300058	209	1N 4148				

FOR SERVICE MANUALS

CONTACT:

MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

R2	5020812	0.22 Ω	10% 0.4W	R25	5020774	47 k Ω	5% 1W
R3	5020495	10 Ω	10% 1W	R28	5370350	47 k Ω	20% 0.1W
R11	5020758	1 k Ω	5% 0.3W	R31	5020758	1 k Ω	5% 0.3W
R12	5020697	22 k Ω	5% 1W	R32	5020697	22 k Ω	5% 1W
R15	5020774	47 k Ω	5% 1W	R35	5020774	47 k Ω	5% 1W
R18	5370350	47 k Ω	20% 0.1W	R38	5370350	47 k Ω	20% 0.1W
R21	5020758	1 k Ω	5% 0.3W	R39	5390027	Focus + G2	
R22	5020697	22 k Ω	5% 1W				

C1	4010123	1 nF	10% 500V	C12	4010105	1 nF	10% 63V
C2	4200626	33 μ F	20% 250V	C21	4000204	100 pF	5% 63V
C3	4200628	100 μ F	20% 16V	C22	4010105	1 nF	10% 63V
C4	4000155	56 pF	5% 63V	C31	4000204	100 pF	5% 63V
C5	4010165	10 nF	20% 2kV	C32	4010105	1 nF	10% 63V
C11	4000362	56 pF	5% 63V				

S1 7200067 Socket/picture tube
7210635 Socket/focus

P1 7220428 Plug 6/6 pol
P2 7210273 Socket 6/6 pol
P3 7220624 Plug 6 pol
P4 7220625 Plug 3 pol

CP1 6031925 Lead to ground wire
CP2 6031926 Lead to chassis

* Specially selected or adapted sample.

17	20	42	51	103	136	209	215
241	244	250					

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

PCB 5, 8003829 IR-Receiver

TR1	8320627	20	BC 549B	TR4	8320510	20	BC 558B
TR2	8320625	42	BF 240	TR5	8320625	42	BF 240
TR3	8320509	20	BC 548B	TR67	8320509	20	BC 548B

D1	8330145	244	BPW 82
D2-5	8300058	209	1N 4148
D6-9	8330135	241	GL-1 HD202

C1-2	4010128	470 pF	10% 63V	C9	4000193	47 pF	5% 63V
C3	4000193	47 pF	5% 63V	C10	4010128	470 pF	10% 63V
C4	4000139	100 pF	5% 63V	C11-12	4130233	220 nF	20% 63V
C5	4130313	470 nF	20% 63V	C13	4000193	47 pF	5% 63V
C6	4010128	470 pF	10% 63V	C14	4130315	15 nF	5% 63V
C7-8	4010103	2.2 nF	10% 63V				

L1	8020562	Coil	455 kHz
----	---------	------	---------

BP1	8030056	455 kHz	±1 kHz
-----	---------	---------	--------

P1	7220632	Plug	8 pol
----	---------	------	-------

PCB 7, 8003914 Teletext

IV25Δ	8340720	136	SDA 5231	IV45Δ	8340885	136	HM 6264 LP-15
IV35Δ	8341068	136	SAA 5243	IV70	8340767	103	TEA 2014

TR2	8320510	20	BC 558B	TR7	8320202	20	BC 557A
TR4	8320510	20	BC 558B	TR8-12	8320755	51	BC 847B
TR6	8320497	20	BC 547B				

TV01	8320632	17	BC 636	TV36	8320509	20	BC 548B
TV03	8320509	20	BC 548B	TV39	8320509	20	BC 548B
TV06	8320509	20	BC 548B	TV63	8320510	20	BC 558B
TV21	8320509	20	BC 548B	TV69	8320510	20	BC 558B
TV33	8320509	20	BC 548B	TV72	8320509	20	BC 548B
TV34	8320509	20	BC 548B	TV73	8320509	20	BC 548B

D1	8300482	250	LL 4148	D4	8300607	250	Z 3.3V 5%
D2	8300605	250	Z 10V 5%	D6	8300482	250	LL 4148

DV06	8300498	215	1N 4150	DV64	8300058	209	1N 4148
DV08	8300479	209	ZPD 5.1V 2%	DV66	8300498	215	1N 4150
DV11	8300498	215	1N 4150	DV68	8300498	215	1N 4150

RV10	5020812	0.22 Ω	10% 0.4W
RV11	5020657	4.7 Ω	10% 0.35W

Δ indicates that static electricity may destroy the component.

C1	4000135 150 pF 5% 63V	C7	4010105 1 nF 10% 63V
C2	4000342 1 nF 10% 50V	C8	4010118 330 pF 10% 63V
C3	4200517 2.2 µF 20% 50V	C9	4200516 47 µF 20% 16V
C4	4000243 100 pF 5% 63V	C12	4000236 470 pF 10% 50V
C5	4000135 150 pF 5% 63V	C13-15	4010041 10 nF -20+80% 40V
C6	4010142 10 nF -20+80% 40V		

CV01	4200395 470 µF -10+50% 16V	CV25	4000133 15 pF 5% 63V
CV06	4200544 22 µF 20% 16V	CV27	4010081 270 pF 10% 63V
CV09	4200483 47 µF 20% 16V	CV28	4130193 22 nF 20% 63V
CV10	4200380 1 µF -20+50% 63V	CV29	4010024 470 pF 10% 63V
CV11	4200483 47 µF 20% 16V	CV31	4010027 1 nF 10% 63V
CV12	4130193 22 nF 20% 63V	CV32	4000133 15 pF 5% 63V
CV13	4200487 10 µF 20% 50V	CV33	4130220 10 nF 5% 63V
CV14	4130193 22 nF 20% 63V	CV34	4130193 22 nF 20% 63V
CV15	4201069 2.2 µF 20% 35V	CV35	4200510 10 µF 20% 16V
CV16	4130270 68 nF 5% 63V	CV36	4000176 100 pF 5% 50V
CV17	4000160 220 pF 5% 63V	CV37	4200510 10 µF 20% 16V
CV18	4130308 220 nF 10% 63V	CV66	4200510 10 µF 20% 16V
CV19	4130223 47 nF 10% 63V	CV67	4130193 22 nF 20% 63V
CV20	4000030 15 pF 5% 63V	CV68	4200484 10 µF 20% 25V
CV21	4200519 1 µF 20% 35V	CV70	4200510 10 µF 20% 16V
CV22	4010106 10 nF -10+80% 40V	CV71	4200510 10 µF 20% 16V
CV23	4130193 22 nF 20% 63V	CV76	4130346 330 nF 10% 63V
CV24	4000244 27 pF 5% 50V		

LV10	8020582 Coil 10 µH
LV11	8020582 Coil 10 µH
LV24	8020554 Coil 15 µH

QV24	8090041 Crystal 13.87 MHz
QV26	8020930 Coil 35 µH

XV74	8700018 Battery 2.4V
------	----------------------

BV06	7210627 Socket 13 pol	BV11	7500013 Contact pin
BV07	7210628 Socket 4 pol		

R1	5011209 10 MΩ 5% 1/2W
R2	5020877 12 Ω 10% 0.25W
R5	5230009 PTC 40 + 1000 Ω 265V

C1	4130279 100 nF 20% 275V
C2-3	4010041 10 nF -20+80% 40V
C4	4130100 68 nF 10% 250V

L1-2	8022268 Coil 2 x 36mH
L3	8022269 Coil 2 x 0.4mH

RL1	7600090 Relay 12V
-----	-------------------

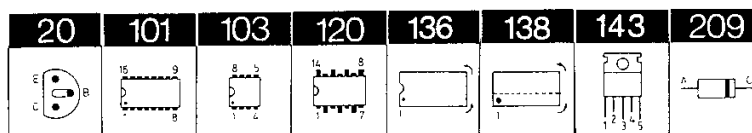
F1	6600009 Fuse 2A-T/250V
	7200066 Fuse holder

S6	7400318 Switch 1 pol
----	----------------------

P1	7220630 Plug 10 pol
P2-3	7220424 Plug 2/2 pol
P7	7210386 Jack socket

**FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES**
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

**PCB 9, 8003824 P-Step/
Mains Filter**
**PCB 9, 8003905 P-Step/
Mains Filter Australia**



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

PCB 12, 8003830 Interface Audio/Data

IC1-2 8340340 101 CD 4053 BCN

TR1-2 8320509 20 BC 548B
TR100- 8320509 20 BC 548B
106

D1	8300173	209	Z8.2V 5%	D102	8300544	209	BAT 85
D2	8300201	209	Z6.2V 5%	D103	8300544	209	BAT 85
D3	8300058	209	1N 4148	D104-	8300058	209	1N 4148
D100	8300201	209	Z6.2V 5%	106			
D101	8300058	209	1N 4148	D107	8300544	209	BAT 85

C1	4200512	1	μF 20% 50V	C10	4200510	10	μF 20% 16V
C2	4200510	10	μF 20% 16V	C11	4200395	470	μF -10+50% 16V
C3	4200512	1	μF 20% 50V	C14	4010105	1	nF 10% 63V
C4-5	4200510	10	μF 20% 16V	C15	4200517	2.2	μF 20% 50V
C6	4200628	100	μF 20% 16V	C100	4130262	22	nF 20% 63V
C7-9	4200517	2.2	μF 20% 50V				

P1	7220551	Plug 14 pol	P3	7220319	Plug 8 pol
P2	7220318	Plug 6 pol	P5	7220629	Plug 9 pol

CP2 7500013 Contact plug

PCB 13, 8003831 A/V Connections

C1-8 4010041 10 nF -20+80% 40V

P1 7220439 Plug 14/14 poi

PCB 14, 8003828 Display

IC1 8340175 101 CD 4015 CN
IC2 8340721 138 MB 88303

TR1-4	8320509	20	BC 548B	TR8-9	8320510	20	BC 558B
TR5	8320510	20	BC 558B	TR10	8320497	20	BC 547B
TR6-7	8320512	20	BC 338-25	TR11	8320202	20	BC 557A

D1	8300296	209	Z5.6V 2%	D5	8300058	209	1N 4148
D2-3	8300058	209	1N 4148	D6	8300201	209	Z6.2V 5%
D4	8300173	209	Z8.2V 5%	D7	8300058	209	1N 4148

R1 5020701 12 Ω 5% 1W

C1-2	4130230	100	nF 20% 63V	C10	4010105	1	nF 10% 63V
C3	4010105	1	nF 10% 63V	C11	4200517	2.2	μF 20% 50V
C4	4000142	82	pF 5% 63V	C12	4000204	100	pF 5% 63V
C5	4200617	47	μF 20% 10V	C13	4000135	150	pF 5% 63V
C6	4010105	1	nF 10% 63V	C14	4010142	10	nF -20+80% 40V
C7	4030023	47	nF -20+80% 16V	C15	4010105	1	nF 10% 63V
C8	4010118	330	pF 10% 63V	C16	4010118	330	pF 10% 63V
C9	4000135	150	pF 5% 63V	C17	4200726	47	μF 20% 16V

P1	7210628	Socket 4 pol
P2	7210627	Socket 13 pol

PCB 20, 8007089
Sound B/G/I/L/M

IS01 8340086 120 TBA 120UB
IS21 8340938 136 TDA 8405
IS33 8340790 103 MC 4558
IS53 8341037 136 TDA 8421

IS63 8340500 143 TDA 2040
IS73 8340500 143 TDA 2040
IS88 8340086 120 TBA 120 UB

TS47 8320503 20 BC 557B
TS54 8320512 20 BC 338

DS01 8300058 209 1N 4148	DS73 8300023 209 1N 4001
DS41 8300058 209 1N 4148	DS75 8300023 209 1N 4001
DS45 8300058 209 1N 4148	DS81 8300058 209 1N 4148
DS68 8300023 209 1N 4001	DS82 8300058 209 1N 4148
DS69 8300023 209 1N 4001	DS88 8300058 209 1N 4148

RS41 5020746 100 Ω 5% 0.3W	RS70 5020962 4.7 Ω 5% 0.5W
RS46 5020744 39 Ω 5% 0.33W	RS73 5020962 4.7 Ω 5% 0.5W
RS53 5021070 22 Ω 5% 0.3W	RS93 5020760 33 Ω 5% 0.3W
RS65 5001034 2.2 k Ω 10% 1/2W	RS95 5020760 33 Ω 5% 0.3W

PS92 5370315 22 k Ω 20%

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

CS01 4130193 22 nF 20% 63V	CS52 4010188 2.2 nF 10% 63V
CS02 4130193 22 nF 20% 63V	CS53 4200637 100 μ F -10+100% 16V
CS03 4100255 560 pF 5% 63V	CS54 4200637 100 μ F -10+100% 16V
CS05 4200510 10 μ F 20% 16V	CS55 4010182 3.9 nF 10% 50V
CS06 4130193 22 nF 20% 63V	CS56 4130302 33 nF 10% 63V
CS07 4010188 2.2 nF 10% 63V	CS57 4200508 22 μ F 20% 25V
CS08 4200646 22 nF 1% 63V	CS58 4130347 5.6 nF 10% 63V
CS09 4200129 100 μ F -20+50% 16V	CS59 4130347 5.6 nF 10% 63V
CS10 4200646 22 nF 1% 63V	CS60 4130302 33 nF 10% 63V
CS13 4000194 56 pF 5% 50V	CS61 4010182 3.9 nF 10% 50V
CS14 4130300 68 nF 20% 63V	CS62 4200403 100 μ F -10+100% 25V
CS15 4130300 68 nF 20% 63V	CS63 4010027 1 nF 10% 63V
CS16 4200129 100 μ F -20+50% 16V	CS64 4010065 2.7 nF 10% 63V
CS17 4100260 2.2 nF 2.5% 63V	CS65 4130315 15 nF 5% 63V
CS18 4100032 33 nF 1% 63V	CS66 4130313 470 nF 20% 63V
CS19 4010027 1 nF 10% 63V	CS67 4200843 3300 μ F -10+50% 50V
CS20 4200510 10 μ F 20% 16V	CS68 4130313 470 nF 20% 63V
CS21 4010027 1 nF 10% 63V	CS69 4200816 2200 μ F 35V
CS22 4100032 33 nF 1% 63V	CS70 4200508 22 μ F 20% 25V
CS23 4200510 10 μ F 20% 16V	CS71 4130315 15 nF 5% 63V
CS26 4200515 4.7 μ F 20% 25V	CS72 4200544 22 μ F 20% 16V
CS27 4010027 1 nF 10% 63V	CS73 4010027 1 nF 10% 63V
CS28 4010027 1 nF 10% 63V	CS74 4200816 2200 μ F 35V
CS29 4130313 470 nF 20% 63V	CS75 4130313 470 nF 20% 50V
CS30 4130235 47 nF 20% 63V	CS76 4010065 2.7 nF 10% 63V
CS31 4100032 33 nF 1% 63V	CS77 4130308 220 nF 20% 63V
CS32 4130220 10 nF 5% 63V	CS78 4130308 220 nF 20% 63V
CS33 4200313 2.2 μ F -10+100% 63V	CS79 4130300 68 nF 20% 63V
CS34 4200516 47 μ F 20% 16V	CS80 4100255 560 pF 5% 63V
CS35 4000176 100 pF 5% 63V	CS81 4200313 2.2 μ F -10+100% 63V
CS36 4130220 10 nF 5% 63V	CS82 4200313 2.2 μ F -10+100% 63V
CS37 4200516 47 μ F 20% 16V	CS83 4130193 22 nF 20% 63V
CS38 4200313 2.2 μ F -10+100% 63V	CS86 4100055 470 pF 2.5% 63V
CS39 4000176 100 pF 5% 63V	CS87- 4130193 22 nF 20% 63V
CS40 4100032 33 nF 1% 63V	CS89
CS42 4200368 100 μ F -10+100% 63V	CS90 4130300 68 nF 20% 63V
CS43 4010101 4.7 nF 10% 63V	CS91 4010188 2.2 nF 10% 63V
CS44 4200368 100 μ F -10+100% 63V	CS92 4200510 10 μ F 20% 16V
CS45 4200313 2.2 μ F -10+100% 63V	CS93 4130193 22 nF 20% 63V
CS46 4200129 100 μ F -20+50% 16V	CS94 4200637 100 μ F -10+100% 16V
CS47 4200510 10 μ F 20% 16V	CS95 4130193 22 nF 20% 63V
CS48 4200510 10 μ F 20% 16V	CS96 4200637 100 μ F -10+100% 16V
CS49 4130308 220 nF 10% 63V	CS97 4010027 1 nF 10% 63V
CS50 4130308 220 nF 10% 63V	CS98 4010027 1 nF 10% 63V
CS51 4010188 2.2 nF 10% 63V	CS99 4130313 470 nF 20% 50V

LS03 8030083 Coil 5.5 MHz	LS74 6710020 Ferrite core
LS17 8022244 Coil 54.687 kHz	LS80 8030083 Coil 5.5 MHz
LS69 6710020 Ferrite core	LS86 8030083 Coil 5.5 MHz

20	42	136	209	215			

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

QS06 8030085 Cer. filter 5.742 MHz
 QS86 8030091 Cer. filter 6.0 MHz
 QS89 8030086 Cer. filter 5.5 MHz

BS01 7220652 Plug 5 pol	BS20 7220652 Plug 5 pol
BS13 7220752 Plug 2 pol red	BS36 7220625 Plug 3 pol
BS14 7220753 Plug 2 pol green	BS45 7220652 Plug 5 pol
BS15 7210730 Socket 3 pol	
7210731 Socket 8 pol	
7210732 Socket 10 pol	

AM/FM Sound 8007090

IX28 8341115 136 TDA 4445
 IX46 8341116 136 TDA 120T

TX14 8320554 42 BF 199	TX52 8320509 20 BC 548B
TX44 8320509 20 BC 548B	TX58 8320509 20 BC 548B

DX01 8300387 215 BA 244	DX56- 8300058 209 1N 4148
DX08 8300387 215 BA 244	DX59
DX18 8300387 215 BA 244	

RX13 5020756 10 Ω 5% 0.3W

PX39 5370379 47 k Ω

CX01 4100233 150 pF 5% 63V	CX31 4200168 4.7 μ F -10+100% 63V
CX02 4000019 68 pF 5% 63V	CX32 4000025 15 pF 5% 63V
CX04 4000177 12 pF 5% 63V	CX33 4100247 1.8 nF 5% 63V
CX06 4000366 2.7 pF 63V	CX36 4130193 22 nF 20% 63V
CX07 4000019 68 pF 5% 63V	CX37 4130193 22 nF 20% 63V
CX08 4000177 12 pF 5% 63V	CX39 4010063 4.7 nF 10% 63V
CX11 4000365 27 pF 63V	CX41 4130233 220 nF 20% 63V
CX14 4000120 6.8 pF $\pm$ 0.25 pF 63V	CX42 4000160 220 pF 5% 63V
CX17 4130193 22 nF 20% 63V	CX43 4200168 4.7 μ F -10+100% 63V
CX18 4000179 120 pF 5% 63V	CX44 4200516 47 μ F 20% 16V
CX19 4000019 68 pF 5% 63V	CX46 4130193 22 nF 20% 63V
CX21 4130193 22 nF 20% 63V	CX47 4130193 22 nF 20% 63V
CX24 4200516 47 μ F 20% 16V	CX48 4130313 470 nF 20% 63V
CX26 4130193 22 nF 20% 63V	CX49 4100247 1.8 nF 5% 63V
CX27 4000183 22 pF 5% 63V	CX51 4200510 10 μ F 20% 16V
CX29 4200510 10 μ F 20% 16V	

LX03 8020722 Coil 39.2 MHz	LX22 8020722 Coil 39.2 MHz
LX09 8020722 Coil 39.2 MHz	LX28 8020722 Coil 39.2 MHz

QX34 8030154 Cer. filter 4.5 MHz
 QX38 8030155 Cer. filter 4.5 MHz

BX58 7500013 Contact pin

PCB 40, 8007091
Pal/Secam Decoder

IC01Δ 8340786 136 TDA 4556
IV21Δ 8341114 136 HA 11498

TC29 8320509 20 BC 548B
TC34 8320509 20 BC 548B
TC41 8320509 20 BC 548B

TV49 8320510 20 BC 558B TV71 8320509 20 BC 548B
TV50 8320510 20 BC 558B TV72 8320509 20 BC 548B
TV56 8320509 20 BC 548B TV74 8320510 20 BC 558B

DV24 8300029 209 ZPD 12V
DV58 8300058 209 1N 4148
DV70 8300058 209 1N 4148

RC21 5020745 15 Ω 5% 0.3W

RV51 5020756 10 Ω 5% 0.3W

PC18 5370321 220 Ω 20%

PV38 5370308 2.2 kΩ 20%
PV44 5370308 2.2 kΩ 20%

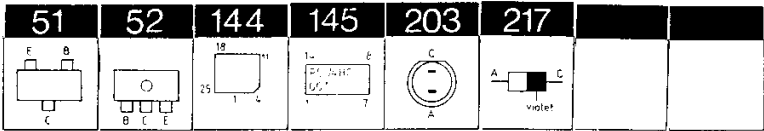
CC01 4010219 180 pF 50V	CC18 4130230 100 nF 20% 50V
CC02 4000183 22 pF 5% 63V	CC19 4130220 10 nF 5% 63V
CC03 4000215 68 pF 5% 63V	CC22 4000207 33 pF 5% 63V
CC04 4000215 68 pF 5% 63V	CC23 4100233 150 pF 5% 63V
CC05 4010219 180 pF 50V	CC24 4000244 27 pF 5% 50V
CC06 4000183 22 pF 5% 63V	CC25 4000176 100 pF 5% 63V
CC07 4000160 220 pF 5% 63V	CC26 4000176 100 pF 5% 63V
CC08 4100244 180 pF 5% 63V	CC27 4000200 82 pF 5% 63V
CC09 4130193 22 nF 20% 63V	CC28 4000191 47 pF 5% 63V
CC11 4130236 330 nF 20% 63V	CC29 4130223 47 nF 10% 63V
CC12 4340027 4-40 pF	CC31 4130236 330 nF 20% 63V
CC13 4130193 22 nF 20% 63V	CC32 4130233 220 nF 20% 63V
CC14 4010027 1 nF 10% 63V	CC33 4200312 1000 μF -10+100% 16V
CC15 4100244 180 pF 5% 63V	CC34 4000160 220 pF 5% 63V
CC16 4130220 10 nF 5% 63V	

CV21- 4130193 22 nF 20% 63V	CV44 4200431 10 μF 20% 16V
CV23	CV46 4130220 10 nF 5% 63V
CV24 4200510 10 μF 20% 16V	CV47 4200395 470 μF -10+50% 16V
CV25- 4130193 22 nF 20% 63V	CV49 4130235 47 nF 20% 50V
CV27	CV54 4000188 39 pF 5% 63V
CV29 4200515 4.7 μF 20% 25V	CV55 4130193 22 nF 20% 63V
CV31- 4130230 100 nF 20% 63V	CV56 4000215 68 pF 5% 63V
CV33	CV57 4130193 22 nF 20% 63V
CV34 4130304 22 nF 10% 63V	CV61 4130193 22 nF 20% 63V
CV35 4130230 100 nF 20% 63V	CV62 4100233 150 pF 5% 63V
CV36 4130193 22 nF 20% 63V	CV63 4010031 680 pF 10% 63V
CV37 4130230 100 nF 20% 63V	CV64 4100233 150 pF 5% 63V
CV38 4130193 22 nF 20% 63V	CV66 4200510 10 μF 20% 16V
CV39 4230230 100 nF 20% 63V	CV67 4000176 100 pF 5% 63V
CV41 4000160 220 pF 5% 63V	CV68 4000365 27 pF 5% 63V
CV42 4130220 10 nF 5% 63V	CV69 4000191 47 pF 5% 63V
CV43 4200483 47 μF 20% 16V	CV71 4010081 270 pF 10% 63V

LC01 8020717 Coil 4.43 MHz	LC18 8020552 Coil 10 μH
LC05 8020717 Coil 4.43 MHz	LC23 8020720 Coil 4.43 MHz
LC14 8020718 Coil 4.43 MHz	LC24 8020724 Coil 56 μH
LC17 8020719 Coil 4.43 MHz	LC28 8020554 Coil 15 μH

LV56 8030083 Coil 5.5 MHz
LV57 8020721 Coil 22 μH
LV64 8020723 Coil 5.5 MHz
LV68 8020606 Coil 27 μH

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



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

VC17	6240019 Delay line
VV53	6240029 Delay line

QC11	8090049 Crystal 8.8 MHz
------	-------------------------

BV02	7220624 Plug 6 pol
BV04	7210728 Socket 14 pol
BV05	7210729 Socket 18 pol

PCB 50, 8003894,
Beolink 1000

IC1*	8340776 144 68 HC04 P3
IC2	8340830 145 74 HC 393

TR1-3	8320615	51	BC 848B	TR6	8320616	51	BC 858B
TR4	8320616	51	BC 858B	TR7	8320684	52	BC 869
TR5	8320684	52	BC 869				

D1-6	8300482 217 LL4148
D7-8	8330140 203 TSHA 5502

R13-14	5011281 0.82 Ω 5% 1/4W
--------	-------------------------------

C1	4010166 100 nF -20+80% 50V	C5	4000321 220 pF 5% 50V
C2	4200515 4.7 μ F 20% 25V	C6	4200664 470 μ F 20% 6.3V
C3	4000239 33 pF 5% 50V	C7	4010166 100 nF -20+80% 50V
C4	4000278 27 pF 5% 50V		

X1	8030094 Crystal 3.64 MHz 0.3%
----	-------------------------------

* Specially selected or adapted sample.

Standard Resistors: Resistors 5% 1/2 W

	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0		5011000	5011013	5011028	5011044	5010313	5011069	5011083
1.2	5011406	5011001	5011014	5011030	5011045	5011058	5010421	
1.5	5010727	5011002	5011015	5011031	5011046	5011059	5011071	
1.8	5010857	5010787	5011016	5011033	5011047		5011072	
2.2	5011335	5010708	5010815	5011034	5011048	5011061	5011074	
2.7		5010803	5011018	5011055	5011049	5011062	5011075	
3.3	5010255	5011007	5011019	5011037		5011063	5010381	
3.9		5010782	5011021	5010700	5011051		5010392	
4.7	5010765	5011009	5011022	5010035	5010036	5011065	5011078	
5.6		5011010	5011023	5011041		5011066	5011079	
6.8	5010874	5011011	5011024	5011042	5010810	5011067	5011080	
8.2		5011012	5011026	5011043	5010038	5011068	5011081	

Resistors 5% 1/4 W

	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0	5010592	5010506	5010065	5010040	5010059	5010049	5010054	5010638
1.2		5010595	5010128	5010153	5010046	5010047	5010665	
1.5	5011348	5010468	5010057	5010247	5010053	5010063	5010093	
1.8		5010822	5010362	5010066	5010135	5010072	5010791	
2.2	5010682	5010448	5010092	5010064	5010079	5010120	5010245	
2.7	5010925	5010403	5010000	5010298	5010141	5010083	5010431	
3.3		5010253	5010044	5010076	5010075	5010117	5010848	
3.9	5011377	5010622	5010070	5010069	5010060	5010073	5010714	
4.7	5010888	5010411	5010058	5010048	5010045	5010077	5011513	
5.6	5010706	5010151	5010067	5010041	5010061	5010071	5010658	
6.8	5010904	5010039	5010144	5010052	5010062	5010074		
8.2	5010880	5010056	5010068	5010154	5010091	5010505		

Resistors 5% 1/8 W

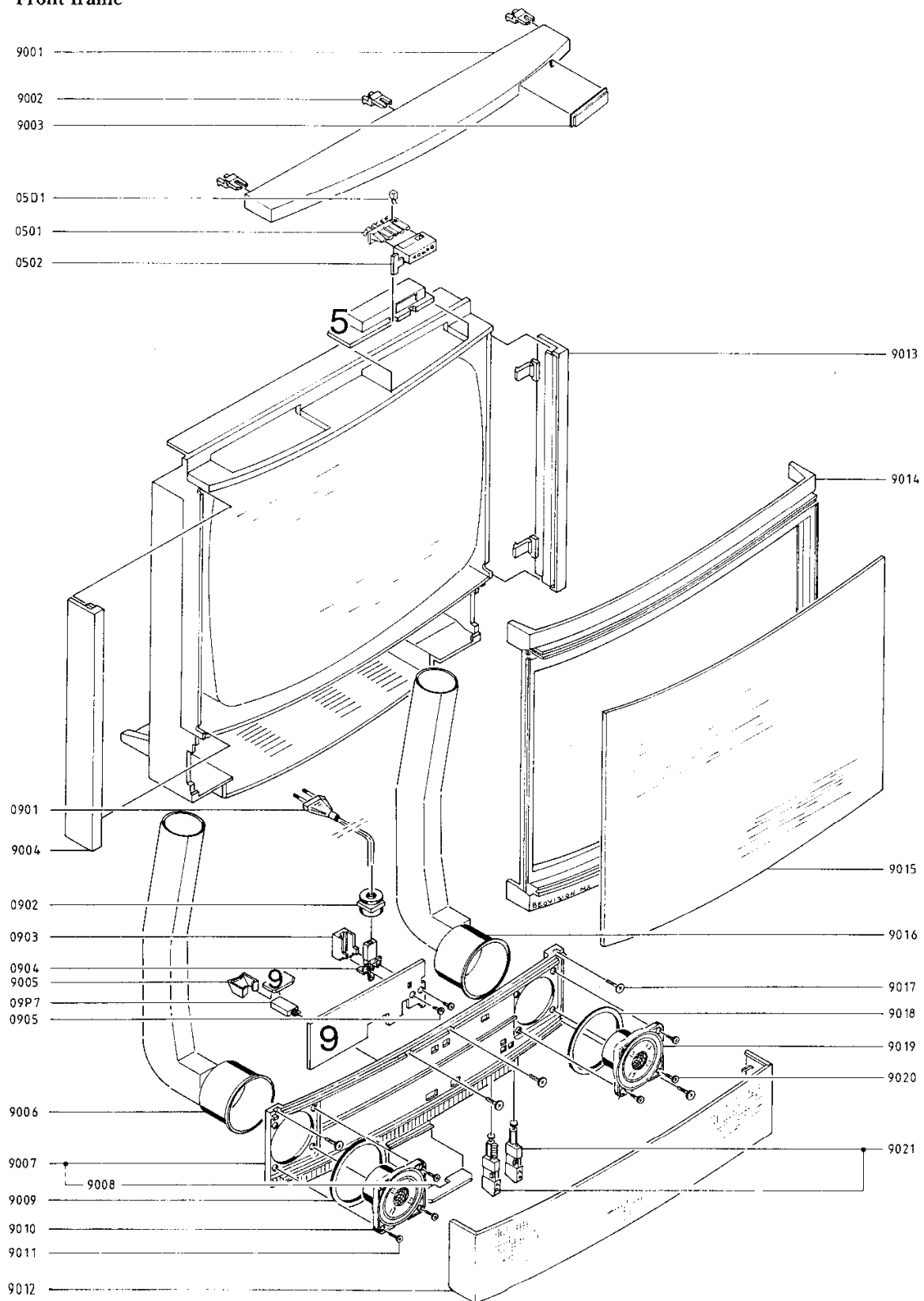
	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0		5011464	5011357	5010816	5010935	5011440	5011459	5020875
1.2		5011351	5011084	5011442	5011338	5011341	5011175	
1.5		5011463	5011443	5011178	5011364	5011398	5011460	
1.8			5011350	5011361	5011344	5011468		
2.2	5011032	5011376	5010886	5011353	5010833	5011369	5011342	
2.7		5011471	5011355	5011362	5011366	5011370	5011478	
3.3			5011337	5010827	5011346	5011371	5011462	
3.9		5011438		5011157	5011457	5011372	5020876	
4.7	5011363	5011038	5011441	5011363	5010937	5011343		
5.6		5011412	5011358	5010885	5011166	5011340		
6.8		5011356	5011336	5010839	5011367	5011458		
8.2		5011466	5011354	5011339	5011368	5011373		

Resistors SMD 2% 1/8 W
SMD 5% 1/8 W
FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

	5%	2%	2%	2%	2%	2%	5%	5%
	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0	5011623	5011647	5011218	5011227	5011241	5011256	5011267	5011730
1.1	5011624	5011648	5011669	5011681	5011689	5011694	5011707	
1.2	5011625	5011649	5011219	5011682	5011490	5011257	5011708	
1.3	5011626	5011650	5011670	5011683	5011242	5011258	5011709	
1.5	5011627	5011651	5011220	5011228	5011243	5011259	5011710	
1.6	5011628	5011652	5011671	5011684	5011690	5011695	5011711	
1.8	5011629	5011653	5011672	5011229	5011244	5011260	5011712	
2.0	5011630	5011654	5011673	5011685	5011691	5011696	5011713	
2.2	5011631	5011655	5011674	5011230	5011245	5011261	5011714	
2.4	5011634	5011656	5011675	5011686	5011246	5011697	5011715	
2.7	5011635	5011657	5011497	5011231	5011247	5011262	5011716	
3.0	5011731	5011658	5011499	5011500	5011692	5011698	5011717	
3.3	5011217	5011659	5011676	5011232	5011248	5011263	5011718	
3.6	5011636	5011660	5011677	5011687	5011249	5011264	5011719	
3.9	5011637	5011661	5011221	5011233	5011491	5011699	5011720	
4.3	5011638	5011662	5011498	5011688	5011492	5011700	5011721	
4.7	5011639	5011269	5011222	5011234	5011250	5011265	5011722	
5.1	5011640	5011663	5011678	5011235	5011493	5011701	5011723	
5.6	5011641	5011664	5011223	5011236	5011251	5011702	5011724	
6.2	5011642	5011665	5011224	5011237	5011693	5011703	5011725	
6.8	5011643	5011666	5011225	5011238	5011252	5011704	5011726	
7.5	5011644	5011667	5011679	5011239	5011253	5011705	5011727	
8.2	5011645	5011270	5011226	5011240	5011254	5011266	5011728	
9.1	5011646	5011668	5011680	5011489	5011255	5011706	5011729	

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

LIST OF MECHANICAL PARTS Front frame

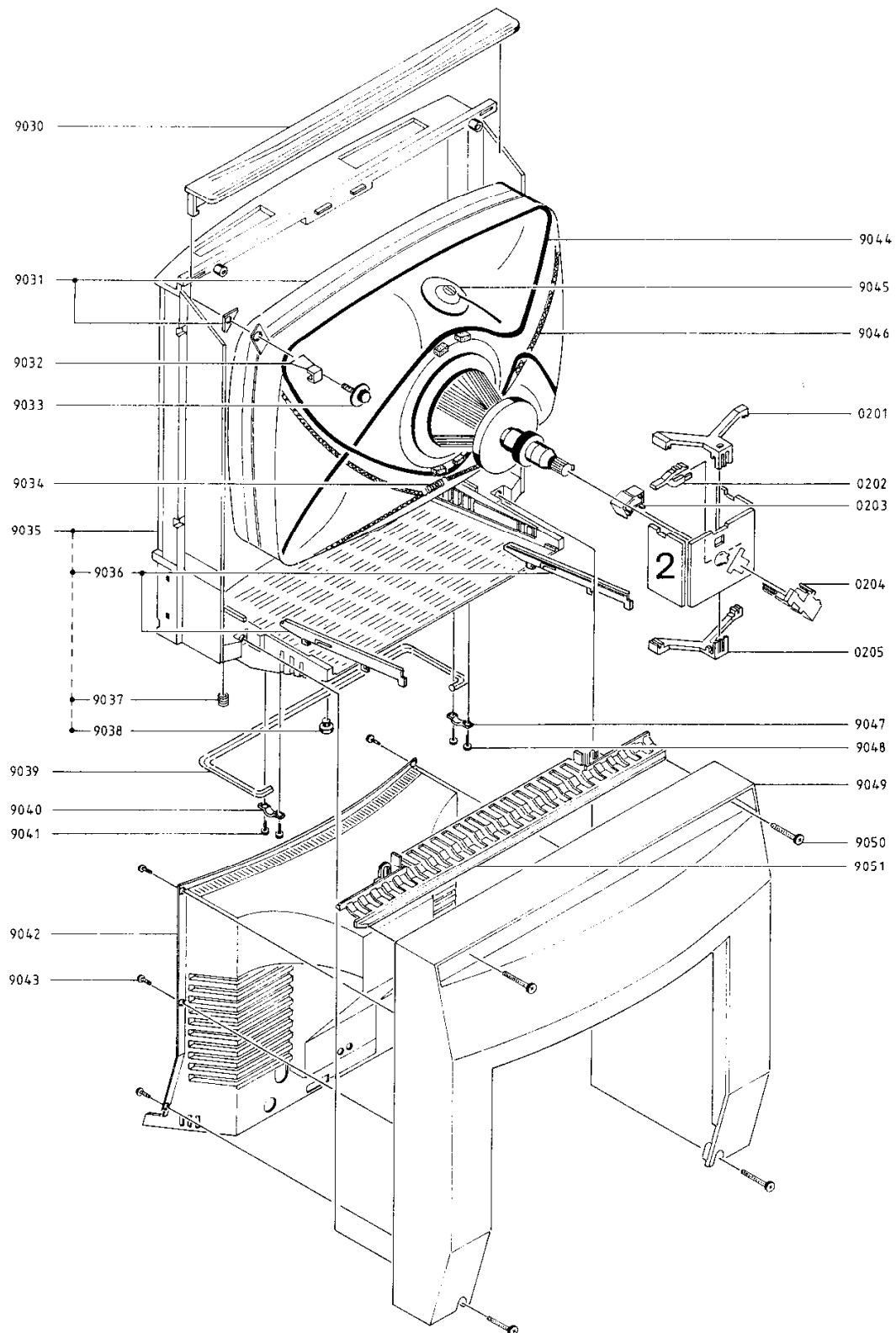


Front frame

05Modul	8003829	PCB 5, IR-Receiver
0501	3375050	Lense
0502	3131313	Housing
05D1	8330145	Diode BPW 82
09Modul	8003824	PCB 9, P-Step/Mains Filter
	8003905	PCB 9, P-Step/Mains Filter Australia
0901	6271102	Mains lead w/euro plug
	6270297	Mains lead f/Australia
0902	2641119	Bushing f/mains cable
0903	3164613	Cap f/mains switch
0904	7450048	Mains switch
0905	2039026	Screw 3 x 4 mm
09P7	7210386	Jack plug
9001	3164644	Lid
9002	2391070	Hinge
9003	3322092	Window
9004	3470193	Side plate
	3950028	Rubber string
9005	2510160	Clips
9006	3132113	Loudspeaker damping tube/left
9007	3440107	Loudspeaker baffle w/foot
9008	3103286	Foot
9009	3340047	Gasket
9010	8480164	Loudspeaker
	6275816	Lead black/brown
	6275817	Lead red/brown
9011	2013123	Screw 3 x 10 mm
9012	3450704	Loudspeaker panel
9013	3470193	Side plate
	3950028	Rubber string
9014	3320114	Front frame
	3950020	Rubber string
9015	3450703	Contrast screen
9016	3132114	Loudspeaker damping tube/right
9017	2019009	Screw 4 x 12 mm
9018	3340047	Gasket
9019	8480164	Loudspeaker
9020	2013123	Screw 3 x 10 mm
9021	2776083	Press buttons, complete

