

Bang & Olufsen

Beovision LX 4500/5500

Type 39xx

Beovision LX 4500/5500 White/Grey Line

Beovision L 4500/5500

Type 39xx

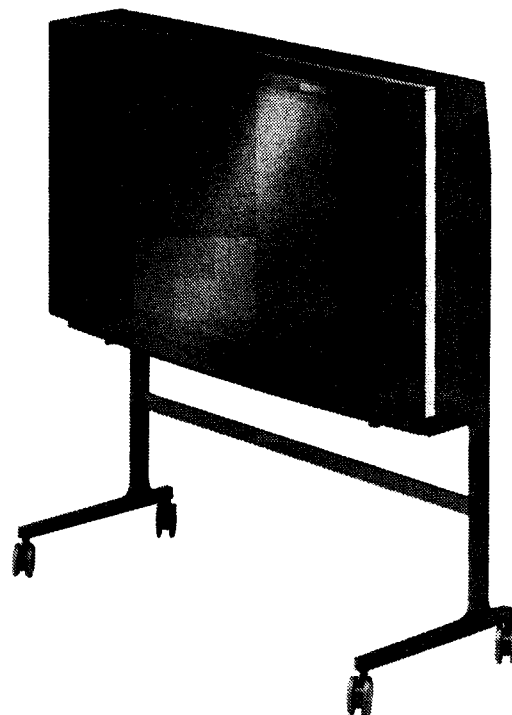
Beovision MX 3500

Type 316x/317x/318X

Beovision MX 5500

Type 326x/327x/328x

Picture-in-picture



12966

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SERVICE MANUAL



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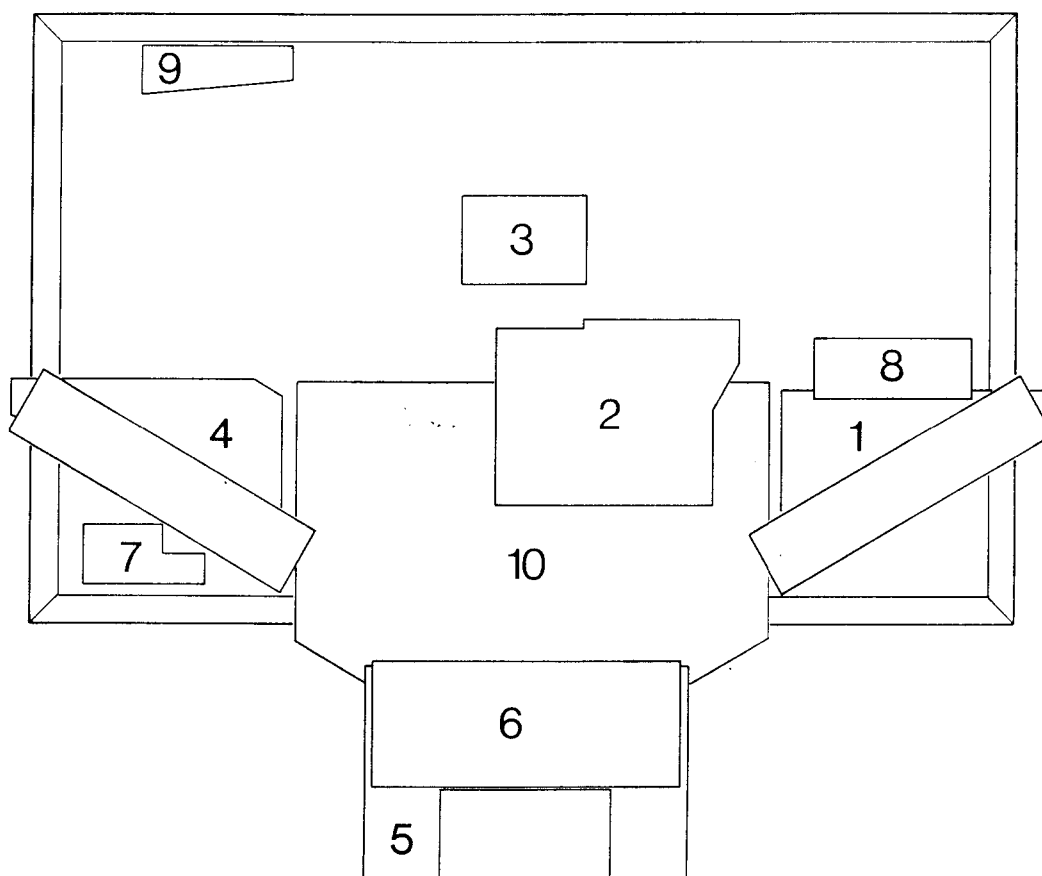
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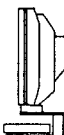
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TECHNICAL SPECIFICATIONS		Beovision MX3500 – L/LX4500 – L/LX/MX5500
CTV system		Multistandard B/G/L
		In GB version: only I
Colour system		Pal/Secam, NTSC A/V 4.43 MHz/3.58 MHz
Picture tube (Visual picture)		MX3500 55 cm-21" (51 cm-20")
		L/LX 4500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

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

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

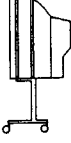
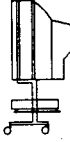
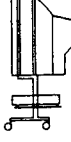
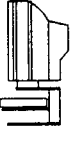
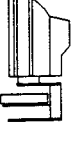
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Abbreviations:

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

Finish:

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

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

Abbreviations:

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

Finish:

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



Type Survey

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

Subject to change without notice

DIAGRAMFORKLARING

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

Komponenttryk og koordinatsystem

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

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

Styrekredsløb

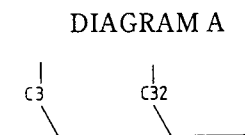
I visse styrekredsløb er den aktive tilstand angivet med en funktions- eller bogstavsangivelse. Denne kan eksempelvis være $\overline{\text{ST.BY.}}$ = »low« i stand-by-stilling eller ST.BY. = »high« i stand-by-stilling.

Ledningsforbindelser

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

INTERN FORBINDELSE PÅ EN DIAGRAMSIDE

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

FORBINDELSE TIL EN ANDEN DIAGRAMSIDE

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

Forsyningsspændinger

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

Eksempel:

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

EXPLANATION OF DIAGRAM

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

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

Component print and coordinate system

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

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

Control Circuit

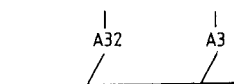
In certain control circuits the active mode is indicated by a function term or by an abbreviation. This may be e.g. $\overline{\text{ST.BY.}}$ = low in the stand-by mode or ST.BY. = high in the stand-by mode.

Wiring Connections

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

INTERNAL CONNECTION ON ONE DIAGRAM PAGE

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

CONNECTION TO ANOTHER DIAGRAM PAGE**DIAGRAM C**

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

Supply Voltages

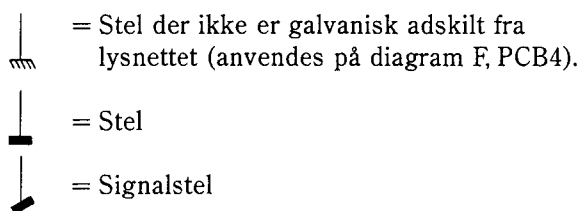
All supply voltages in the diagrams are indicated by an arrow and a voltage indication.

Example:

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

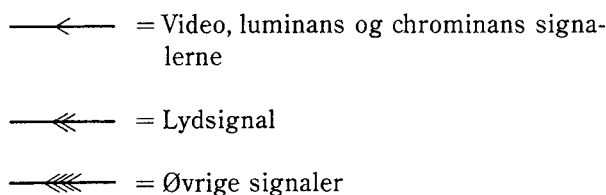
Stelsymboler

Der anvendes tre forskellige stelsymboler i diagrammerne som vist:



Signalveje og markering på IC'erne

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



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

MÅLEBETINGELSER

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

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

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

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

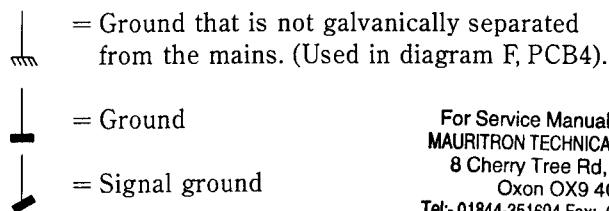
AC-spændingerne er opgivet i millivolt (mV), f.eks. 660 mV.

SYMBOL FOR SIKKERHEDSMODSTANDE

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

Ground symbols

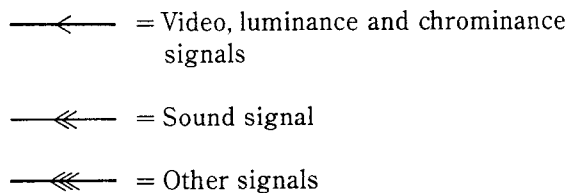
Three different ground symbols are used in the diagrams:



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Signal paths and IC markings

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



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

MEASURING CONDITIONS

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

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

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

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

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

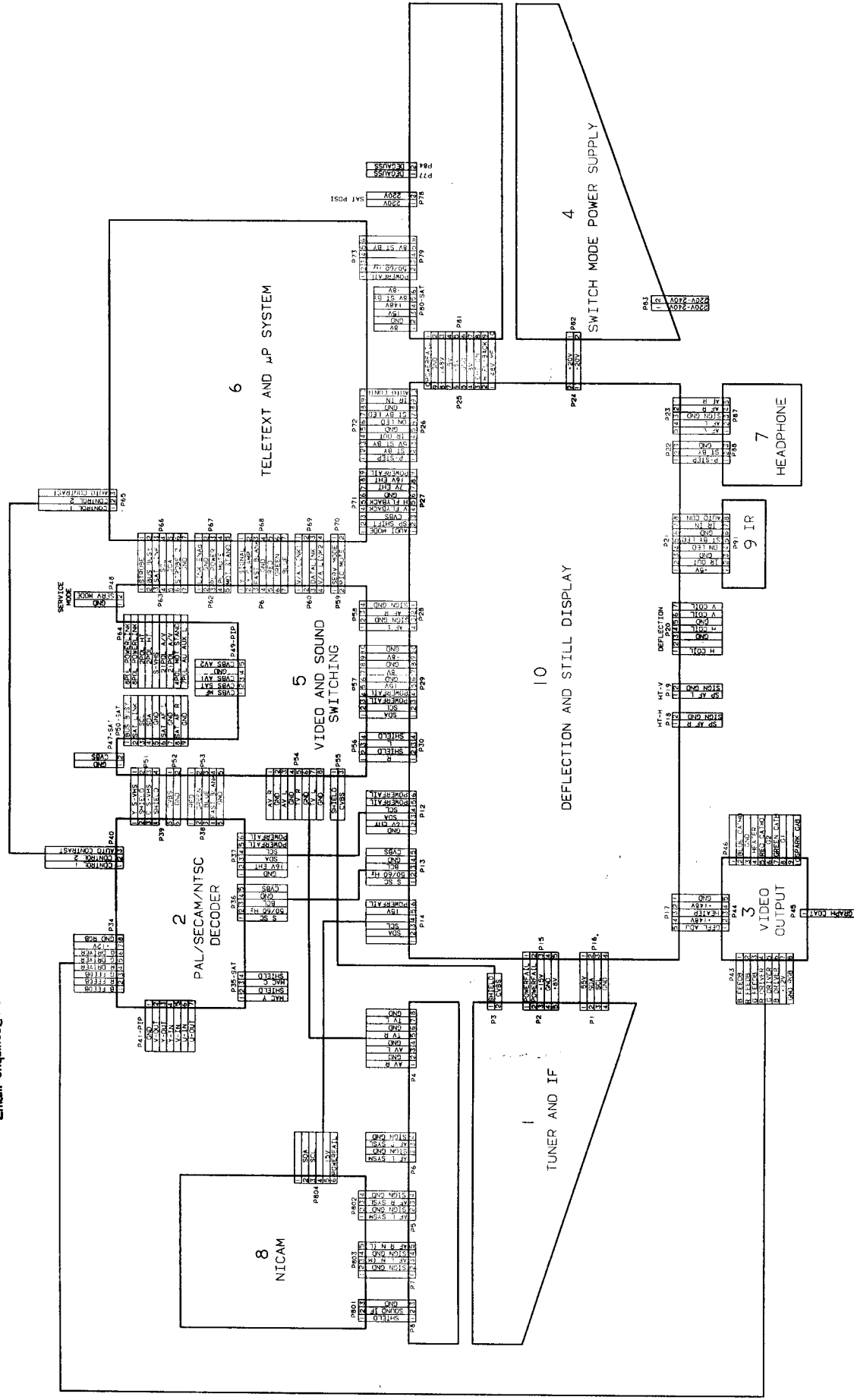
SYMBOL FOR SAFETY RESISTORS



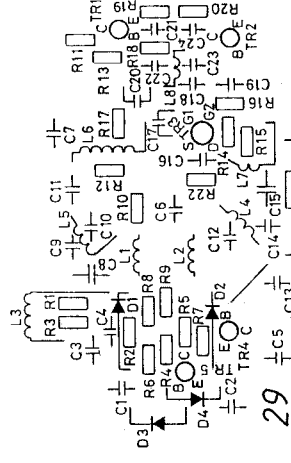
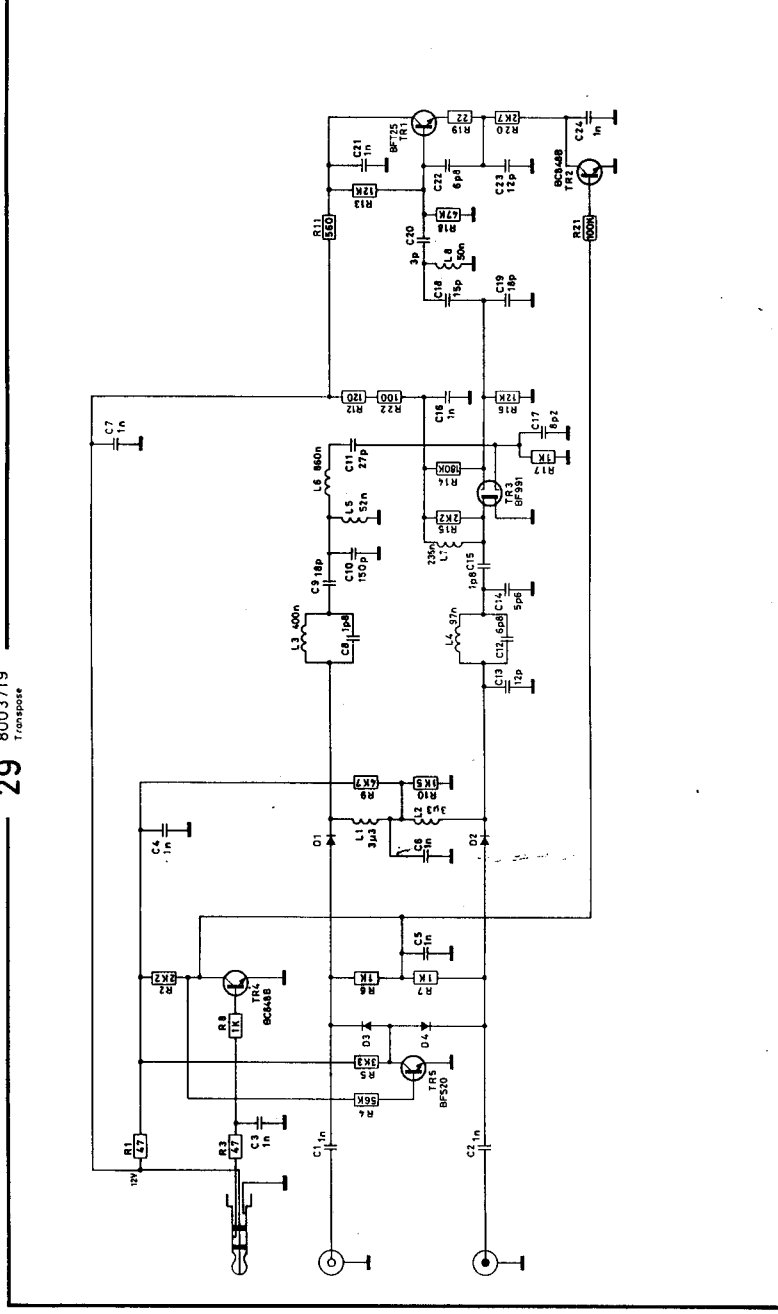
When replacing components with this symbol the same type has to be used, also the same values for ohm and watt. The new component is to be mounted in the same way as the replaced one.

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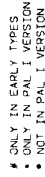
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29 8003719
T/compose