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

Cabinet

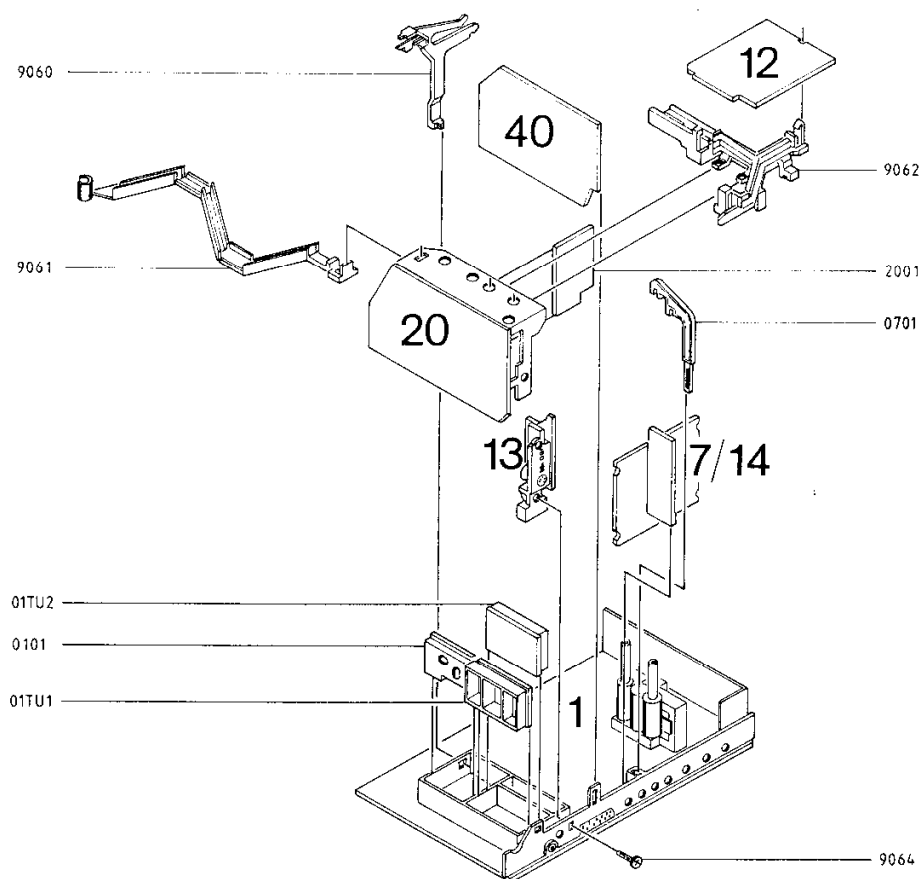


Cabinet

02Modul	8003823	PCB 2, Video Output
0201	3152558	Holder
0202	3152583	Holder f/focuscontact
0203	3164679	Cap f/picture tube socket
0204	7210635	Focus socket
0205	3152558	Holder
9030	2530536	Carrying handle
9031	8200059	Picture tube - Video Color, see page 7-1
	8200062	Picture tube - ITT, see page 7-1
9032	2514066	Hook f/picture tube
9033	2044048	Screw/picture tube
9034	2810189	Spring
9035	3320129	Bottom/front part
	3946094	Tightening rail
9036	3151222	Guide rail
9037	2389051	Drive fit nut
9038	3035053	Rubber foot
9039	3103261	Tilting foot
9040	2641114	Fitting
9041	2019009	Screw 4 x 12 mm
9042	3430461	Back cover
	3911106	Cloth
9043	2019010	Screw 4 x 8 mm
9044	8022267	Degaussing coil
9045	6270364	EHT cable
9046	7510035	Ground current
9047	2641114	Fitting
9048	2019009	Screw 4 x 12 mm
9049	3414164	Back cover, red
	3414165	Back cover, white
	3414166	Back cover, black
	3414167	Back cover, grey
	3414168	Back cover, blue
9050	2021007	Screw 5 x 30 mm
9051	3444182	Grill

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

EI-Chassis



01Modul 8053219	PCB 1, Basic Board f/ITT picture tube, see page 7-1			
8053272	PCB 1, Basic Board f/VC picture tube, see page 7-1			
0101	8007021	Transposer	3152576	Holder EHT Cable
01TU1	8050115	VHF Tuner	3152721	Holder focus cable
01TU2	8050116	UHF Tuner		
07Modul 8003914	PCB 7, Teletext			
0701	3152584	Holder		
12Modul 8003830	PCB 12, Interface Audio/Data			
13Modul 8003831	PCB 13, A/V Connections			
14Modul 8003828	PCB 14, Display			
20Modul 8007089	PCB 20, Sound B/G/I/L/M			
2001	8007090	AM/FM Sound		
40Modul 8007091	PCB 40, Pal/Secam Decoder			
9060	3152662	Holder f/PCB 20		
9061	3152555	Holder f/mains cable		
	6275749	Mains cable w/holder		
9062	3152559	Holder f/PCB 12		
9064	2013123	Screw 3 x 10 mm		

Parts not shown

3503508	Owner's manual Danish
3503509	Owner's manual Swedish
3503510	Owner's manual Finnish
3503511	Owner's manual English
3503512	Owner's manual German
3503513	Owner's manual Dutch
3503514	Owner's manual French
3503515	Owner's manual Greek
3503516	Owner's manual Italian

	Packing:
3397557	Foam insert
3917104	Foam foil
3397620	Foam packing
3391983	Outer carton

ACCESSORIES Teletext, 8003914

8341123	µP HD 404918
3152584	Holder
3543099	Mounting instructions
3391792	Packing

Indoor antenna, 8720031

3543063	Mounting instructions
---------	-----------------------

Sound Kit 6.5 MHz-K1, 8003917

IZ07	8341115	TDA 4445B
IZ14	8341116	TBA 120T

TZ04	8320486	BF 959
TZ08	8320510	BC 558
TZ11	8320509	BC 548B

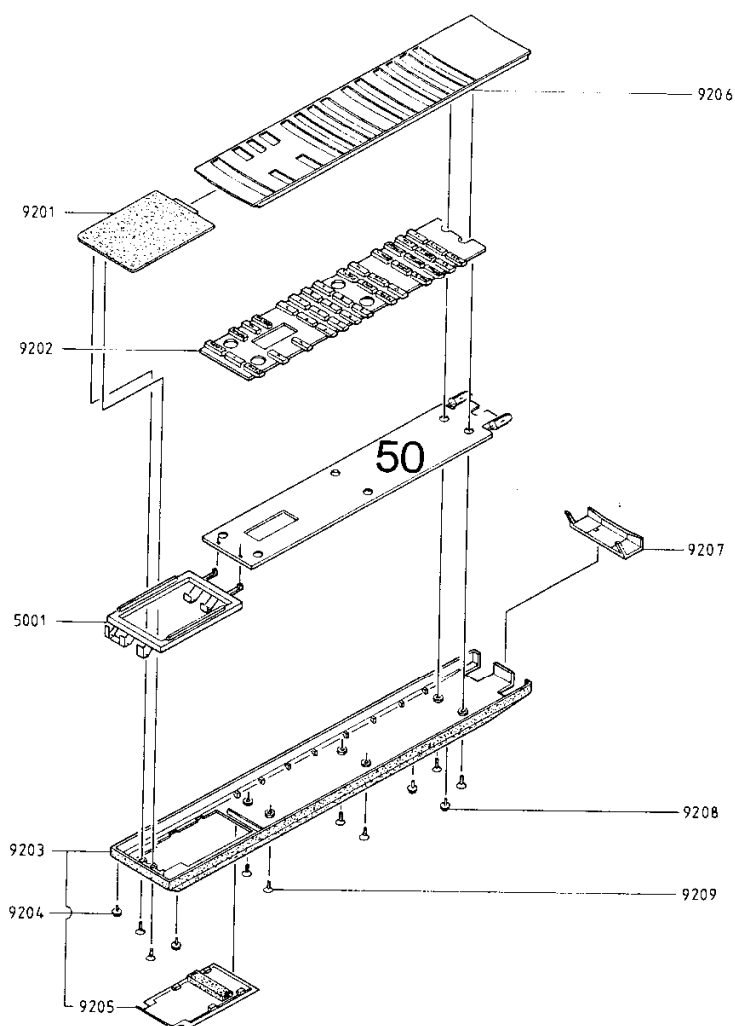
3543104	Mounting instructions
---------	-----------------------

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

Beolink 1000 Terminal

8930130 Beolink 1000

8930150 Beolink 1000, Italian



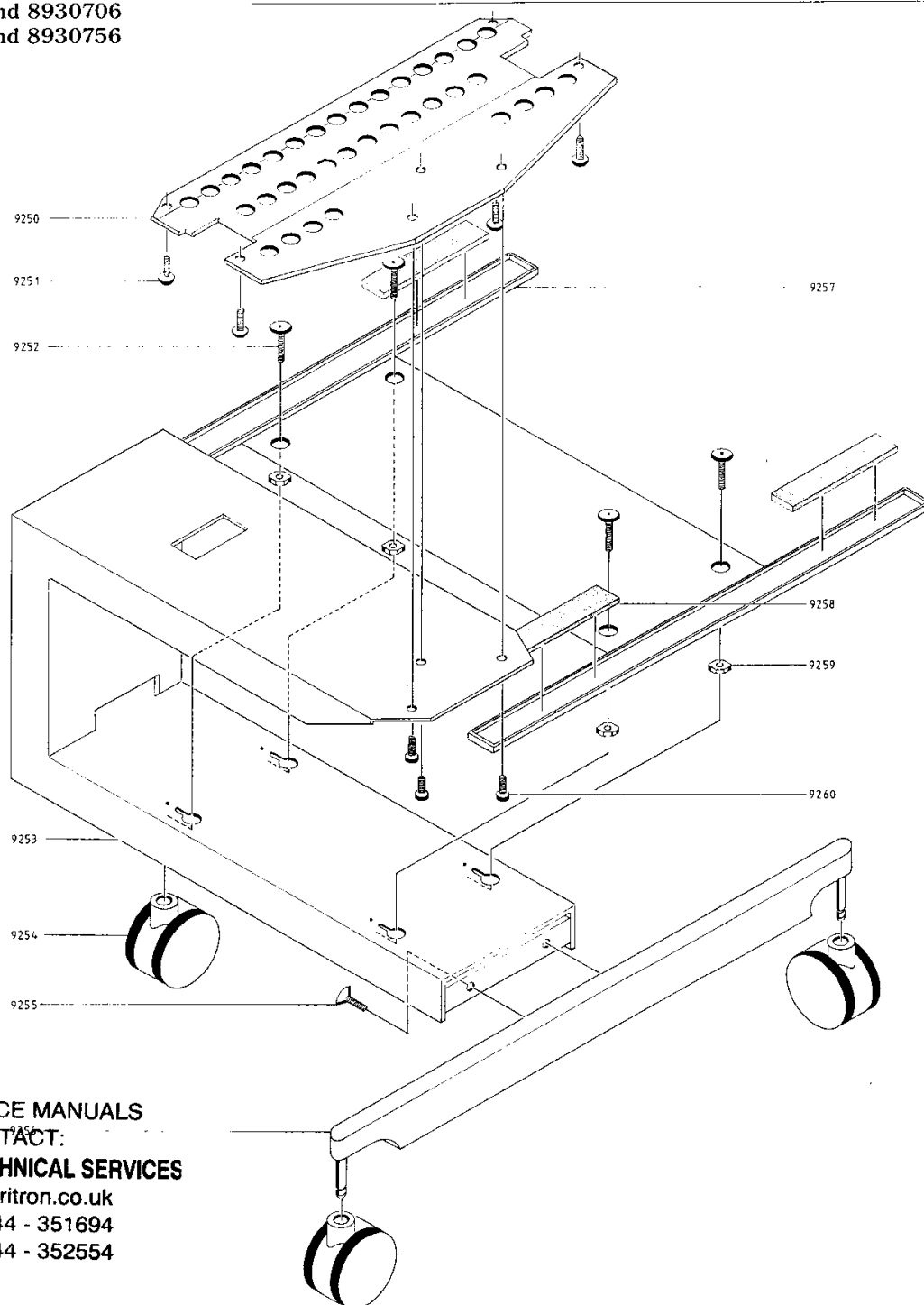
50 Modul 8003894 Remote Control
5001 3015152 Guide f/battery
7500211 Contact spring

9201	3164688	Battery lid
9202	2776086	Set of buttons, type 3013
	2776087	Set of buttons, type 3015
9203	3131300	Bottom
9204	3103274	Plastic foot
9205	3164606	Battery cover
9206	3131297	Top, type 3013
	3131299	Top, type 3015
9207	3375047	Lens
9208	3103274	Plastic foot
9209	2034066	Screw 2 x 5mm

Parts not shown

8700017	Battery
3395073	Outer carton
3397650	Foam packing
3390210	Bag
3503495	Owner's manual Danish
3503496	Owner's manual Swedish
3503497	Owner's manual Finnish
3503498	Owner's manual English
3503499	Owner's manual German
3503500	Owner's manual Dutch
3503501	Owner's manual French
3503502	Owner's manual Greek
3503503	Owner's manual Italian

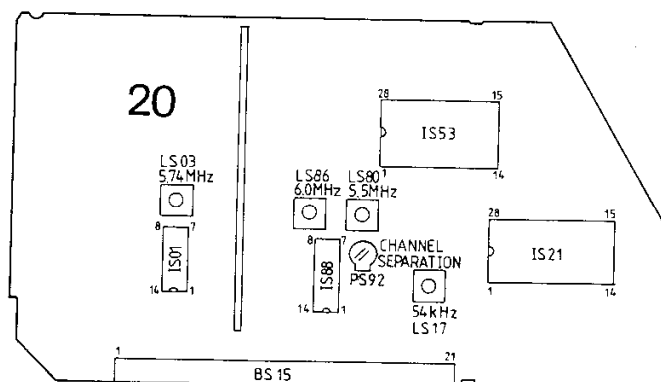
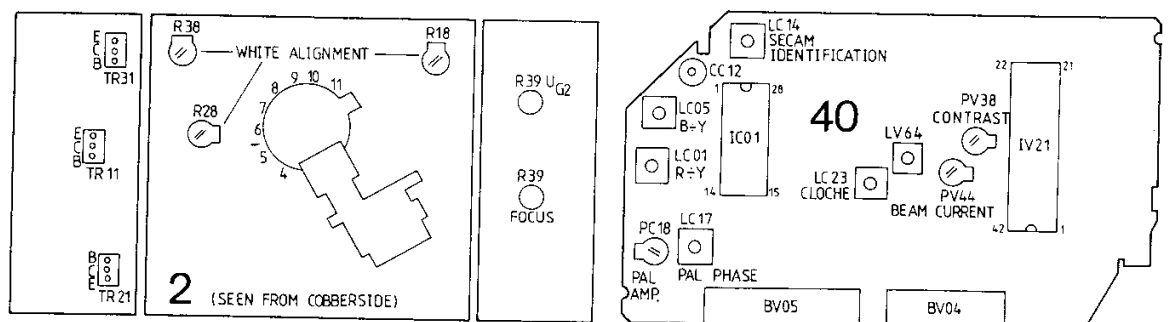
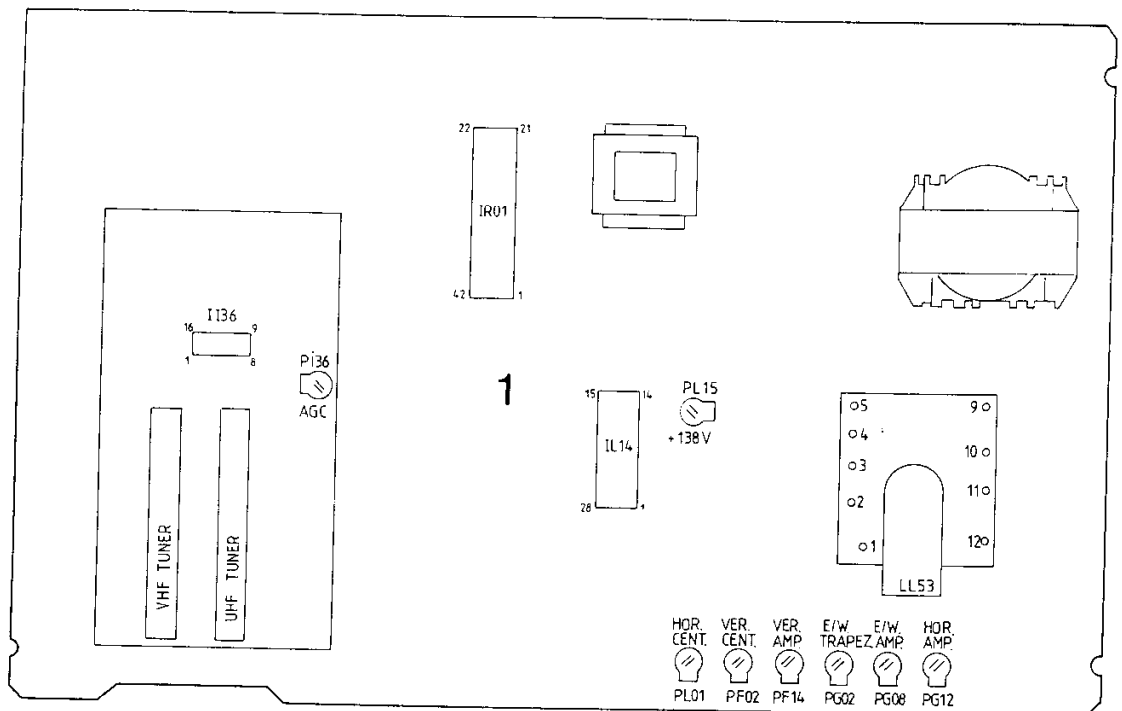
Video Stand 8930706
Video Stand 8930756



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

9250	3124098	Mounting plate	9258	3912047	Felt self adhesive
9251	2044033	Screw 5 x 12mm	9259	2380139	Nut M5
9252	2044034	Screw 5 x 30mm	9260	2042052	Screw 4 x 6mm
9253	3100025	Frame			
9254	3032002	Wheel		3390268	Bag w/parts
9255	2044032	Screw 5 x 10mm		3543058	Assembling guide
9256	3450544	Profile			f/type 3070
9257	3151243	Video holder		3543076	Assembling guide
		f/type 3070			f/type 3075
	3151259	Video holder		3391925	Packing
		f/type 3075		3397547	Foam packing



JUSTERINGSVEJLEDNING

Justeringerne udføres med følgende grundstilling, med mindre andet er nævnt:

»BRILLIANCE« niveau 20, »COLOUR« niveau 40 og »CONTRAST« niveau 24.

Netdel, 1PL15:

Et DC-voltmeter tilsluttes ben 10 på linieudgangs-transformatoren 1LL53.
Potentiometeret 1PL15 justeres til 138V.

Skærmgitter, 2R39 UG2:

»CONTRAST« og »BRILLIANCE« reguleres til minimum.
Med et DC-voltmeter måles spændingerne på kollektorerne af videoudgangstransistorerne 2TR11, 2TR21 og 2TR31.
Med 2R39 UG2 potentiometeret justeres den højeste af de målte værdier til 155V.

Fokus, 2R39:

Fokuspentiometeret 2R39 justeres, til der opnås maksimal skarphed på de lodrette linjer, der ligger ca. 10 cm. fra skærmkanten.

Spidshvid, 40PV38:

»BRILLIANCE« reguleres til niveau 09 og »CONTRAST« til niveau 31.
Modtageren tilføres et gittermønstersignal.
Et oscilloscop tilsluttes ben 6 på billedrørssoklen (10:1 probe).
Potentiometeret 40PV38 justeres til en amplitude på 90V_{SS} fra sort til hvidt.

Strålestrøm, 40PV44:

»BRILLIANCE« reguleres til niveau 31 og »CONTRAST« til niveau 10.
Modtageren tilføres et hvidt signal.
Et oscilloscop tilsluttes ben 6 på billedrørssoklen (10:1 probe).
Potentiometeret 40PV44 justeres til en amplitude på 50V_{SS} fra sort til hvidt.

Hvidniveau, 2R18, 2R28, 2R38:

»BRILLIANCE« reguleres til niveau 24 og »CONTRAST« til niveau 13.
Modtageren tilføres et gråskalsignal.
Potentiometeret 2R28 sættes i midterstilling, og med potentiometerne 2R18 og 2R38 justeres, til gråskalaens felter er farveløse.
Såfremt der ikke opnås farveløse felter, ændres 2R28's indstilling, og proceduren gentages.

ADJUSTMENTS

All adjustments are carried out with the following preset levels, unless otherwise indicated:

"BRILLIANCE" level 20, "COLOUR" level 40, "CONTRAST" level 24.

Power-supply, 1PL15:

Connect a DC voltmeter to pin 10 of the EHT-transformer 1LL53.
Adjust the potentiometer 1PL15 to 138V.

Screen grid, 2R39 UG2:

Adjust "CONTRAST" and "BRILLIANCE" to minimum.
Using a DC voltmeter measure the voltages of the collectors of the video output transistors 2TR11, 2TR21 and 2TR31.
Using the potentiometer 2R39 UG2 set the highest of the measured levels to 155V.

Focus, 2R39:

Adjust the focus potentiometer 2R39 until maximum sharpness is achieved on the vertical lines approx. 10 cm from the edge of the screen.

Peak white, 40PV38:

Adjust "BRILLIANCE" to level 09 and "CONTRAST" to level 31.
Feed a grid pattern signal to the receiver.
Connect an oscilloscope to pin 6 of the picture tube socket (10:1 probe).
Adjust the potentiometer 40PV38 to an amplitude of 90V_{pp} from black to white.

Beam current, 40PV44:

Adjust "BRILLIANCE" to level 31 and "CONTRAST" to level 10.
Feed a white signal to the receiver.
Connect an oscilloscope to pin 6 of the picture tube socket (10:1 probe).
Adjust the potentiometer 40PV44 to an amplitude of 50V_{pp} from black to white.

White alignment, 2R18, 2R28, 2R38:

Adjust "BRILLIANCE" to level 24 and "CONTRAST" to level 13.
Feed a grey scale signal to the receiver.
Set the potentiometer 2R28 to its middle position, and using the potentiometers 2R18 and 2R38 adjust until the fields of the grey scale are colourless.
If colourless fields cannot be achieved, adjust the position of 2R28 and repeat the procedure.

Tunerjustering.

AGC take over, 1PI36:

Modtageren tilføres et antennesignal på 1,3mV og frekvensen 217MHz.

Et DC-voltmeter tilsluttes ben 5 på 1II36.

Potentiometeret 1PI36 drejes helt med uret.

Potentiometeret 1PI36 justeres, til spændingen er faldet 0,3V.

Afbøjningsjusteringer.

Horisontal centrering, 1PL01:

Potentiometeret 1PL01 justeres til optimal billed-centrering.

Horisontal amplitude, 1PG12:

Potentiometeret 1PG12 justeres til optimal billed-bredde.

Vertikal centrering, 1PF02:

Potentiometeret 1PF02 justeres til optimal billed-centrering.

Vertikal amplitude, 1PF14:

Potentiometeret 1PF14 justeres til optimal billed-højde.

E/W amplitude, 1PG08:

Potentiometeret 1PG08 justeres til lige lodrette linjer i højre og venstre side af billedet.

E/W trapez, 1PG02:

Potentiometeret 1PG02 justeres til lige lodrette linjer i højre og venstre side af billedet.

PAL justeringer.

Under disse justeringer er det en fordel at fjerne lydmodulet PCB20.

PAL-reference 8,86MHz, 40CC12:

Modtageren tilføres et PAL farvebar-signal.

På loddessiden af PCB40 forbindes ben 13 og ben 28 på 40IC01 med en 1 kohms modstand.

Ben 17 og ben 9 på 40IC01 kortsluttes.

Trimmekondensatoren 40CC12 justeres til minimal farverul.

Kortslutningen og modstanden fjernes.

PAL-fase, 40LC17, PAL-amplitude, 40PC18:

»COLOUR« justeres til niveau 60.

Modtageren tilføres et test-signal med farveløse R-Y/B-Y-felter.

Spolen 40LC17 (PAL-fase) og potentiometeret 40PC18 (PAL-amplitude) justeres til minimal farve i de farveløse R-Y/B-Y-felter af testbilledet.

Tuner adjustment.

AGC take-over, 1PI36:

Feed an aerial signal of 1.3mV and the frequency 217MHz to the receiver.

Connect a DC voltmeter to pin 5 of 1II36.

Turn the potentiometer 1PI36 clockwise as much as possible.

Adjust the potentiometer until the voltage has dropped by 0.3V.

Deflection adjustments.

Horizontal centering, 1PL01:

Using the potentiometer 1PL01, adjust until the picture is correctly centered.

Horizontal amplitude, 1PG12:

Using the potentiometer 1PG12, adjust until the correct picture width is achieved.

Vertical centering, 1PF02:

Using the potentiometer 1PF02, adjust until the picture is correctly centered.

Vertical amplitude, 1PF14:

Using the potentiometer 1PF14, adjust until the correct picture height is achieved.

E/W amplitude, 1PG08:

Using the potentiometer 1PG08, adjust until straight vertical lines are achieved in the righthand and lefthand sides of the picture.

E/W trapeze, 1PG02:

Using the potentiometer 1PG02, adjust until straight vertical lines are achieved in the righthand and lefthand sides of the picture.

PAL adjustments

It is advisable to remove the sound module PCB20 before carrying out these adjustments.

PAL reference 8.86MHz, 40CC12:

Feed a PAL colourbar signal to the receiver.

On the copperfoil side of PCB40 connect pins 13 and 28 of 40IC01 with a resistor of 1 kohm.

Short-circuit pins 17 and 9 of 40IC01.

Adjust the trimming capacitor to minimum colour scroll.

Remove the short-circuit and the resistor.

PAL phase, 40LC17, PAL amplitude, 40PC18:

Adjust "COLOUR" to level 60.

Feed a test signal with colourless R-Y/B-Y fields to the receiver.

Adjust the coil 40LC17 (PAL phase) and the potentiometer 40PC18 (PAL amplitude) to minimum colour in the colourless R-Y/B-Y fields of the test picture.

5-3

Bang & Olufsen

SECAM justeringer

Under disse justeringer er det en fordel at fjerne lydmodulet PCB20.

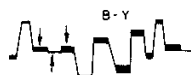
Modtageren tilføres et SECAM farvebar-signal.

Identifikation, 40LC14:

Et DC-voltmeter tilsluttes ben 21 på 40IC01.
Spolen 40LC14 justeres til maksimal spænding.

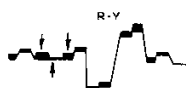
B-Y demodulator, 40LC05:

Et oscilloscop tilsluttes ben 3 på 40IC01.
Spolen 40LC05 justeres, til de farveløse bjælker i farvebaren har samme niveau som linjeblankingen.



R-Y demodulator, 40LC01:

Et oscilloscop tilsluttes ben 1 på 40IC01.
Spolen 40LC01 justeres, til de farveløse bjælker i farvebaren har samme niveau som linjeblankingen.



Cloche filter, 40LC23:

Et oscilloscop tilsluttes ben 15 på 40IC01.
Spolen 40LC23 justeres, til farvebjælkernes amplitude har samme niveau.

Lydjusteringer

5,5MHz, 20LS80, 5,74MHz, 20LS03:

Modtageren tilføres et stereo-signal indeholdende både 5,5MHz og 5,74MHz med modulation.
Et AC-voltmeter tilsluttes ben 8 på 20IC01.
Spolen 20LS03 justeres til maksimal amplitude.
AC-voltmeteret tilsluttes ben 8 på 20IS88.
Spolen 20LS80 justeres til maksimal amplitude.

54kHz, 20LS17:

Modtageren tilføres et stereo-signal indeholdende både 5,5MHz og 5,74MHz med modulation.
Et oscilloscop tilsluttes ben 26 på 20IS21.
Spolen 20LS17 justeres til maksimal amplitude.

Kanalseparation, 20PS92:

Modtageren tilsluttes et stereo-signal uden modulation i venstre kanal.
Et oscilloscop tilsluttes ben 5 på 20BS15.
Potentiometeret 20PS92 justeres til minimal amplitude.

6,0MHz, 20LS86:

Modtageren tilføres et 6,0MHz lydsignal med modulation.
Et AC-voltmeter tilsluttes ben 8 på 20IS88.
Spolen 20LS86 justeres til maksimal amplitude.

SECAM adjustments:

It is advisable to remove the sound module PCB20 before carrying out these adjustments.

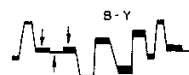
Feed a SECAM colourbar signal to the receiver.

Identification, 40LC14:

Connect a DC voltmeter to pin 21 of 40IC01.
Adjust coil 40LC14 to maximum voltage.

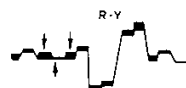
B-Y demodulator, 40LC05:

Connect an oscilloscope to pin 3 of 40IC01.
Adjust coil 40LC05 until the colourless bars of the colourbar are on the same level as the line blanking.



R-Y demodulator, 40LC01:

Connect an oscilloscope to pin 1 of 40IC01.
Adjust coil 40LC01 until the colourless bars of the colourbar are on the same level as the line blanking.



Cloche filter, 40LC23:

Connect an oscilloscope to pin 15 of 40IC01.
Adjust coil 40LC23 until the amplitudes of the colour bars are on the same level.

Sound adjustments.

5.5MHz, 20LS80, 5.74MHz, 20LS03:

Feed a modulated stereo signal containing both 5.5MHz and 5.74MHz to the receiver.
Connect an AC voltmeter to pin 8 of 20IC01.
Adjust coil 20LS03 to maximum amplitude.
Connect the AC voltmeter to pin 8 of 20IS88.
Adjust coil 20LS80 to maximum amplitude.

54kHz, 20LS17:

Feed a modulated stereo signal containing both 5.5MHz and 5.74MHz to the receiver.
Connect an oscilloscope to pin 26 of 20IS21.
Adjust coil 20LS17 to maximum amplitude.

Channel separation, 20PS92:

Feed a stereo signal without modulation in the left channel to the receiver.
Connect an oscilloscope to pin 5 of 20BS15.
Adjust the potentiometer 20PS92 to minimum amplitude.

6.0MHz, 20LS86:

Feed a 6.0MHz modulated sound signal to the receiver.
Connect an AC voltmeter to pin 8 of 20IS88.
Adjust coil 20LS86 to maximum amplitude.

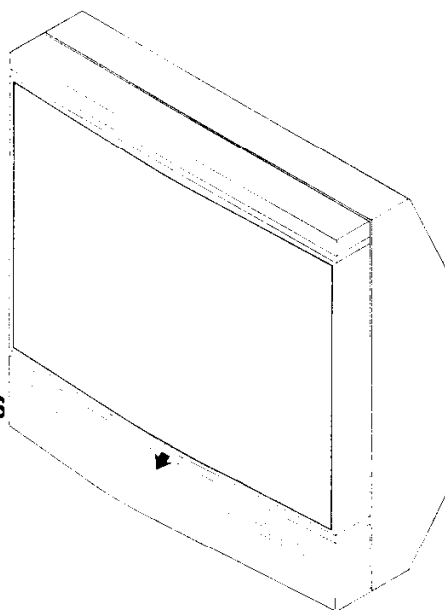
ADSKILLELSE

Demontering af kontrastskærmen

DISASSEMBLY

Removal of contrast screen

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

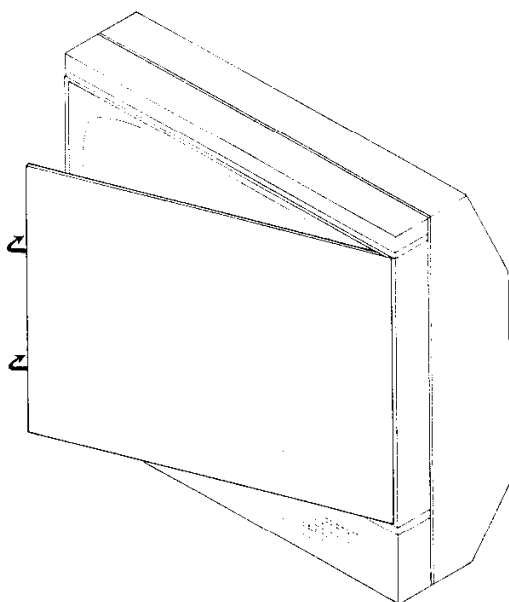


Træk ud i kontrastskærmens nederste kant.

Pull the lower edge of the contrast screen outwards.

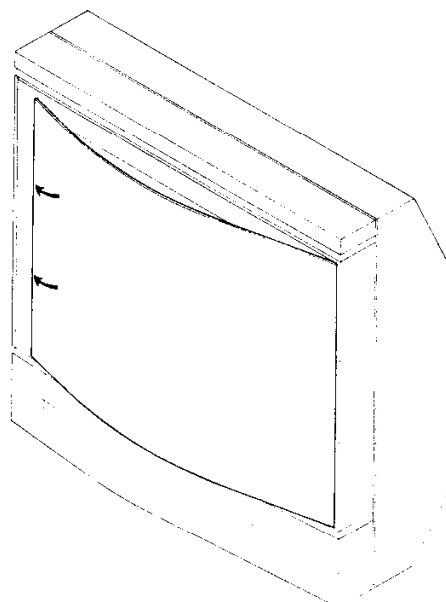
Montering af kontrastskærmen

Mounting of contrast screen



Monter skærmen i rillen af det ene sidepanel.

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

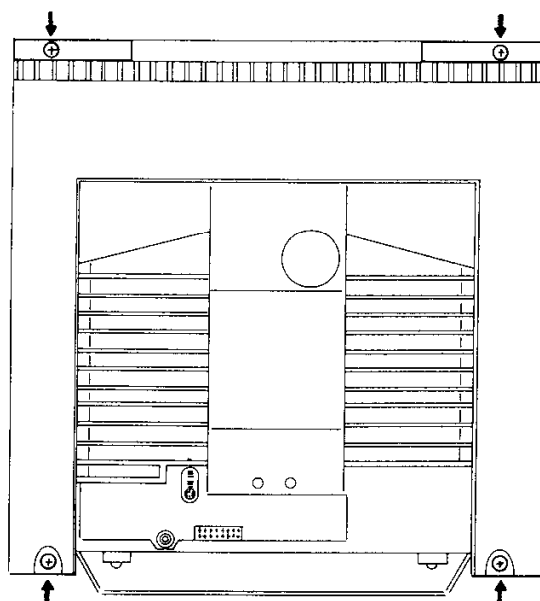


Fit the screen into the groove in one of the side panels.

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

Bagpart

Rear part

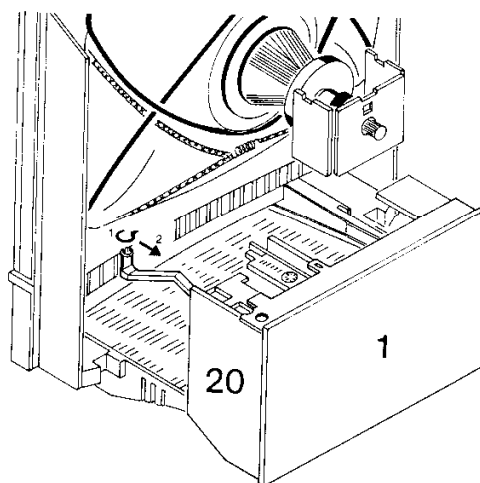


De fire skruer løsnes, og bagparten trækkes lige bagud.

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

Serviceposition

Service position



Chassiset sættes i servicepositionen, ved at det trækkes udad og løftes op.

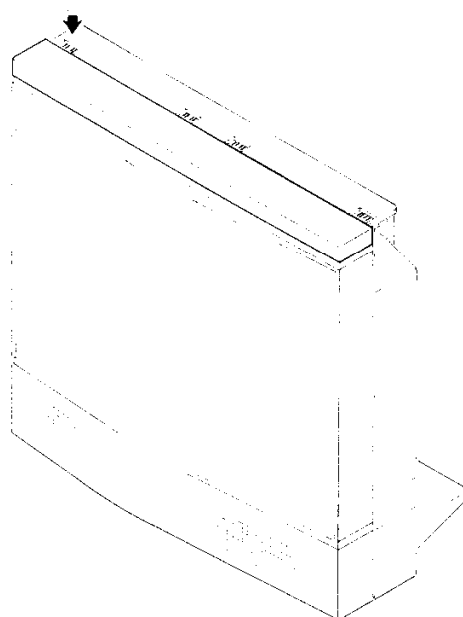
Place the chassis in the service position by pulling it outwards and lifting it.

Ledningsbakken kan løsnes fra kabinettet, ved at dets bageste ende drejes mod uret og dernæst trækkes fremad.

The cable tray can be detached from the cabinet by turning its rear end anticlockwise and then pulling it forwards.

Toppanel

Top panel



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

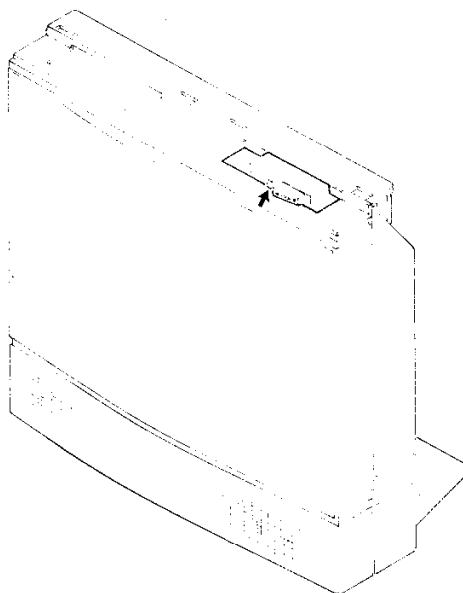
Loosen the panel in one side by releasing the lock with a screwdriver.

Toppanelet kan nu fjernes.

The top panel can now be removed.

PCB 05 IR-modtager

PCB 05 IR-receiver



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

Låsen løsnes med en skruetrækker, og PCB'en tages ud, ved at den løftes i den forreste kant.

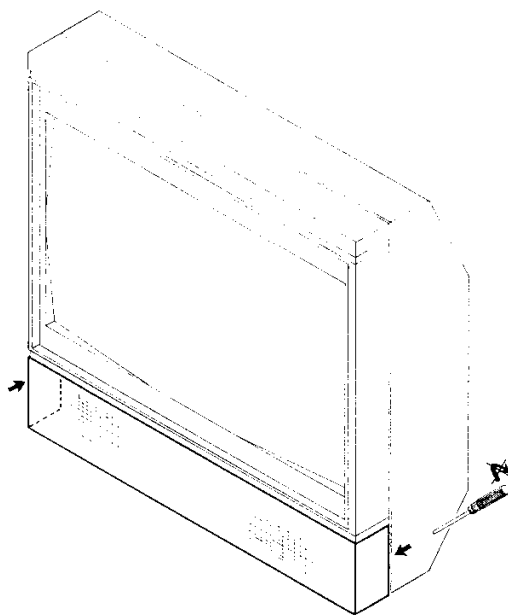
Release the lock with a screwdriver and remove the PCB by lifting it at its front.

NB! Ved demontering af IR-modtagerens hus skal IR-modtagerdioden loddes ud.

Note! If the housing of the IR-receiver is to be removed, the IR-receiver diode must be desoldered.

Højtalerpanel

Loudspeaker panel



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

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

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

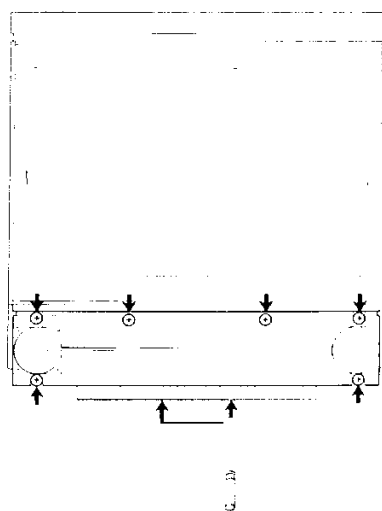
Carefully insert a screwdriver between the loudspeaker panel and the cabinet in the right-hand side of the set.

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

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

Højtalerbaffle

Loudspeaker baffle



De seks skruer fjernes.

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

Remove the 6 screws.

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.

REPARATIONS-TIPS

REPAIR TIPS

Chassis Modifications

Tabel 1

Type	Picture tube	Videocolor	ITT
	3140	8053219*1*2	8053219*1
	3141	8053219*2	8053219
	3143	8053272	8053272*2
	3144	8053272	8053272*2
	3145	8053272*1	8053272*1*2
	3146	8053272	8053272*2
	3147	8053272	8053272*2

*1 Change IR01 8341123 → 8341124

*2 Change chassis as shown in Tabel 2

Tabel 2

Pos. No.	Picture tube	Videocolor	ITT
	RG 05	270 kΩ	100 kΩ
	RG11	10 kΩ	4.7 kΩ
	RG 12	3.9 kΩ	1.2 kΩ
	RF17	3.3 Ω - 5011622	3 Ω - 5011614
	RL 54	10 kΩ	100 kΩ
	CL 48	12 nF - 4130429	11 nF - 4130435
	CL 53	10 kΩ	100 kΩ

Stand-by

Apparatet er i stand-by og kan ikke startes op.

Stand-by indikatoren lyser.

Kontroller, om der er kommunikation på I²C bussen.

Dette måles på ben 31 og 32 af 01IR01.

Apparatet tændes og forsøger at starte op tre gange, hvorefter det går i stand-by.

Det skyldes, at sikkerhedskredsløbet på ben 28 af 01IL14 aktiveres.

Kontroller kredsløbet omkring følertransistoren 01TL17.

Stand-by

The TV set is in stand-by and cannot start up.

The stand-by indicator lights.

Check whether there is communication on the I²C bus.

This is measured on pins 31 and 32 of 01IR01.

The TV set is switched on, tries to start up three times and then returns to stand-by. This is due to the activation of the protection circuit on pin 28 of 01IL14.

Check the sensor circuit including the transistor 01TL17.