1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84



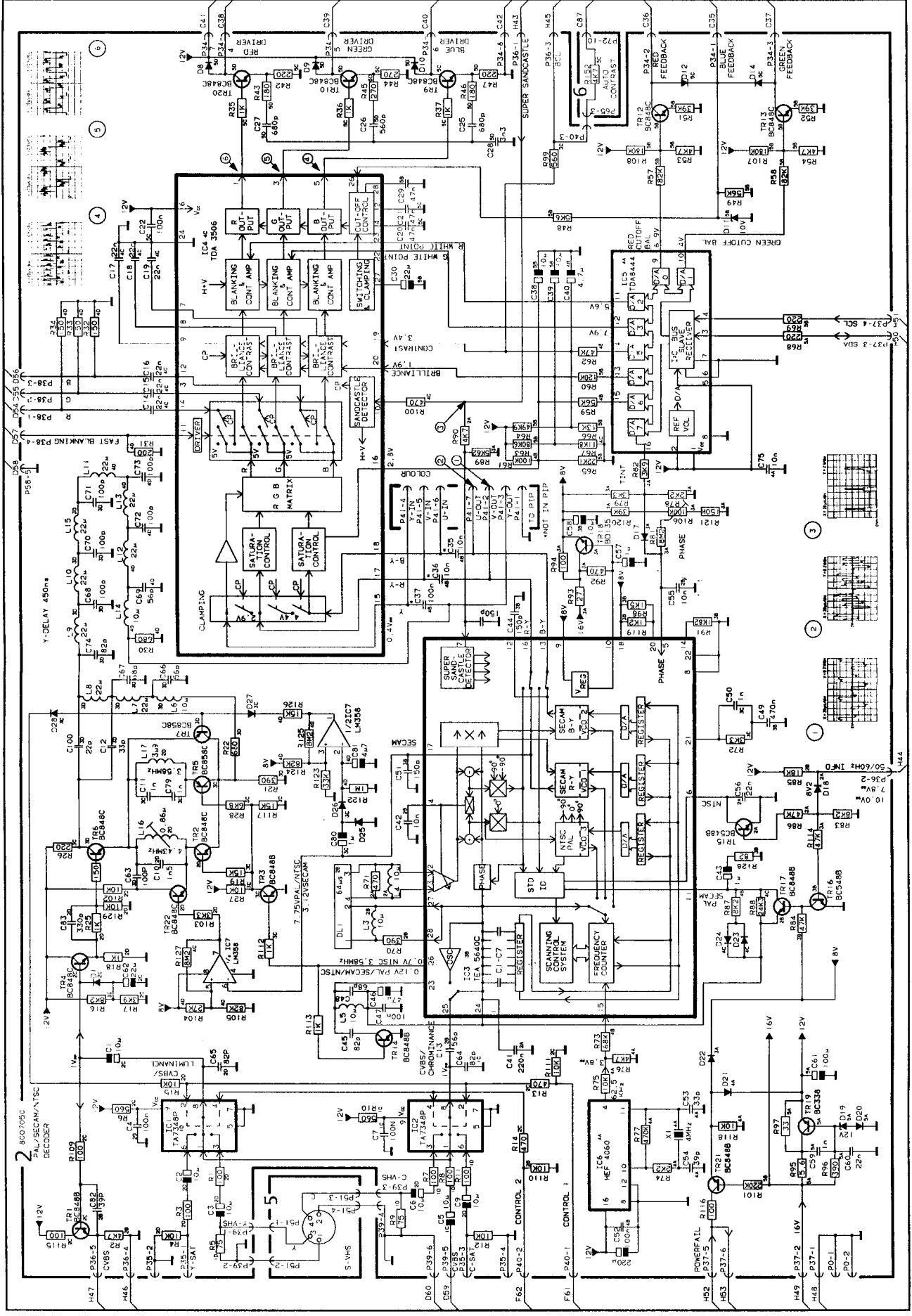
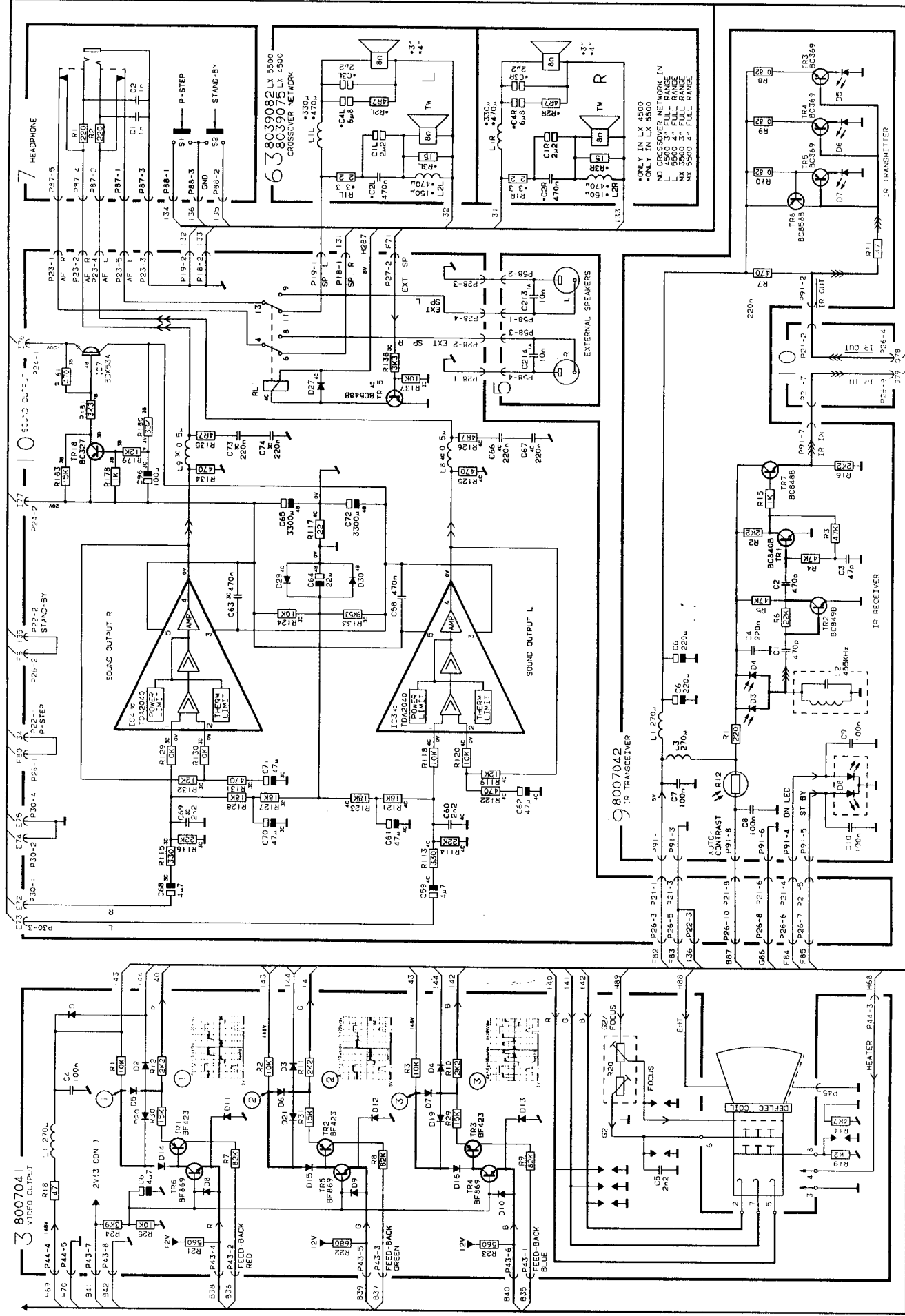


DIAGRAM C VIDEO OUTPUT, SOUND OUTPUT, IR TRANSEIVER, HEADPHONE, CROSSOVER NETWORK



SWITCHING

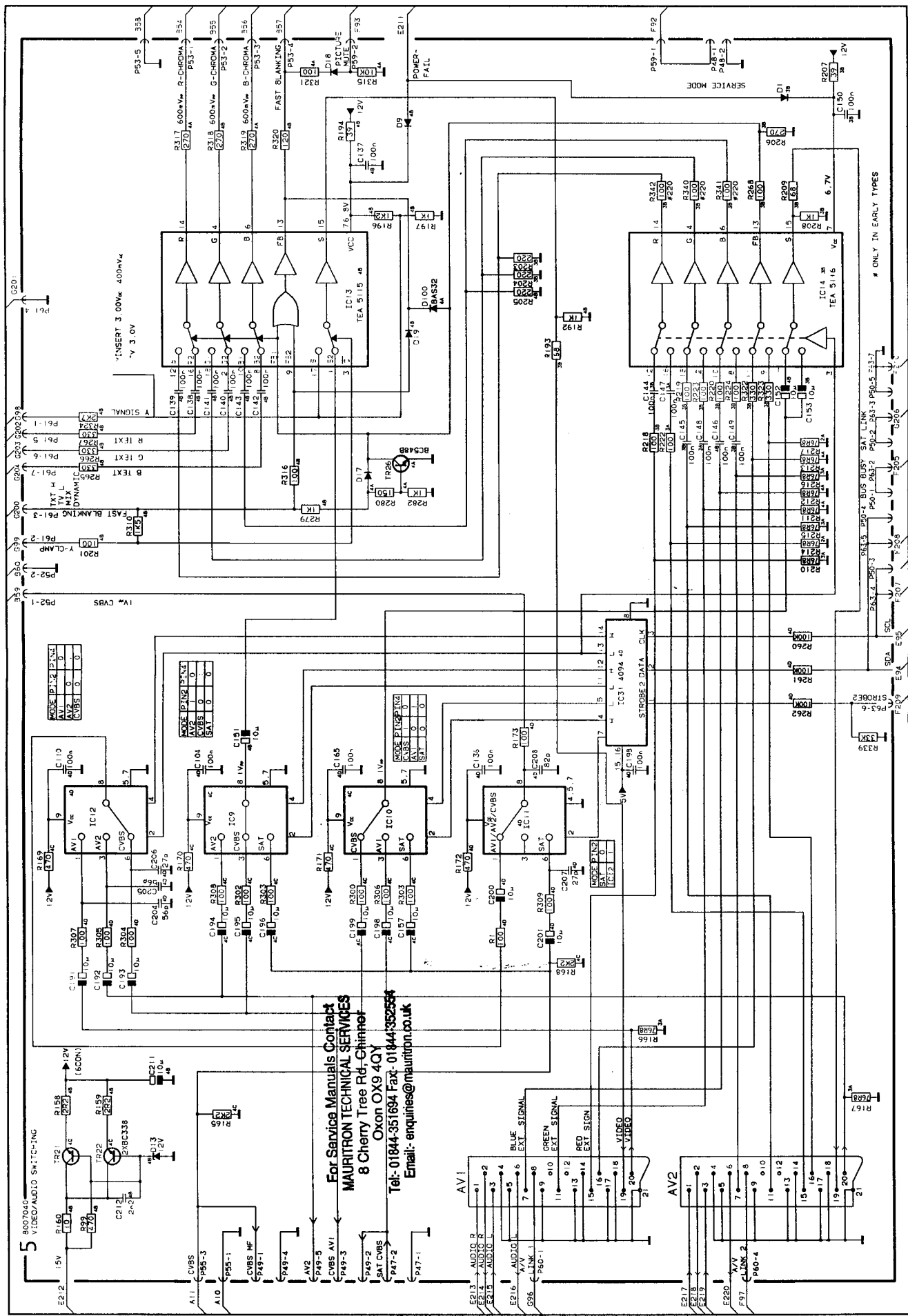
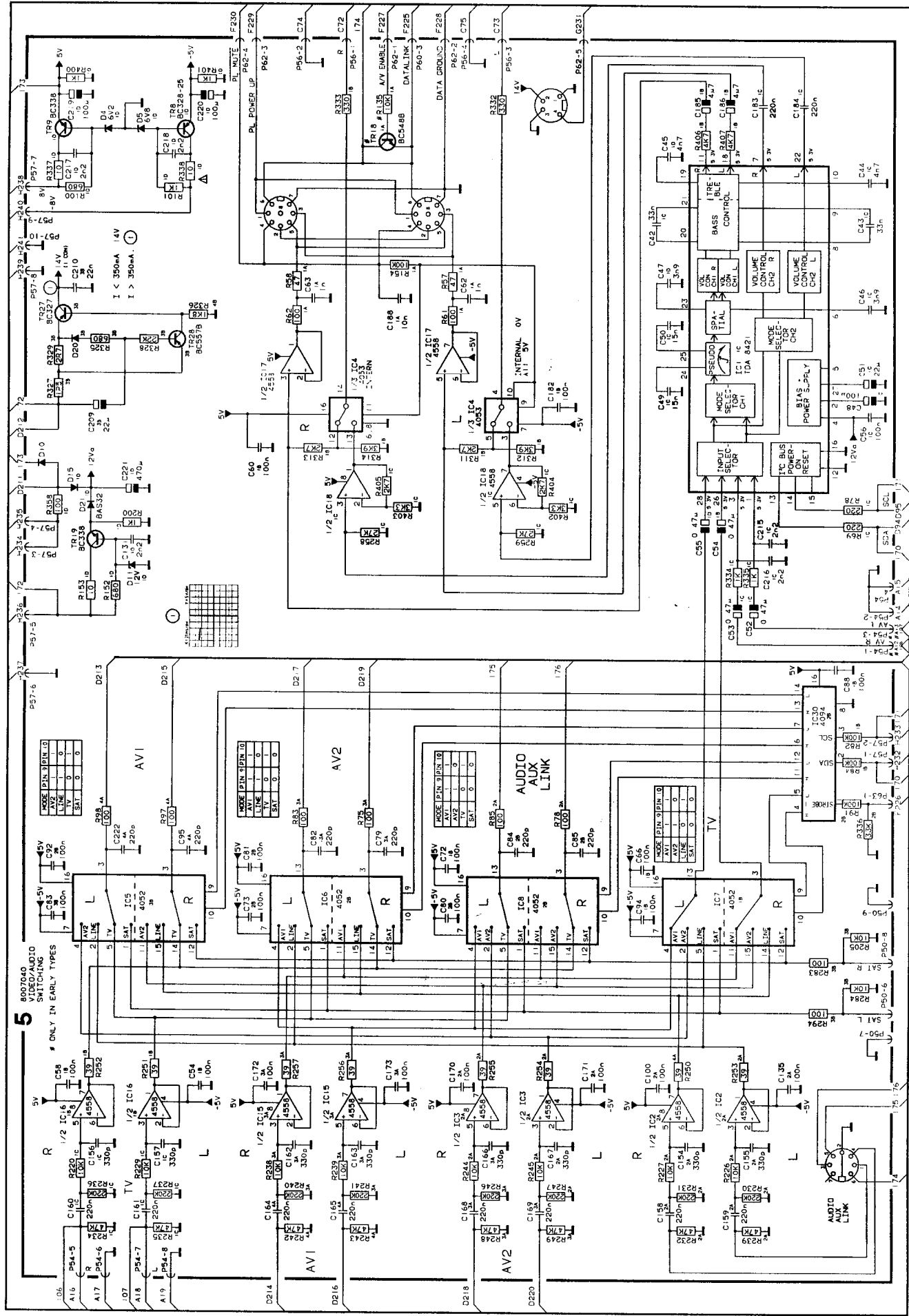