FOR SERVICE MANUALS

CONTACT:

MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

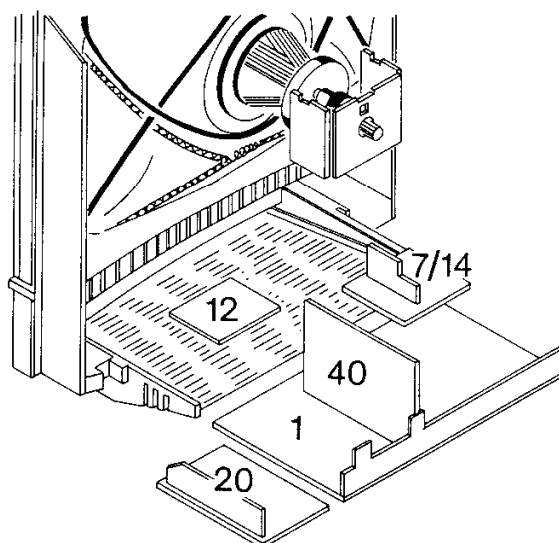
FAX: 01844 - 352554

Servicering af PAL/SECAM dekoderen PCB40

Når PAL/SECAM dekoderen PCB40 serviceres, kan lydmodulet PCB20 fjernes.

Servicing PAL/SECAM decoder PCB40

When servicing the PAL/SECAM decoder PCB40, the sound module PCB20 can be removed.



Desuden kan tekstmodulet PCB07 eller OSD-modulet PCB14 fjernes.

Apparatet viser nu billede, men der er ingen lyd, teletext eller display på skærmen.

Pil i øverste højre hjørne lyser.

The text module PCB07 or the OSD-module can also be removed. A picture can now be displayed on the screen, but there is no sound, teletext or display on the screen.

An arrow in the upper righthand corner lights.

Båndkabel mellem PCB40 og PCB02

Det sekspoledede båndkabel mellem PCB40 og PCB02 må ikke monteres før 30 sekunder efter, apparatet er slukket.

Det skyldes, at RGB-udgangen har stelforbindelse gennem det sekspoledede båndkabel.

Ribbon cable between PCB40 and PCB02

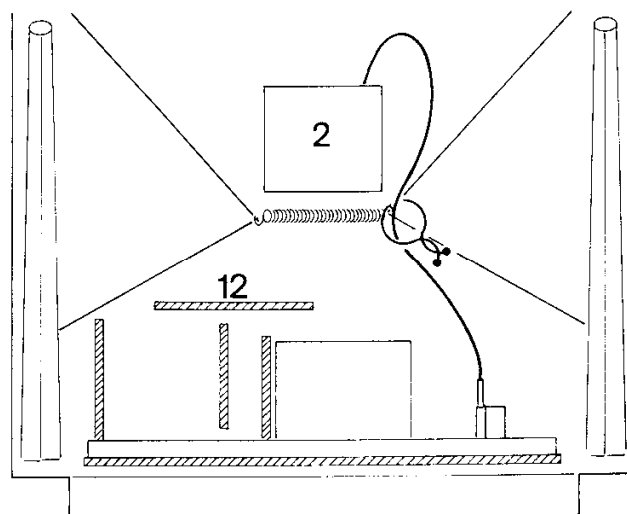
The 6-pin ribbon cable between PCB40 and PCB02 must not be mounted until 30 seconds after the set has been switched off. This precaution is necessary because the RGB output is connected to ground via the 6-pin cable.

Fokusledning

Indstråling fra fokusledningen kan hindre datakommunikationen på PCB12. Derfor må fokusledningen ikke komme i nærheden af PCB12, og ved samling af apparatet bør fokusledningen monteres som vist på tegningen.

Focus wire

Interference from the focus wire can impede the data communication on PCB12. Consequently, the focus wire must be kept away from PCB12, and when assembling the set the focus wire should be mounted as shown on the drawing.



SLUTAFPRØVNING

Denne afprøvning kan benyttes som kontrol, efter at reparationen er afsluttet.

Tilslutninger

TV'et tilsluttes lysnettet og et antennesignal.

Nærbetjening

Hovedafbryderen aktiveres → Stand-by indikator lyser

 aktiveres → Starter på P1, hvis TV'et har været frakoblet netspændingen, og ellers på sidst benyttede program

Beolink 1000 fjernbetjening

Tænd

 → Starter på sidst benyttede program
0-31 → Starter på valgte programnummer

Tune

Direkte frekvensvalg
Indstilling af ønsket frekvens, f.eks. 543MHz (kanal 30), på et programnummer ml. 0 og 31.
Omregningstabel for frekvens/kanal findes i betjeningsvejledningen (Frekvensoversigt).

 → Grønt display
 → Gult display

Store

Den indstillede frekvens kan lægges i hukommelsen på et programnummer mellem 1 og 31.

 → Rødt display
 → Programnummer 1 vælges
 → Grønt display
 → Stand-by
 → Den på programnummer 1 lagrede frekvens vises

Tune

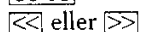
Søgning

Søgning under det valgte programnummer (0-31)

 eller  → Søgning stopper på nærmeste senderfrekvens

Finindstilling

Ønskede frekvens er fundet.
Billedet står ikke skarpt.

 → Grønt display
 eller  → FT (fine tune) kan varieres op (+) eller ned (-)

FINAL TEST

This test may be used as a check-up after the repair has been carried out.

Connections

Connect the TV set to the mains supply and an aerial signal.

Direct Operation

Activate the mains switch → The stand-by indicator lights

Activate  → Starts on P1 if the TV set has been disconnected from the mains supply or else on the programme last seen

Beolink 1000 Remote Control

Switching On

 → Starts on the programme last seen
0-31 → Starts on the preset No selected

Tuning

Direct frequency selection
Setting of a desired frequency, e.g. 543MHz (channel 30), on a preset No between 0 and 31.
Conversion table for frequency/channel, see owner's manual (List of frequencies).

 → Green display
 → Yellow display

Store

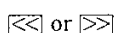
The set frequency can be stored on a preset No between 0 and 31.

 → Red display
 → Selection of preset No 1
 → Green display
 → Stand-by
 → The frequency stored on the selected preset No is shown

Tuning

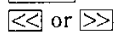
Search

Search on the selected preset No (0-31)

 or  → The search stops at the closest transmitter frequency

Fine Tuning

The frequency desired has been found.
The picture is not sharp.

 → Green display
 or  → FT (fine tuning) may be varied up (+) or down (-)

Teletext

Kun ved apparater med indbygget teletext.

- TEXT** → Skifter til tekst-mode
 Vælg en side, f.eks. 100
GO TO **1** **0** **0** → Tekstside 100 vises
STORE **2** **STORE** → Tekstside 100 lagres på hukommelsesside 2
 ● → Stand-by
TEXT **2** → Hukommelsesside 2, tekstside 100 vises

Billede

- PICTURE** → »BRILLIANCE xx«, grønt display
☐ eller ☐ → Lys varieres mellem 0 og 31
PICTURE → »COLOUR xx«, grønt display
☐ eller ☐ → Farvemætningen varieres mellem 0 og 60
PICTURE → »CONTRAST xx«, grønt display
☐ eller ☐ → Kontrast varieres mellem 0 og 31

Lyd

- SOUND** → »VOLUME xx«, grønt display
☐ eller ☐ → volume varieres mellem 0 og 40
SOUND → »BALANCE x«, grønt display
☐ eller ☐ → Balance varieres mellem 8 og -8
SOUND → »TREBLE x«, grønt display
☐ eller ☐ → Diskantniveauet varieres mellem 5 og -4
SOUND → »BASS x«, grønt display
☐ eller ☐ → Basniveauet varieres mellem 5 og -4
SOUND → »VOLUME HP xx«, grønt display
☐ eller ☐ → Volume i hovedtelefon varieres mellem 0 og 32

To sprog

Ved modtagelse af to-sprogede udsendelser kan der vælges mellem sprog A og B.

- TURN** → Skifter mellem sprog A og sprog B. Indikeres af to røde pile i øverste højre hjørne (◀ = A, ▶ = B).

Teletext

Only applies to TV sets with built-in teletext.

- TEXT** → Switches into the text mode
 Select a page, e.g. 100
GO TO **1** **0** **0** → Shows text page 100
STORE **2** **STORE** → Text page 100 is stored on memory page 2
 ● → Stand-by
TEXT **2** → Shows memory page 2, text page 100

Picture

- PICTURE** → "BRILLIANCE xx", green display
☐ or ☐ → Brilliance varies in the range from 0 to 31
PICTURE → "COLOUR xx", green display
☐ or ☐ → Colour saturation varies in the range from 0 to 60
PICTURE → "CONTRAST xx", green display
☐ or ☐ → Contrast varies in the range from 0 to 31

Sound

- SOUND** → "VOLUME xx", green display
☐ or ☐ → Volume level varies in the range from 0 to 40
SOUND → "BALANCE x", green display
☐ or ☐ → Balance level varies in the range from 8 to -8
SOUND → "TREBLE x", green display
☐ or ☐ → Treble level varies in the range from 5 to -4
SOUND → "BASS x", green display
☐ or ☐ → Bass level varies in the range from 5 to -4
SOUND → "VOLUME HP xx", green display
☐ or ☐ → Volume level in head phones varies in the range from 0 to 32

Dual Languages

When receiving dual language programmes, language A or B may be selected.

- TURN** → Switches between language A and language B. This is indicated by two red arrows in the upper righthand corner (◀ = A, ▶ = B)

FOR SERVICE MANUALS
 CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
 TEL: 01844 - 351694
 FAX: 01844 - 352554

Stereo lyd

Ved modtagelse af stereo-lyd skifter TV'et automatisk til stereo. Stereo indikeres af to røde pile i øverste højre hjørne.

- TURN** → Mono-lyd, røde pile slukket
TURN → Stereo-lyd, to røde pile i øverste højre hjørne

Ved skift til anden stereo-udsendelse vil TV'et automatisk skifte til stereo.

Shift funktioner

Tidskonstant

- SHIFT** **2** → Tidskonstanten ændres til en perfekt synkronisering mellem TV'et og en video-båndoptager (»toggle«-funktion). Indikeres med »A/V« efter programnummeret på skærmen

System B/System L/System M

- SHIFT** **3** → Systemskift (»toggle«-funktion)

Billede

Der foretages kontrol af geometri, højspænding, fokus, følsomhed, hvid balance, farvespring, opløsning, slæb, skygger, interferens og gråskala.

Stereo Sound

When receiving stereo sound, the TV set automatically switches to stereo. Stereo is indicated by two red arrows in the upper righthand corner.

- TURN** → Mono sound, no red arrows in the upper righthand corner
TURN → Stereo sound, two red arrows in the upper righthand corner

When switching to another stereo transmission, the TV-set automatically switches to stereo sound.

Shift Functions

Time constant

- SHIFT** **2** → The time constant is changed into a perfect synchronization between the TV set and a video recorder (toggle function). This is indicated by "A/V" after the preset No

System B/System L/System M

- SHIFT** **3** → Change of system (toggle function)

Picture

Check geometry, high voltage, focus, sensitivity, white balance, colour switching, resolution, ringing, ghosts, interference and grey scale.

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

ISOLATIONSTEST

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

Der må ikke forekomme overslag under testen!

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes den ene af terminalerne på isolationstesteren. Den anden terminal tilsluttes stelbenet i en af højttalerstikdåserne.

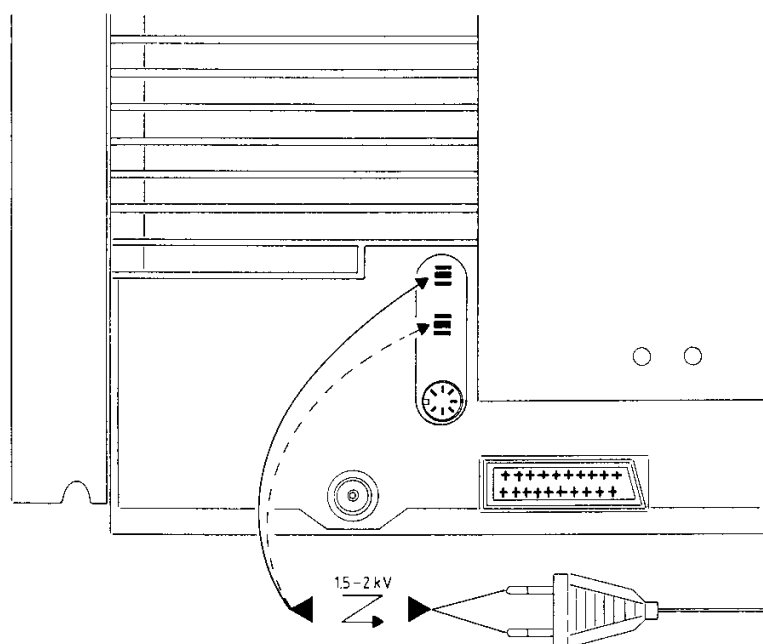
INSULATION TEST

Each set must be insulation tested after having been dismantled. Make the test when the set has been reassembled and is ready to be returned to the customer.

Flashovers must not occur during the testing procedure!

Make the insulation test as follows:

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

**OBS!**

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

Spændingsreguleringen på isolationstesteren drejes langsomt op, indtil en spænding på 1,5-2 kV er opnået. Her skal den holdes i ét sekund, hvorefter der langsomt drejes ned for spændingen igen.

NOTE!

To avoid damaging the set it is essential that both terminals of the insulation tester have good contact.

Slowly turn the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Maintain that voltage for one second, then slowly turn it down again.

TECHNICAL SPECIFICATIONS		BEOVISION MX 4500	
Picture tube size		70 cm – 28"	
Visual picture size		66 cm – 26"	
Picture tube		Full square, black matrix, In line 110 degrees	
Cabinet		Red, white, black, blue and grey	
Operation		Beolink 1000, Audio Aux Link	
Screen display		Programme No., Frequency, Picture and Sound adjustments	
Sound system		Stereo decoder A2 built-in, Bilingual sound A2 built-in	
		Stereo enhancement, mono pseudo stereo	
Nicam stereo		Prepared for Nicam stereo module	
Teletext		5 languages: S-D-GB-I-F	
Teletext memory		4 complete pages, + 4 page numbers for each TV programme, total 128 numbers	
Number of TV programmes		32	
Digital tuning system		VHF + S + Hyper + UHF channels	
Tuner range		45 – 855 MHz	
Transposer French L system		Built-in	
Satellite programmes		Prepared for Beosat RX, AV Link 21-pin	
		Beolink 1000 operation	
Speaker system, stereo		2 Log Line	
Speaker units		2 x 7.5 cm – 3"	
Sound power output RMS		2 x 15 watts/8 ohms	
Sound power output music		2 x 18 watts/8 ohms	
Harmonic distortion		<0.5%	
Intermodulation		<1%	
Frequency range ±1.5 dB		20-20,000 Hz	
Power bandwidth		20-12,500 Hz	
Signal-to-noise ratio		>50 dB	
Bass control		+16 -6 dB/60 Hz	
Treble control		±10 dB/10,000 Hz	
Power supply		180-260 volts/50-60 Hz	
Power consumption		85 (63-150) watts	
Stand by		5 watts	
Dimensions W x H x D/Weight		65 x 67.5 x 46.5 cm/40.3 kg	
Connections:			
AV Link		21-pin	
Audio Aux Link		7-pin	
Stereo headphones		Jack, separate volume control	
External speakers		8 ohms	
Accessories:			
Stand		ST 5000: 3076	
Stand MX 4500 + VX 3000		ST 5000: 3076 + VX Shelf: 3077	
Beosat RX receiver, AV Link		3026	
Nicam stereo kit, EU		3037	
Nicam stereo kit, GB		3040	
AVX 1 Expander box 3099		3 sockets AV Link 21-pin, 2 sockets Audio Aux Link 7-pin	
Loop amplifier		3098	

FOR SERVICE MANUALS:
CONTACT:

MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

**FOR SERVICE MANUALS
CONTACT:**
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
 TEL: 01844 - 351694
 FAX: 01844 - 352554

Type Survey

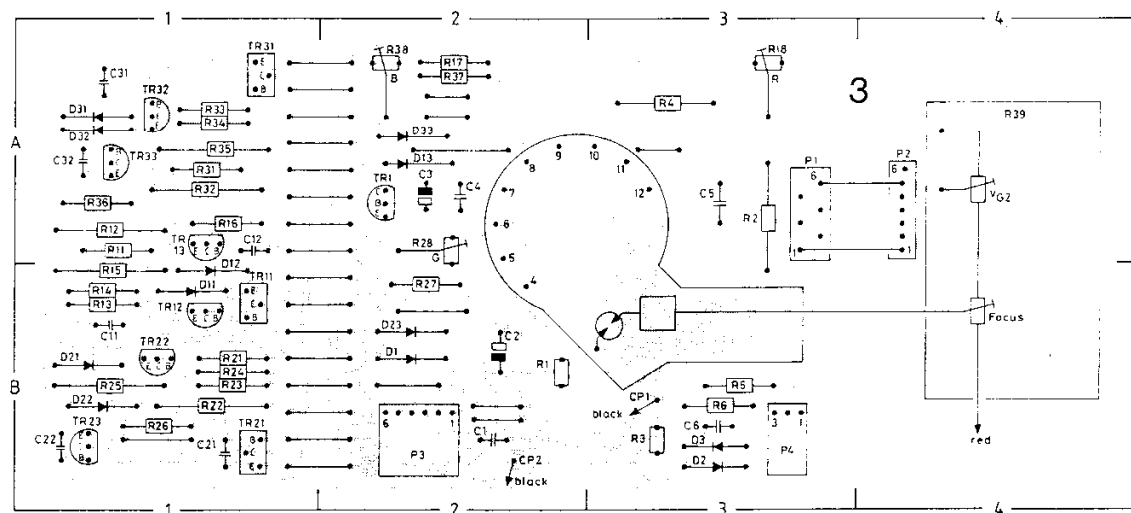
Type		Colour	System	Teletext	Transposer
3201	EU-MULTI	PAL/SECAM	B-G-I-L	X	X
3203	AUS	PAL/SECAM	B-G	X	
3204	I	PAL/SECAM	B-G	X	
3206	EU-FTZ	PAL/SECAM	B-G	X	
3207	E	PAL/SECAM	B-G	X*	

*6 character S-D-GB-I-F-E

Subject to change without notice

PRINTDRAWINGS AND OSCILLOGRAMS

PCB3, Video Output



PCB 1, Basic Board

See page 2-5

PCB 7, Teletext

See page 2-4

PCB 20, Sound

See page 2-4

AM/FM Sound

See page 2-4

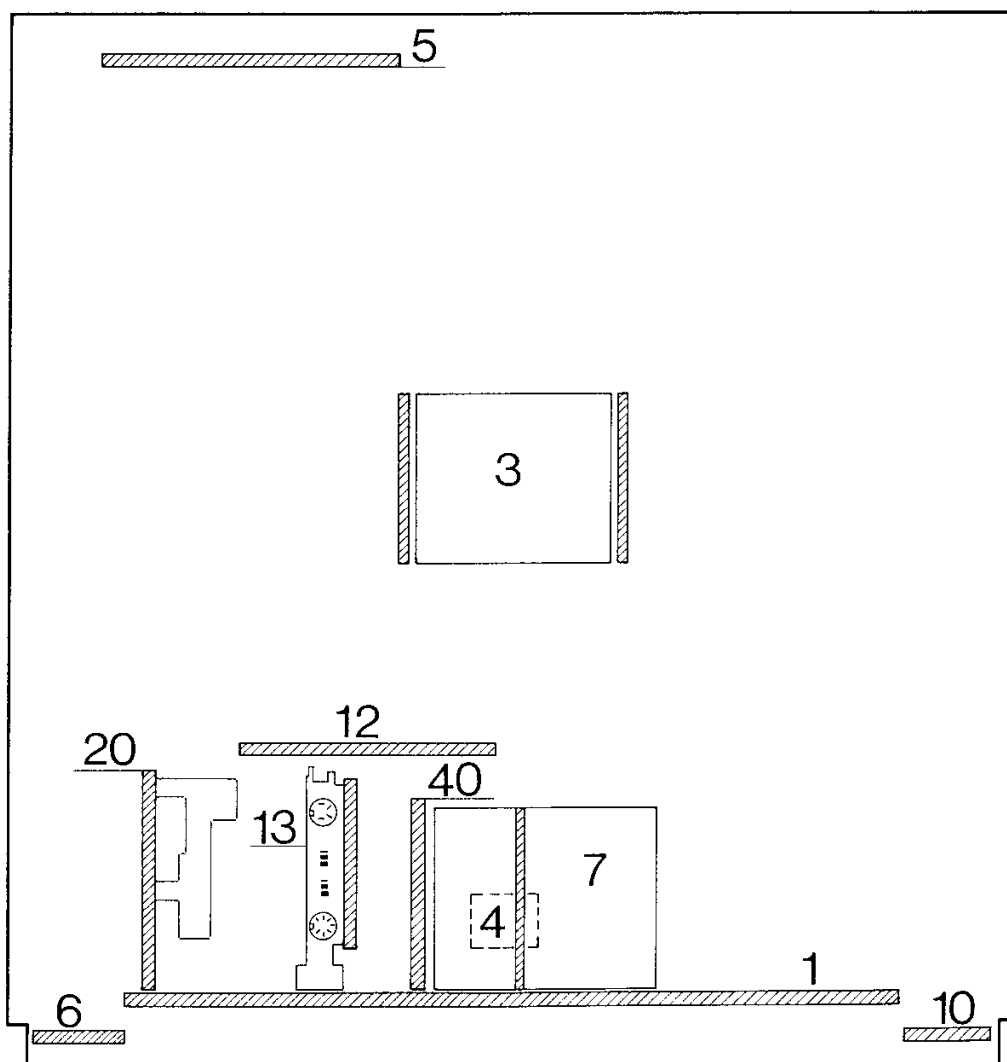
PCB 40, Pal/Secam Decoder

See page 2-7

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

Bang & Olufsen

1 Basic Board	diagr. A-D-E-F-G page 10-2, 5, 6, 7, 8	10 Mains Filter	diagr. G page 10-8
3 Video Output	diagr. C page 10-4	12 Interface Audio/Data	diagr. E-G page 10-6, 8
4 Speaker Panel	diagr. E page 10-6	13 A/V Connections	diagr. E page 10-6
5 IR-Receiver	diagr. G page 10-8	20 Sound B/G/I/L/M	diagr. D-E page 10-5, 6
6 Program Step/Headphone	diagr. E-G page 10-6, 8	40 Pal/Secam Decoder	diagr. B-C page 10-3, 4
7 Teletext	diagr. H page 10-9		



Beovision MX4500

Bang & Olufsen

INDHOLDSFORTEGNELSE

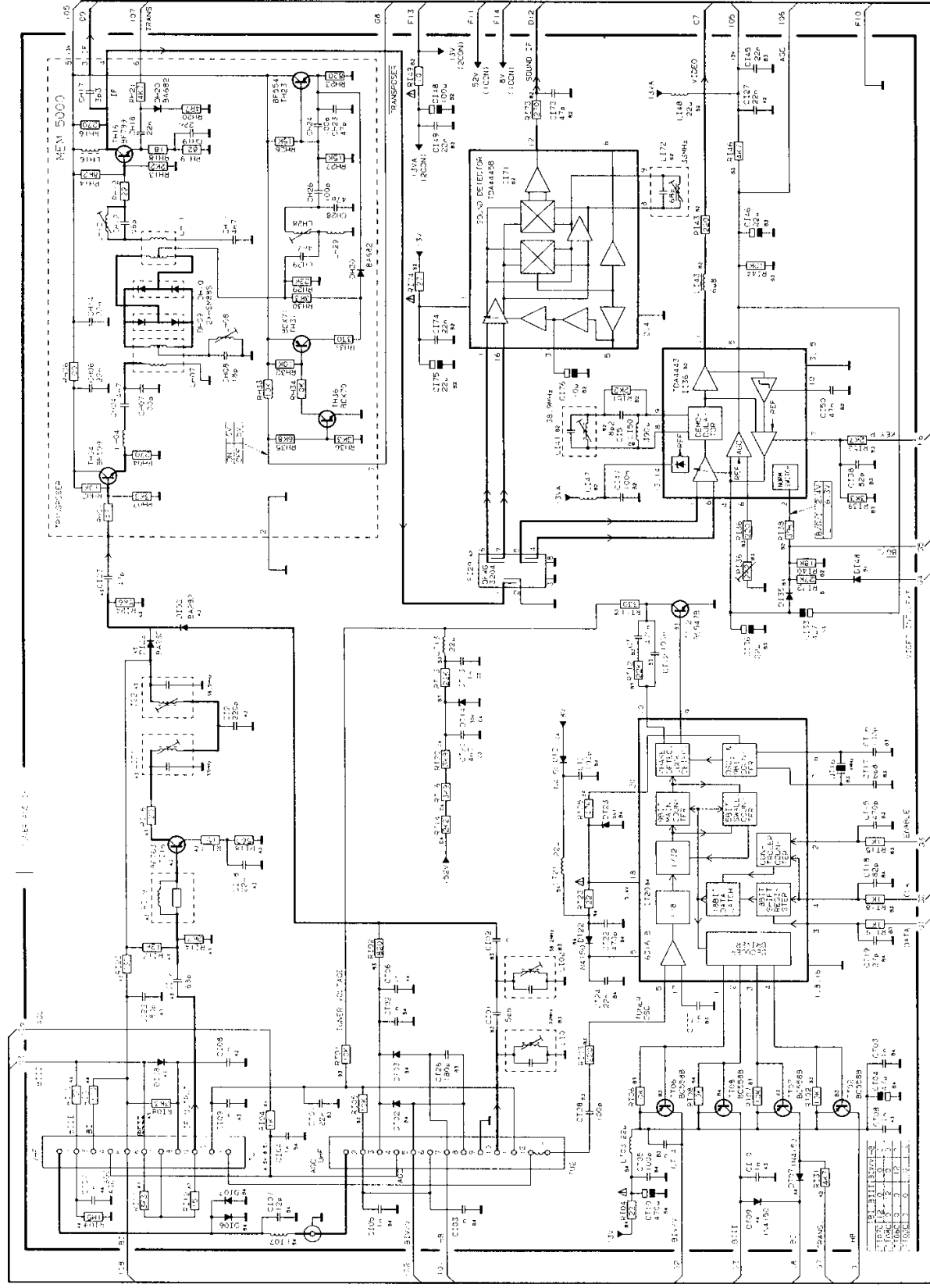
Tekniske data	9
Diagrammer m.m.	
Diagrammer	10-2 - 10-9
Printtegninger og oscillogrammer	9-2
Diagramforklaring	2-1
Symbol for sikkerhedskomponenter	2-2
Målebetingelser	2-2
Diagram over VHF og UHF tuner	2-2
Ledningsdiagram	2-2
Blokdiagram	2-3
Elektrisk styklister	11
Mekanisk styklister	12
Stand 5000	12-4
Justeringsvejledning	13
Adskillelse	14
Reparationstips	
Stand-by	7-1
Servicering af Pal/Secam Dekoderen	7-2
Båndkabel mellem PCB40 og PCB3	7-2
Fokusledning	7-2
Slutafprøvning	15-1
Isolationstest	16

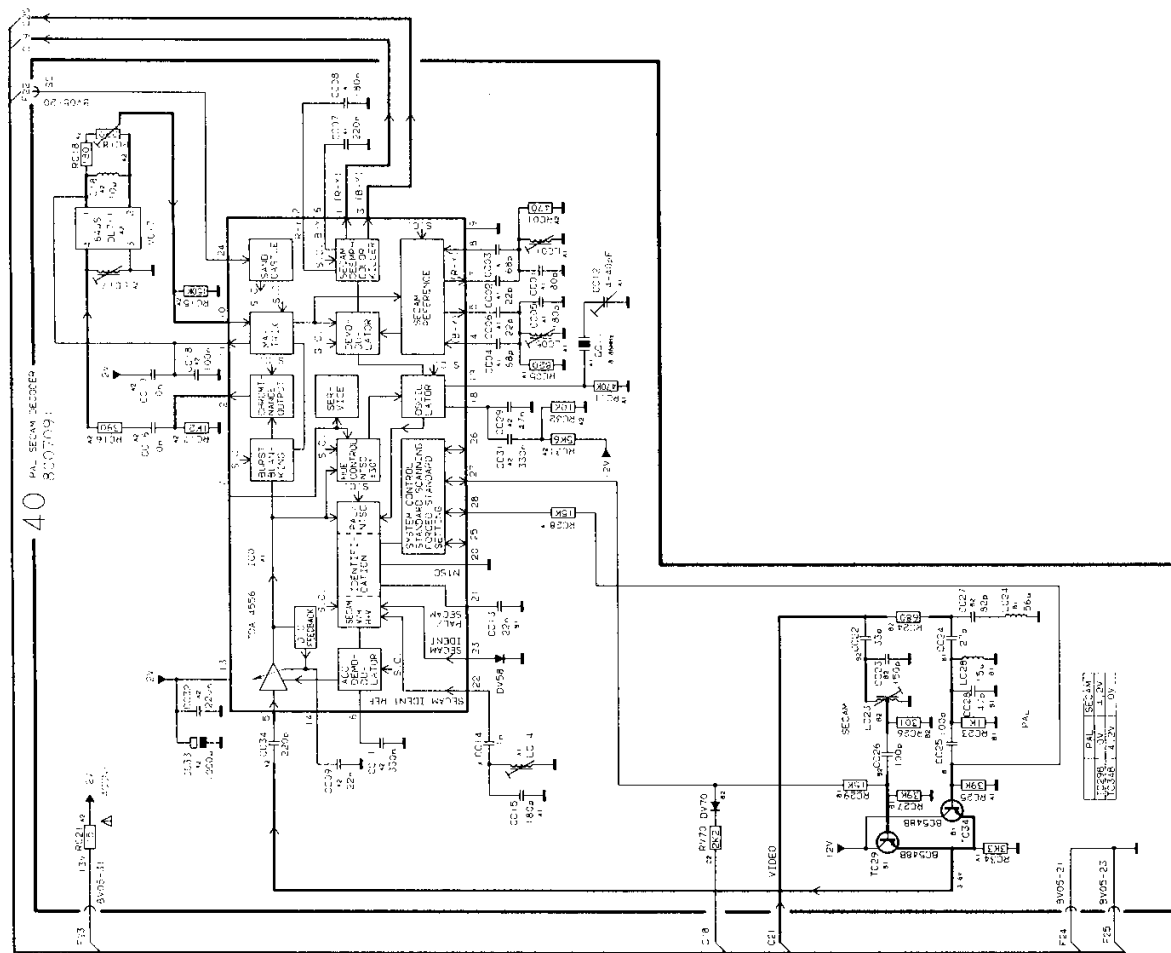
CONTENTS

Technical specifications	9
Diagrams etc.	
Diagrams	10-2 - 10-9
Printdrawings and oscillograms	9-2
Explanation of diagram	2-1
Symbol of safety components	2-2
Measuring conditions	2-2
Diagram of VHF and UHF tuner	2-2
Wiring diagram	2-2
Blockdiagram	2-3
List of electrical parts	11
List of mechanical parts	12
Stand 5000	12-4
Adjustments	13
Disassembly	14
Repair tips	
Stand-by	7-1
Servicing Pal/Secam decoder PCB40	7-2
Ribbon cable between PCB40 and PCB3	7-2
Focus wire	7-2
Final test	15-1
Insulation test	16

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

DIAGRAM A TUNER AND IF SYSTEM

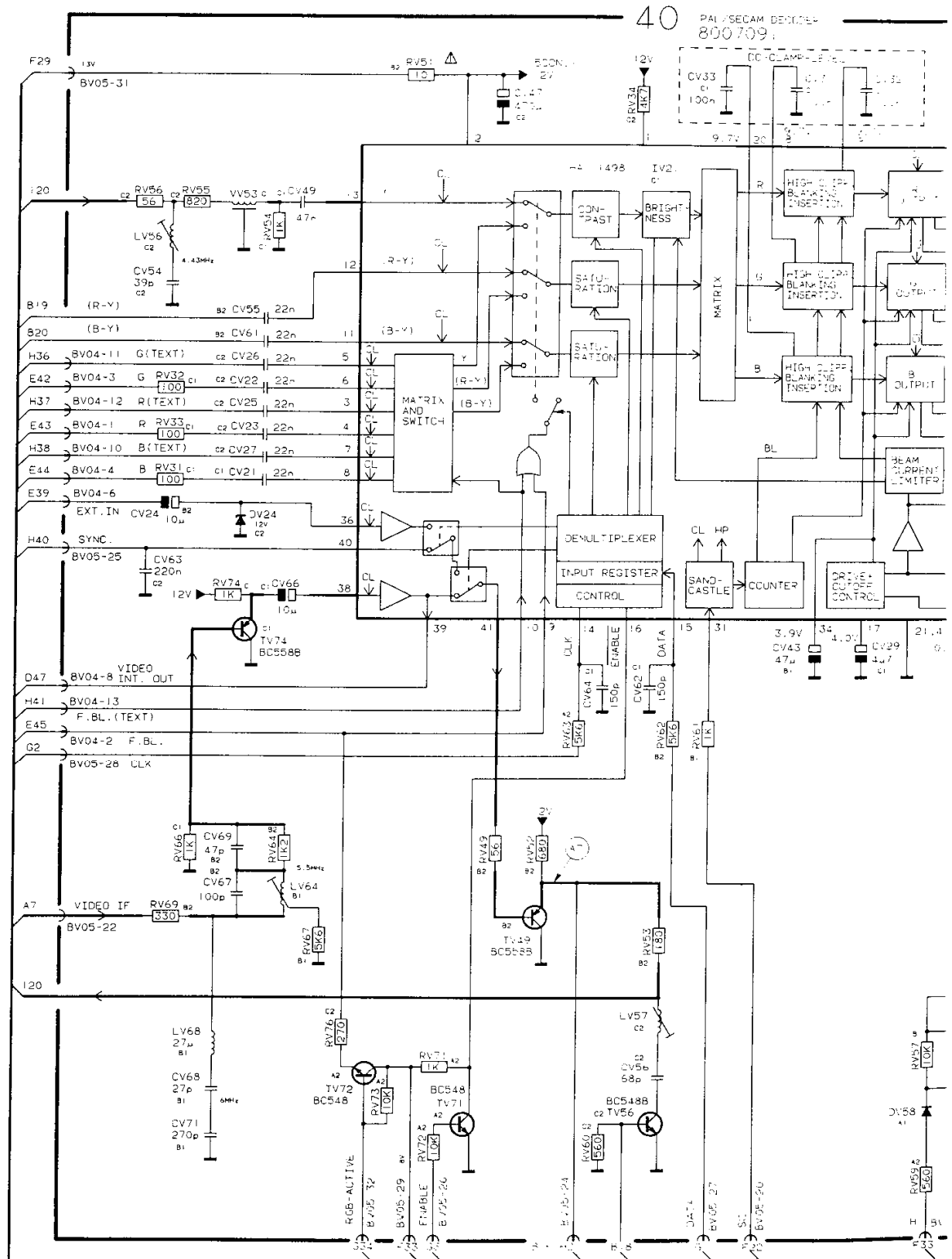


40
 PA- SECAM DE
 800709:

FOR SERVICE MANUALS
CONTACT:

www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

DIAGRAM C PAL/SECAM DECODER, VIDEO OUTPUT



10-4

10-4

VIDEO OUTPUT

FOR SERVICE MANUALS

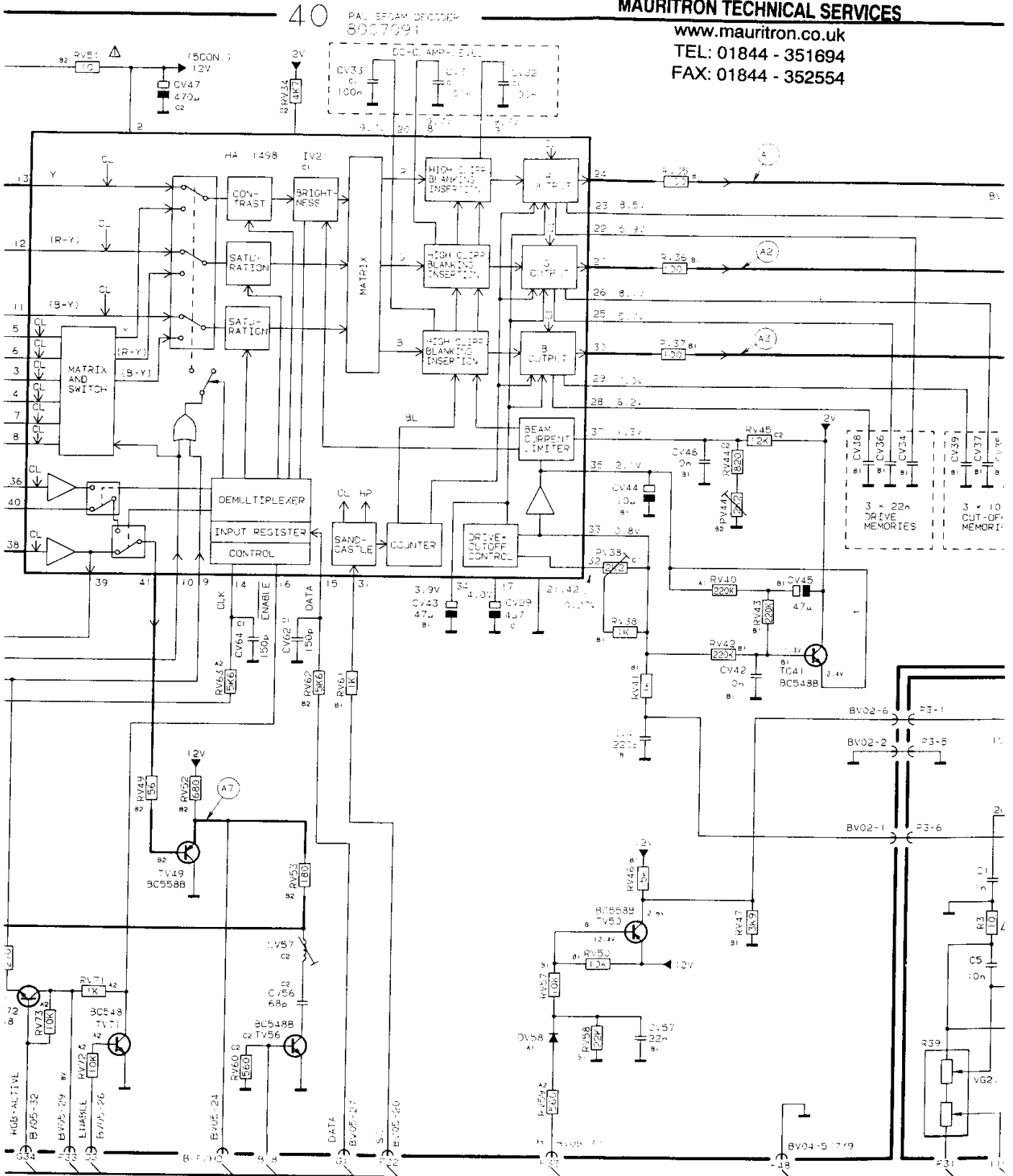
CONTACT:

MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554



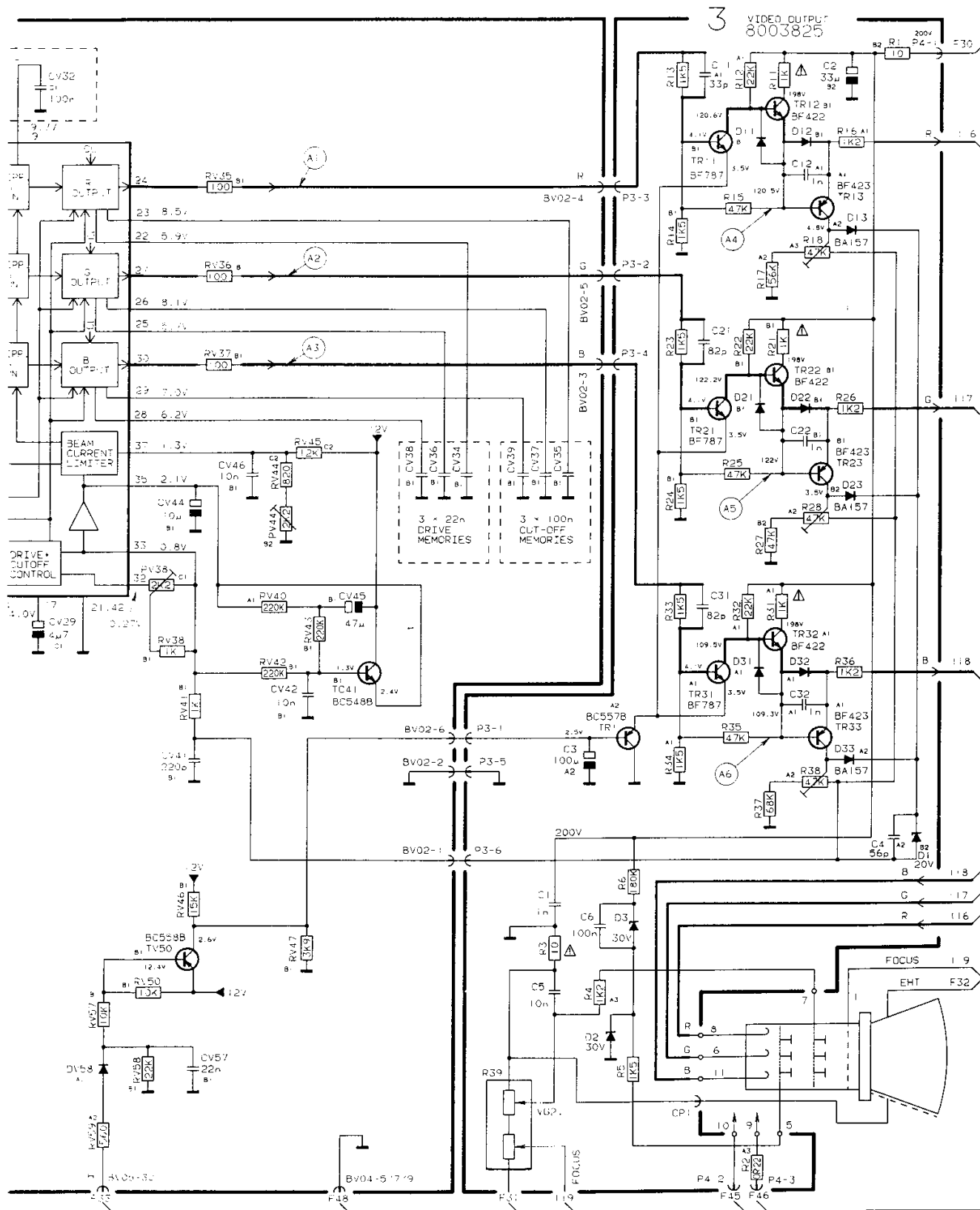
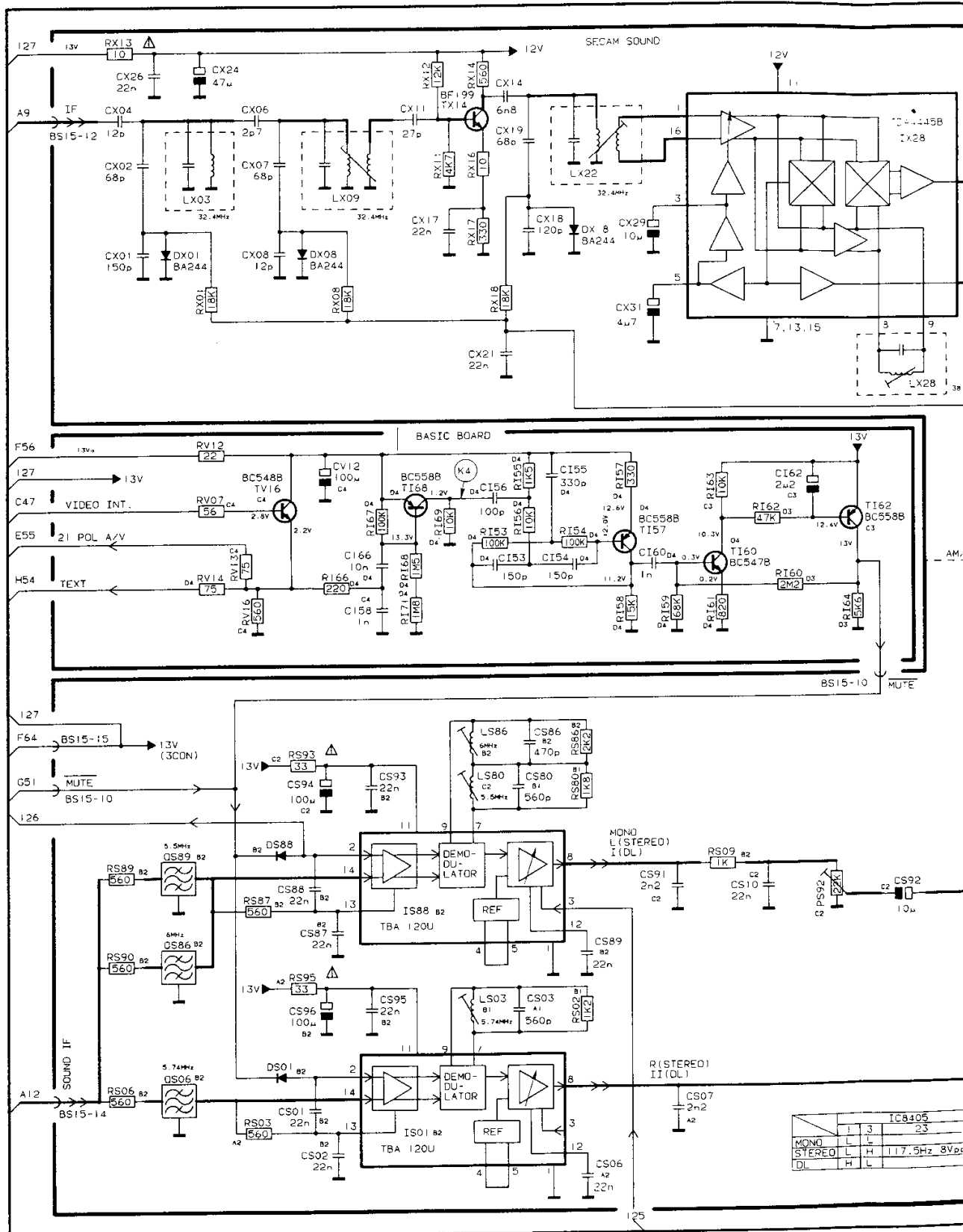


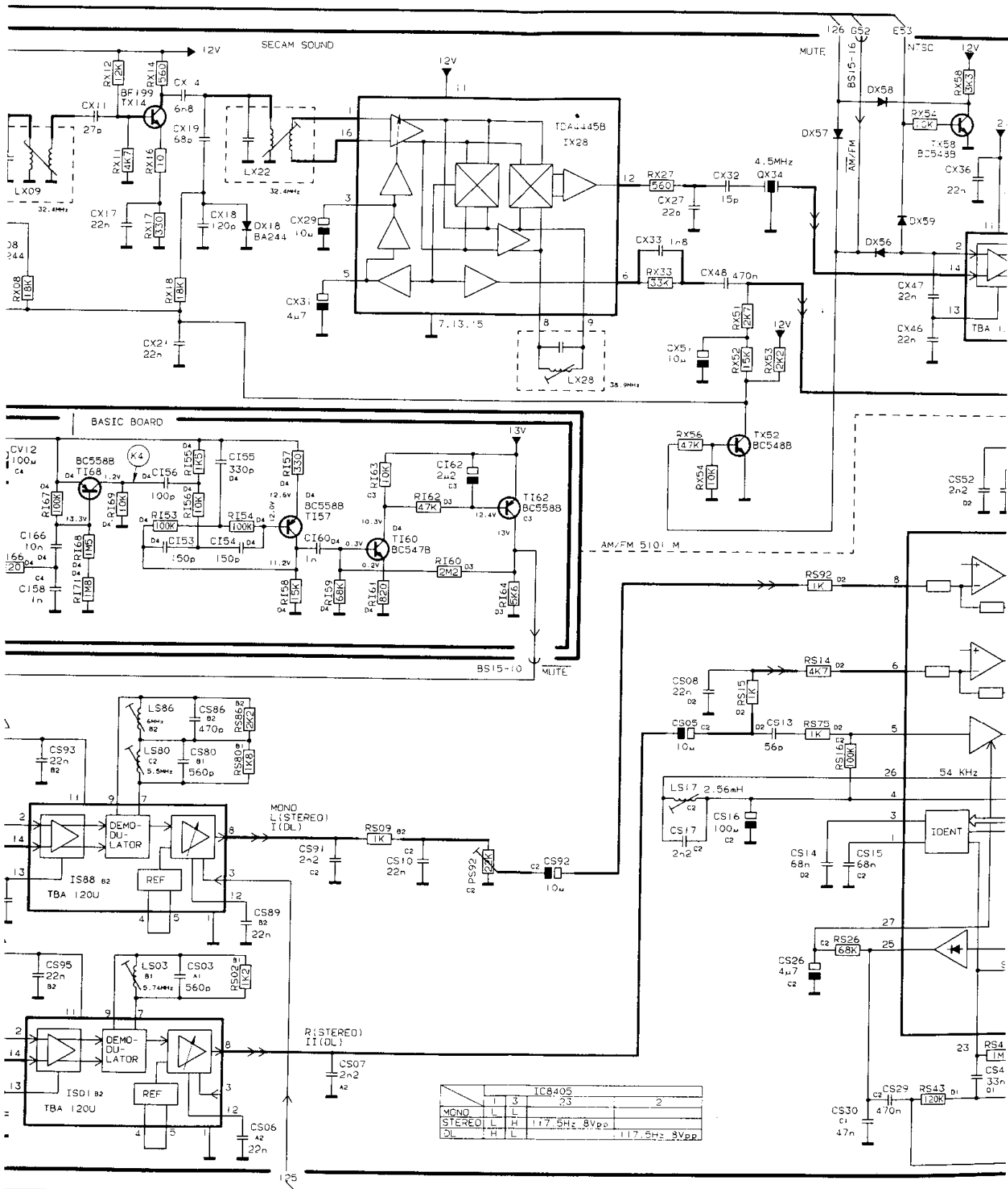
DIAGRAM D STEREO DECODER, SOUND CONTROLS

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554





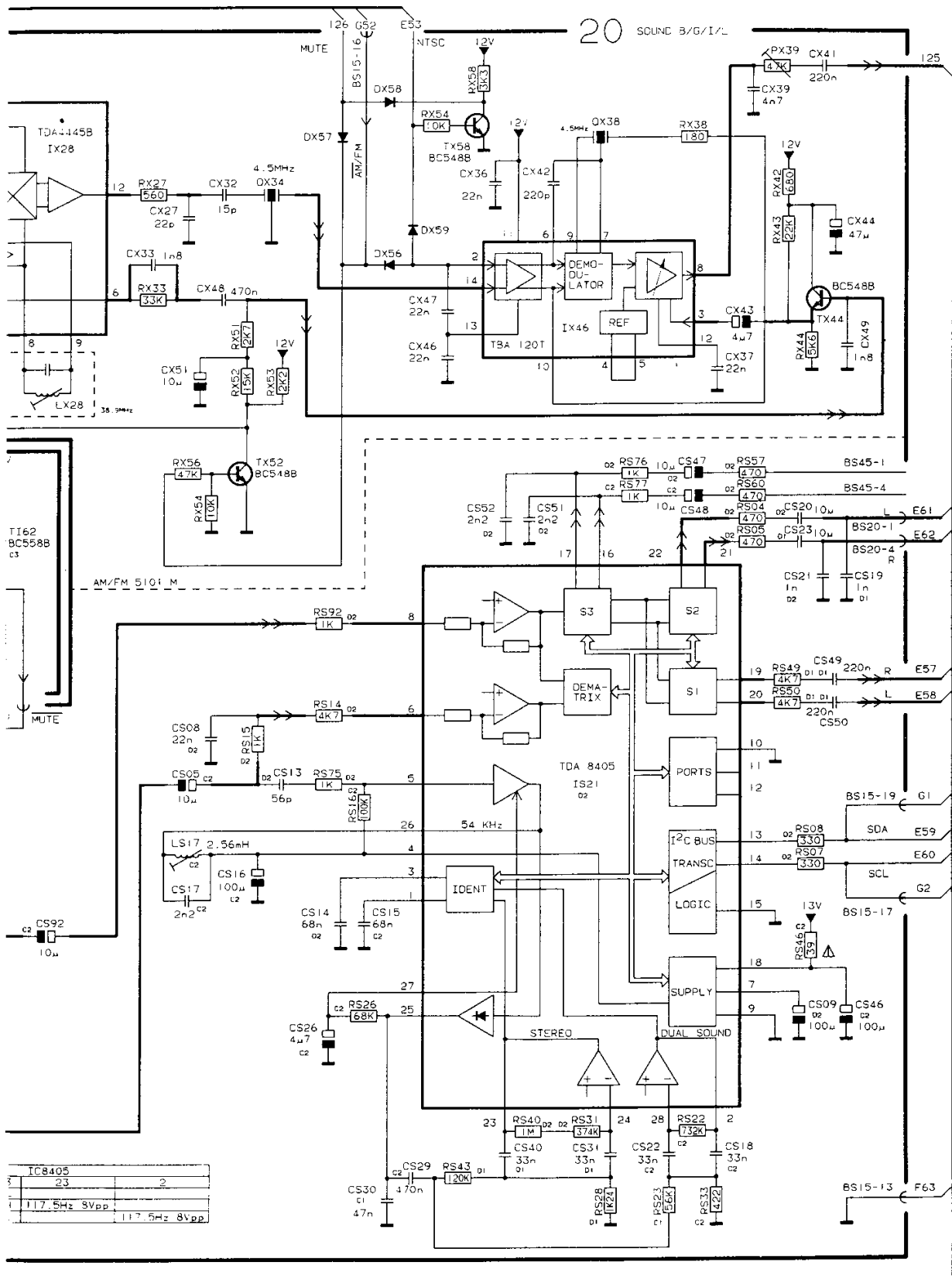
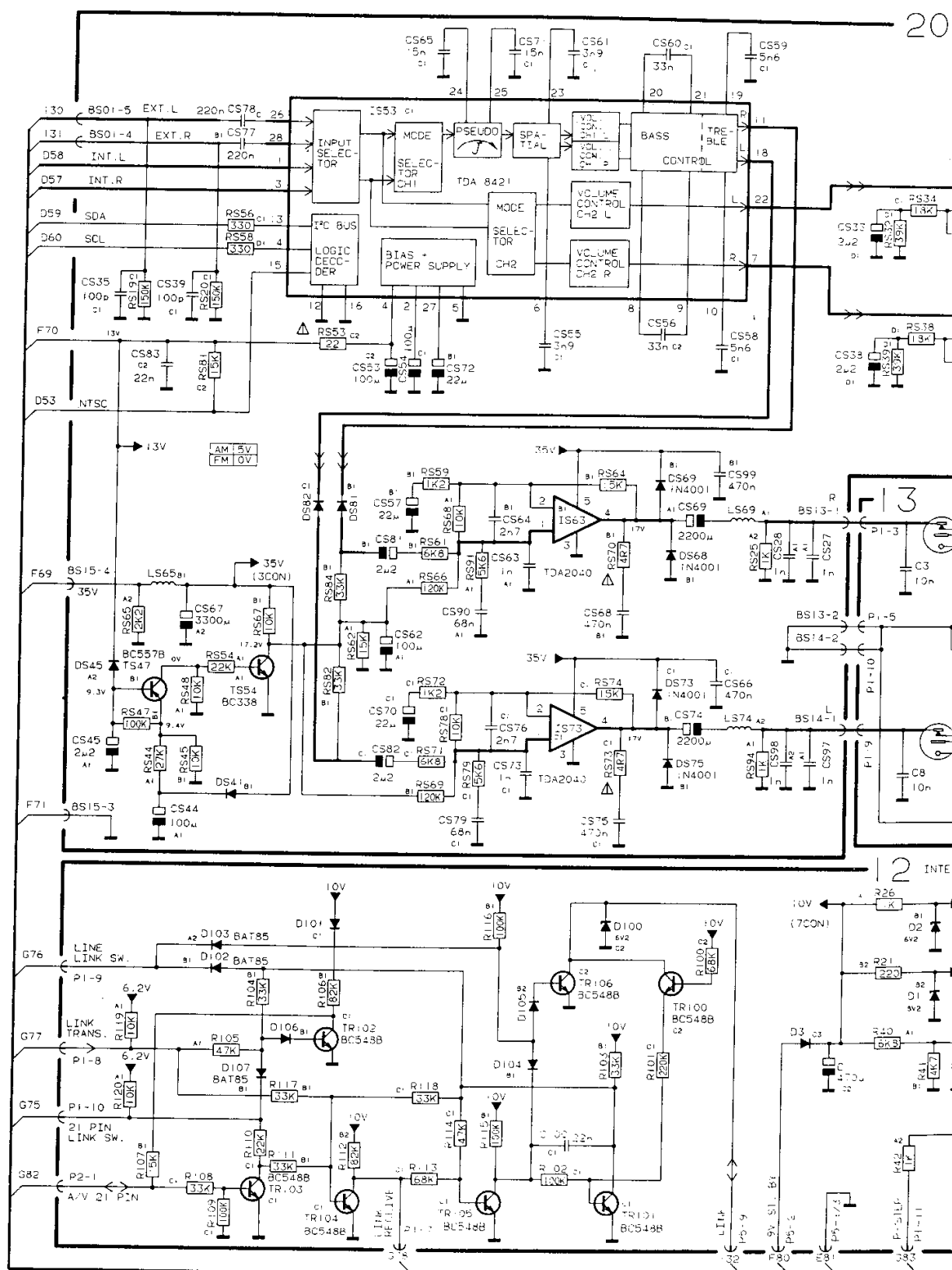
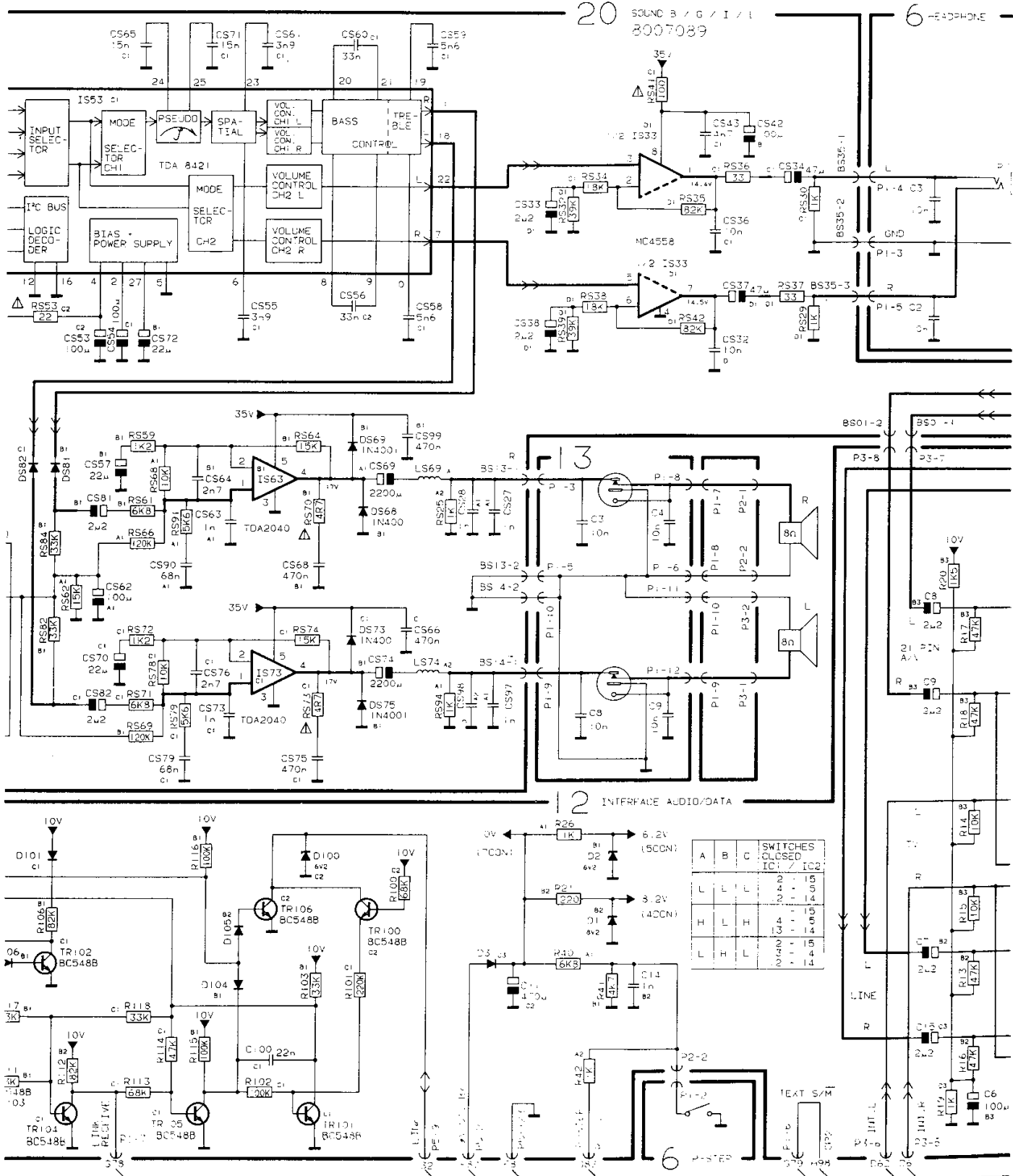
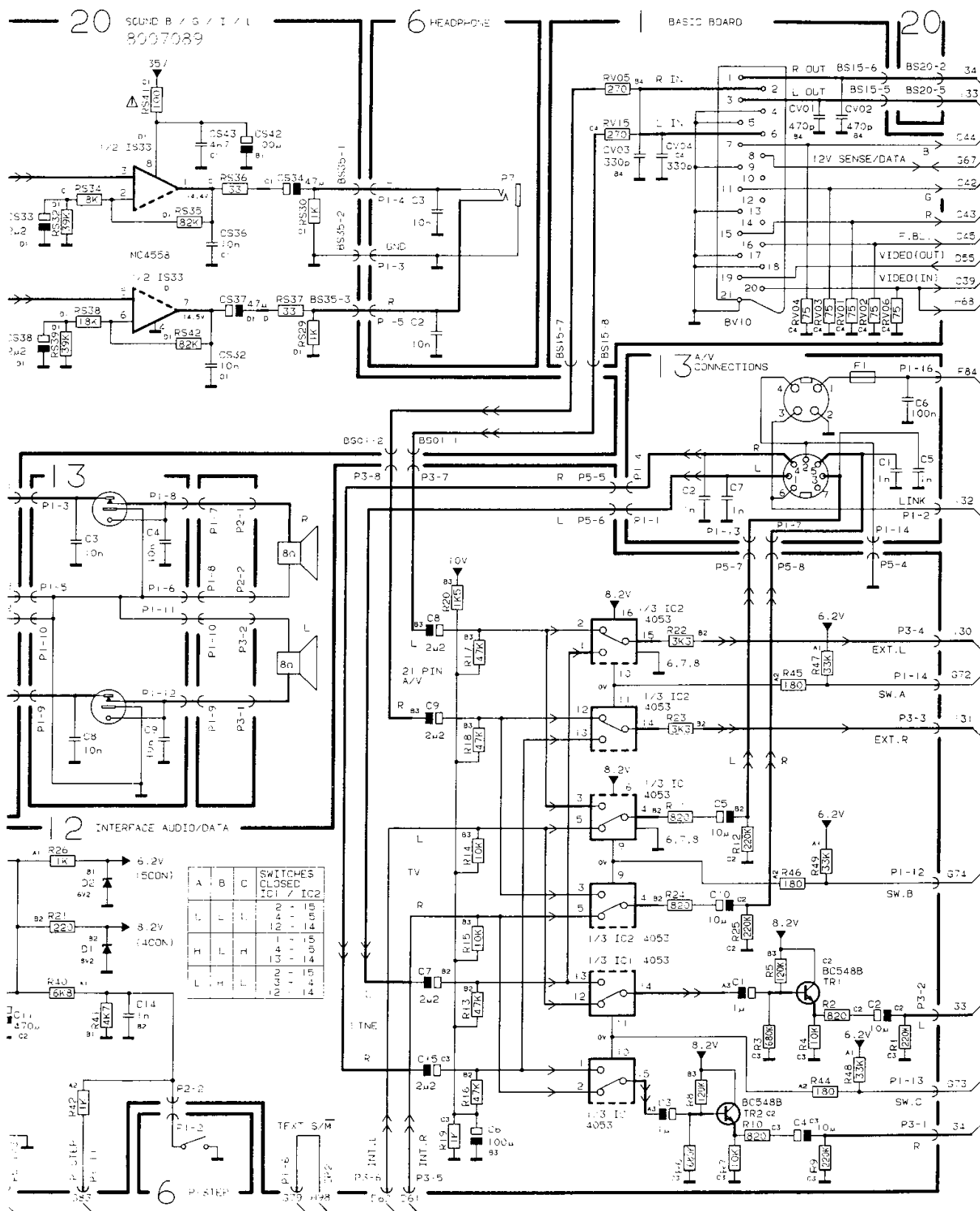


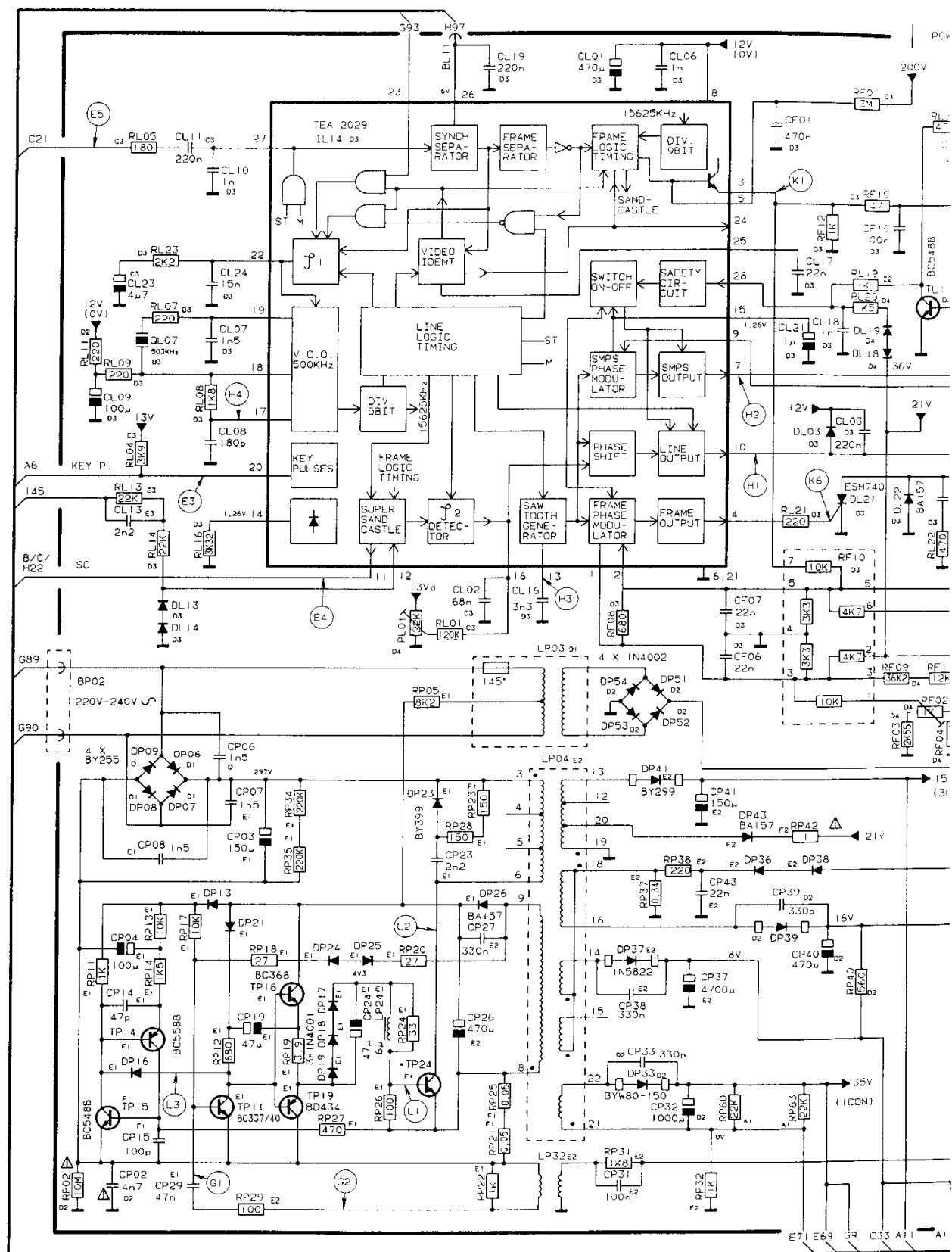
DIAGRAM E AF-AMPLIFIER, LINK INTERFACE, A/V CONNECTIONS

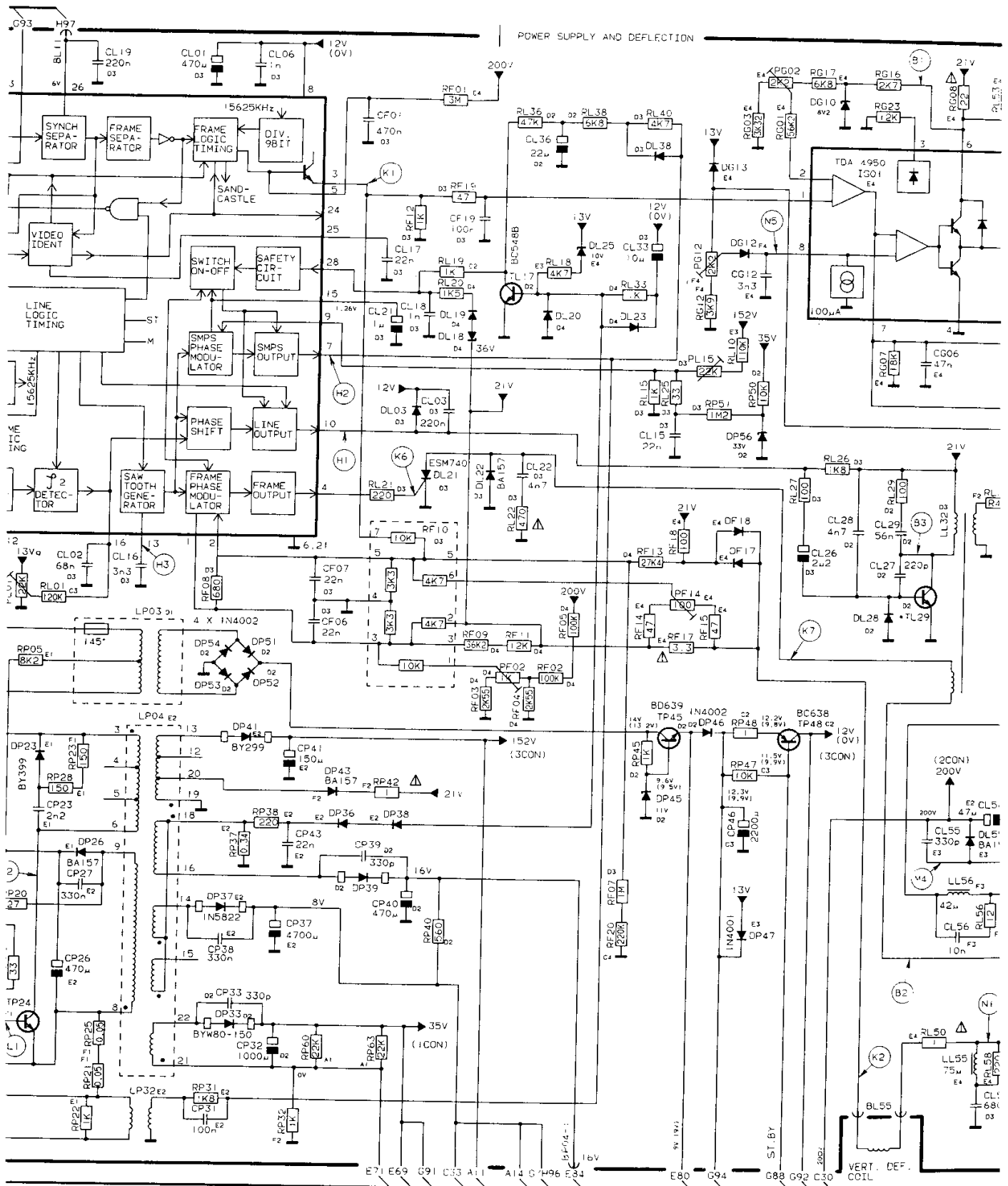


20 SOUND B / G / I / L 6 HEADPHONE
8007089









POWER SUPPLY AND DEFLECTION

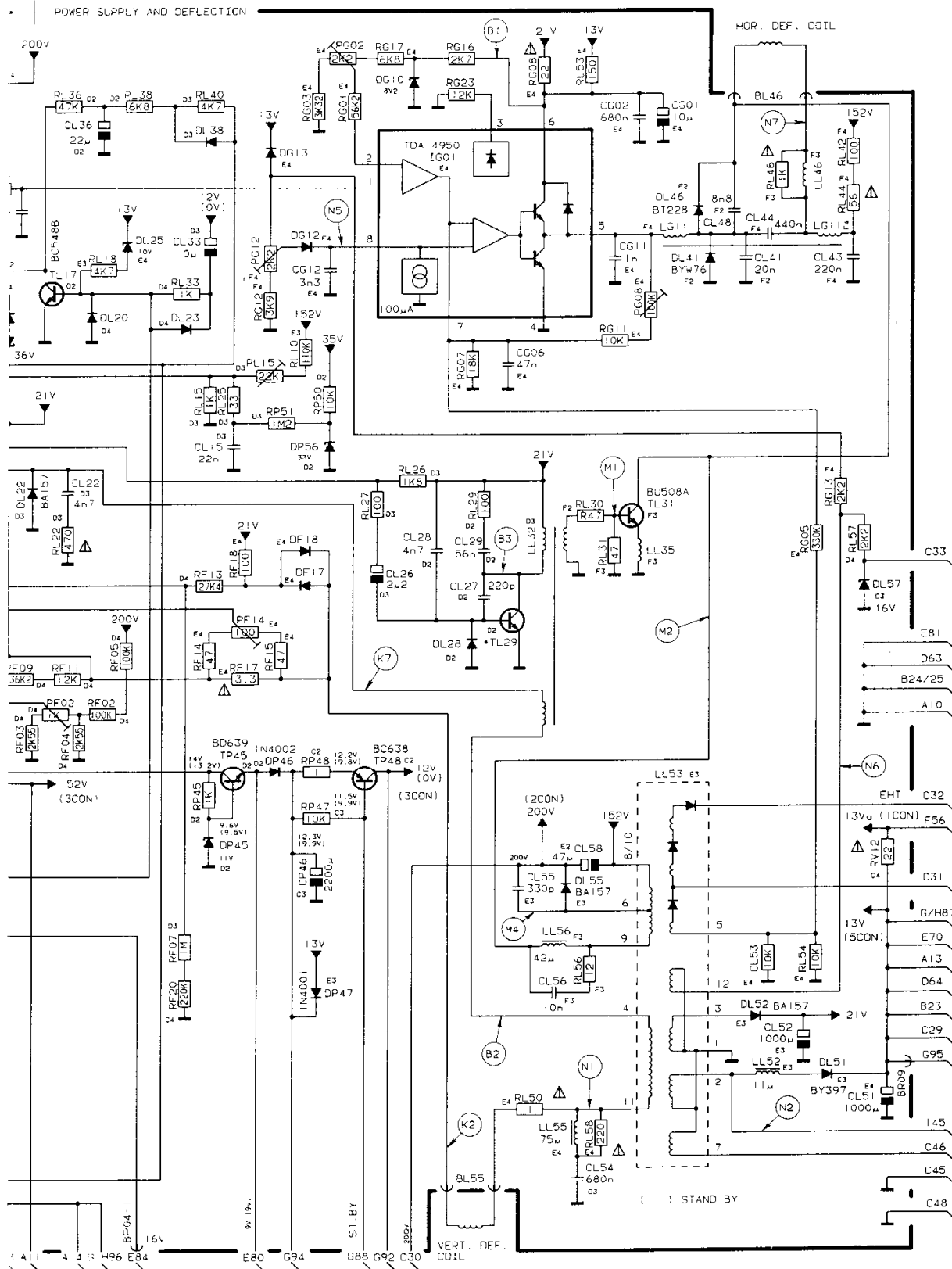
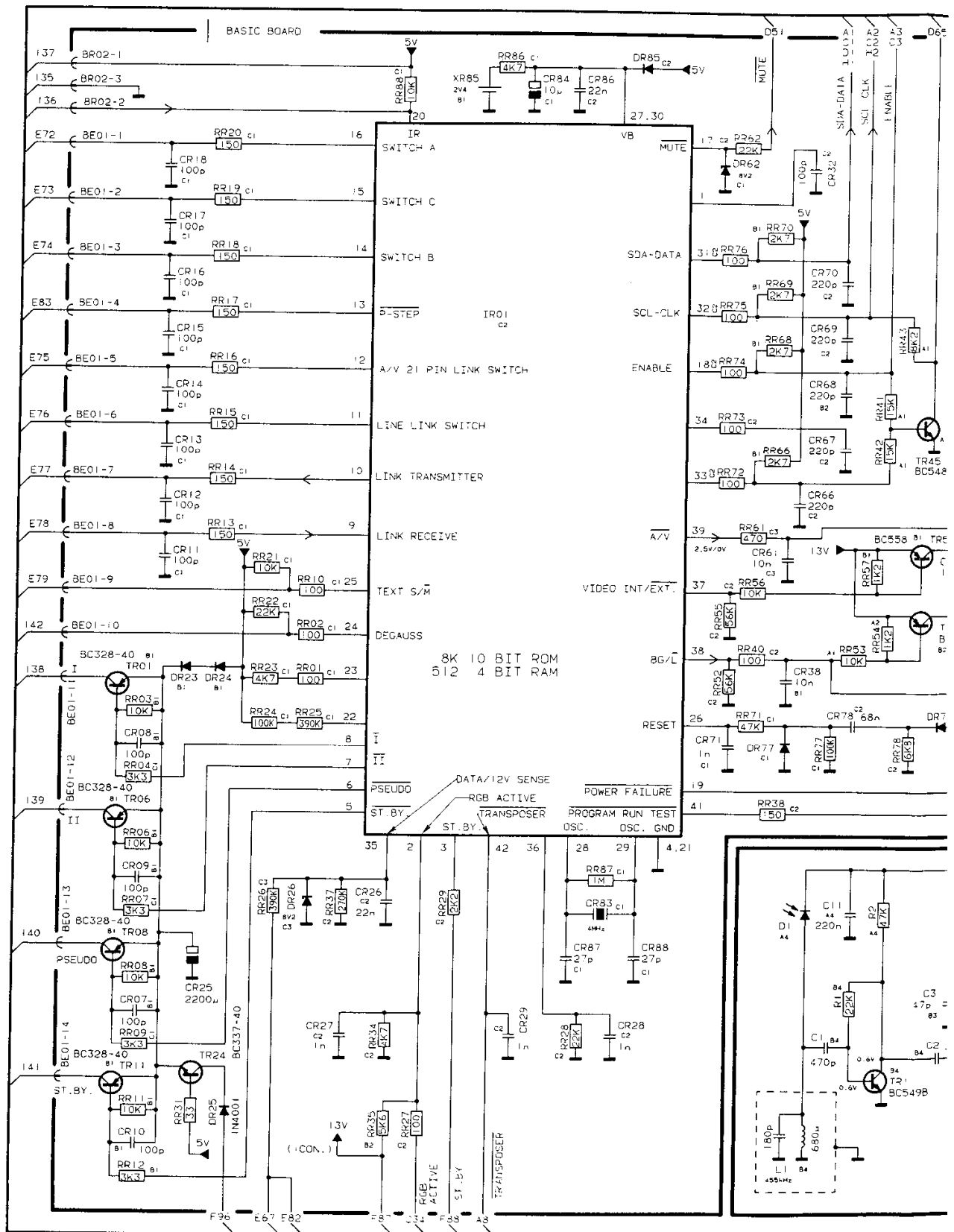