DIAGRAM E SOUND SWITCHING



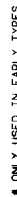
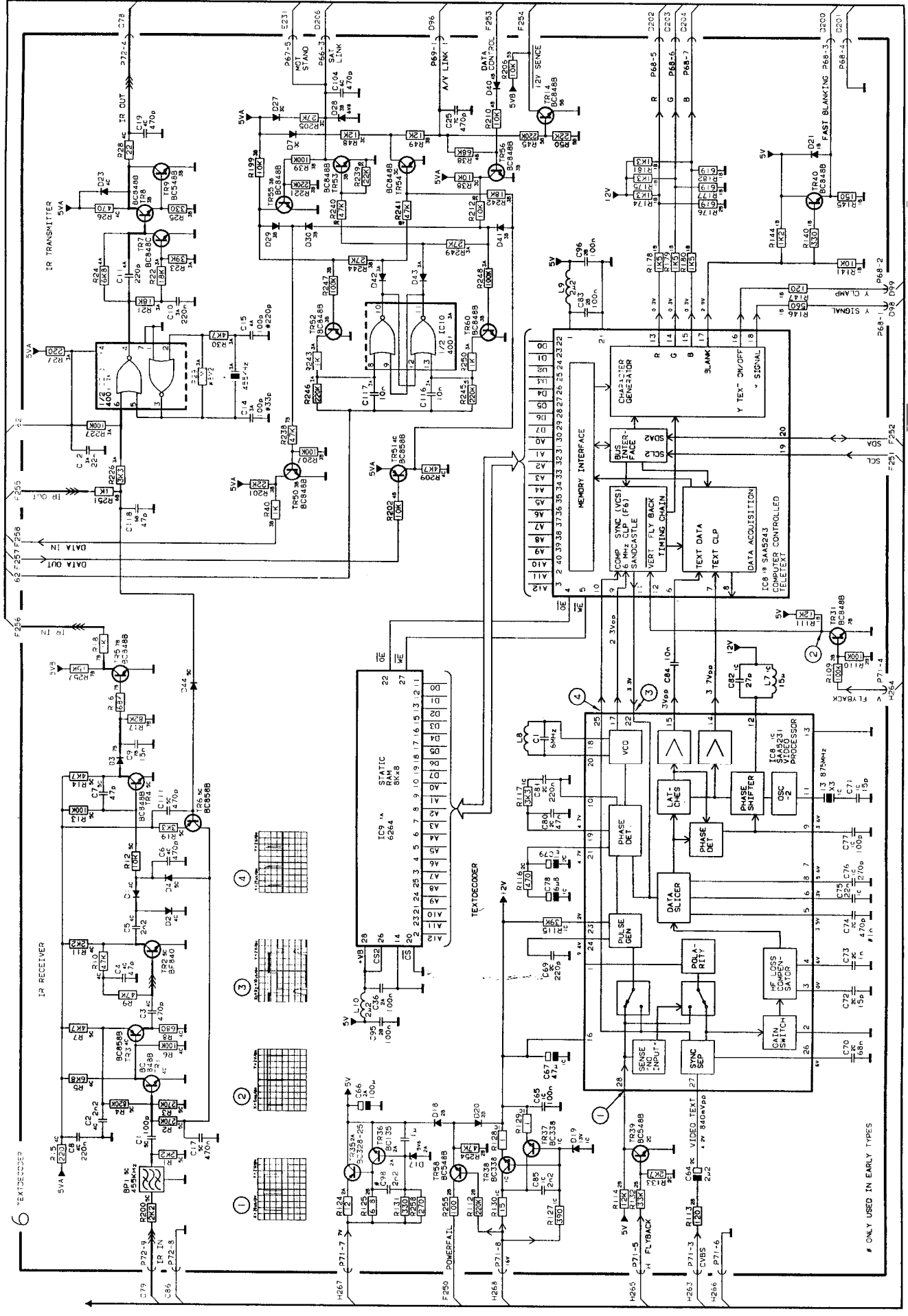