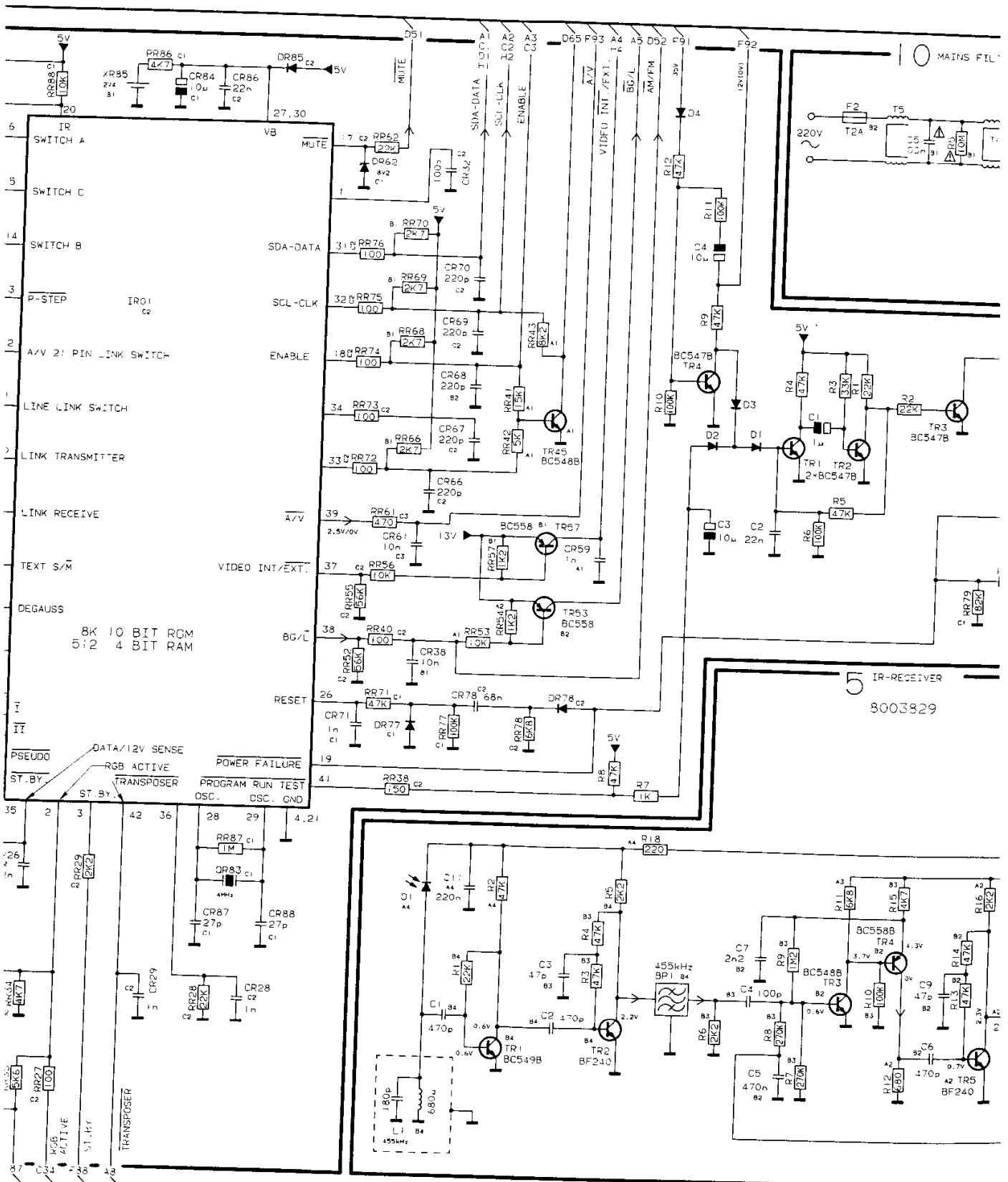
DIAGRAM G IR-RECEIVER, CONTROL, MAINS SWITCH



10-8

10-8

MAINS SWITCH



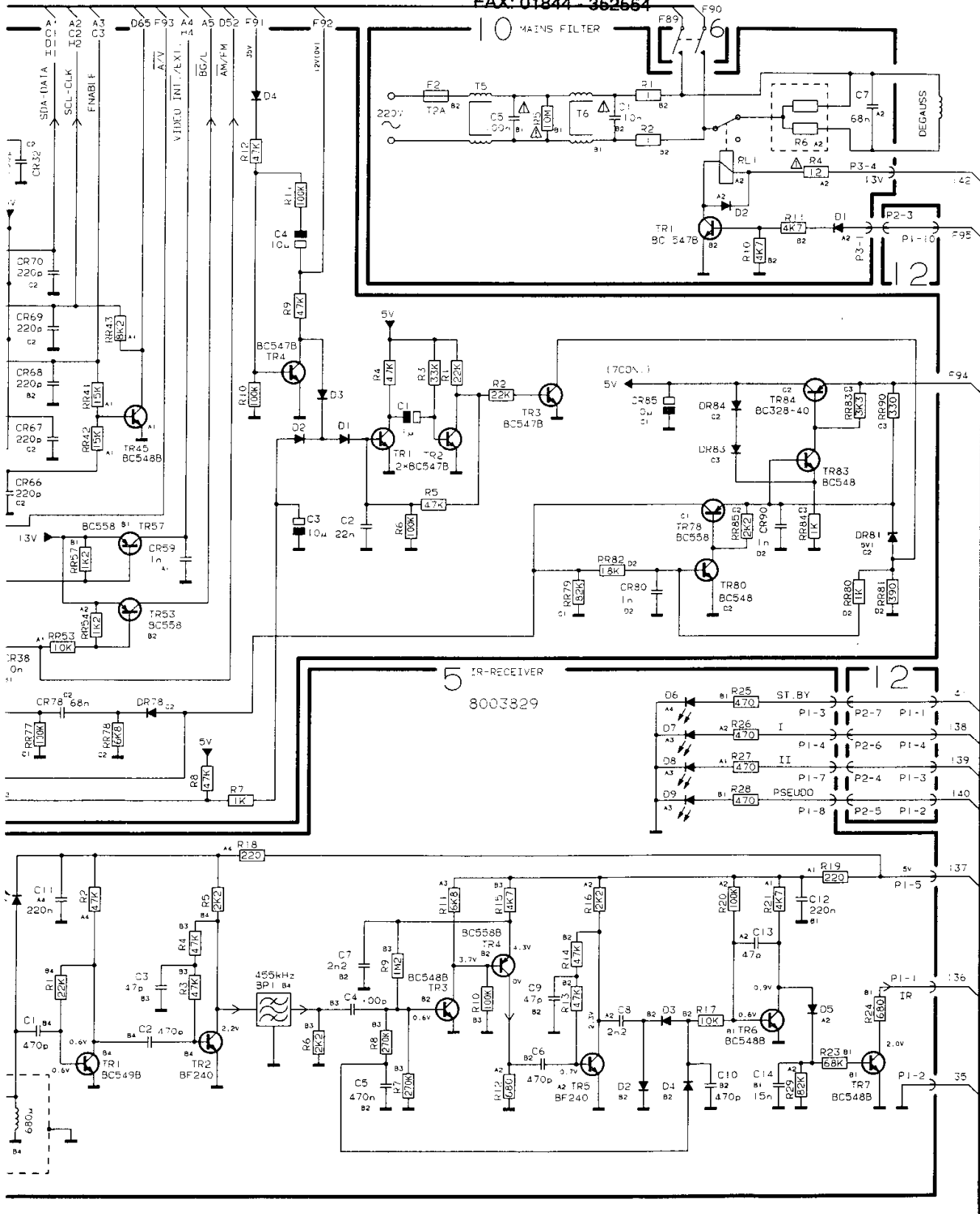
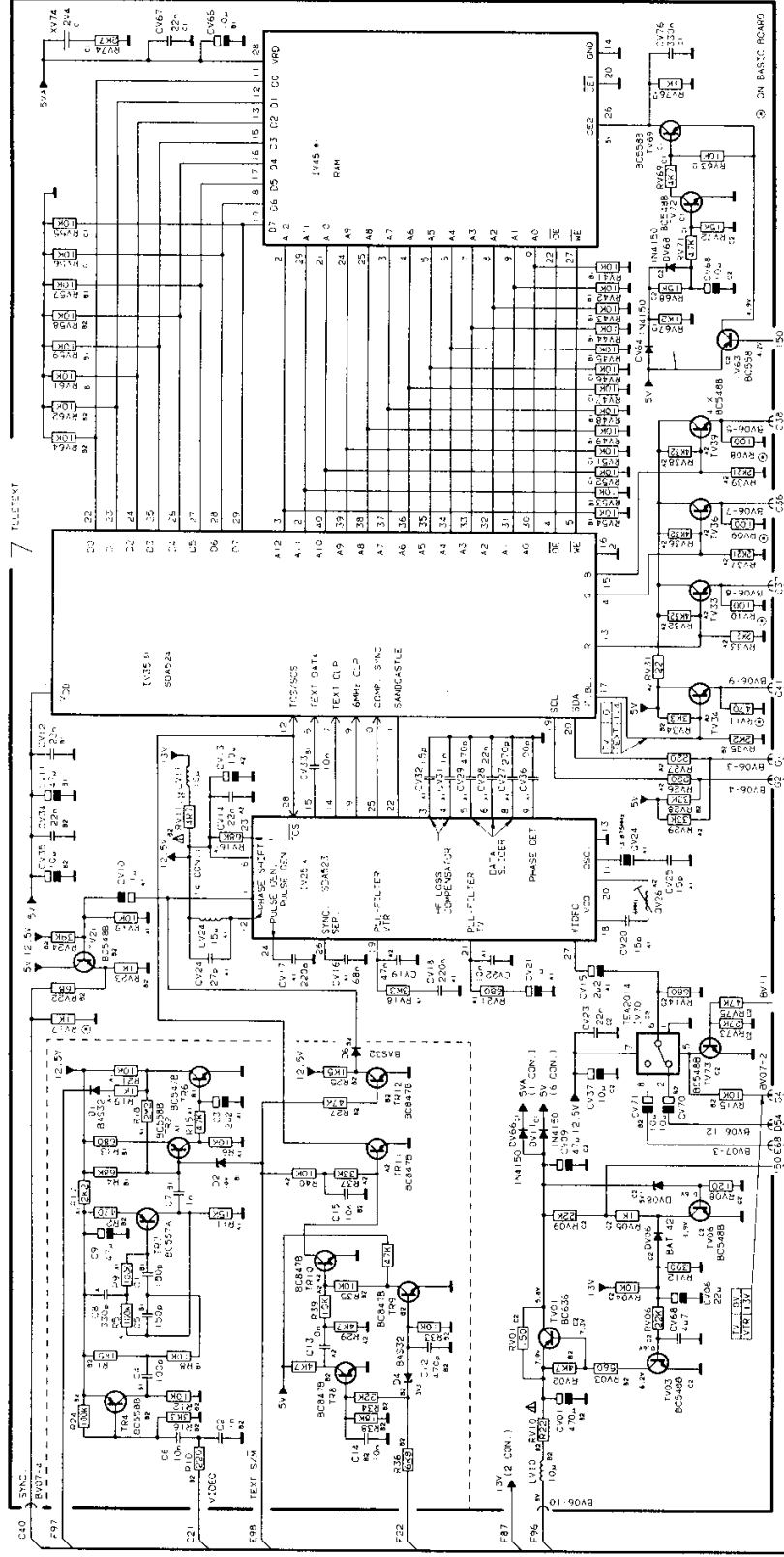


DIAGRAM H TELETEXT DECODER



FOR SERVICE MANUALS
CONTACT:

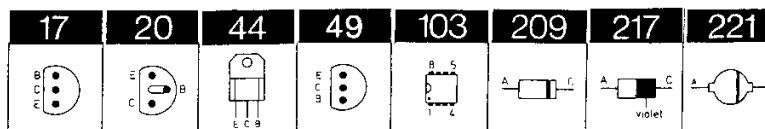
MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

LIST OF ELECTRICAL PARTS



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

PCB 1, 8053220 Basic Board
incl. Transposer

PCB 1, 8053276 Basic Board
excl. Transposer FTZ

IG01	8340764	103	TDA 4950				
TR42	8320509	20	BC 548B				
DP39	8300647	221	S 217D				
RF09	5021129	36.5 kΩ 1%		RL10	5021131	110 kΩ 1%	
RF13	5021130	27.4 kΩ 1%		RL56	5021132	12 Ω 2W	
CL28	4010063	4.7 nF 10% 63V		CP39	4010062	330 pF 10% 63V	
CL44	4130457	330 nF 250V		CP40	4200275	470 μF -10+100% 40V	
CL48	4130458	8.8 nF 1500V		CP41	4200862	100 μF 250V	
LG11	8022305	Coil		LL56	8022307	Coil 42 μH	
LL46	8022306	Coil		LP04	8014098	Transformer	
LL53	8014097	Transformer					
BP04	7220462	Plug 3/3 pole					
	6275770	Cable tray w/main cable					
	6270374	Focus cable					

All other parts are identical with those on pp 3-1 - 3-4

PCB 3, 8003825 Video Output

TR1	8320503	20	BC 557B	TR22	8320505	49	BF 422
TR11	8320440	44	BF 869	TR23*	8320631	17	BF 423
TR12	8320505	49	BF 422	TR31	8320440	44	BF 869
TR13*	8320631	17	BF 423	TR32	8320505	49	BF 422
TR21	8320440	44	BF 869	TR33*	8320631	17	BF 423
D1	8300194	209	Z20V 5%	D21-22	8300058	209	1N 4148
D2-3	8300210	209	Z30V 5%	D23	8300518	217	BA 157
D11-12	8300058	209	1N 4148	D31-32	8300058	209	1N 4148
D13	8300518	217	BA 157	D33	8300518	217	BA 157
R2	5020812	0.22 Ω 10% 0.4W		R25	5020774	47 kΩ 5% 1W	
R3	5020495	10 Ω 10% 1W		R28	5370350	47 kΩ 20% 0.1W	
R11	5020758	1 kΩ 5% 0.3W		R31	5020758	1 kΩ 5% 0.3W	
R12	5020697	22 kΩ 5% 1W		R32	5020697	22 kΩ 5% 1W	
R15	5020774	47 kΩ 5% 1W		R35	5020774	47 kΩ 5% 1W	
R18	5370350	47 kΩ 20% 0.1W		R38	5370350	47 kΩ 20% 0.1W	
R21	5020758	1 kΩ 5% 0.3W		R39	5390027	Focus + G2	
R22	5020697	22 kΩ 5% 1W					
C1	4010123	1 nF 10% 500V		C11	4000362	56 pF 5% 63V	
C2	4200626	33 μF 20% 250V		C12	4010105	1 nF 10% 63V	
C3	4200628	100 μF 20% 16V		C21	4000204	100 pF 5% 63V	
C4	4000155	56 pF 5% 63V		C22	4010105	1 nF 10% 63V	
C5	4010165	10 nF 20% 2kV		C31	4000204	100 pF 5% 63V	
C6	4130306	100 nF 10% 63V		C32	4010105	1 nF 10% 63V	

* Specially selected or adapted sample

P1	7220428	Plug 5/6 pole	P4	7220625	Plug 3 pole
P2	7210273	Socket 6/6 pole	P5	7200065	Socket/picture tube
P3	7220624	Plug 6 pole			

CP1	6031925	Lead to ground wire	CP2	6032295	Lead to chassis
-----	---------	---------------------	-----	---------	-----------------

PCB 4, 8007136 Speaker Panel

PCB 5, 8003829 IR-Receiver

*See page 3-5*PCB 6, 8007137
Program Step/Headphone

C2-3	4010041	10 nF -20+80% 40V
------	---------	-------------------

S2	7210386	Jack plug	S4	7400318	Switch 1 pole
S3	7450048	Mains switch			

CP1	7500013	Contact pin	CP7	7500013	Contact pin
-----	---------	-------------	-----	---------	-------------

P1	7220585	Plug 5 pole
----	---------	-------------

PCB 7, 8003914 Teletext

See page 3-5

PCB 10, 8007138 Mains Filter

TR1	8320097	20 BC 547B
-----	---------	------------

D1-2	8300058	209 1N 4148
------	---------	-------------

R1-2	5100365	1 Ω 10% 4W	R5	5011209	10 M Ω 5% 1/2W
R4	5020877	12 Ω 10% 0.25W	R6	5230909	40+1000 Ω 265V

C1	4130443	10 nF 20% 380V	C7	4130100	68 nF 10% 250V
----	---------	----------------	----	---------	----------------

C5	4130279	100 nF 20% 275V
----	---------	-----------------

RL1	7600090	Relay 12V
-----	---------	-----------

T5	8022269	Coil 2x0.4 mH	T6	8022268	Coil 2x36 mH
----	---------	---------------	----	---------	--------------

F1	6600009	Fuse 2A	7200066	Fuse holder
----	---------	---------	---------	-------------

CP1-16	7500013	Contact pin
--------	---------	-------------

PCB 12, 8003830
Interface Audio/Data

P2	7220686	Plug 7 pole
----	---------	-------------

*All other parts are identical with those on page 3-7*PCB 13,
8007061 A/V Connections

C1-2	4010105	1 nF 10% 63V	C6	4130230	100 nF 20% 63V
C3-4	4010106	10 nF -20+80% 40V	C7	4010105	1 nF 10% 63V
C5	4010105	1 nF 10% 63V	C8-9	4010106	10 nF -20+80% 40V

S1	6600090	Fuse
----	---------	------

P1	7220436	Plug 17/17 pole
----	---------	-----------------

PCB 20,
8007089 Sound B/G/I/L/M*See page 3-8*PCB 40,
8007091 Pal/Secam Decoder*See page 3-10*

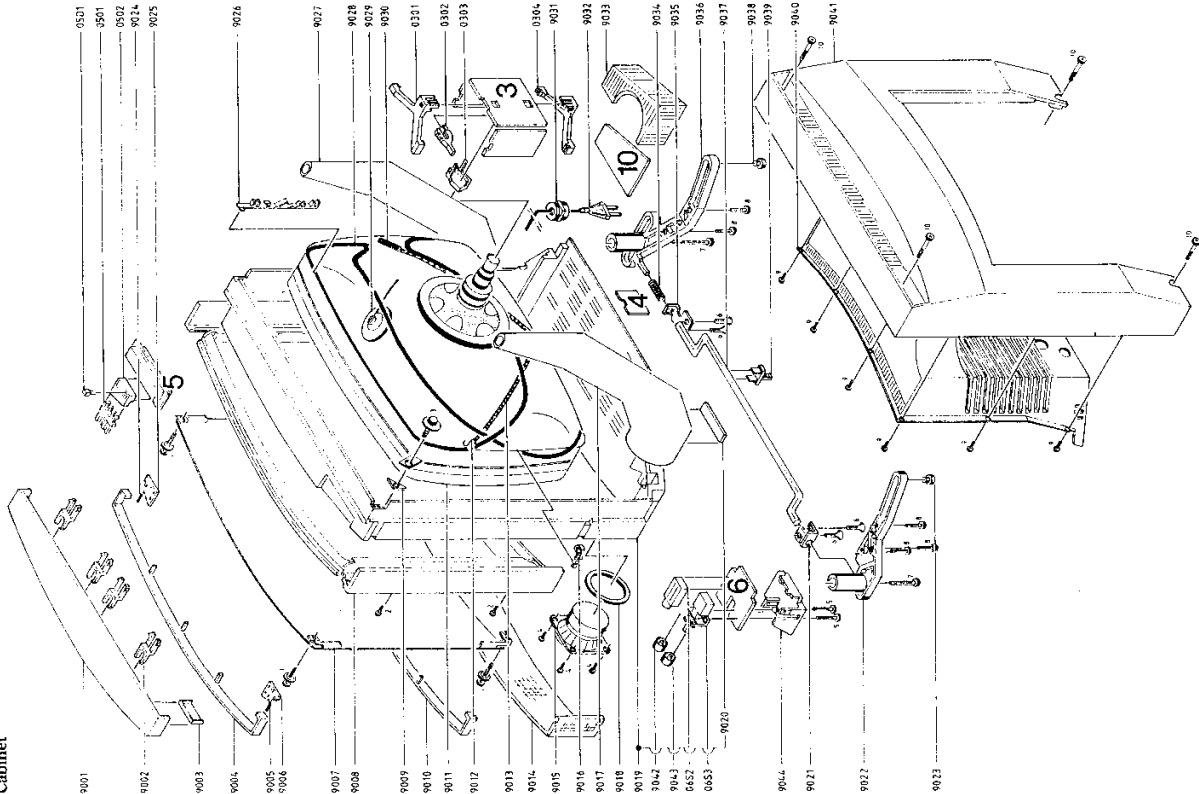
FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

12-1

12-1

12-1

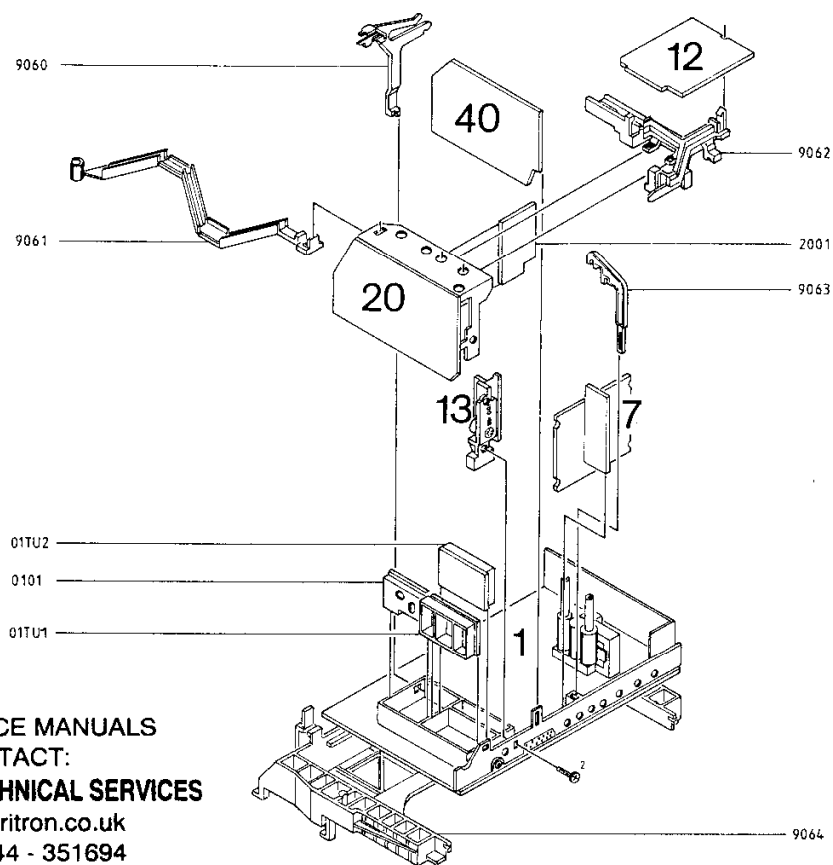
LIST OF MECHANICAL PARTS
Cabinet



Bang & Olufsen

03Modul 8003825	PCB 3, Video Output
0301	3152558 Holder
0302	3152583 Holder f/ Lucas contact
0303	3164671 Cap f/ socket
0304	3152558 Holder
04Modul 8007136	PCB 4, Speaker Panel
05Modul 8003829	PCB 5, IR-Receiver
0501	3375050 Lens
0502	3131313 Housing
05D1	8330145 Diode BPW 82
06Modul 8007137	PCB 6, Program Step/Headphone
06S2	7210386 Jack plug
06S3	7450048 Mains switch
10Modul 8007138	PCB 10, Mains Filter
9001	3450691 Lid
9002	2391070 Hinge
9003	3322092 Window
9004	3450701 Cap
9005	3907059 Rubber
9006	3164687 Holder
9007	3450711 Contrast screen
9008	3320106 Front frame w/ rubber string
9009	3950029 Rubber string
9010	2640053 Spacer
9011	3450913 Cap
9012	8200060 Picture tube
9013	2510119 Clamp
9014	7510036 Ground current
9015	3450709 Loudspeaker panel
9016	8480164 Loudspeaker
9017	3152413 Holder
9018	3132103 Loudspeaker damping tube w/ cotton
9019	3340074 Gasket
9020	3320131 Chassis w/ foot
9021	3946083 Tightening side
9022	3103287 Tightening, top/bottom
9023	3103287 Foot
9024	3031129 Fitting f/ tilting foot
9025	3031157 Fitting f/ bottom
9026	3035032 Rubber foot
9027	3907059 Rubber
9028	3154687 Holder
9029	3152414 Holder
9030	3132103 Loudspeaker damping tube w/ cotton
9031	8022380 Degaussing coil
9032	6270384 EFT cable
9033	2810189 Spring
9034	3031045 Holder f/ mains lead
9035	6275818 Mains end AUC
9036	6275820 Mains end FITZ
9037	3152556 Mains end FITZ
9038	2810189 Spring
9039	3031175 Fitting f/ tilting foot
9040	3031234 Fitting f/ bottom
9041	3103238 Tiltting foot
9042	3035032 Rubber foot
9043	3152586 Holder f/ tilting foot
9044	3430390 Back cover, red
9045	3414244 Back cover, white
9046	3414246 Back cover, black
9047	3414248 Back cover, blue
9048	3414249 Back cover, grey
9049	2776033 Press button - STEP
9050	2776032 Press button - ●
9051	3152557 Holder

El-Chassis



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

01Modul 8053220 PCB 1, Basic Board incl. Transposer
8053276 PCB 1, Basic Board excl. Transposer FTZ
0101 8007021 Transposer

01TU1 8050115 VHF Tuner
01TU2 8050116 UHF Tuner

07Modul 8003815 PCB 7, Teletext

12Modul 8003830 PCB 12, Interface Audio/Data

13Modul 8007061 PCB 13, A/V Connections

20Modul 8007089 PCB 20, Sound B/G/I/L/M
2001 8007090 AM/FM Sound

40Modul 8007091 PCB 40, Pal/Secam Decoder

9060 3152662 Holder f/PCB 20
9061 3152555 Cable tray
6275770 Cable tray w/main cable
9062 3152559 Holder f/PCB 12
9063 3152698 Holder f/PCB 7
9064 3152582 Holder f/PCB 1

Survey of screws

1	2015129	Screw 3.5 x 12 mm
2	2013123	Screw 3 x 10 mm
3	2044048	Screw w/washer 5 x 25 mm
4	2013106	Screw 2.9 x 16 mm
5	2039037	Screw 3 x 16 mm
6	2019015	Screw 4 x 14 mm
7	2021003	Screw 5 x 35 mm
8	2019011	Screw 4 x 16 mm
9	2019017	Screw 4 x 10 mm
10	2021010	Screw 5 x 25 mm

Parts not shown

3391982	Carton f/Beolink 1000
3397637	Foam packing
3392015	Outer carton
3503524	Owner's manual, Danish
3503525	Owner's manual, Swedish
3503526	Owner's manual, Finnish
3503527	Owner's manual, English
3503528	Owner's manual, German
3503529	Owner's manual, Dutch
3503530	Owner's manual, French
3503532	Owner's manual, Italian
3503533	Owner's manual, Spanish

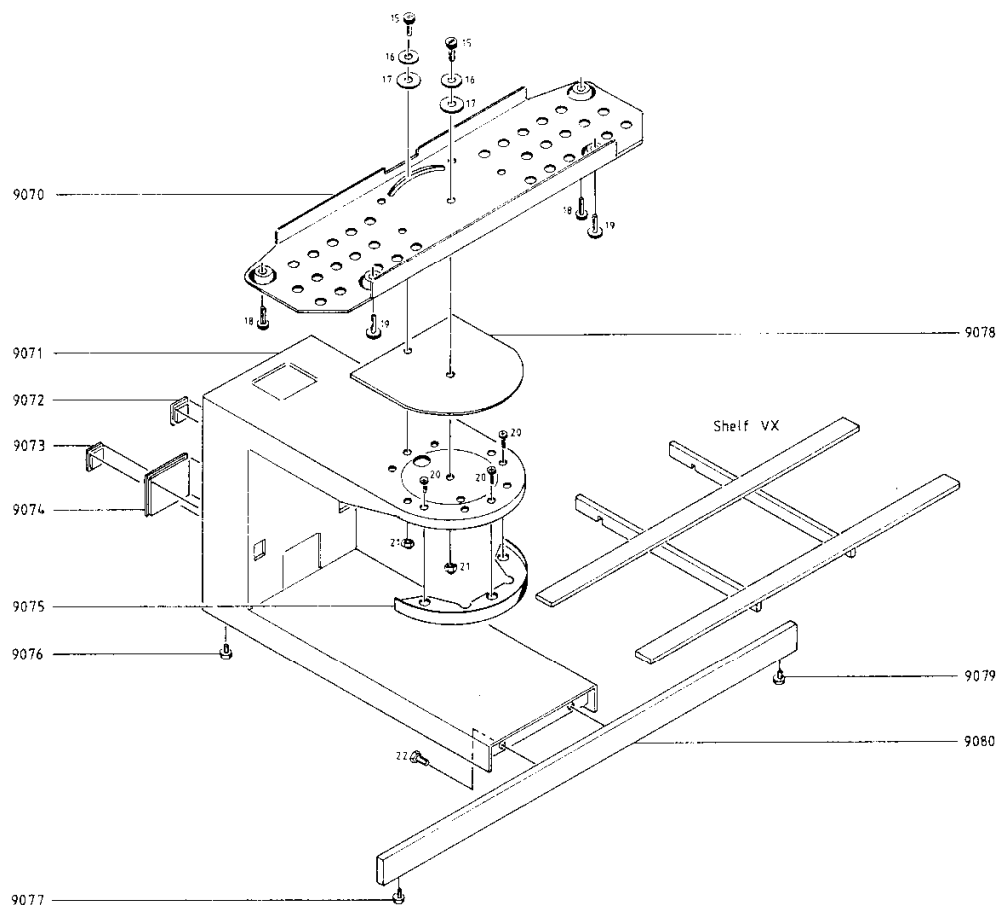
Accessories

Beolink 1000 Terminal

See the service manual
MASTER CONTROL LINK (3538711)

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

Stand 5000 8930766



9070	3124117	Mounting plate
9071	3100036	Frame
9072	3341072	Cover, square
9073	3341072	Cover, square
9074	3341071	Cover, square
9075	3164735	Cover, round
9076	3035055	Rubber foot
9077	3035055	Rubber foot
9078	3915044	Gasket
9079	3035055	Rubber foot
9080	3450721	Rail
	3390378	Bag w/screws and washers
	3392043	Outer carton
	3392078	Carton
	3397654	Foam packing
	3397689	Foam block
	3543092	Installation guide

Survey of screws,
washers and nuts

15	2046024	Screw 6x16 mm
16	2622413	Washer
17	2622414	Washer PVC
18	2044035	Screw 5x10 mm
19	2021011	Screw 5x15 mm
20	2011039	Screw 2.5x10 mm
21	2380130	Nut
22	2046030	Screw 6x12 mm

Shelf VX 8930776

Not included in Stand 5000

JUSTERINGSVEJLEDNING

Netdel, 1PL15:

Et DC-voltmeter tilsluttes ben 10 på linieudgangs-transformatoren 1LL53.

Potentiometeret 1PL15 justeres til 152 V.

Alle øvrige justeringer, se afsnit 5.

ADJUSTMENTS

Power-supply, 1PL15:

Connect a DC voltmeter to pin 10 of the EHT-trans-former 1LL53.

Adjust the potentiometer 1PL15 to 152 V.

All other adjustments, see section 5.

JUSTIERUNGEN

Netzteil, 1PL15:

An Stift 10 des Zeilenausgangstransformators 1LL53 einen Gleichstromspannungsmesser anschließen.

Das Potentiometer 1PL15 auf 152 V einstellen.

Alle übrigen Justierungen, siehe Abschnitt 5.

REGLAGES

Bloc d'alimentation, 1PL15:

Raccorder un voltmètre cc à la borne 10 du transfor-mateur de sortie de ligne 1LL53.

Régler le potentiomètre 1PL15 sur 152 V.

Tous les autres réglages, voir section 5.

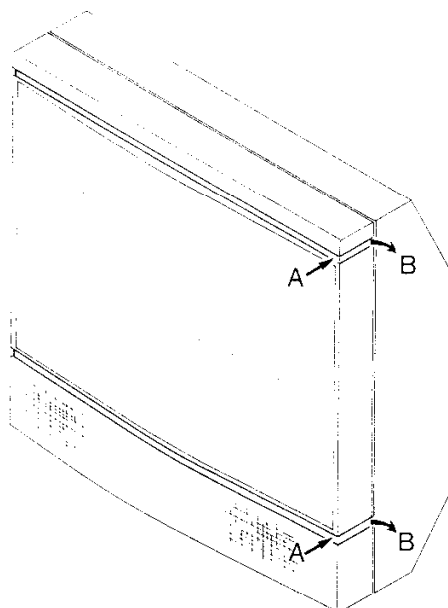
FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

ADSKILLELSE

Demontering af kontrastskærmen

DISASSEMBLY

Removal of contrast screen



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.

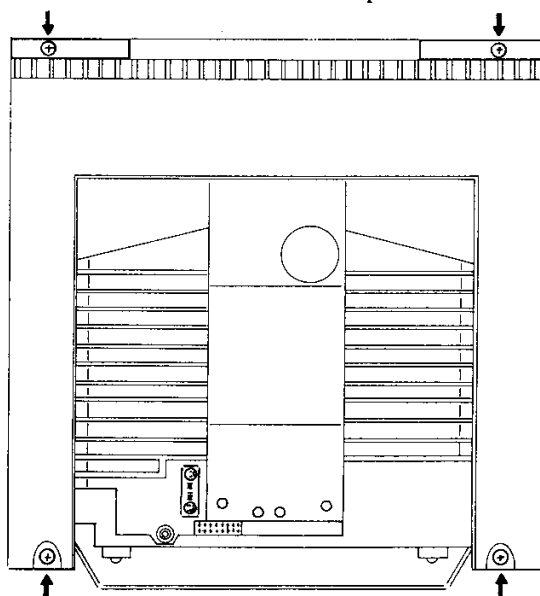
I hvert af de fire hjørner sidder en skrue som skrues ud, hvorefter kontrastskærmen er fri.

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.

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

Bagpart

Rear part

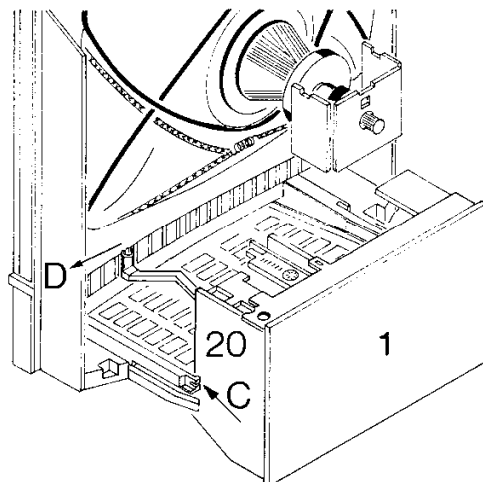


De fire skruer løsnes, og bagparten trækkes lige bagud.

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

Serviceposition

Service position



Chassiset frigøres fra rammen i bunden ved at frigøre låsetappene C ved chassissets forreste kanter. Herefter kan chassiset trækkes bagud.

Chassiset sættes i serviceposition, ved at det trækkes fri og løftes op.

Ledningsbakken kan løsnes fra kabinettet, ved at trække denne i pilen D's retning.

To detach the chassis from the frame in the bottom of the set, release the two locks C at the front edges of the chassis. The chassis can now be pulled outwards.

Place the chassis in the service position by pulling it outwards and lifting it.

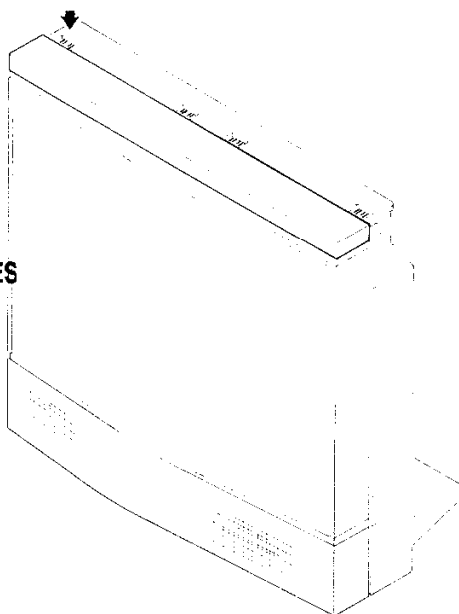
Detach the cable tray from the cabinet by pulling it in the direction of the arrow D.

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

Toppanel

Top panel

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



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

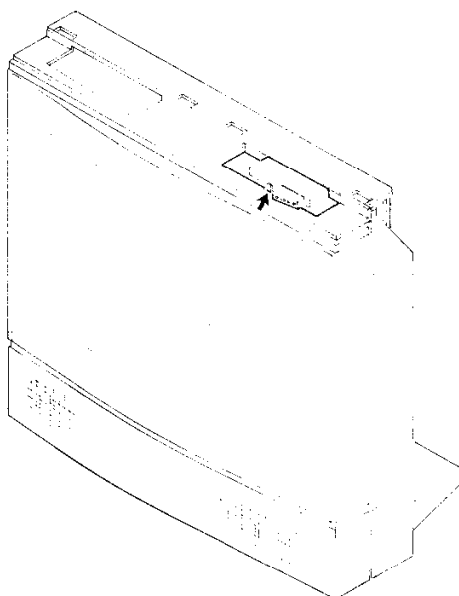
Loosen the panel in one side by releasing the lock with a screwdriver.

Toppanelet kan nu fjernes.

The top panel can now be removed.

PCB 05 IR-modtager

PCB 05 IR-receiver



Låsen løsnes med en skruetrækker, og PCB'en tages ud, ved at den løftes i den forreste kant.

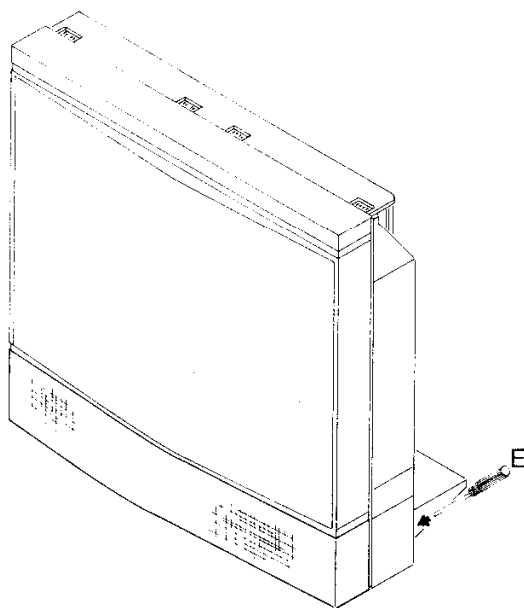
Release the lock with a screwdriver and remove the PCB by lifting it at its front.

NB! Ved demontering af IR-modtagerens hus skal IR-modtagerdioden loddes ud.

Note! If the housing of the IR-receiver is to be removed, the IR-receiver diode must be desoldered.

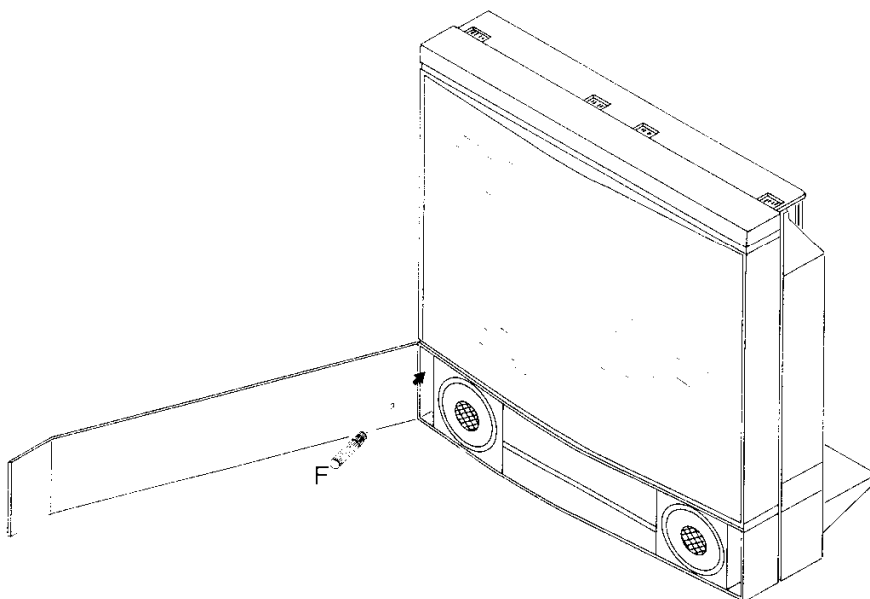
Højtalerpanel

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).

SLUTAFPRØVNING

Denne afprøvning kan benyttes som kontrol, efter at reparationen er afsluttet.

NB! I apparater fra S/W version 2.0 er de mulige programnumre 1-32 i stedet for 0-31.

Tilslutninger

TV'et tilsluttes lysnettet og et antennesignal.

Nærbetjening

Hovedafbryderen aktiveres → Stand-by indikator lyser

STEP aktiveres → Starter på P1, hvis TV'et har været frakoblet netspændingen, og ellers på sidst benyttede program

Beolink 1000 fjernbetjening

Tænd

TV → Starter på sidst benyttede program
0-31 → Starter på valgte programnummer

Tune

Direkte frekvensvalg
Indstilling af ønsket frekvens, f.eks. 543MHz (kanal 30), på et programnummer ml. 0 og 31.
Omregningstabel for frekvens/kanal findes i betjeningsvejledningen (Frekvensoversigt).

GO TO → Grønt display
5 4 3 → Gult display

Store

Den indstillede frekvens kan lægges i hukommelsen på et programnummer mellem 0 og 31.

STORE → Rødt display
1 → Programnummer 1 vælges
STORE → Grønt display
● → Stand-by
1 → Den på programnummer 1 lagrede frekvens vises

Tune

Søgning

Søgning under det valgte programnummer (0-31)

<< eller **>>** → Søgning stopper på nærmeste senderfrekvens

Finindstilling

Ønskede frekvens er fundet.
Billedet står ikke skarpt.

GO TO → Grønt display
<< eller **>>** → FT (fine tune) kan varieres op (+) eller ned (-)

FINAL TEST

This test may be used as a check-up after the repair has been carried out.

NOTE! In sets with S/W version from 2.0 the potential preset numbers are 1-32 instead of 0-31.

Connections

Connect the TV set to the mains supply and an aerial signal.

Direct Operation

Activate the mains switch → The stand-by indicator lights

Activate **STEP** → Starts on P1 if the TV set has been disconnected from the mains supply or else on the programme last seen

Beolink 1000 Remote Control

Switching On

TV → Starts on the programme last seen
0-31 → Starts on the preset No selected

Tuning

Direct frequency selection
Setting of a desired frequency, e.g. 543MHz (channel 30), on a preset No between 0 and 31.
Conversion table for frequency/channel, see owner's manual (List of frequencies).

GO TO → Green display
5 4 3 → Yellow display

Store

The set frequency can be stored on a preset No between 0 and 31.

STORE → Red display
1 → Selection of preset No 1
SOUND → Green display
● → Stand-by
1 → The frequency stored on the selected preset No is shown

Tuning

Search

Search on the selected preset No (0-31)

<< or **>>** → The search stops at the closest transmitter frequency

Fine Tuning

The frequency desired has been found.
The picture is not sharp.

GO TO → Green display
<< or **>>** → FT (fine tuning) may be varied up (+) or down (-)

Teletext

Kun ved apparater med indbygget teletext.

- TEXT** → Skifter til tekst-mode
 Vælg en side, f.eks. 100
GO TO **1** **0** **0** → Tekstside 100 vises
STORE **2** **STORE** → Tekstside 100 lagres på hukommelsesside 2
 → Stand-by
TEXT **2** → Hukommelsesside 2, tekstside 100 vises

Billede

- PICTURE** → »BRILLIANCE xx«, grønt display
 eller  → Lys varieres mellem 0 og 31
PICTURE → »COLOUR xx«, grønt display
 eller  → Farvemætningen varierer mellem 0 og 60
PICTURE → »CONTRAST xx«, grønt display
 eller  → Kontrast varierer mellem 0 og 31

Lyd

- SOUND** → »VOLUME xx«, grønt display
 eller  → volume varieres mellem 0 og 40
SOUND → »BALANCE x«, grønt display
 eller  → Balance varieres mellem 8 og -8
SOUND → »TREBLE x«, grønt display
 eller  → Diskantniveauet varierer mellem 5 og -4
SOUND → »BASS x«, grønt display
 eller  → Basniveauet varierer mellem 5 og -4
SOUND → »VOLUME HP xx«, grønt display
 eller  → Volume i hovedtelefon varierer mellem 0 og 32

To sprog (System A2)

Ved modtagelse af to-sprogede udsendelser kan der vælges mellem sprog A og B.

- TURN** → Skifter mellem sprog A og sprog B. Indikeres af to røde pile i øverste højre hjørne (◀ = A, ▶ = B).

Teletext

Only applies to TV sets with built-in teletext.

- TEXT** → Switches into the text mode
 Select a page, e.g. 100
GO TO **1** **0** **0** → Shows text page 100
STORE **2** **STORE** → Text page 100 is stored on memory page 2
 → Stand-by
TEXT **2** → Shows memory page 2, text page 100

Picture

- PICTURE** → »BRILLIANCE xx«, green display
 or  → Brilliance varies in the range from 0 to 31
PICTURE → »COLOUR xx«, green display
 or  → Colour saturation varies in the range from 0 to 60
PICTURE → »CONTRAST xx«, green display
 or  → Contrast varies in the range from 0 to 31

Sound

- SOUND** → »VOLUME xx«, green display
 or  → Volume level varies in the range from 0 to 40
SOUND → »BALANCE x«, green display
 or  → Balance level varies in the range from 8 to -8
SOUND → »TREBLE x«, green display
 or  → Treble level varies in the range from 5 to -4
SOUND → »BASS x«, green display
 or  → Bass level varies in the range from 5 to -4
SOUND → »VOLUME HP xx«, green display
 or  → Volume level in head phones varies in the range from 0 to 32

Dual Languages (System A2)

When receiving dual language programmes, language A or B may be selected.

- TURN** → Switches between language A and language B. This is indicated by two red arrows in the upper righthand corner (◀ = A, ▶ = B)

FOR SERVICE MANUALS
 CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
 TEL: 01844 - 351694
 FAX: 01844 - 352554

Stereo lyd

Ved modtagelse af stereo-lyd skifter TV'et automatisk til stereo. Stereo indikeres af to røde pile i øverste højre hjørne.

- TURN** → Mono-lyd, røde pile slukket
TURN → Stereo-lyd, to røde pile i øverste højre hjørne

Ved skift til anden stereo-udsendelse vil TV'et automatisk skifte til stereo.

Stereo Sound

When receiving stereo sound, the TV set automatically switches to stereo. Stereo is indicated by two red arrows in the upper righthand corner.

- TURN** → Mono sound, no red arrows in the upper righthand corner
TURN → Stereo sound, two red arrows in the upper righthand corner

When switching to another stereo transmission, the TV-set automatically switches to stereo sound.

Shift funktioner

Tidskonstant

- SHIFT 2** → Tidskonstanten ændres til en perfekt synkronisering mellem TV'et og en video-båndoptager (»toggle«-funktion). Indikeres med »A/V« efter programnummeret på skærmen

Shift Functions

Time constant

- SHIFT 2** → The time constant is changed into a perfect synchronization between the TV set and a video recorder (toggle function). This is indicated by "A/V" after the preset No

System B/System L/System M

- SHIFT 3** → Systemskift (»toggle«-funktion)

System B/System L/System M

- SHIFT 3** → Change of system (toggle function)

Billede

Der foretages kontrol af geometri, højspænding, fokus, følsomhed, hvid balance, farvespring, opløsning, slæb, skygger, interferens og gråskala.

Picture

Check geometry, high voltage, focus, sensitivity, white balance, colour switching, resolution, ringing, ghosts, interference and grey scale.

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

ISOLATIONSTEST

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

Der må ikke forekomme overslag under testen!

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes den ene af terminalerne på isolationstesteren. Den anden terminal tilsluttes stelbenet i en af højttalerstikdåserne.

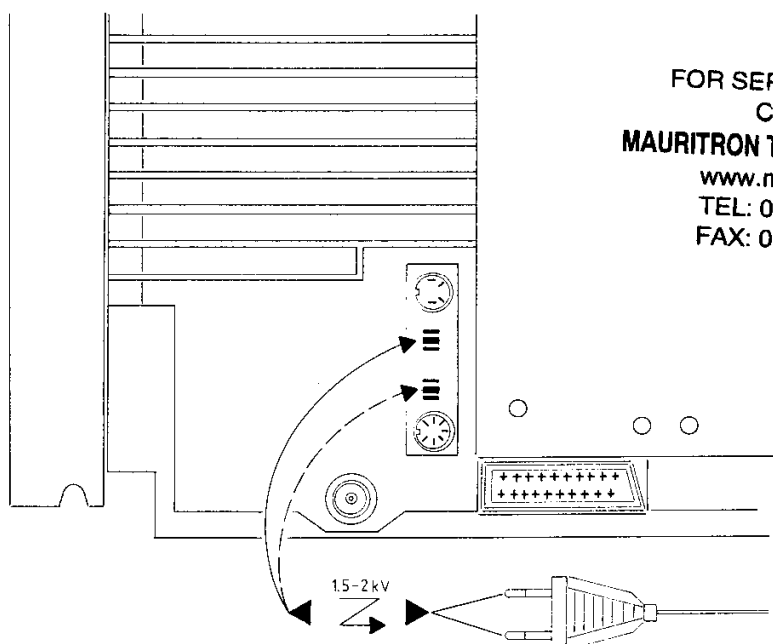
INSULATION TEST

Each set must be insulation tested after having been dismantled. Make the test when the set has been reassembled and is ready to be returned to the customer.

Flashovers must not occur during the testing procedure!

Make the insulation test as follows:

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



**FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES**
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

OBS!

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

Spændingsreguleringen på isolationstesteren drejes langsomt op, indtil en spænding på 1,5-2 kV er opnået. Her skal den holdes i ét sekund, hvorefter der langsomt drejes ned for spændingen igen.

NOTE!

To avoid damaging the set it is essential that both terminals of the insulation tester have good contact.

Slowly turn the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Maintain that voltage for one second, then slowly turn it down again.

Bang & Olufsen

Beovision MX 5000

Type 3211-3212-3213-3214-3216-
3217-3218

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



Beovision MX 5000 er identisk med Beovision MX 4500 undtagen fra flg. punkter:

Beovision MX 5000 is identical with Beovision MX 4500 except the following points:

Beovision MX 5000 ist mit Beovision MX 4500 identisch ausgenommen von den folgenden Punkten:

Beovision MX 5000 est identique à Beovision MX 4500 à l'exception des sujets suivants:

LIST OF ELECTRICAL PARTS

136							
							

11R01 Δ 8341156 136 HD 404919 (16K)

Δ indicates that static electricity may destroy the component.

LIST OF MECHANICAL PARTS

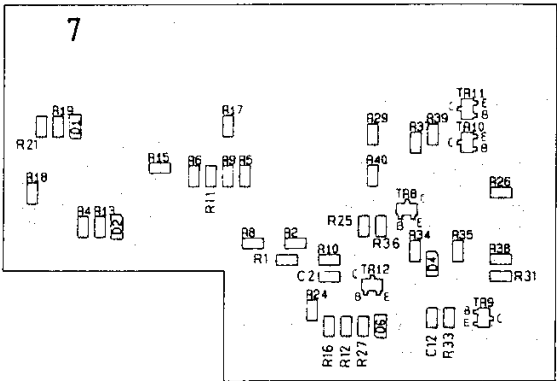
(Exploded view see page 12-1)

9010	3450710	Cap
	3503538	Owner's manual, Danish
	3503539	Owner's manual, Swedish
	3503540	Owner's manual, Finnish
	3503541	Owner's manual, English
	3503542	Owner's manual, German
	3503543	Owner's manual, Dutch
	3503544	Owner's manual, French
	3503545	Owner's manual, Italian
	3503546	Owner's manual, Spanish

ACCESSORIES

8930806	MB 5000 – Motorized TV base
8930816	MS 5000 – Motorized TV stand

PCB 7, Sub module Teletext



Bang & Olufsen

NICAM 728

Type 3037 installation kit Pal B/G
for Beovision MX 3000/5000

Type 3040 installation kit Pal I
for Beovision MX 3000/5000

Type 3041 installation kit Pal B/G
for Beovision MX 3000/4500

Type 3042 installation kit Pal I
for Beovision MX 3000/4500

Beovision MX 3000, type 3142-3148

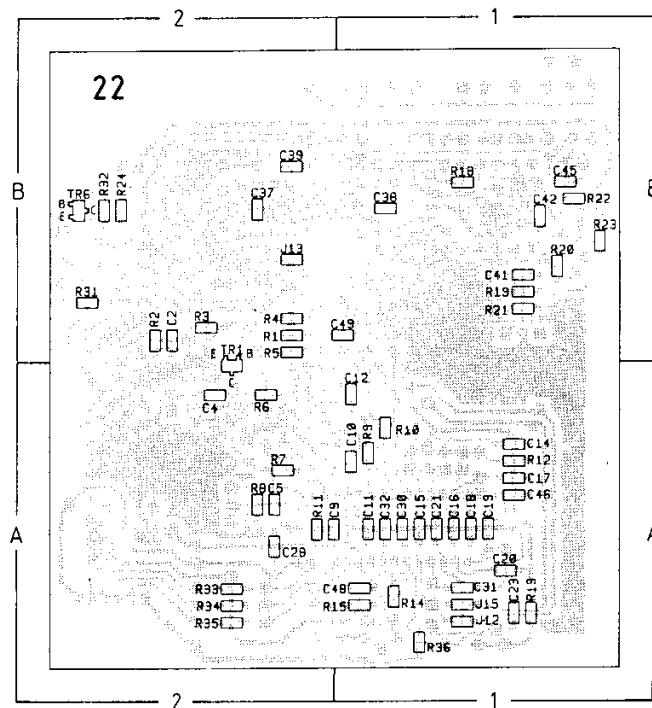
Beovision MX 5000, type 3212-3218

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



PCB 22, Demodulator

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



PCB 23, Nicam D/A Decoder

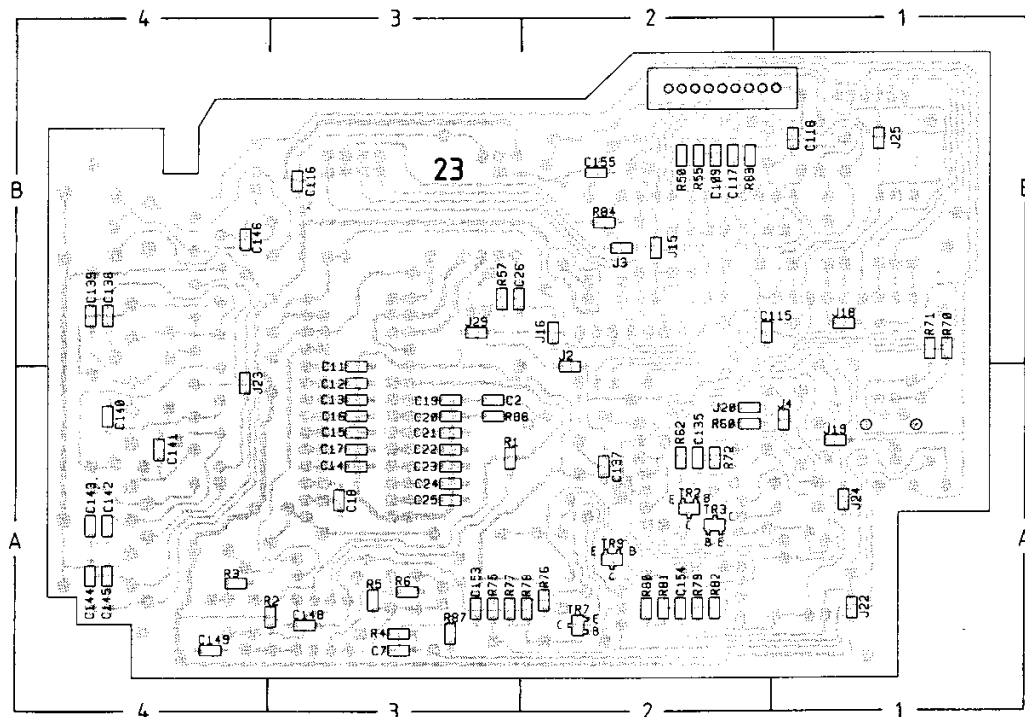


DIAGRAM D STEREO DECODER, SOUND CONTROLS, NICAM 728 DIGITAL SIGNAL PROCESSING

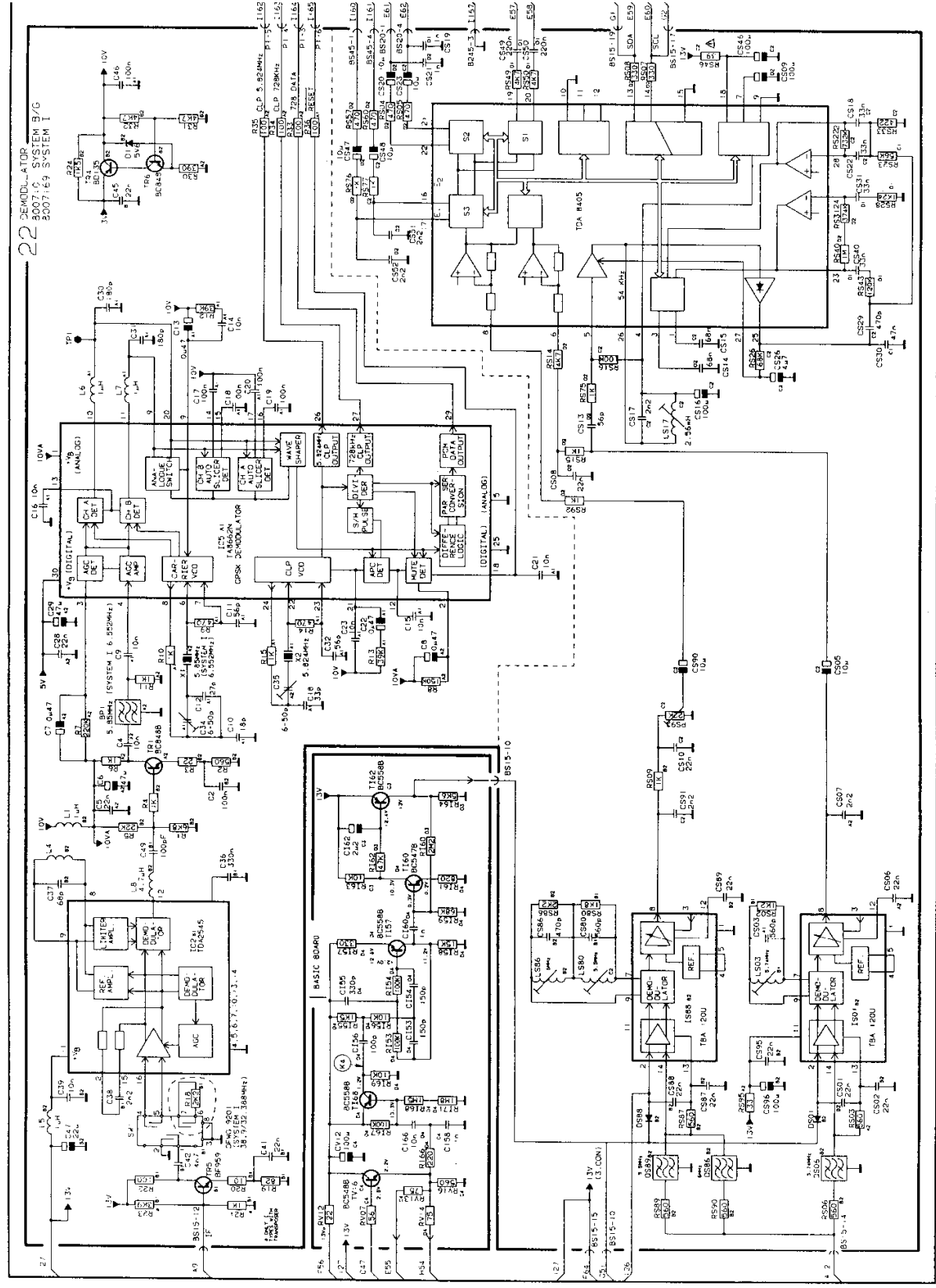
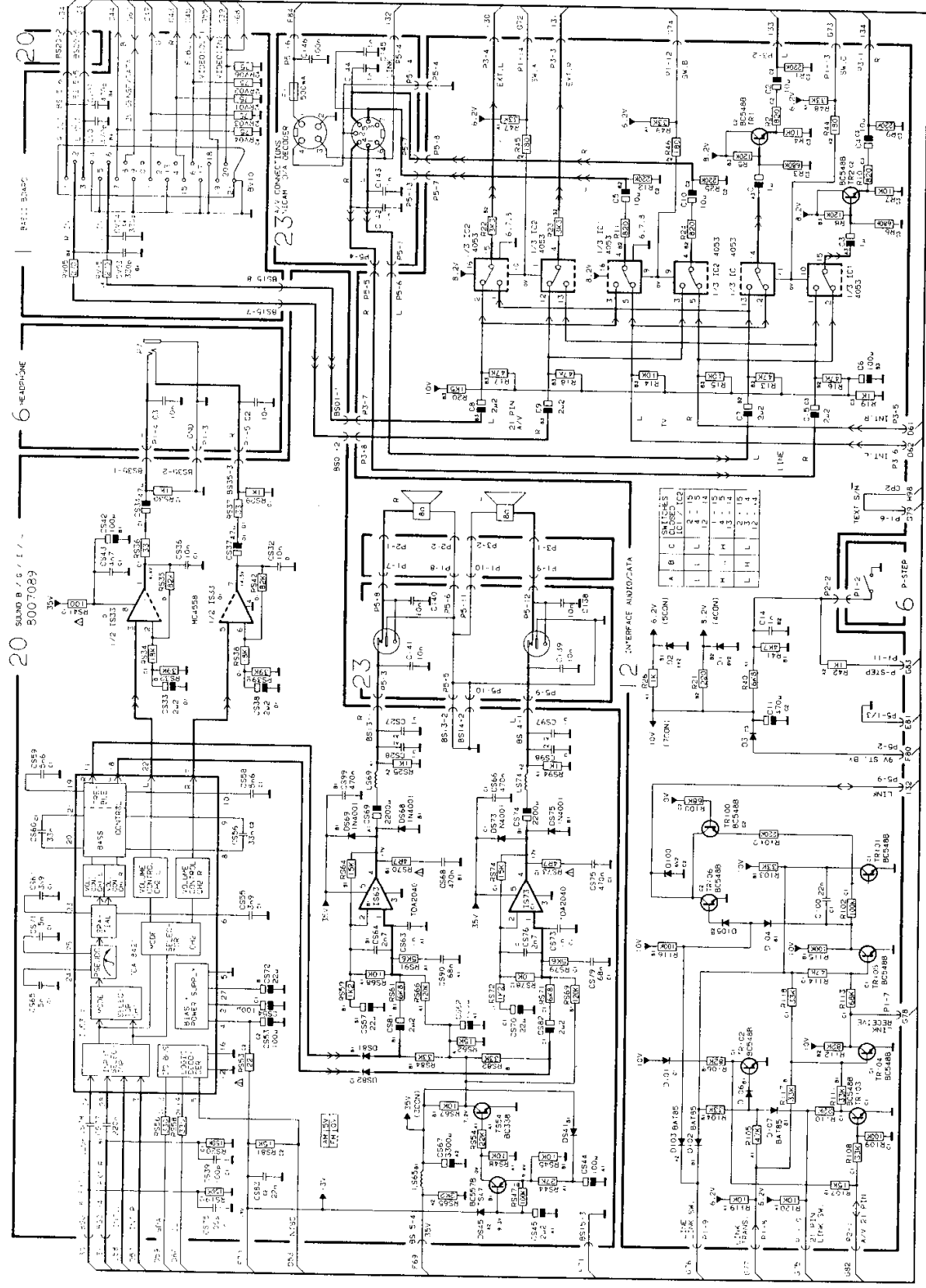
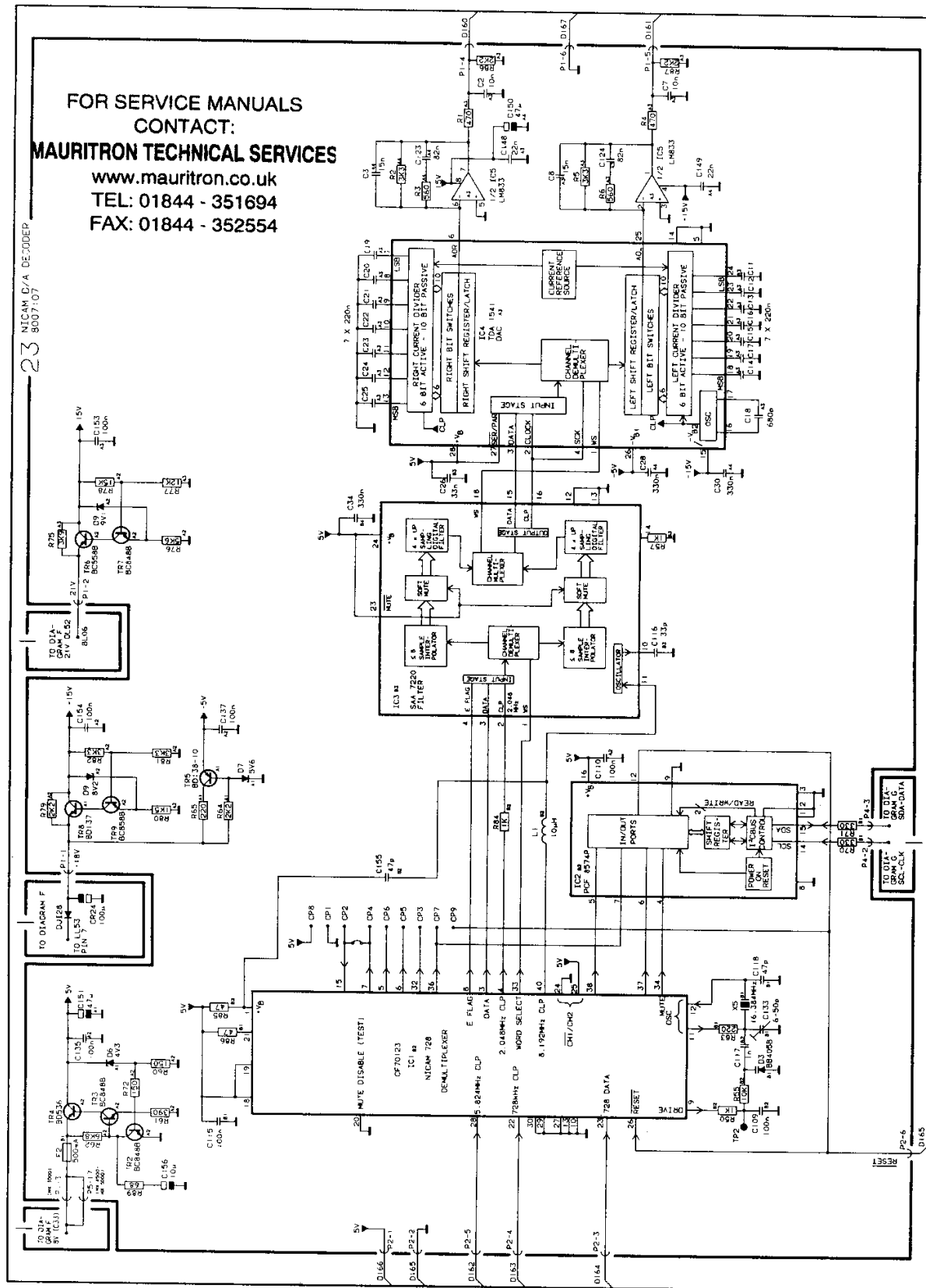


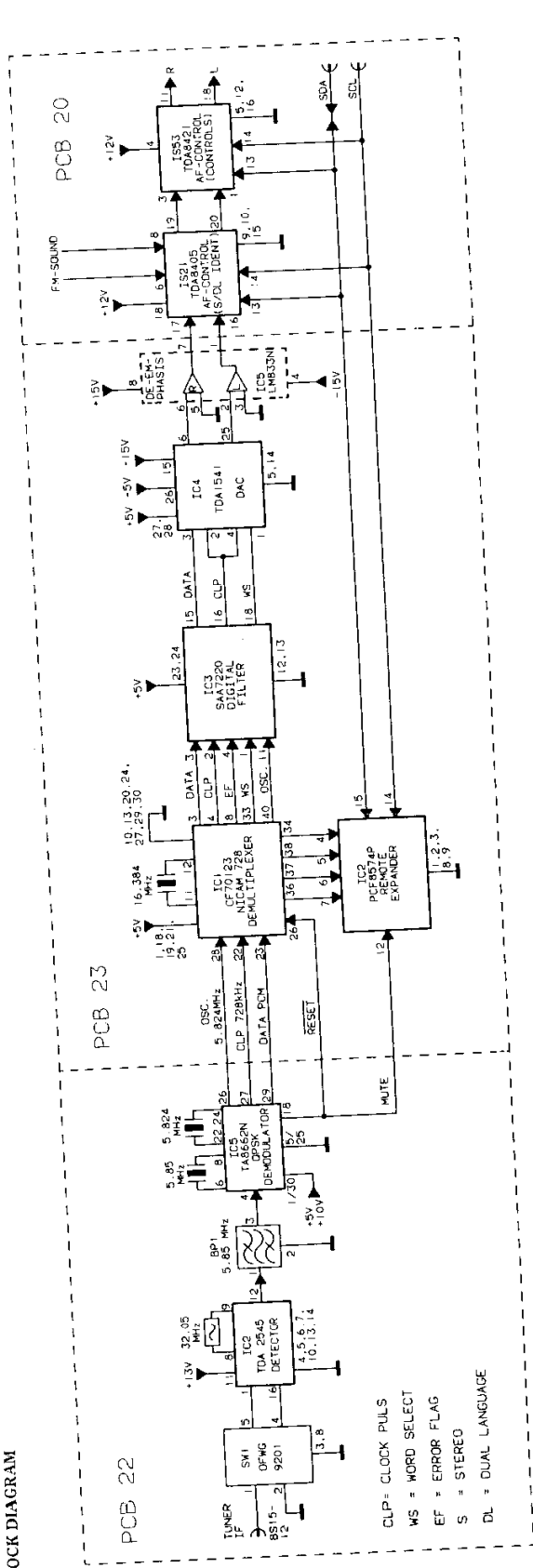
DIAGRAM E AF-AMPLIFIER, LINK INTERFACE, A/V CONNECTIONS



**FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES**
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



BLOCK DIAGRAM



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

	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0	5011623	5011647	5011218	5011227	5011241	5011256	5011287	5011730
1.1	5011634	5011648	5011669	5011681	5011689	5011694	5011707	
1.2	5011625	5011649	5011219	5011682	5011590	5011257	5011708	
1.3	5011626	5011650	5011670	5011683	5011242	5011258	5011709	
1.4	5011627	5011651	5011220	5011228	5011243	5011259	5011710	
1.5	5011628	5011652	5011671	5011684	5011690	5011695	5011711	
1.6	5011629	5011653	5011672	5011229	5011244	5011260	5011712	
1.8	5011630	5011654	5011673	5011685	5011691	5011696	5011713	
2.0	5011631	5011655	5011674	5011230	5011245	5011251	5011714	
2.2	5011632	5011656	5011675	5011686	5011246	5011697	5011715	
2.4	5011633	5011657	5011676	5011687	5011247	5011698	5011716	
2.7	5011634	5011658	5011677	5011688	5011248	5011699	5011717	
3.0	5011635	5011659	5011678	5011689	5011249	5011700	5011718	
3.3	5011636	5011660	5011679	5011690	5011250	5011701	5011719	
3.6	5011637	5011661	5011680	5011691	5011251	5011702	5011720	
3.9	5011638	5011662	5011681	5011692	5011252	5011703	5011721	
4.3	5011639	5011663	5011682	5011693	5011253	5011704	5011722	
4.7	5011640	5011664	5011683	5011694	5011254	5011705	5011723	
5.1	5011641	5011665	5011684	5011695	5011255	5011706	5011724	
5.6	5011642	5011666	5011685	5011696	5011256	5011707	5011725	
6.2	5011643	5011667	5011686	5011697	5011257	5011708	5011726	
6.8	5011644	5011668	5011687	5011698	5011258	5011709	5011727	
7.5	5011645	5011669	5011688	5011699	5011259	5011710	5011728	
8.2	5011646	5011670	5011689	5011700	5011260	5011711	5011729	
9.1	5011647	5011671	5011690	5011701	5011261	5011712	5011730	

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

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

LIST OF ELECTRICAL PARTS

Resistors not referred to are standard, see page 18-5

PCB 22, 8007101 Demodulator system B/G 8007169 Demodulator system I

IC1 Δ	8341099	136	TA 8662N
IC2 Δ	8340496	101	TDA 2545A
TR1	8320615	51	BC 848B
TR4	8320785	32	BD 138-10
TR5	8320538	23	BF 959
TR6	8320615	51	BC 848B
D1	8300296	209	ZPD 5.6V 2%
R30	5010070	390 Ω	5% 1/4W

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

C1	4000241	100 pF	5% 50V	C28	4010177	22 nF	-20+80% 50V
C2	4010166	100 nF	-20+80% 50V	C29	4200516	47 pF	20% 16V
C4	4010176	10 nF	-20+80% 50V	C30	4000282	180 pF	5% 50V
C5	4010177	22 nF	-20+80% 50V	C31	4000282	180 pF	5% 50V
C6	4200516	47 pF	20% 16V	C32	4000240	56 pF	5% 50V
C7	4200523	0.47 pF	20% 50V	C34	4340028	6-50 pF	50V
C8	4200523	0.47 pF	20% 50V	C35	4340028	6-50 pF	50V
C9	4010176	10 nF	-20+80% 50V	C36	4130236	330 nF	20% 63V
C10	4000276	18 pF	5% 50V	C37	4000280	68 pF	5% 50V
C11	4000240	56 pF	5% 50V	C38	4010170	2.2 nF	10% 50V
C12	4000278	27 pF	5% 50V	C39	4010176	10 nF	-20+80% 50V
C13	4200523	0.47 pF	20% 50V	C41	4010177	22 nF	-20+80% 50V
C14-16	4010176	10 nF	-20+80% 50V	C42	4010173	4.7 nF	10% 50V
C17-20	4010166	100 nF	-20+80% 50V	C45	4010177	22 nF	-20+80% 50V
C21	4010176	10 nF	-20+80% 50V	C46	4010166	100 nF	-20+80% 50V
C22	4200523	0.47 pF	20% 50V	C47	4200508	22 pF	20% 25V
C23	4010176	10 nF	-20+80% 50V	C48	4000239	33 pF	5% 50V
L1	8020600	Coil 1 μH	10%	L6	8020747	Coil 1 mH	10%
L4	8020539	Coil 38.9 MHz		L7	8020747	Coil 1 mH	10%
L5	8020600	Coil 1 μH	10%	L8	8020551	Coil 4.7 μH	10%

BP1 8020734 Band pass filter 5.85 MHz

SW1 8030162 OFW G9201

X1 8090085 Crystal 5.85 MHz X2 8090083 Crystal 5.824 MHz

PCB 23, 8007260 Nicam D/A Decoder

IC1 Δ	8341159	136	CF 70123	IC4 Δ	8341182	109	TDA 1541A
IC2 Δ	8341158	136	PCF 8574P	IC5	8340930	103	LM 833N
IC3 Δ	8341183	136	SAA 7220P/B				
TR2	8320615	51	BC 848B	TR6	8320510	20	BC 558B
TR3	8320615	51	BC 848B	TR7	8320615	51	BC 848B
TR4*	8320438	35	BD 536	TR8	8320292	32	BD 137
	3358242		Heat sink	TR9	8320616	51	BC 858B
TR5	8320785	32	BD 138				
D3	8300402	209	BB 405B	D8	8300578	209	ZPD 9.1V 2%
D6	8300396	209	ZPD 4.3V 5%	D9	8300173	209	ZPD 8.2V 5%
D7	8300296	209	ZPD 5.6V 2%				

Δ indicates that static electricity may destroy the component.

* Specially selected or adapted sample.

R61	5011021	390 Ω 5% 1/2W	R85	5010411	47 Ω 5% 1/4W
R64	5010064	2.2 k Ω 5% 1/4W	R86	5010411	47 Ω 5% 1/4W
R65	5020460	220 Ω 5% 1W	R89	5011356	68 Ω 5% 1/8W
C2	4010157	10 nF 10% 50V	C123	4130266	82 nF 5% 63V
C3	4130315	15 nF 5% 63V	C124	4130266	82 nF 5% 63V
C7	4010157	10 nF 10% 50V	C133	4340028	6-50 pF 50V
C8	4130315	15 nF 5% 63V	C135	4010166	100 nF -20+80% 50V
C11-	4000287	220 nF -20+80% 25V	C137	4010166	100 nF -20+80% 50V
C17			C138-	4010176	10 nF -20+80% 50V
C18	4000326	680 pF 5% 50V	C141		
C19-	4000287	220 nF -20+80% 25V	C142-	4010132	1 nF 10% 50V
C25			C145		
C26	4010175	33 nF 10% 50V	C146	4010166	100 nF -20+80% 50V
C28	4130236	330 nF 20% 63V	C148	4010177	22 nF -20+80% 50V
C30	4130236	330 nF 20% 63V	C149	4010177	22 nF -20+80% 50V
C34	4130236	330 nF 20% 63V	C150	4200688	47 μ F 20% 50V
C109	4010166	100 nF -20+80% 50V	C151	4200617	47 μ F 20% 10V
C110	4130230	100 nF 20% 63V	C153	4010166	100 nF -20+80% 50V
C115	4010166	100 nF -20+80% 50V	C154	4010166	100 nF -20+80% 50V
C116	4000361	33 pF 5% 50V	C155	4000293	47 pF 5% 50V
C117	4000345	1 nF 5% 50V	C156	4200510	10 μ F 20% 16V
C118	4000234	47 pF 5% 50V			
L1	8020552	Coil 10 μ H 10%			
F1	6600090	Fuse 500 mA T 250V			
F2	6600090	Fuse 500 mA T 250V			
X5	8090082	Crystal 16.384 MHz			
P1	7220428	Plug 6/6 pole			
P2	7220470	Plug 6 pole			
P4	7220779	Plug 4 pole			
P5	7220436	Plug 17/17 pole			
P6	3168754	Link panel			
DJI	8300518	BA 157			
CR24	4200917	100 μ F -20+50% 40V			
	3152559	Holder f/PCB 12			
	3390382	Bag w/parts			
	3543115	Mounting instructions			
	3503537	Owner's manual			
	3152559	Holder f/PCB 12			
	3390383	Bag w/parts			
	8341156	IC f/11R01 - HD 404919			
	3543117	Instruction f/11R01			
	3543114	Mounting instruction			
	3503537	Owner's manual			

PCB 1, Basic Board

Parts not shown
Type 3037-3040

Type 3041-3042

JUSTERINGER

Vigtigt! Der må ikke justeres i filteret BP 1.

Ved alle justeringer skal apparatet tilføres et NICAM stereo antennesignal.

Carrier VCO

Tilslut et oscilloskop til ben 20 på 22IC5, QPSK-Demodulator (TP1).



Med C 34 justeres, indtil øjemønster-signalet er støjfrit og stabilt.

Clock VCO

Drej C 35 med uret, indtil stereolyden forsvinder, (stereo-indikatorerne i øverste højre hjørne af TV'et slukker). Drej derefter C 35 mod uret, indtil stereolyden forsvinder. Drej nu C 35 til midt imellem de to punkter.

OSC

Indstil oscilloskopet til DC, og tilslut det mellem R50 og R55 (TP2).
Juster C 133, indtil spændingen står stabilt på 1,5 V DC.

ADJUSTMENTS

Note! Do not adjust in the filter BP 1.

During all adjustments, the TV-set must be fed a NICAM stereo antenna signal.

Carrier VCO

Connect an oscilloscope to pin 20 of 22IC5, QPSK-Demodulator (TP1).



Adjust C 34, until the eye pattern signal is noiseless and stable.

Clock VCO

Turn C 35 clockwise until the stereo sound disappears (the stereo indicators in the upper right-hand corner of the TV-set switches off). Now turn C 35 counter-clockwise until the stereo sound disappears. Finally turn C 35 until mid-position between the two positions.

OSC

Set the oscilloscope to DC and connect it between R50 and R55 (TP2).
Adjust C133 until the voltage is stable at 1.5 V DC.

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

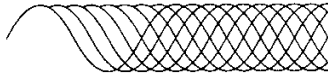
JUSTIERUNGEN

Wichtig! Keine Justierungen am Filter BP 1 vornehmen.

Bei sämtlichen Einstellvorgängen muß dem Gerät ein NICAM-Stereo-Antennensignal zugeführt werden.

Spannungsgeregelter Träger-Oszillator

Einen Oszillographen an Anschluß 20 des 22IC5, QPSK-Demodulator (TP1) anschließen.



Mit C 34 solange justieren, bis das Augenmuster-Signal rauschlos und stabil ist.