DIAGRAM G TEXTDECODER, IR RECEIVER, IR TRANSMITTER



ONLY USED IN EARLY TYPES

DIAGRAM H DEFLECTION AND STILL DISPLAY

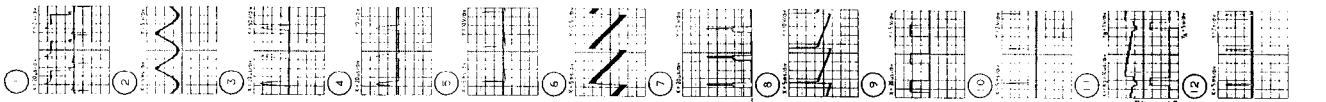
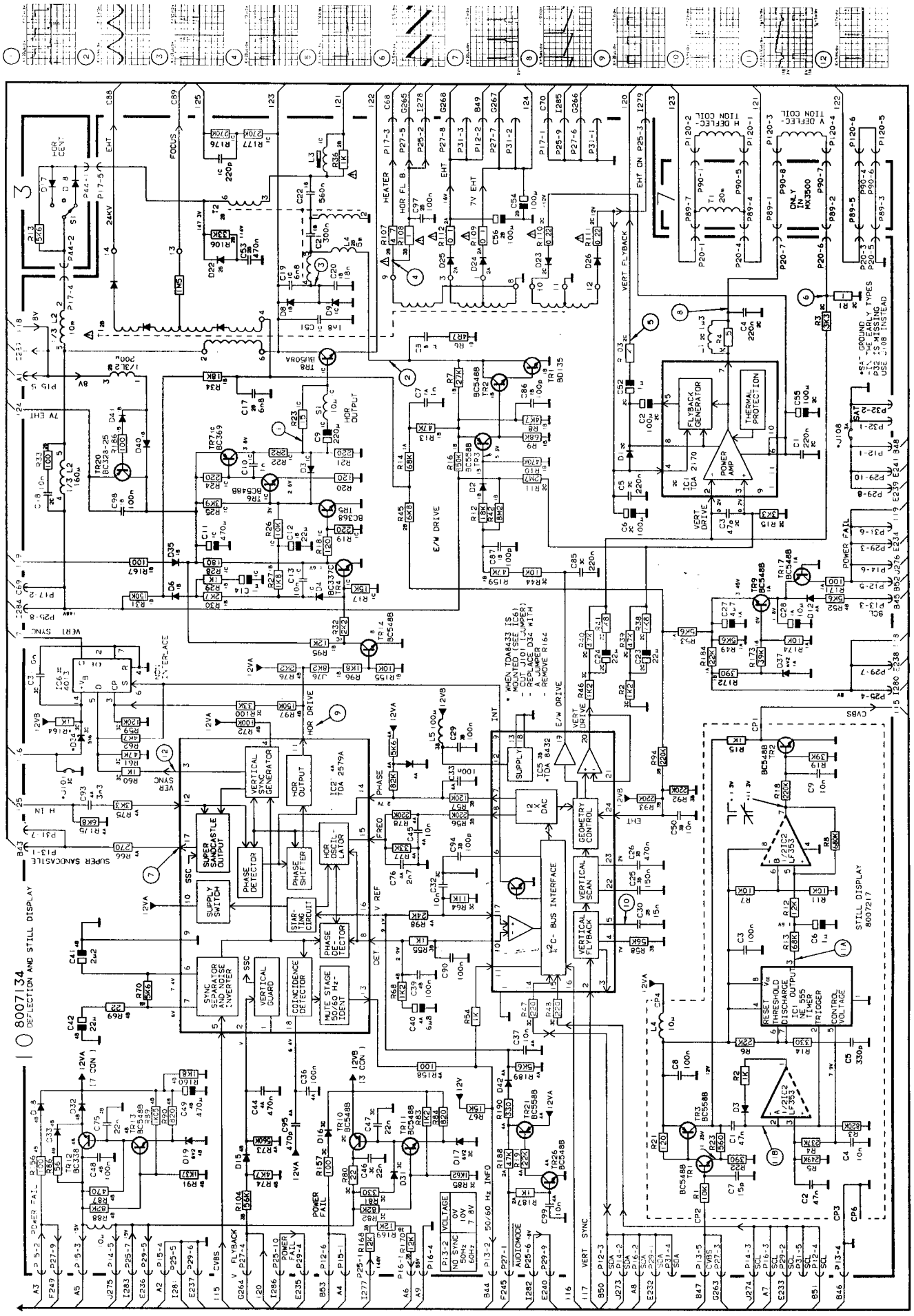
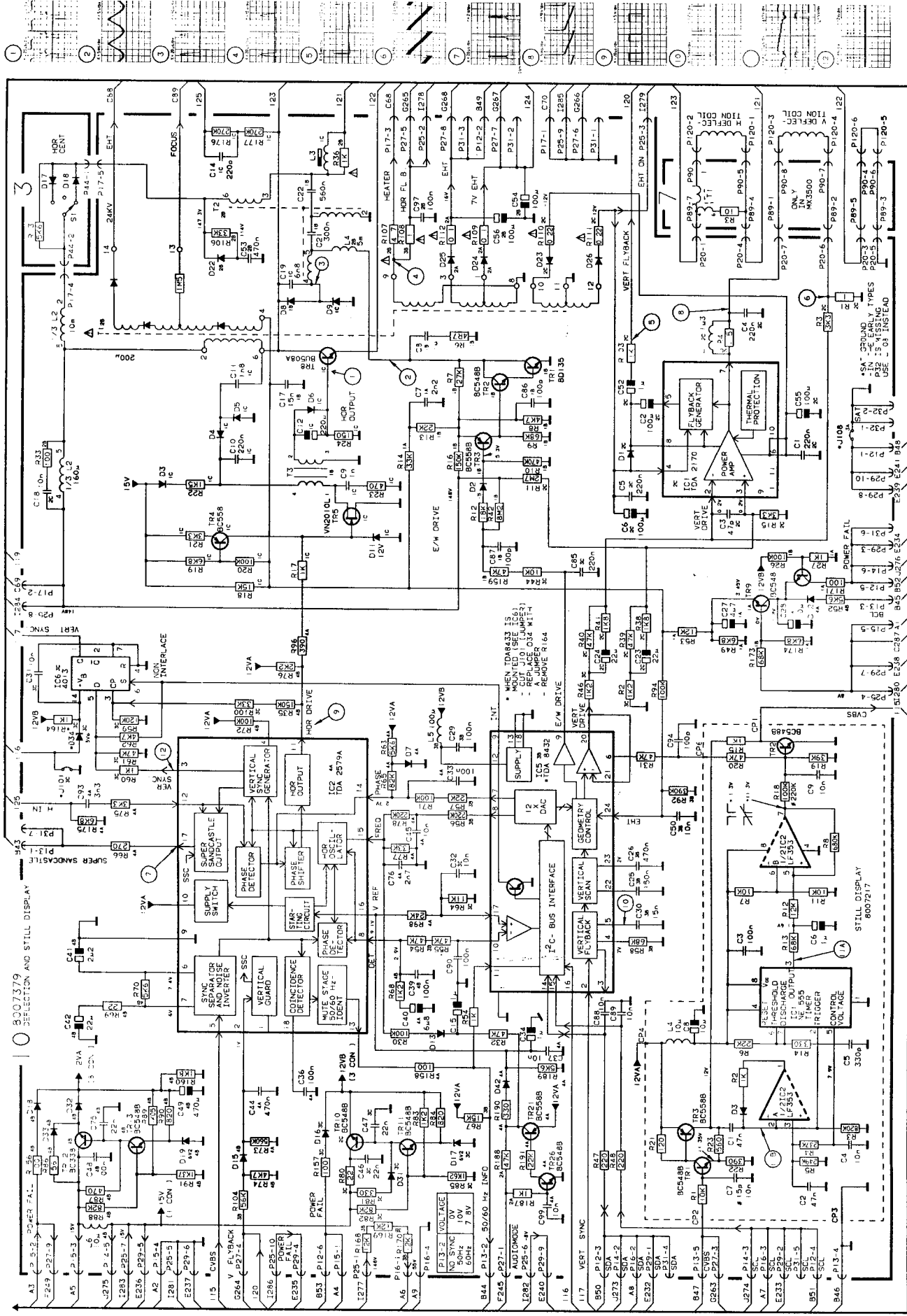