Spannungsgeregelter Clock-Oszillator

C 35 im Uhrzeigersinn drehen, bis der Stereo-Ton verschwindet (die Stereo-Anzeigelämpchen in der oberen, rechten Ecke des Fernsehgerätes erlöschen). Anschließend C 35 entgegen dem Uhrzeigersinn drehen, bis der Stereo-Ton verschwindet. Jetzt C 35 auf eine Position zwischen den beiden Punkten einstellen.

OSC

Den Oszillographen auf Gleichstrom einstellen und zwischen R50 und R55 (TP2) anschließen. C 133 solange verstellen, bis die Spannung bei 1,5 V Gleichstrom stabil ist.

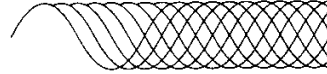
REGLAGES

Attention! Il est interdit de régler le filtre BP 1.

Pour tous les réglages, appliquer à l'appareil un signal stéréo d'antenne NICAM.

Carrier VCO

Raccorder un oscilloscope à la bobine 20 de 22IC5, QPSK-Demodulateur (TP1).



A l'aide de C 34, régler jusqu'à ce que le signal rappelant un œil soit stable et exempt de parasite.

Clock VCO

Tourner le condensateur C 35 dans le sens horaire jusqu'à évanouissement du son stéréo (les indicateurs stéréo dans le coin supérieur droit du téléviseur s'éteignent). Tourner ensuite C 35 dans le sens antihoraire jusqu'à évanouissement du son stéréo. Amener alors le condensateur C 35 à mi-chemin entre ces deux points.

OSC

Régler l'oscilloscope sur cc et le raccorder entre R50 et R55 (TP2). Régler C 133 jusqu'à obtenir une tension stable de 1,5 V cc.

FOR SERVICE MANUALS

CONTACT:

MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

Motorized Base 5000
Type 3080

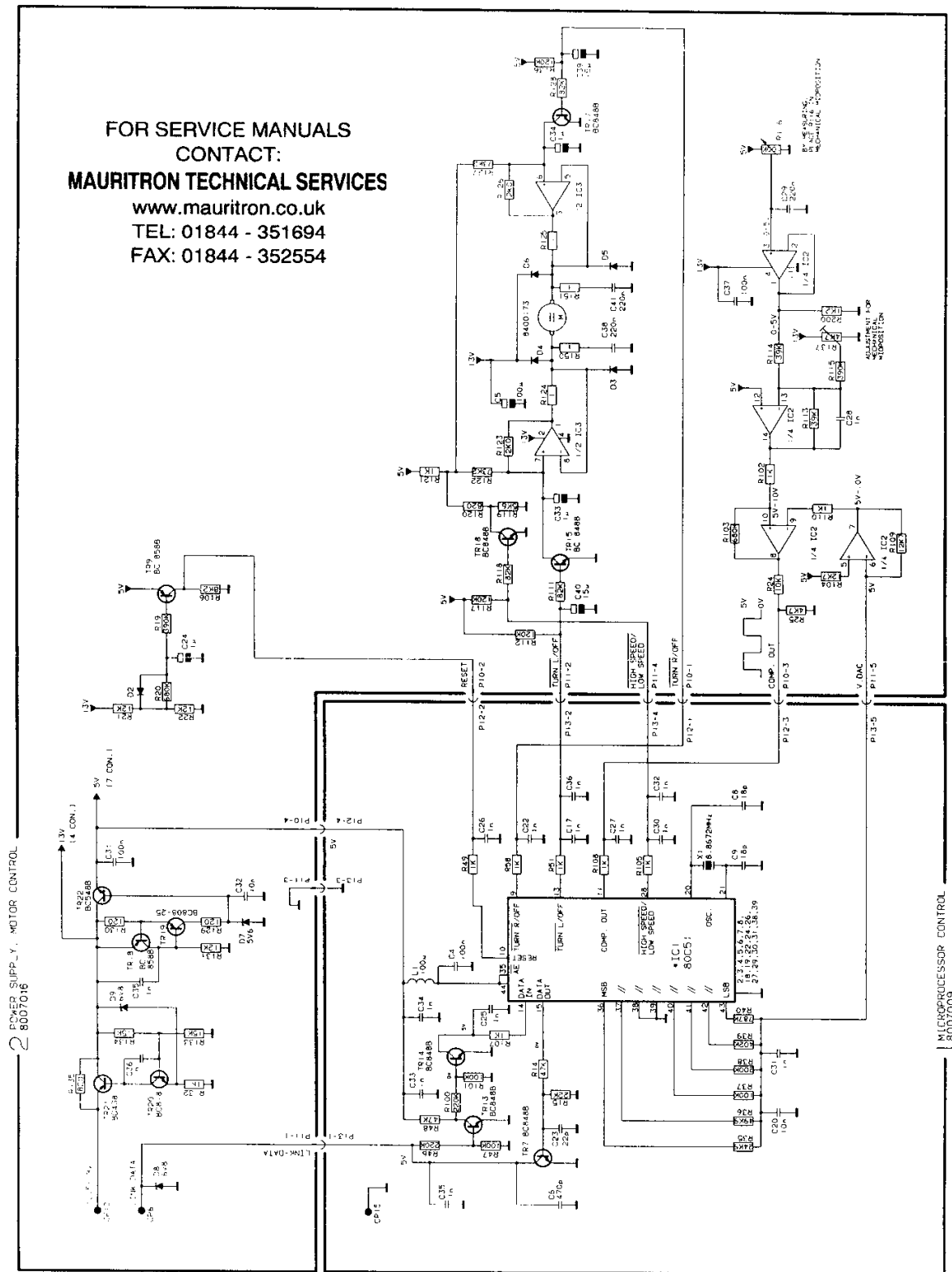
Motorized Stand 5000
Type 3081

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

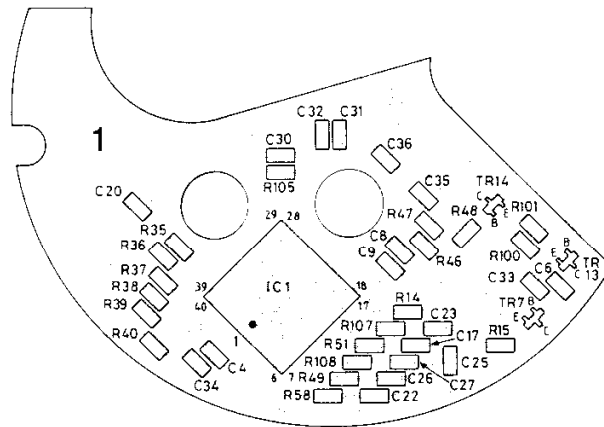


TECHNICAL SPECIFICATIONS

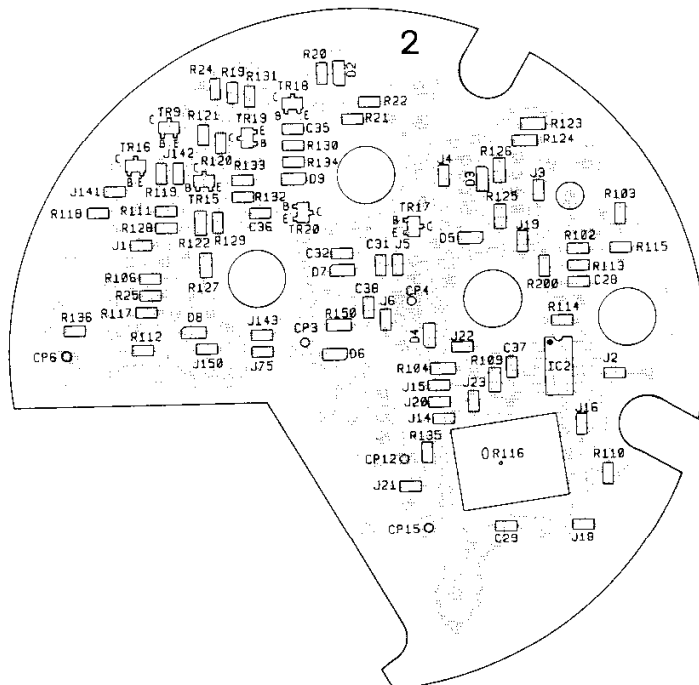
Motorized Base, MB 5000	Type No. 3080
Placement	Table-top
Motorized Stand, MS 5000	Type No. 3081
Placement	Floor stand
Designed for	Beovision MX 5000
Remote operation	Beolink 1000
Turning angle	± 35 degree from center position
Time for turning	6 sec. from center to 35 degree
TV Stand by	Automatic return to center position
Memory MX 5000	At start TV, automatic turn to last used position
Connections	4-pin DIN cable to MX 5000
Power supply	12 volts from MX 5000
Power consumption	2.4 watts
Finish	Black
Dimensions WxHxD/Weight	MB 5000: 45x6x36 cm/3.5 kg
	MS 5000:
Accessories in price:	Cover system for cables
Subject to change without notice	



PCB 1, Control



PCB 2, Power Supply
Motor Control



LIST OF ELECTRICAL PARTS

20	32	51	103	138	144	224	250

Resistors not referred to are standard, see page 19-5

PCB 1, 8007009 Control

0R116 5300131 Potentiometer

IC1* Δ 8341100 144 μP 80C51

TR7 8320615 51 BC 848B
 TR13 8320615 51 BC 848B
 TR14 8320615 51 BC 848B

R35 5011598 24.9 kΩ 1% 1/8W R38 5011601 200 kΩ 1% 1/8W
 R36 5011599 49.9 kΩ 1% 1/8W R39 5011602 402 kΩ 1% 1/8W
 R37 5011600 100 kΩ 1% 1/8W R40 5011603 787 kΩ 1% 1/8W

FOR SERVICE MANUALS

CONTACT:

MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

C4 4010166 100 nF -20+80% 50V C22 4010132 1 nF 10% 50V
 C6 4000286 470 pF 5% 50V C23 4000277 22 pF 5% 50V
 C8 4000276 18 pF 5% 50V C25- 4010132 1 nF 10% 50V
 C9 4000276 18 pF 5% 50V C27 4010132 1 nF 10% 50V
 C17 4010132 1 nF 10% 50V C30- 4010132 1 nF 10% 50V
 C20 4010176 10 nF -20+80% 50V C36

L1 8020621 Coil 100 μH

X1 8090005 Crystal 8.8672 MHz

P12 7210775 Socket 4/4 pole

P13 7210776 Socket 5/5 pole

PCB 2, 8007016 Power Supply,
Motor Control

IC2 8341041 138 LM 324M
 IC3 8341352 103 L 272M

TR9 8320616 51 BC 858B TR19 8320609 51 BC 808-25
 TR15- 8320615 51 BC 848B TR20 8320757 51 BC 818-40
 TR17 8320616 51 BC 858B TR21 8320428 32 BD 438
 TR18 8320616 51 BC 858B TR22 8320108 20 BC 548B

D2- 8300482 250 LL 4148
 D6
 D7 8300562 250 Z5.6V 2%
 D8 8300520 224 Z6.8V 5%
 D9 8300520 224 Z6.8V 5%

R104 5011761 12.7 kΩ 1% 1/4W R125 5011755 1 Ω 2% 1/4W
 R109 5011761 12.7 kΩ 1% 1/4W R126 5011763 2.0 kΩ 1% 1/4W
 R122 5011762 73.2 kΩ 1% 1/4W R127 5011762 73.2 kΩ 1% 1/4W
 R123 5011763 2.0 kΩ 1% 1/4W R137 5370324 4.7 kΩ 20% 0.1W
 R124 5011755 1 Ω 2% 1/4W R150 5011755 1 Ω 2% 1/4W

Δ indicates that static electricity may destroy the component.

*Specially selected or adapted sample.

C5	4200403	100 μ F -10+100% 25V	C34	4200333	1 μ F -10+50% 63V
C24	4200512	1 μ F 20% 50V	C35	4010132	1 nF 10% 50V
C28	4010132	1 nF 10% 50V	C36	4010132	1 nF 10% 50V
C29	4000287	220 nF -20+80% 25V	C37	4010166	100 nF -20+80% 50V
C31	4010166	100 nF -20+80% 50V	C38	4000287	220 nF -20+80% 25V
C32	4010176	10 nF -20+80% 50V	C39	4200521	15 μ F 20% 16V
C33	4200333	1 μ F -10+50% 63V	C40	4200521	15 μ F 20% 16V

P10	7220376	Plug 4/4 pole
P11	7220546	Plug 5/5 pole

Standard Resistors:

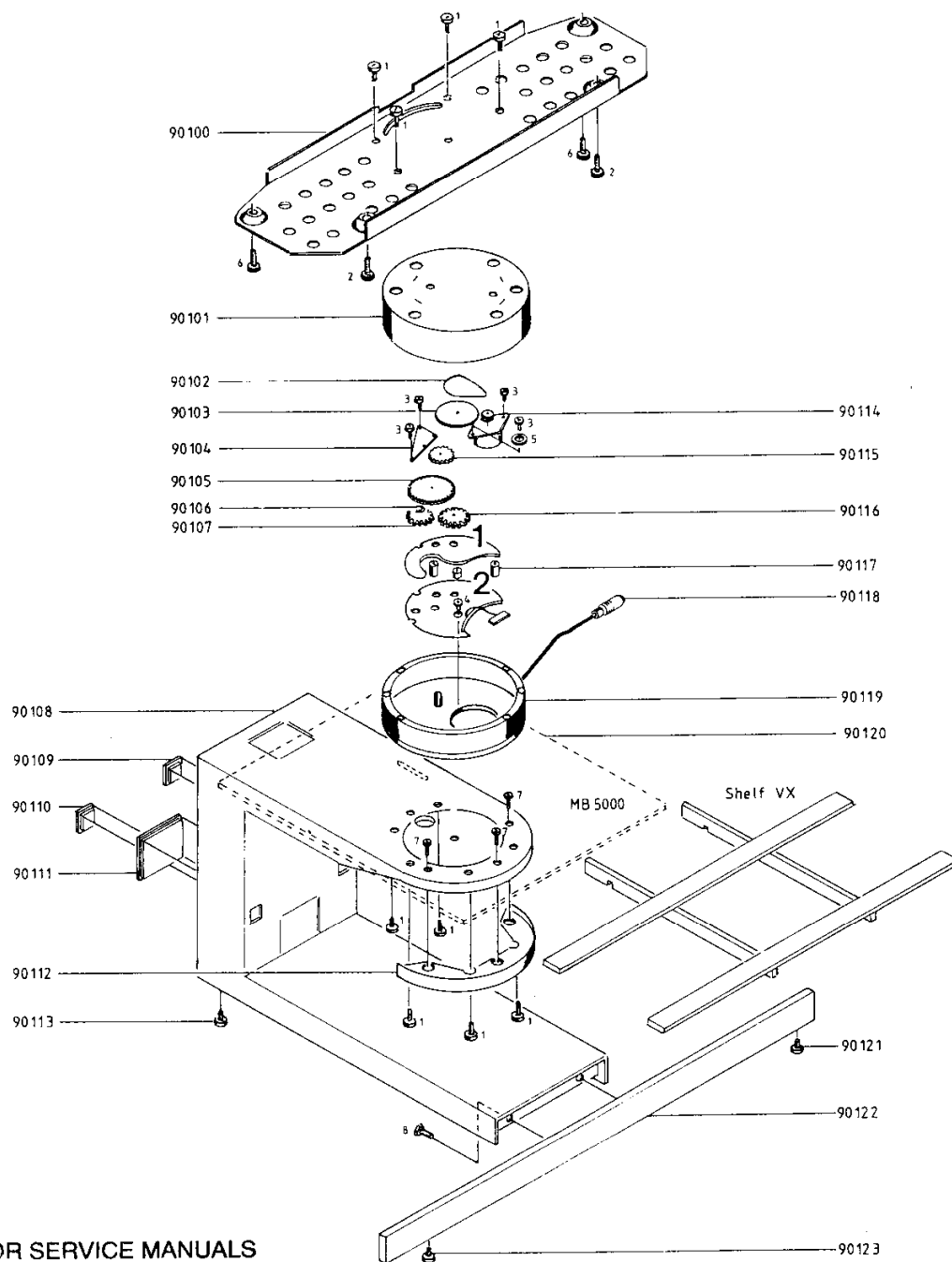
Resistors SMD 2% 1/8 W
SMD 5% 1/8 W

	5%	2%	2%	2%	2%	2%	5%	5%
	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0	5011623	5011647	5011218	5011227	5011241	5011256	5011267	5011730
1.1	5011624	5011648	5011669	5011681	5011689	5011694	5011707	
1.2	5011625	5011649	5011219	5011682	5011490	5011257	5011708	
1.3	5011626	5011650	5011670	5011683	5011242	5011258	5011709	
1.5	5011627	5011651	5011220	5011228	5011243	5011259	5011710	
1.6	5011628	5011652	5011671	5011684	5011690	5011695	5011711	
1.8	5011629	5011653	5011672	5011229	5011244	5011260	5011712	
2.0	5011630	5011654	5011673	5011685	5011691	5011696	5011713	
2.2	5011216	5011655	5011674	5011230	5011245	5011261	5011714	
2.4	5011634	5011656	5011675	5011686	5011246	5011697	5011715	
2.7	5011635	5011657	5011497	5011231	5011247	5011262	5011716	
3.0	5011731	5011658	5011499	5011500	5011692	5011698	5011717	
3.3	5011217	5011659	5011676	5011232	5011248	5011263	5011718	
3.6	5011636	5011660	5011677	5011687	5011249	5011264	5011719	
3.9	5011637	5011661	5011221	5011233	5011491	5011699	5011720	
4.3	5011638	5011662	5011498	5011688	5011492	5011700	5011721	
4.7	5011639	5011269	5011222	5011234	5011250	5011265	5011722	
5.1	5011640	5011663	5011678	5011235	5011493	5011701	5011723	
5.6	5011641	5011664	5011223	5011236	5011251	5011702	5011724	
6.2	5011642	5011665	5011224	5011237	5011693	5011703	5011725	
6.8	5011643	5011666	5011225	5011238	5011252	5011704	5011726	
7.5	5011644	5011667	5011679	5011239	5011253	5011705	5011727	
8.2	5011645	5011270	5011226	5011240	5011254	5011266	5011728	
9.1	5011646	5011668	5011680	5011489	5011255	5011706	5011729	

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

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

LIST OF MECHANICAL PARTS



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

MS 5000
MB 5000

01Modul 8007009 PCB 1, Control

02Modul 8007016 PCB 2, Power Supply, Motor Control

90100	3124117	Mounting plate
90101	3164733	Cover
90102	2732085	Rubber belt
90103	2724080	Belt pulley
90104	3014084	Guide plate
90105	2700091	Gear wheel, complete
90106	2390002	Safety washer
90107	2700075	Gear wheel
90108	3100036	Frame
90109	3341072	Cover, square
90110	3341072	Cover, square
90111	3341071	Cover, square
90112	3164735	Cover, round
90113	3035055	Rubber foot
90114	8400173	Motor
90115	2700072	Gear wheel
90116	2700076	Gear wheel
90117	3152645	Spacer
90118	6270400	Wire 4 pole DIN
90119	3150071	Bearing housing
90120	2752024	Plate f/MB 5000
90121	3035055	Rubber foot
90122	3450721	Rail
90123	3035055	Rubber foot

Survey of screws and washers

1	2044035	Screw M5 x 10mm
2	2021011	Screw 5 x 15mm
3	2011037	Screw 2.5 x 10mm
4	2013121	Screw 3 x 14mm
5	2524032	Washer
6	2044055	Screw M5 x 16mm
7	2011039	Screw 2.5 x 10mm
8	2046030	Screw M6 x 12mm
9	2044032	Screw M5 x 10mm f/MB 5000

Parts not shown

MB 5000

3390345	Bag w/screws etc.
3911113	Cable sleeve
3503534	Installation guide
3390210	Bag
3397673	Foam packing
3392055	Carton

MS 5000

3390349	Bag w/screws etc.
3911113	Cable sleeve
3503535	Installation guide
3397689	Foam insert
3397675	Foam packing
3392062	Carton

Shelf VX 8930776

Not included in MS 5000

**FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES**
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

VIGTIGT!

BUNDSKRUERNE MÅ IKKE TAGES AF, TAG PLASTLÅGET AF VED SERVICERING

Kontrol/justering af drejebord**Samling af drejebord**

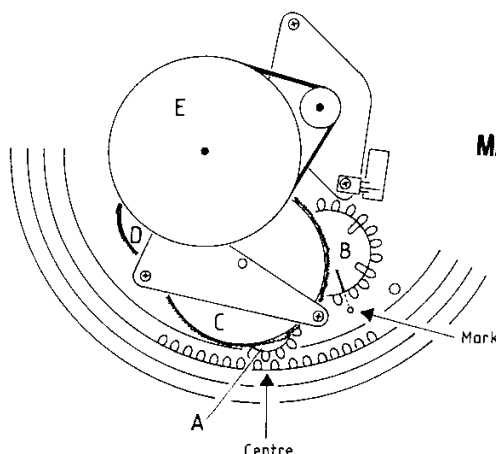
- Træk ledning med DIN-stik gennem hullet i bunden.
- Saml 'motor control' PCB02 og microprocessor PCB01 med de tre plasttæppe og skru dem fast i bunden af lejeenheden.
- Monter tandhjul A.
Tandhjulet skal stå i midten af tandkransen (8 takker til hver side). Fastgør tandhjulet med en låseskive.
- Monter tandhjul B på potentiometeret.
Drej markeringen på dette hjul, så det passer med markeringen på printet (1 mm hul).
- Læg tandhjul C ned så det går i indgreb med de to første tandhjul.
- Læg tandhjul D ned så det går i indgreb med tandhjul C.
- Monter motor og transistor.
- Sæt den trekantede metalplade på.
Markeringen på potentiometeret må ikke have flyttet sig fra markeringen på printet, og tandhjul A skal stadig stå midt på tandkransen.
- Monter tandhjul E så det går i indgreb med tandhjul D.
- Monter remmen.

IMPORTANT!

DO NOT REMOVE BOTTOM SCREWS, REMOVE PLASTIC COVER WHEN SERVICING

Control/Adjustment of Motorized Stand**Assembly of Motorized Stand**

- Draw wire with DIN plug through hole in bottom.
- Assemble »motor control« PCB02 and microprocessor PCB01 with the three plastic studs and screw them to the base of the bearing unit.
- Assemble cogwheel A.
Cogwheel A must be in the centre of the rim (8 cogs on each side). Fix the cogwheel with a lock washer.
- Assemble cogwheel B on the potentiometer.
Turn the mark on cogwheel B until it fits the mark on the printed circuit board (1 mm hole).
- Lower cogwheel C so it meshes with the first two cogwheels.
- Lower cogwheel D so it meshes with cogwheel C.
- Assemble the motor and the transistor.
- Fit the triangular metal plate. The mark on the potentiometer must still fit the mark on the printed circuit board, and cogwheel A must still be in the centre of the rim.
- Fit cogwheel E so it meshes with cogwheel D.
- Fit the belt.



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

Drehebordet er nu klar til justering/kontrol

- Slut drehebordet til en modtager.
- Drej drehebordet ca. 20° til den ene side:

- Gem positionen:   
- Sluk modtageren: 

Drehebordet skal nu returnere, så markeringen på tandhjulet passer med markeringen på printet.

Hvis ikke markeringen passer, skal drehebordet justeres med trimmepotentiometeret, som kan nås fra den modsatte side.

- Tænd modtageren.
- Sluk når den gemte position er opnået.

Fortsæt indtil justeringen passer.

- Monter plastlåget.

The motorized stand is now ready for adjustment/control

- Connect the stand to a receiver.
- Turn the stand approx. 20° to one side:

- Save the position:   
- Turn off the receiver: 

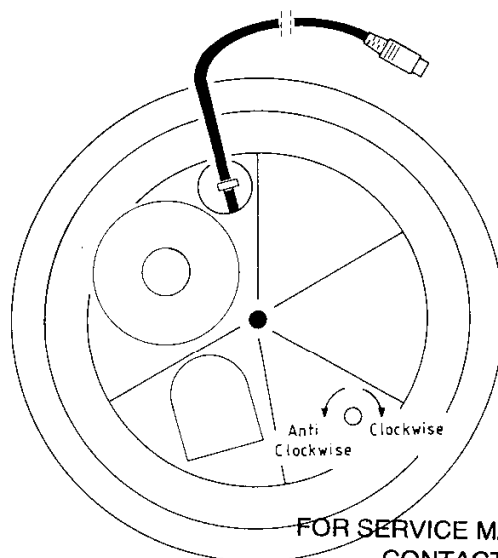
The motorized stand should now return so the mark on the cogwheel fits the mark on the printed circuit board.

If the marks do not fit, then the motorized stand must be adjusted using the trim potentiometer, which can be reached from the opposite side.

- Turn on the receiver.
- Turn off when the saved position has been reached.

Continue until the adjustment fits.

- Fit the plastic cover.



MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

WICHTIG!

DIE UNTEREN SCHRAUBEN NICHT
ENTFERNEN, BEI WARTUNGEN DEN KUNST-
STOFFDECKEL ABNEHMEN

Überprüfung/Justierung des motorisierten Fußgestells

Zusammenbau des Fußgestells

- Eine Leitung mit einem DIN-Stecker durch das Loch am Boden hindurchziehen.
- »motor control« PCB02 sowie den Mikroprozessor PCB01 mit den drei Kunststoffzapfen montieren und am Boden der Lagereinheit festschrauben.
- Zahnrad A montieren.
Das Zahnrad muß sich in der Mitte des Zahnkranzes befinden (8 Zähne an jeder Seite). Das Zahnrad mit Hilfe einer Arretierscheibe befestigen.
- Zahnrad B an das Potentiometer montieren.
Die Kennzeichnung an diesem Rad so drehen, daß sie mit der Kennzeichnung auf der Printplatte (1 mm Loch) übereinstimmt.
- Zahnrad C so anbringen, daß es mit den beiden ersten Zahnrädern in Eingriff kommt.
- Zahnrad D so anbringen, daß es mit Zahnrad C in Eingriff kommt.
- Motor und Transistor montieren.
- Das dreieckige Blech aufsetzen.
Die Kennzeichnung am Potentiometer darf sich nicht von der Kennzeichnung auf der Printplatte entfernt haben, und das Zahnrad A muß sich immer noch in der Mitte des Zahnkranzes befinden.
- Das Zahnrad E so montieren, daß es mit dem Zahnrad D in Eingriff kommt.
- Riemen montieren.

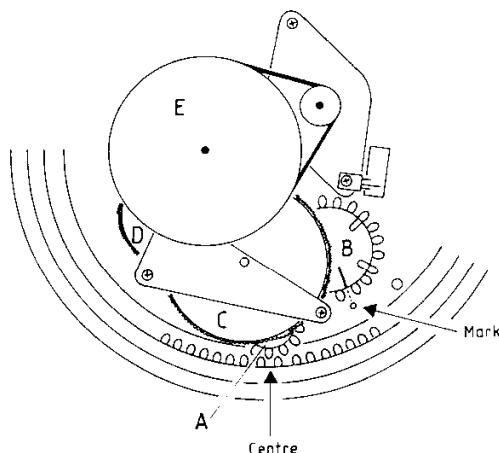
IMPORTANT!

NE PAS RETIRER LES VIS DE FOND, RETIRER
LE COUVERCLE PLASTIQUE POUR LES
OPERATIONS DE MAINTENANCE

Commande et réglage de la table orientable

Assemblage de la table orientable

- Amener le câble muni de la prise DIN par l'orifice du fond.
- Assembler la carte PCB02 »motor control« et la carte PCB01 microprocesseur à l'aide des trois chevilles plastique et les visser dans le fond du dispositif à palier afin de les fixer.
- Monter la roue d'engrenage A.
La roue d'engrenage doit être au milieu de la couronne dentée (avec huit dents de chaque côté). Fixer la roue d'engrenage à l'aide d'une rondelle-frein.
- Monter la roue d'engrenage B sur le potentiomètre.
Faire tourner la marque de cette roue de manière à la faire coïncider avec la marque de la carte de circuit imprimé (orifice 1 mm).
- Positionner la roue d'engrenage C de manière qu'elle s'engrène avec les deux premières roues.
- Positionner la roue d'engrenage D de manière qu'elle s'engrène avec la roue d'engrenage C.
- Monter le moteur et le transistor.
- Poser la plaque de métal triangulaire.
La marque du potentiomètre ne doit pas s'être déplacée par rapport à la marque de la carte de circuit imprimé, et la roue d'engrenage A doit toujours être au milieu de la couronne dentée.
- Monter la roue d'engrenage E de manière qu'elle s'engrène avec la roue d'engrenage D.
- Monter la courroie.



Das motorisierte Fußgestell kann nunmehr justiert/überprüft werden

- Das Fußgestell an einen Empfänger anschließen.
- Das Fußgestell um ca. 20° nach einer Seite drehen: 
- Die Position speichern:  

- Den Empfänger abschalten: 

Das motorisierte Fußgestell soll sich jetzt zurückbewegen, so daß die Kennzeichnung am Zahnrad mit der Kennzeichnung auf der Printplatte übereinstimmt.

Wenn die Kennzeichnung nicht am richtigen Platz ist, das Fußgestell mit Hilfe des Trimmerpotentiometers, das von der gegenüberliegenden Seite erreichbar ist, einstellen.

- Empfänger einschalten.
- Nach Erreichen der gespeicherten Position abschalten.

Weitermachen, bis die Einstellung stimmt.

- Kunststoffdeckel montieren.

La table orientable est à présent prête à être réglée/utilisée

- Connecter la table à un récepteur.
- Faire tourner la table de 20° environ d'un côté: 
- Mémoriser la position:   
- Eteindre le récepteur: 

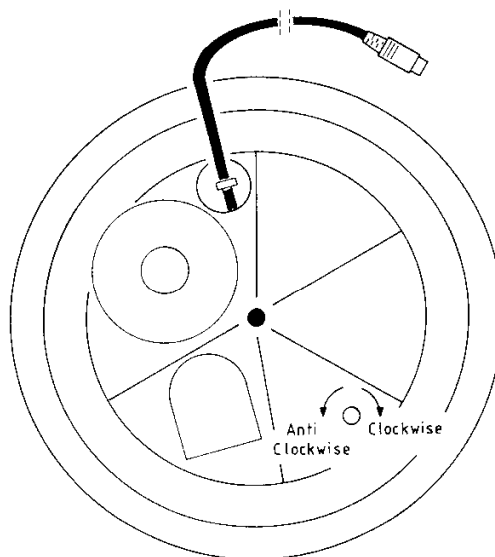
La table orientable doit alors revenir dans la position où la marque de la roue d'engrenage coïncide avec la marque de la carte de circuit imprimé.

Si ces marques ne coïncident pas, il convient de régler la table orientable à l'aide du potentiomètre d'équilibrage, accessible par le côté opposé.

- Allumer le récepteur.
- L'éteindre une fois obtenue la position mémorisée.

Poursuivre jusqu'à ce que le réglage soit satisfaisant.

- Monter le couvercle plastique.



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

NICAM 728

NEW VERSION

**Type 3037 installation kit Pal B/G
for Beovision MX3000/5000**

**Type 3040 installation kit Pal I
for Beovision MX3000/5000**

**Type 3041 installation kit Pal B/G
for Beovision MX3000/4500**

**Type 3042 installation kit Pal I
for Beovision MX3000/4500**

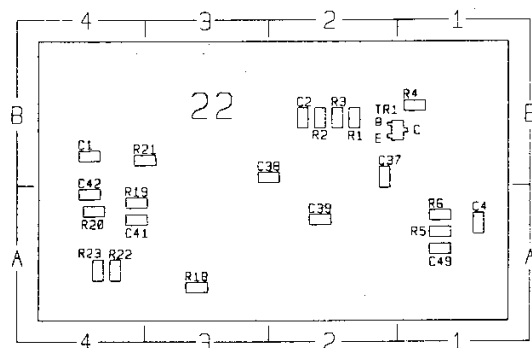
Beovision MX3000, type 3142-3148

Beovision MX5000, type 3212-3218

**FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES**
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



PCB22, Demodulator
New version



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES

www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

PCB23, Nicam D/A Decoder
New version

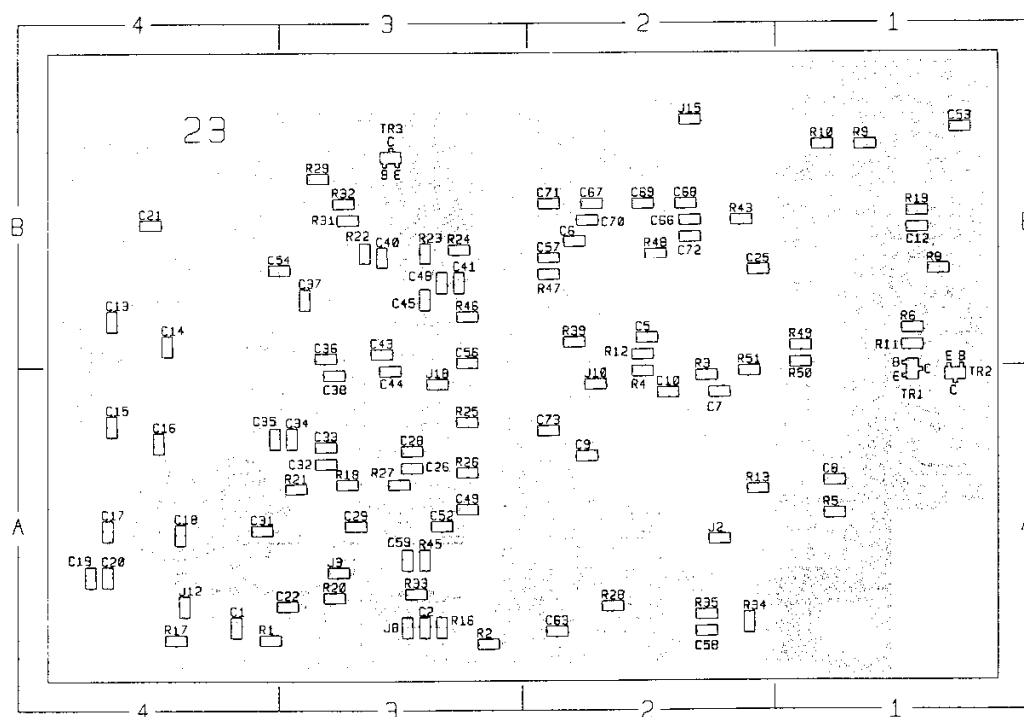
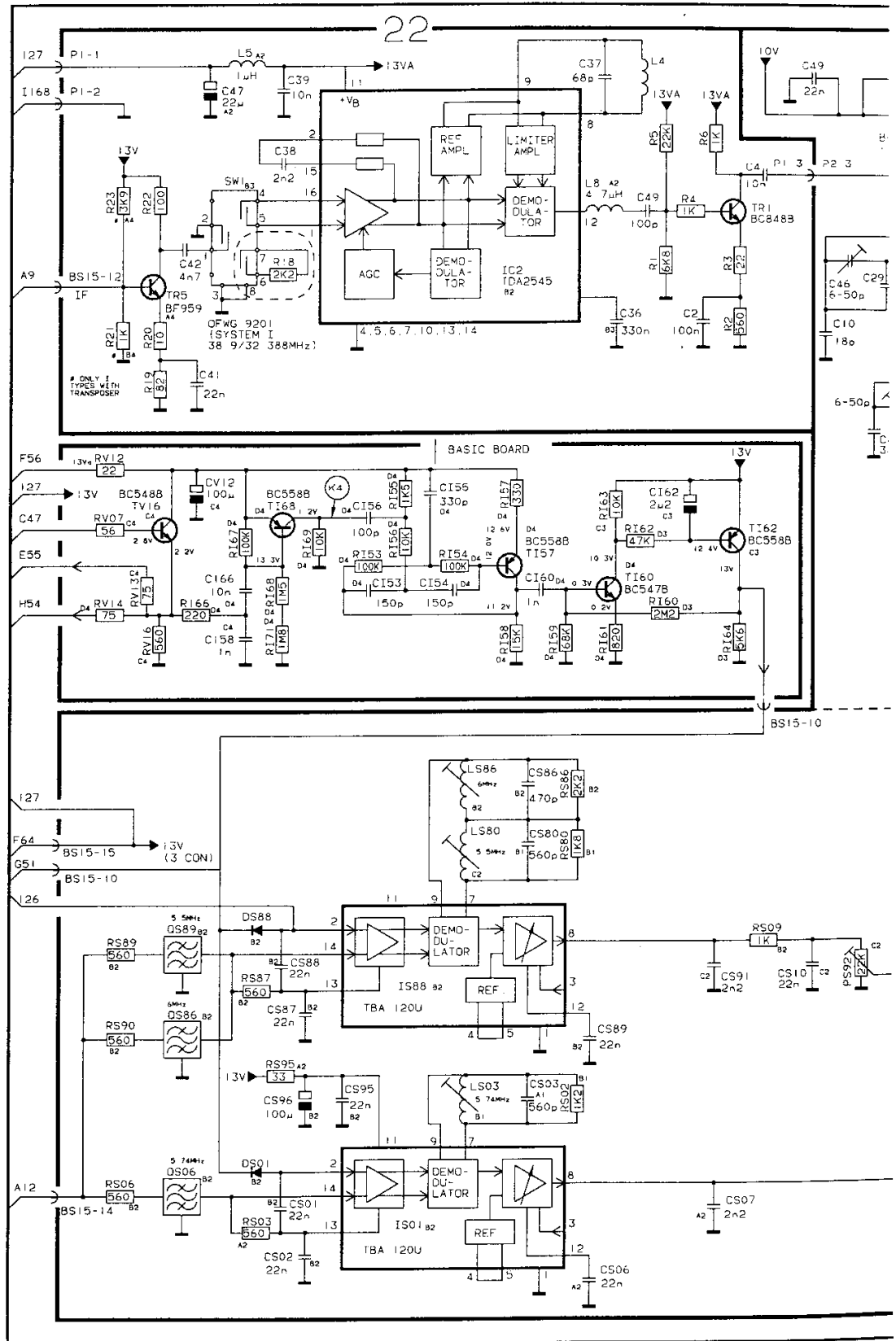


DIAGRAM D STEREO DECODER, SOUND CONTROLS, NICAM 728 DIGITAL SIGNAL PROCESSING.