DIAGRAM H DEFLECTION AND STILL DISPLAY, PCB E VERSION



4 800 703 4

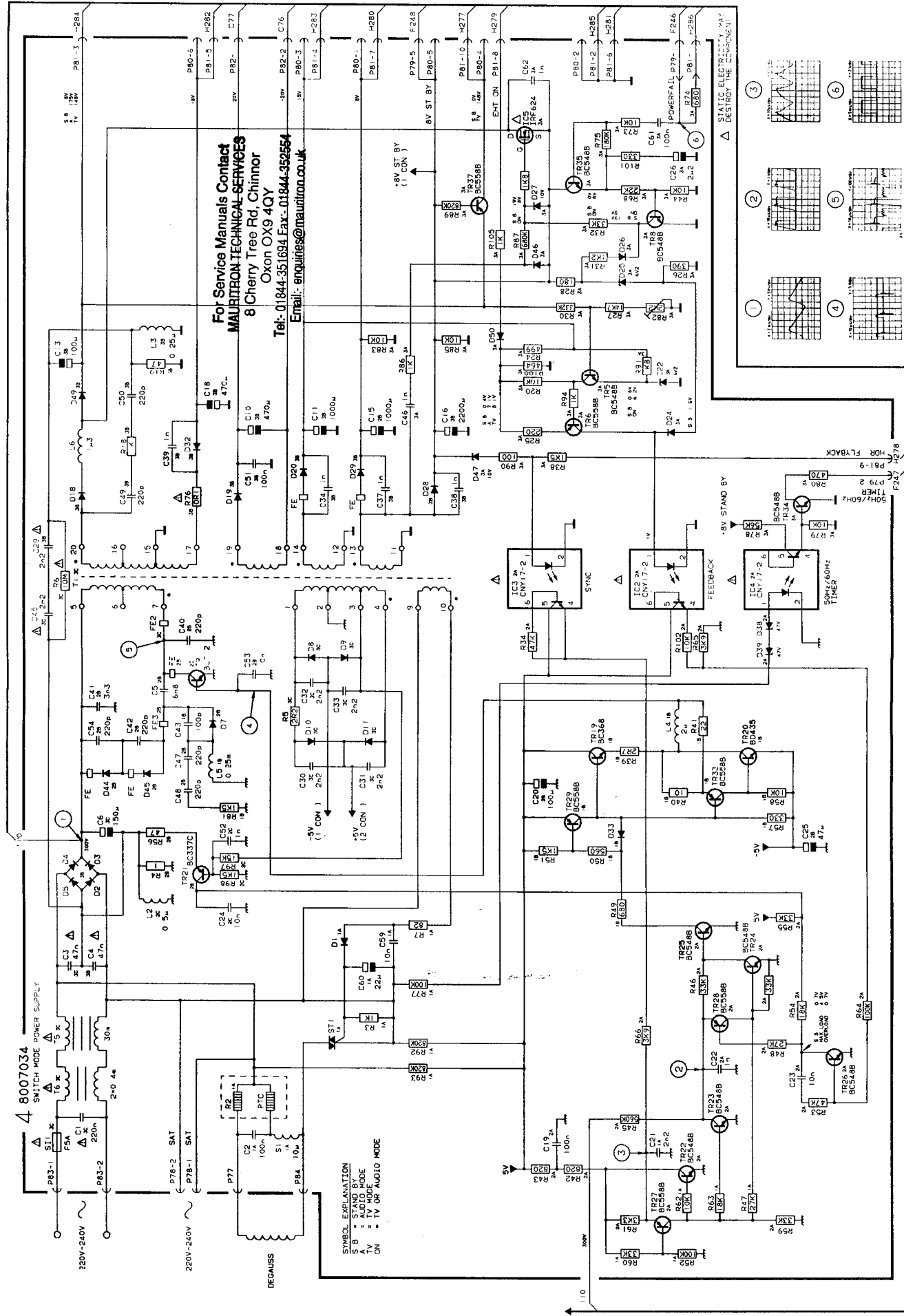
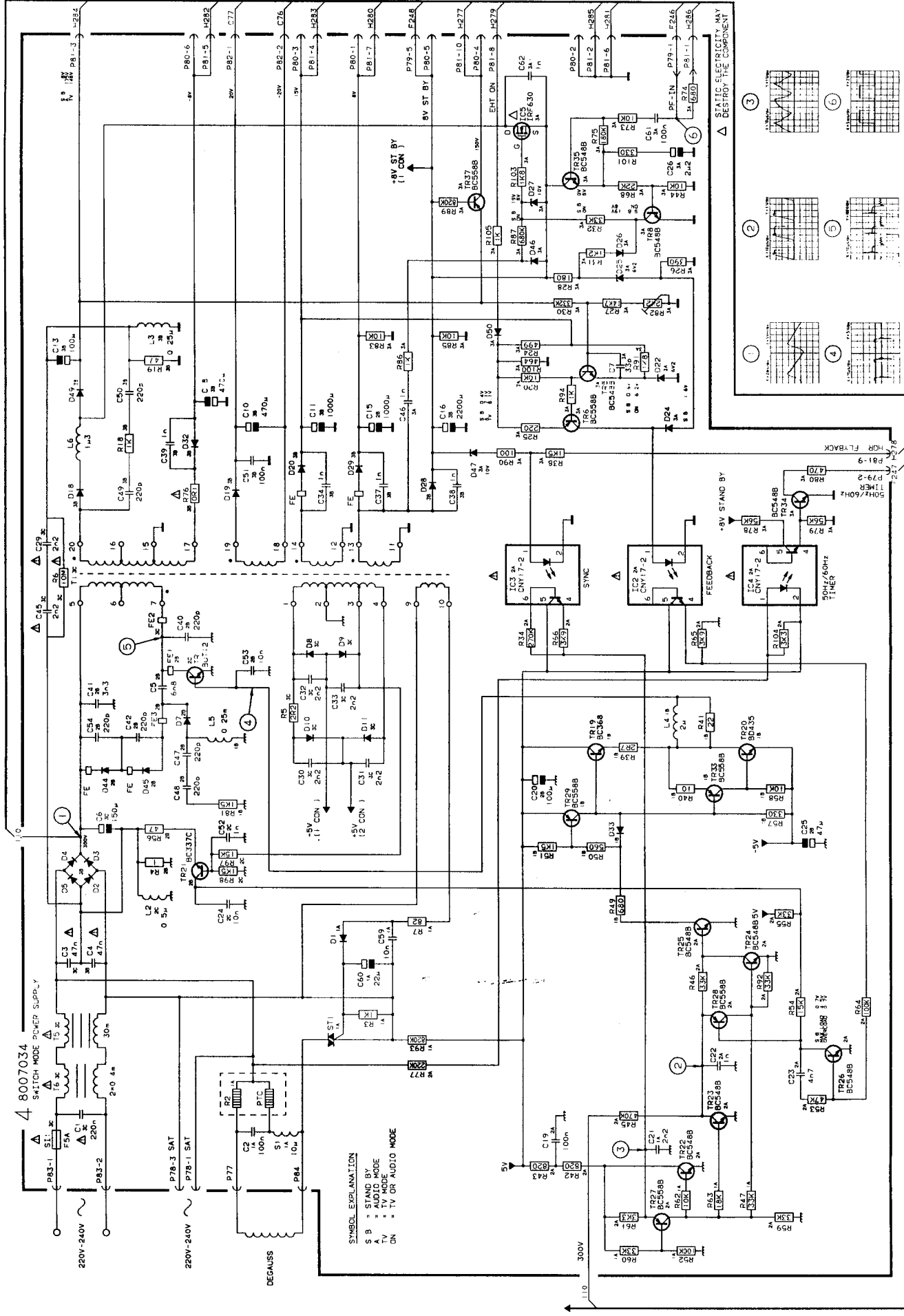
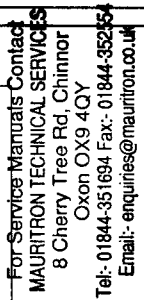
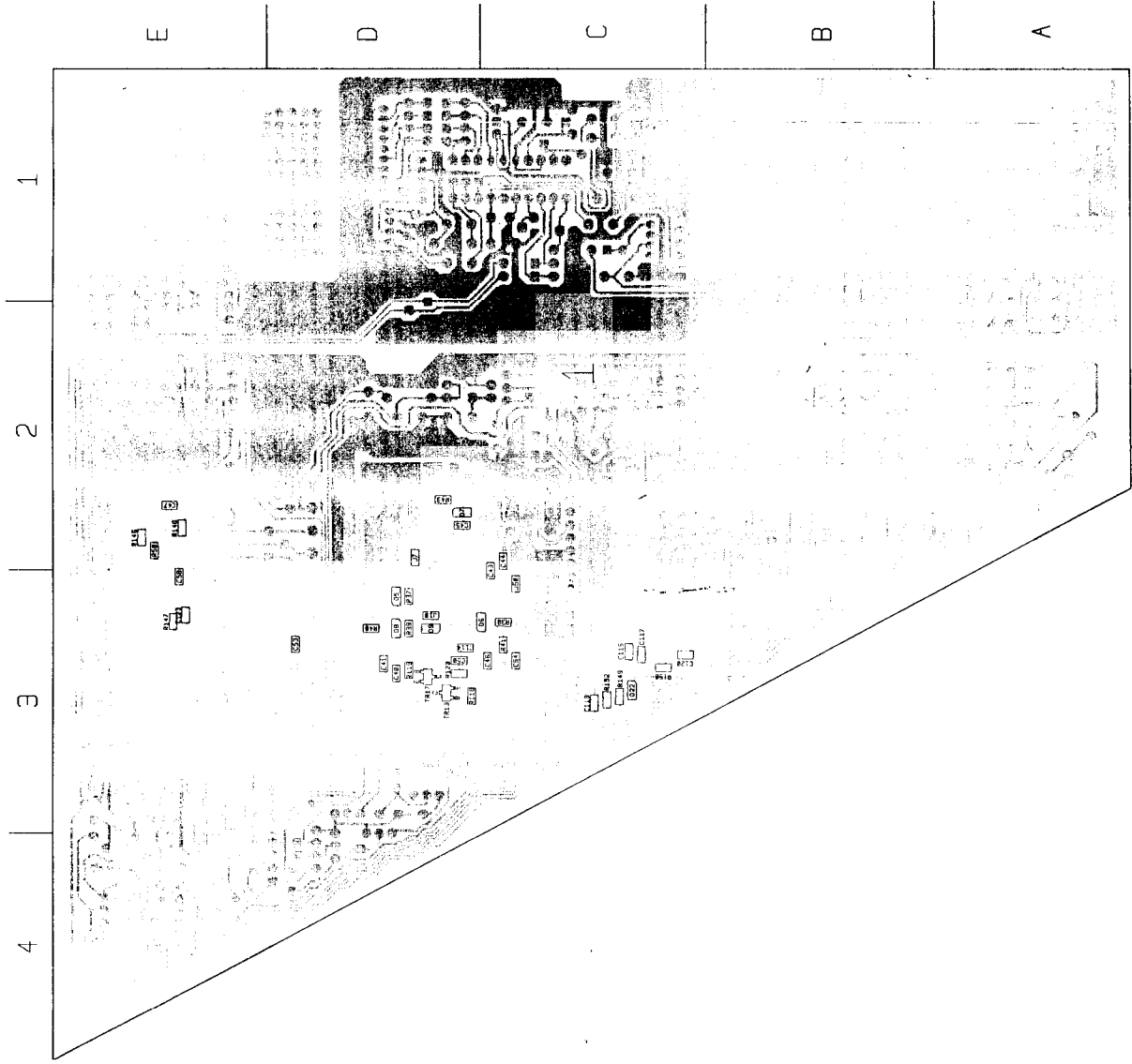


DIAGRAM 1 SWITCH MODE POWER SUPPLY, PCB G VERSION

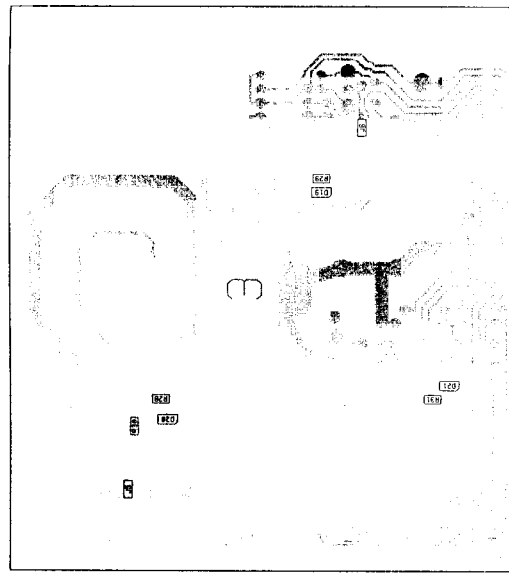




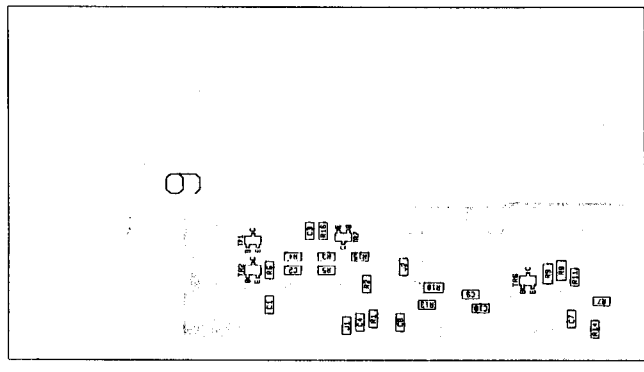
PCB1 TUNER AND IF SYSTEM



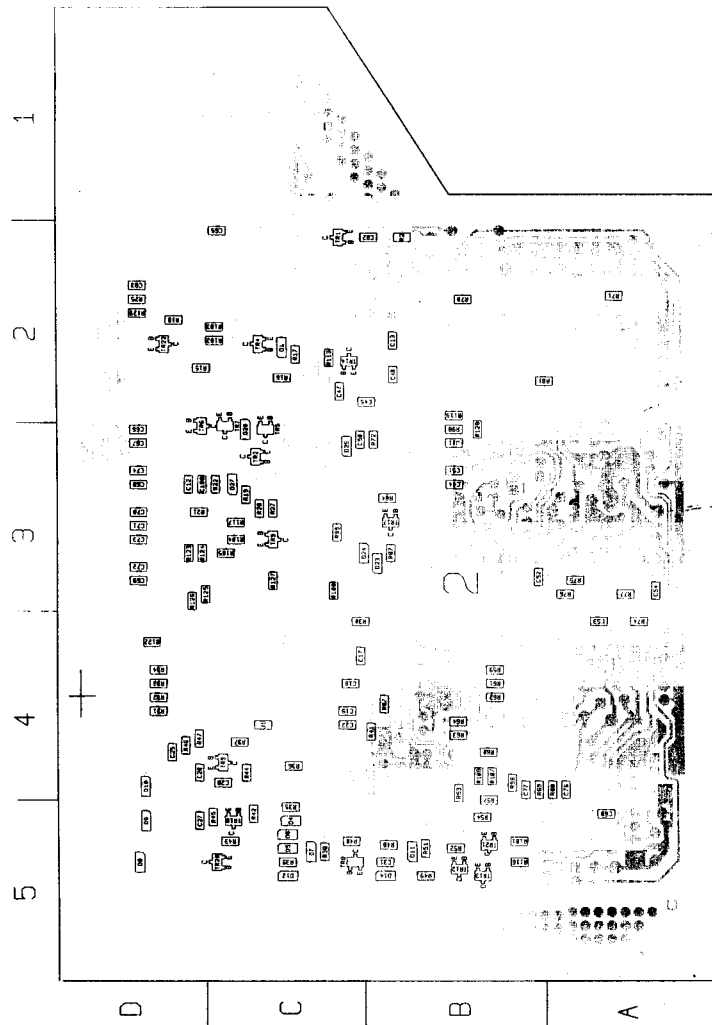
PCB3 VIDEO OUTPUT



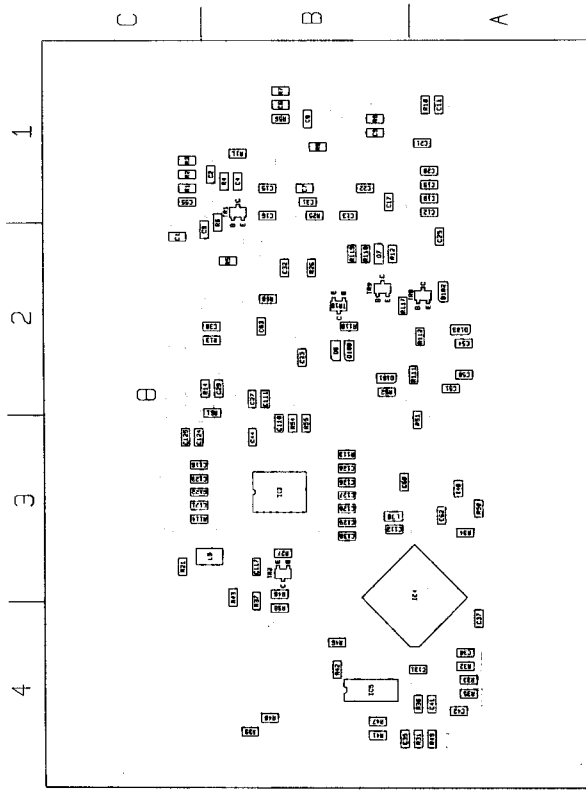
PCB9 IR TRANSCEIVER



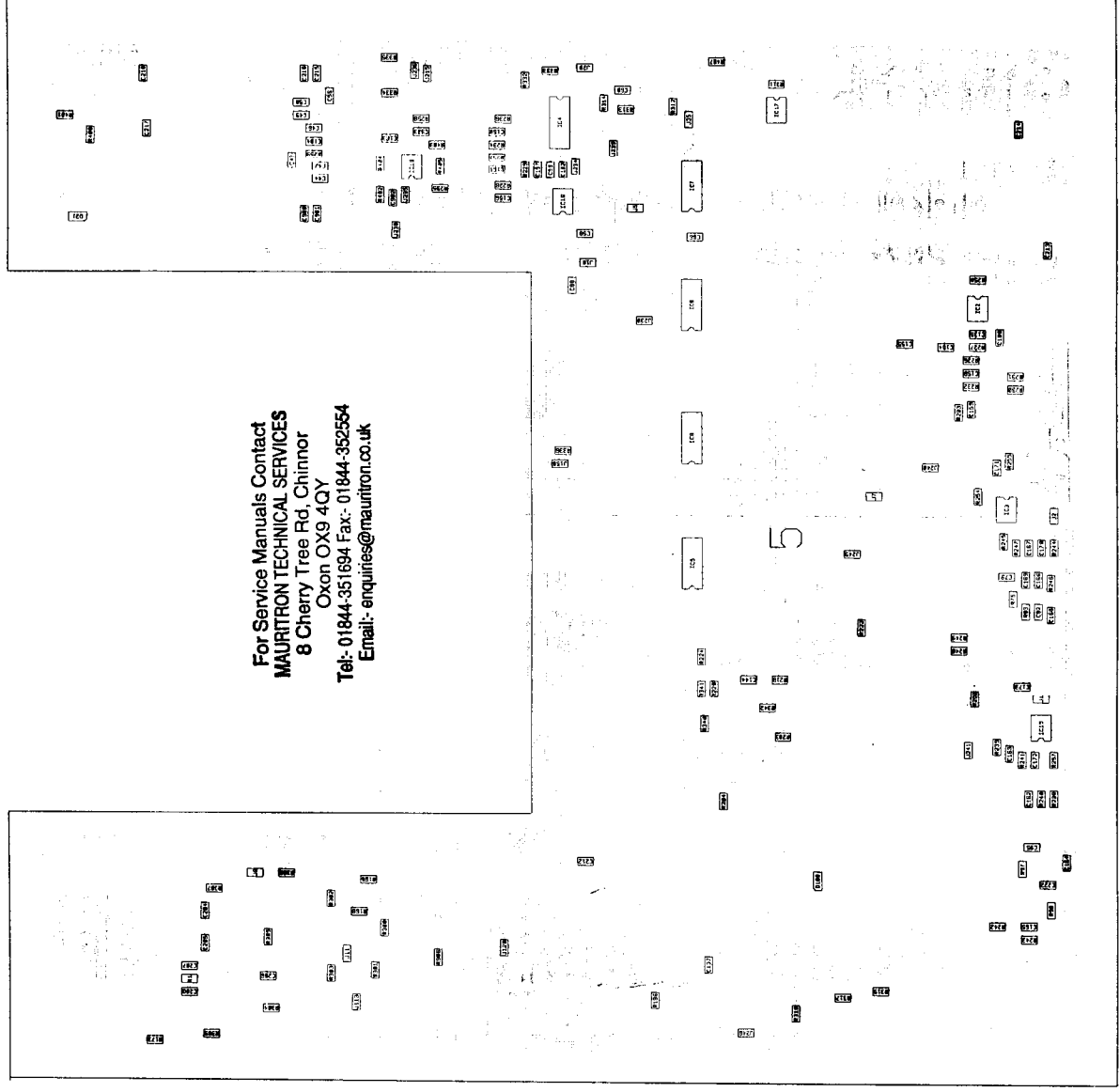
PCB2 PAL/SECAM/NTSC DECODER

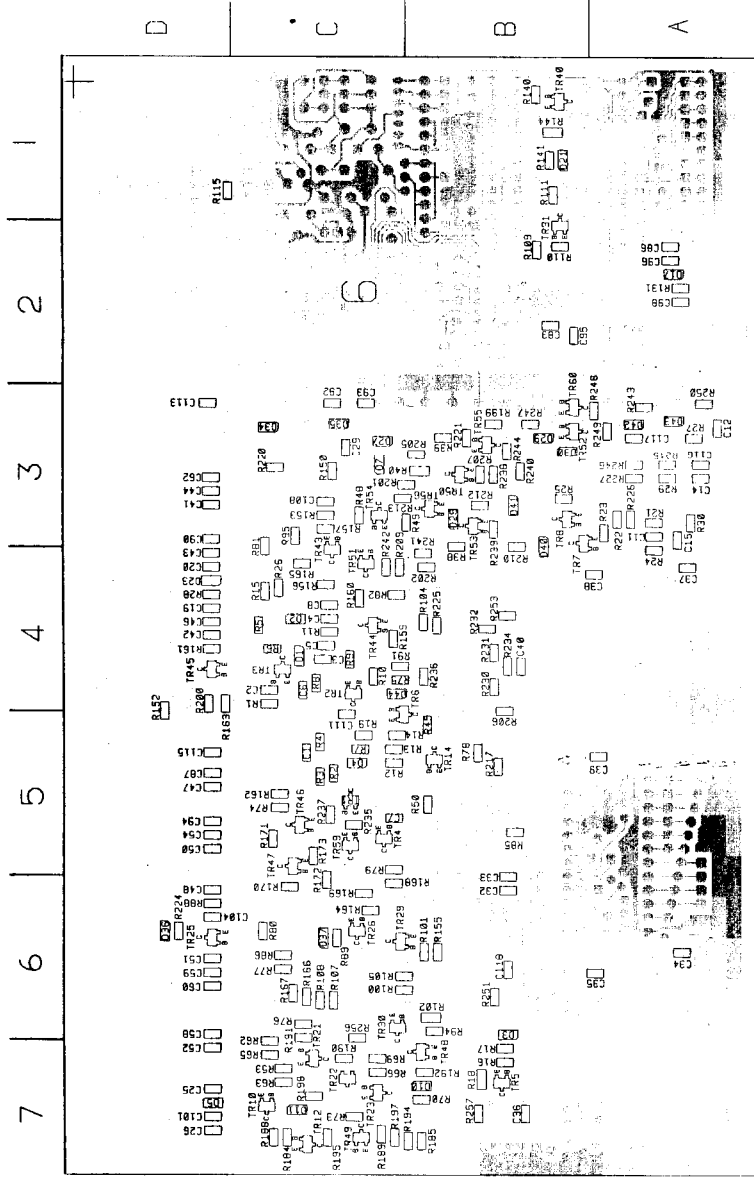


PCB8 NICAM

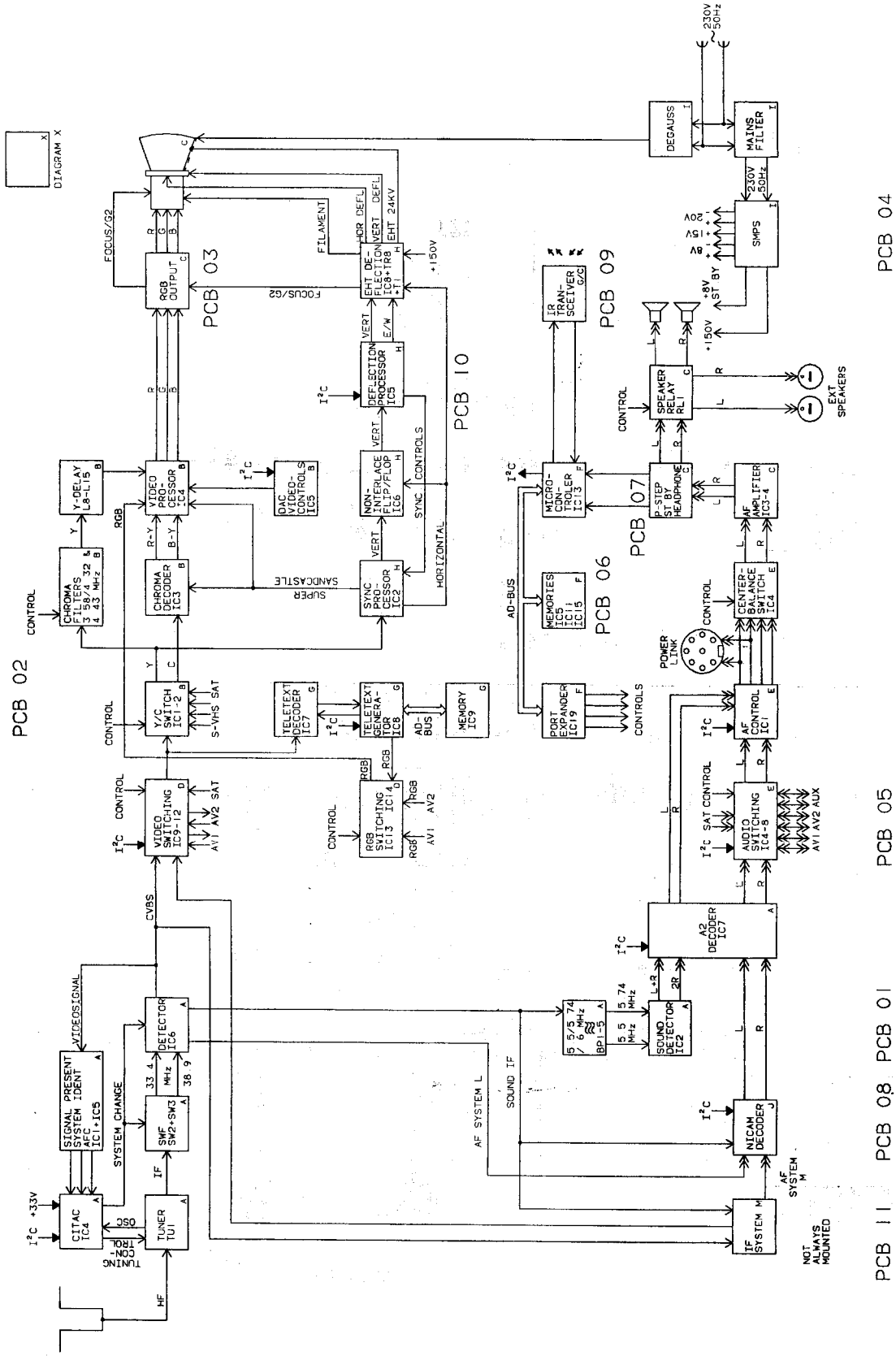