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



ND CONTROLS, NICAM 728 DIGITAL SIGNAL PROCESSING, NEW VERSION

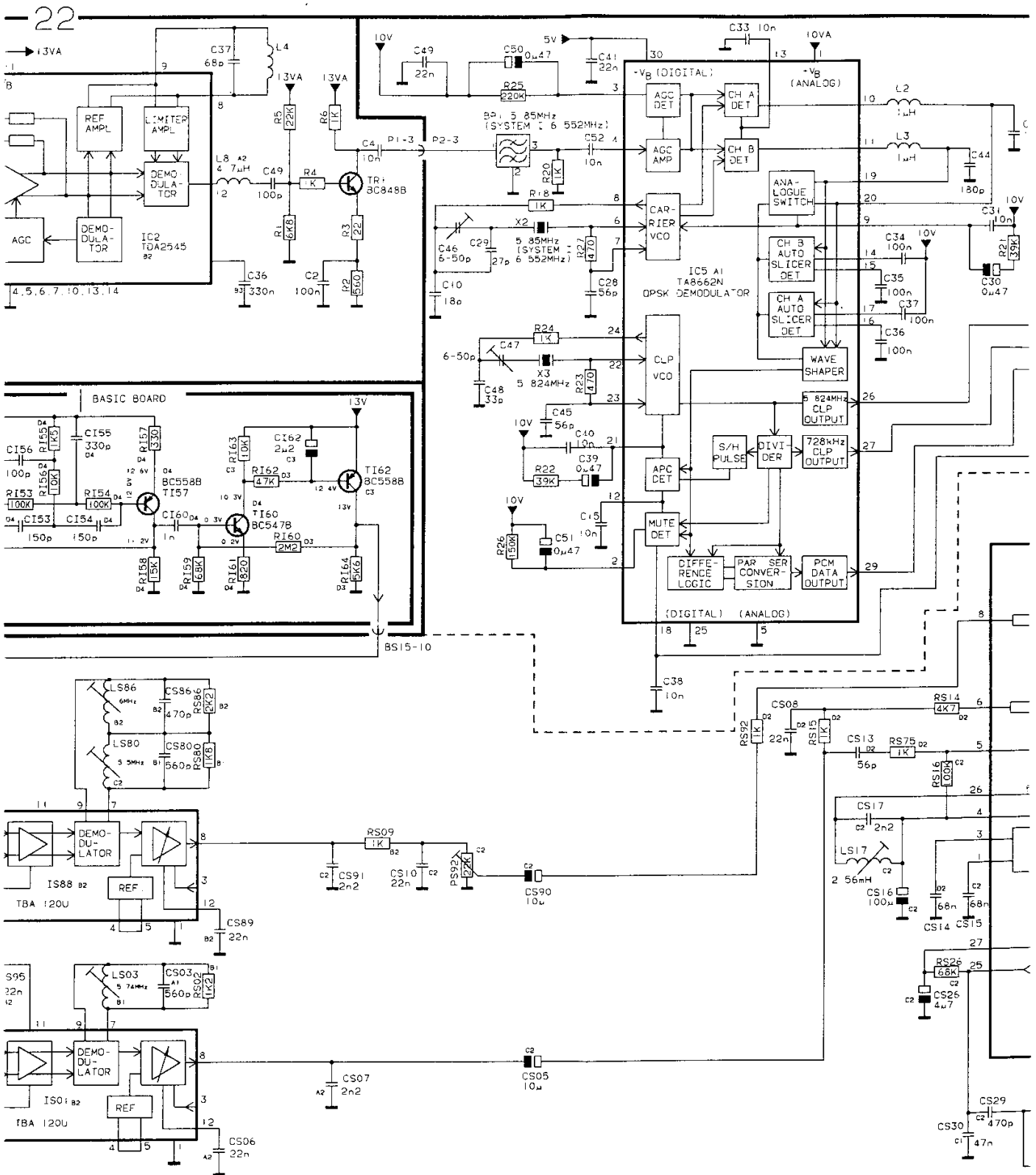
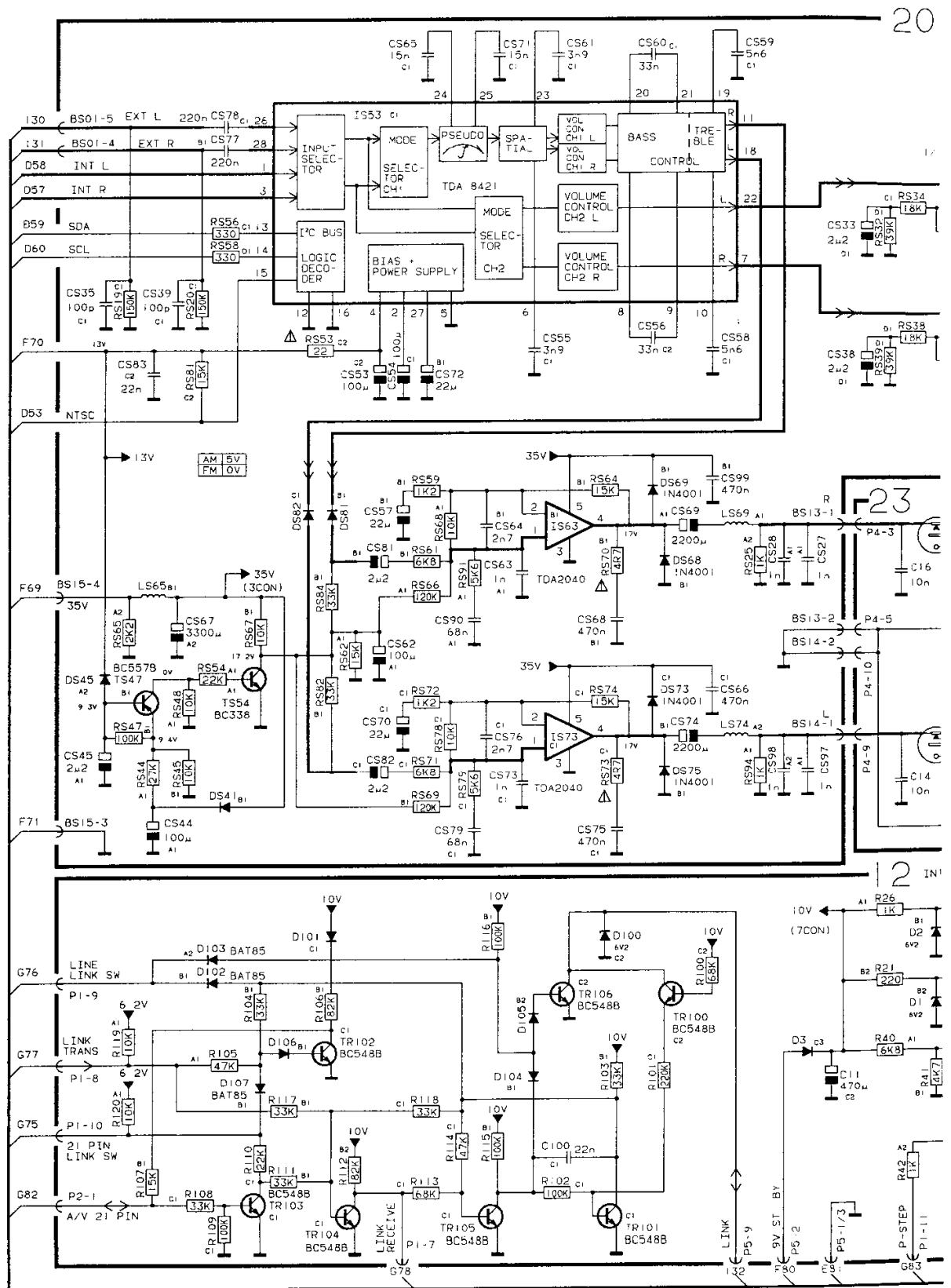
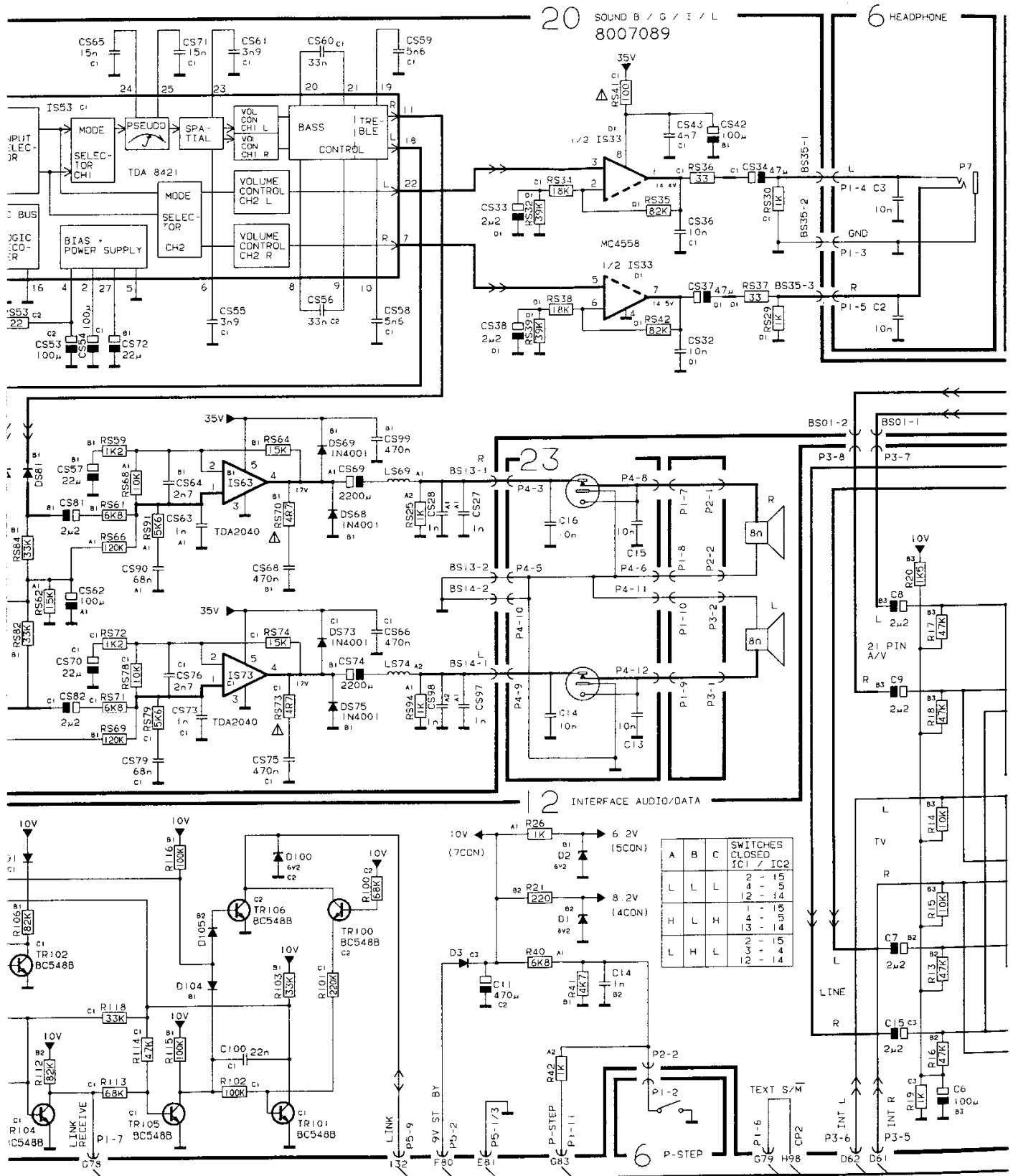


DIAGRAM E AF-AMPLIFIER, LINK INTERFACE, A/V CONNECTIONS, NEW VERSION



20 SOUND B / G / I / L
8007089



CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

SOUND B / G / I / L
8007089

HEADPHONE

BASIC BOARD

A/V CONNECTIONS
NICAM D/A DECODER

INTERFACE AUDIO/DATA

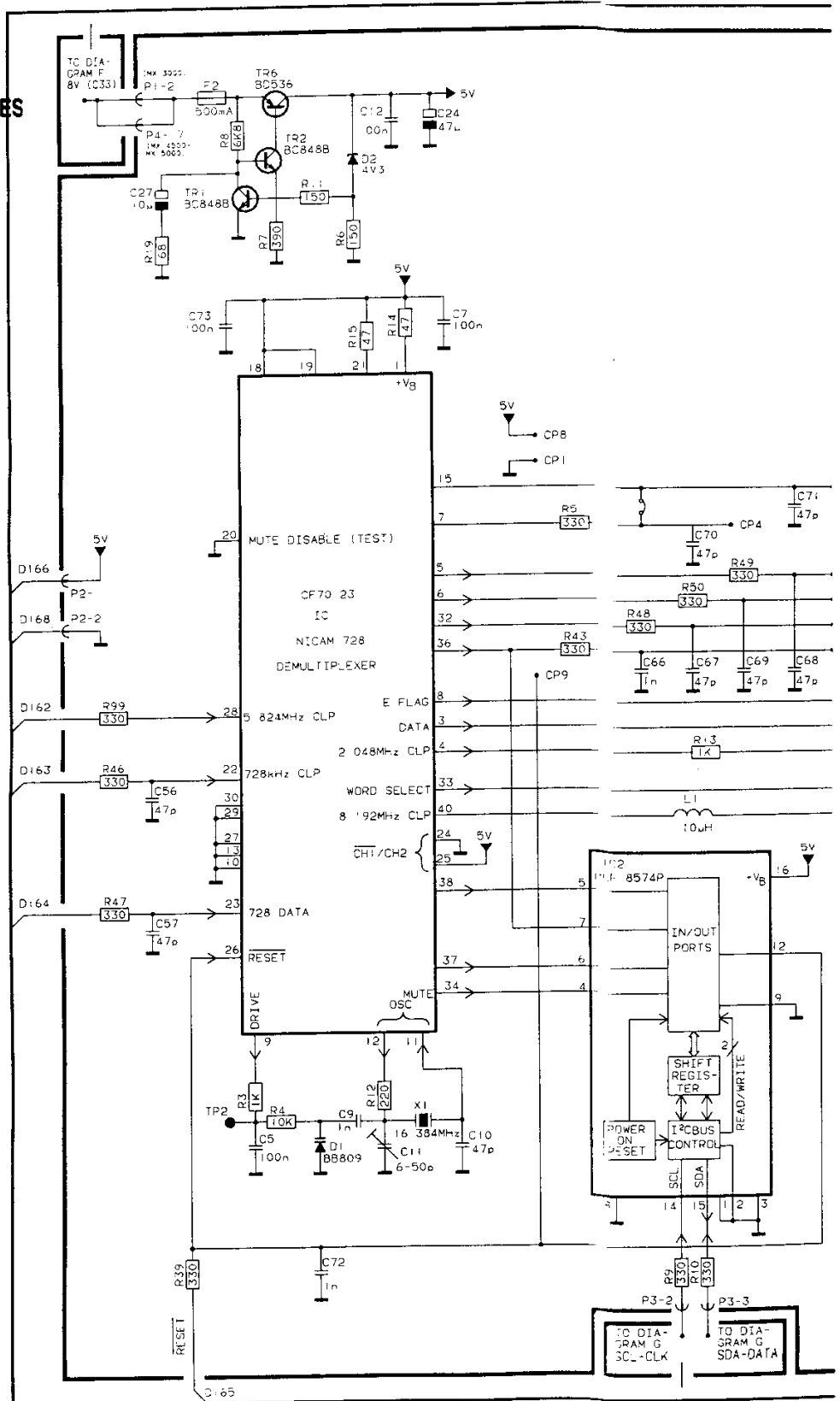
P-STEP

A	B	C	SWITCHES CLOSED IC1 / IC2
L	L	L	2 - 15
L	L	L	4 - 15
L	L	L	12 - 14
H	L	H	1 - 15
H	L	H	4 - 15
H	L	H	12 - 14
L	H	L	2 - 15
L	H	L	4 - 15
L	H	L	12 - 14

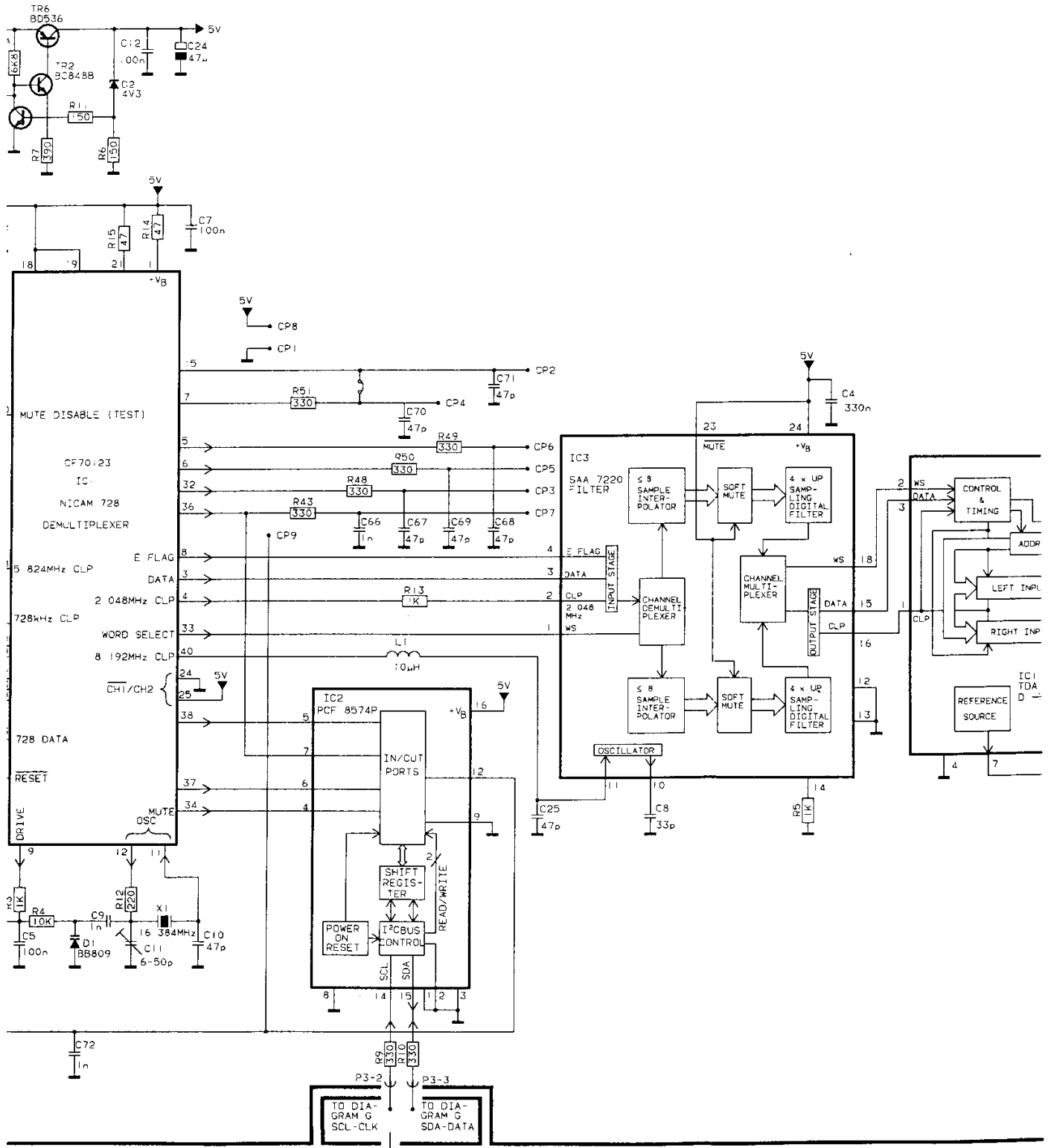
Bang & Olufsen

DIAGRAM I NICAM 728 DIGITAL FILTER, D/A CONVERTER, NEW VERSION

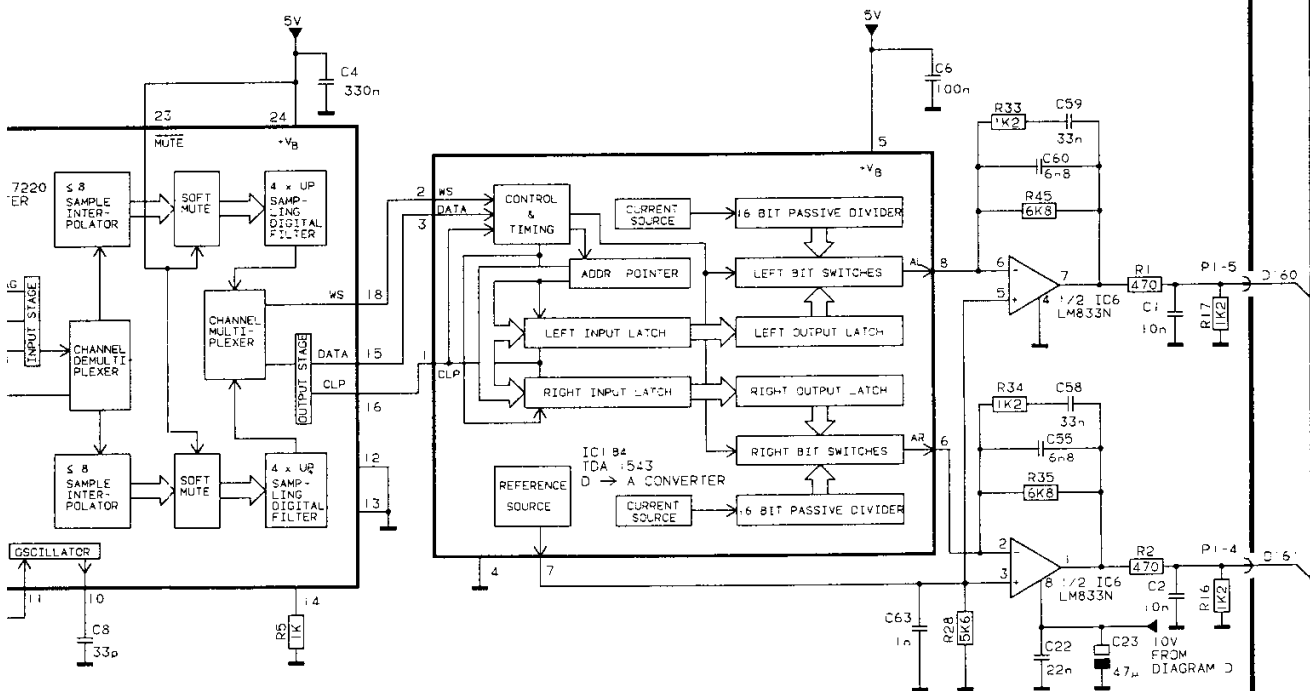
FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554



DIGITAL FILTER, D/A CONVERTER, NEW VERSION

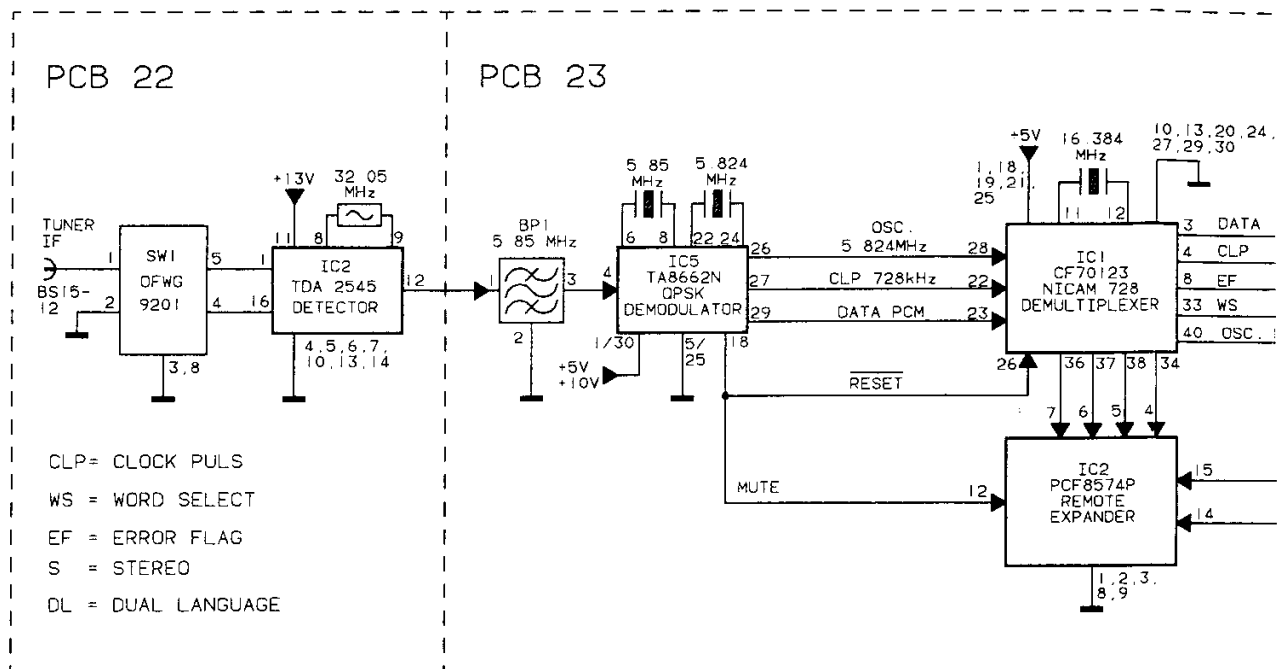
23 NICAM D/A
8007:07

23 NICAM D/A DECODER 8007107



FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

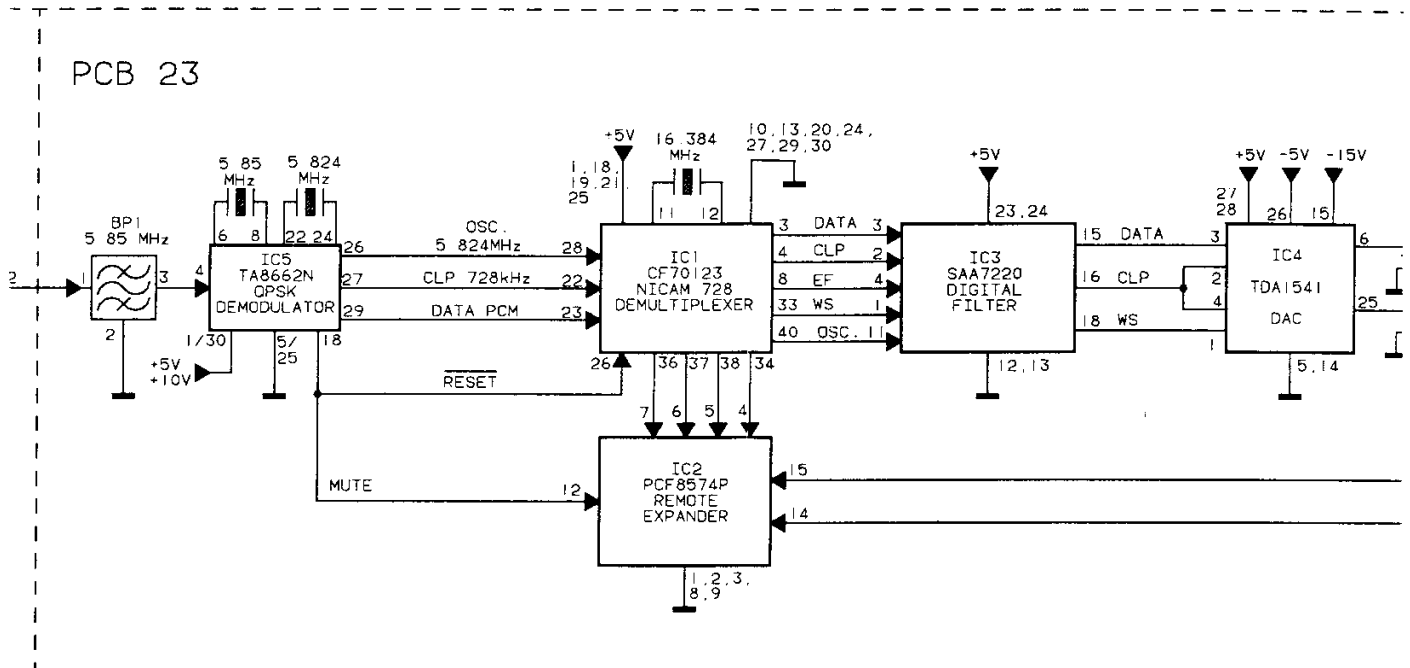
BLOCK DIAGRAM (NEW VERSION)



Stanc
Resis

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

1)

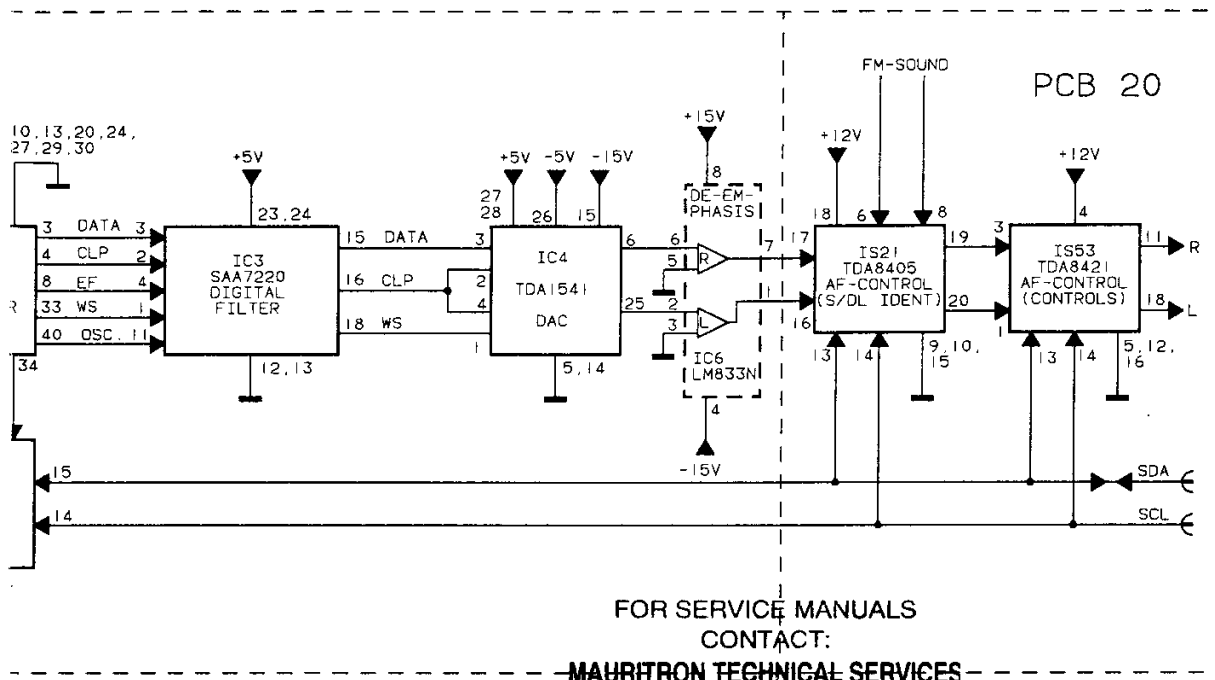
**Standard Resistors:**

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

5% 2%

	x1	x10
1.0	5011623	5011623
1.1	5011624	5011624
1.2	5011625	5011625
1.3	5011626	5011626
1.5	5011627	5011627
1.6	5011628	5011628
1.8	5011629	5011629
2.0	5011630	5011630
2.2	5011631	5011631
2.4	5011632	5011632
2.7	5011633	5011633
3.0	5011634	5011634
3.3	5011635	5011635
3.6	5011636	5011636
3.9	5011637	5011637
4.3	5011638	5011638
4.7	5011639	5011639
5.1	5011640	5011640
5.6	5011641	5011641
6.2	5011642	5011642
6.8	5011643	5011643
7.5	5011644	5011644
8.2	5011645	5011645
9.1	5011646	5011646

(Glue dots, approx. 20)



www.mauritron.co.uk

TEL: 01844 - 351694

FAX: 01844 - 352554

Standard Resistors:

Resistors SMD 2% 1/8 W

SMD 5% 1/8 W

	5%	2%	2%	2%	2%	2%	5%	5%
	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0	5011623	5011647	5011218	5011227	5011241	5011256	5011267	5011730
1.1	5011624	5011648	5011669	5011681	5011689	5011694	5011707	
1.2	5011625	5011649	5011219	5011682	5011490	5011257	5011708	
1.3	5011626	5011650	5011670	5011683	5011242	5011258	5011709	
1.5	5011627	5011651	5011220	5011228	5011243	5011259	5011710	
1.6	5011628	5011652	5011671	5011684	5011690	5011695	5011711	
1.8	5011629	5011653	5011672	5011229	5011244	5011260	5011712	
2.0	5011630	5011654	5011673	5011685	5011691	5011696	5011713	
2.2	5011216	5011655	5011674	5011230	5011245	5011261	5011714	
2.4	5011634	5011656	5011675	5011686	5011246	5011697	5011715	
2.7	5011635	5011657	5011497	5011231	5011247	5011262	5011716	
3.0	5011731	5011658	5011499	5011500	5011692	5011698	5011717	
3.3	5011217	5011659	5011676	5011232	5011248	5011263	5011718	
3.6	5011636	5011660	5011677	5011687	5011249	5011264	5011719	
3.9	5011637	5011661	5011221	5011233	5011491	5011699	5011720	
4.3	5011638	5011662	5011498	5011688	5011492	5011700	5011721	
4.7	5011639	5011269	5011222	5011234	5011250	5011265	5011722	
5.1	5011640	5011663	5011678	5011235	5011493	5011701	5011723	
5.6	5011641	5011664	5011223	5011236	5011251	5011702	5011724	
6.2	5011642	5011665	5011224	5011237	5011693	5011703	5011725	
6.8	5011643	5011666	5011225	5011238	5011252	5011704	5011726	
7.5	5011644	5011667	5011679	5011239	5011253	5011705	5011727	
8.2	5011645	5011270	5011226	5011240	5011254	5011266	5011728	
9.1	5011646	5011668	5011680	5011489	5011255	5011706	5011729	

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

LIST OF ELECTRICAL PARTS New version

23	32	35	51	101	103	136	209

Resistors not referred to are standard, see page 20-5

PCB22, 8007251

IC1Δ	8340496	101	TDA 2545A				
TR1	8320615	51	BC 848B	TR5	8320538	23	BF 959
C1	4010132	1 nF	10% 50V	C39	4010176	10 nF	-20+80% 50V
C2	4010166	100 nF	-20+80% 50V	C41	4010177	22 nF	-20+80% 50V
C4	4010176	10 nF	-20+80% 50V	C42	4010173	4.7 nF	10% 50V
C36	4130171	330 nF	20% 63V	C47	4200488	22 μF	20% 25V
C37	4000280	68 pF	5% 50V	C49	4000241	100 pF	5% 50V
C38	4010170	2.2 nF	10% 50V				
L4	8020359	Coil	38.9 MHz	L8	8020551	Coil	4.7 μH 10%
L5	8020600	Coil	1 μH 10%				
SW1	8030162	OPW	G9201				
P1	7220710	Plug	3 pole				

PCB23, 8007259

IC1Δ	8341159	136	CF 70123	IC4	8341194	103	TDA 1543
IC2Δ	8341158	136	PCF 8574P	IC5Δ	8341099	136	TA 8662N
IC3Δ	8341183	136	SAA 7220P/B	IC6	8640930	103	LM 833N
TR1	8320615	51	BC 848B	TR4	8320785	32	BD 138
TR2	8320615	51	BC 848B	TR6*	8320438	35	BD 536
TR3	8320615	51	BC 848N		3358242		Heat sink
D1	8300656	209	BB 809	D3	8300296	209	ZPD 5.6V 2%
D2	8300396	209	ZPD 4.3V 5%				
R7	5011021	390Ω	5% 1/2W	R30	5010070	390Ω	5% 1/4W
R14-	5011021	47Ω	5% 1/4W	R99	5010044	330Ω	5% 1/4W
R15							
C1-	4010157	10 nF	10% 50V	C39	4200476	0.47 μF	20% 50V
C2				C40	4010176	10 nF	-20+80% 50V
C4	4130171	330 nF	20% 63V	C41	4010177	22 nF	-20+80% 50V
C5-	4010166	100 nF	-20+80% 50V	C43-	4000282	180 pF	5% 50V
C7				C44			
C8	4000361	33 pF	5% 50V	C45	4000240	56 pF	5% 50V
C9	4000345	1 nF	5% 50V	C46-	4340028	5-60 pF	50V
C11	4340028	6-50 pF	50V	C47			
C12	4010166	100 nF	-20+80% 50V	C48	4000239	33 pF	5% 50V
C13-	4010176	10 nF	-20+80% 50V	C49	4010177	22 nF	-20+80% 50V
C16				C50-	4200476	0.47 μF	20% 50V
C17-	4010132	1 nF	10% 50V	C51			
C20				C52	4010176	10 nF	-20+80% 50V
C21	4010166	100 nF	-20+80% 50V	C53	4010177	22 nF	-20+80% 50V
C22	4010177	22 nF	-20+80% 50V	C54	4010166	100 nF	-20+80% 50V
C23	4200483	47 μF	20% 16V	C55	4100241	6.8 nF	5% 63V
C24	4200482	47 μF	20% 10V	C56-	4000234	47 pF	5% 50V
C25	4000293	47 pF	5% 50V	C57			
C26	4000276	18 pF	5% 50V	C58-	4010175	33 nF	10% 50V
C27	4200431	10 μF	20% 16V	C59			
C28	4000240	56 pF	5% 50V	C60	4100241	6.8 nF	5% 50V
C29	4000278	27 pF	5% 50V	C63	4000345	1 nF	5% 50V
C30-	4010176	10 nF	-20+80% 50V	C66	4000345	1 nF	5% 50V
C33				C67-	4000234	47 pF	5% 50V
C34	4010166	100 nF	-20+80% 50V	C70			
C37				C72	4000345	1 nF	5% 50V
C38	4010176	10 nF	-20+80% 50V	C73	4010166	100 nF	-20+80% 50V

Δ indicates that static electricity may destroy the component.

*Specially selected or adapted sample.

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

L1	8020552	Coil 10 μ H 10%	L3	8020747	Coil 1 mH 10%
L2	8020747	Coil 1 mH 10%	L4	8020552	Coil 10 H 10%
BP1	8020734	Band pass filter 5.85 MHz			
F1	6600090	Fuse 500 mA 250V	F2	6600090	Fuse 500 mA 250V
X1	8090082	Crystal 16.384 MHz	X3	8090083	Crystal 5.824 MHz
X2	8090085	Crystal 5.85 MHz			
P1	7220427	Plug 5/5 pole	P4	7220436	Plug 17/17 pole
P3	7220779	Plug 4 pole	P5	3168754	Link panel
	3152559	Holder f/PCB 12			
	3390382	Bag w/parts			
	3543115	Mounting instruction			
	3503537	Owner's manual			

Parts not shown
Type 3037-3040

Type 3041-3042

3152559 Holder f/PCB 12
3390383 Bag w/parts
8341156 IC f/11R01 - HD 404919
3543117 Instruction f/11R01
3543114 Mounting instruction
3503537 Owner's manual

FOR SERVICE MANUALS
CONTACT:
MAURITRON TECHNICAL SERVICES
www.mauritron.co.uk
TEL: 01844 - 351694
FAX: 01844 - 352554

JUSTERINGER

Vigtigt! Der må ikke justeres i filteret BP1.

Ved alle justeringer skal apparatet tilføres et NICAM stereo antennesignal.

Carrier VCO

Tilslut et oscilloskop til ben 20 på 23IC5, QPSK-Demodulator.



Med 23C46 justeres, indtil øjemønster-signalet er støjfrit og stabilt.

Clock VCO

Drej 23C47 med uret, indtil stereolyden forsvinder, (stereo-indikatorerne i øverste højre hjørne af TV'et slukker). Drej derefter 23C47 mod uret, indtil stereolyden forsvinder. Drej nu 23C47 til midt imellem de to punkter.

OSC

Indstil oscilloskopet til DC, og tilslut det mellem 23R3 og 23R4. Juster 23C11, indtil spændingen står stabilt på 1.5 V DC.

JUSTIERUNGEN

Wichtig! Keine Justierungen am Filter BP1 vornehmen.

Bei sämtlichen Einstellvorgängen muß dem Gerät ein NICAM-Stereo-Antennensignal zugeführt werden.

Spannungsgeregelter Träger-Oszillator

Einen Oszillographen an Anschluß 20 des 23IC5, QPSK-Demodulator anschließen.



Mit 23C46 solange justieren, bis das Augenmuster-Signal rauschlos und stabil ist.

Spannungsgeregelter Clock-Oszillator

23C47 im Uhrzeigersinn drehen, bis der Stereo-Ton verschwindet (die Stereo-Anzeigelämpchen in der oberen, rechten Ecke des Fernsehgerätes erlöschen). Anschließend 23C47 entgegen dem Uhrzeigersinn drehen, bis der Stereo-Ton verschwindet. Jetzt 23C47 auf eine Position zwischen den beiden Punkten einstellen.

OSC

Den Oszillographen auf Gleichstrom einstellen und zwischen 23R3 und 23R4 anschließen. 23C11 solange verstellen, bis die Spannung bei 1.5 V Gleichstrom stabil ist.

ADJUSTMENTS

Note! Do not adjust in the filter BP1.

During all adjustments, the TV-set must be fed a NICAM stereo antenna signal.

Carrier VCO

Connect an oscilloscope to pin 20 of 23IC5, QPSK-Demodulator.



Adjust 23C46, until the eye pattern signal is noiseless and stable.

Clock VCO

Turn 23C47 clockwise until the stereo sound disappears (the stereo indicators in the upper right-hand corner of the TV-set switches off). Now turn 23C47 counter-clockwise until the stereo sound disappears. Finally turn 23C47 until mid-position between the two positions.

OSC

Set the oscilloscope to DC and connect it between 23R3 and 23R4. Adjust 23C11 until the voltage is stable at 1.5 V DC.

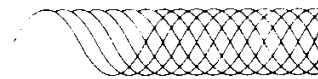
REGLAGES

Attention! Il est interdit de régler le filtre BP1.

Pour tous les réglages, appliquer à l'appareil un signal stéréo d'antenne NICAM.

Carrier VCO

Raccorder un oscilloscope à la bobine 20 de 23IC5, QPSK-Demodulateur.



A l'aide de 23C46, régler jusqu'à ce que le signal rappelant un oeil soit stable et exempt de parasite.

Clock VCO

Tourner le condensateur 23C47 dans le sens horaire jusqu'à évanouissement du son stéréo (les indicateurs stéréo dans le coin supérieur droit du téléviseur s'éteignent). Tourner ensuite 23C47 dans le sens antihoraire jusqu'à évanouissement du son stéréo. Amener alors le condensateur 23C47 à mi-chemin entre ces deux points.

OSC

Régler l'oscilloscope sur cc et le raccorder entre 23R3 et 23R4. Régler 23C11 jusqu'à obtenir une tension stable de 1.5 V cc.