For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel:- 01844-351694 Fax:- 01844-352554
 Email:- enquiries@mauritron.co.uk





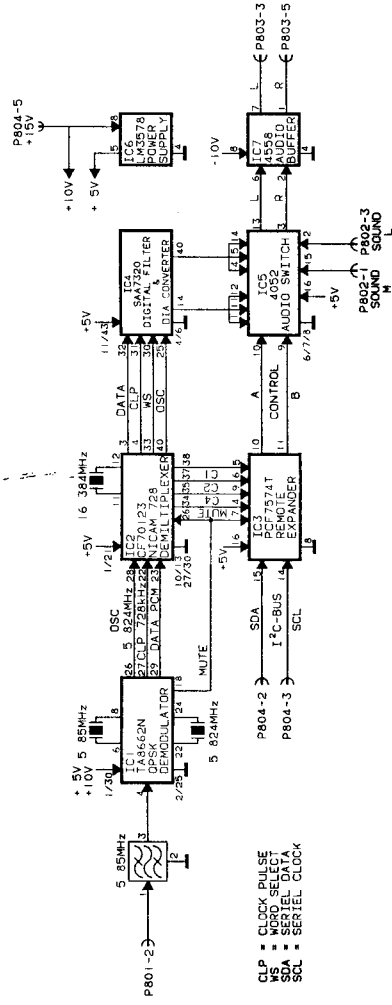
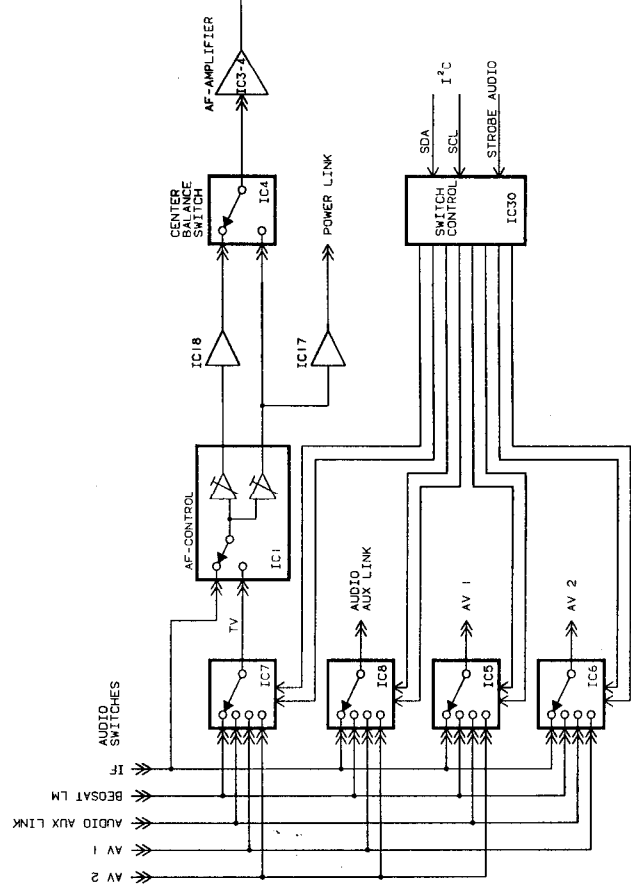
For Service Manuals Contact
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 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351894 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk



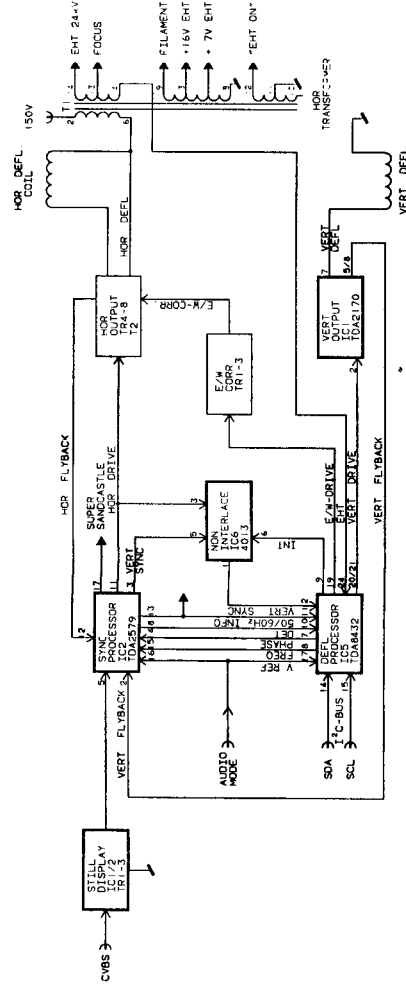
PCB 11 PCB 08 PCB 01

PCB 05

PCB 04

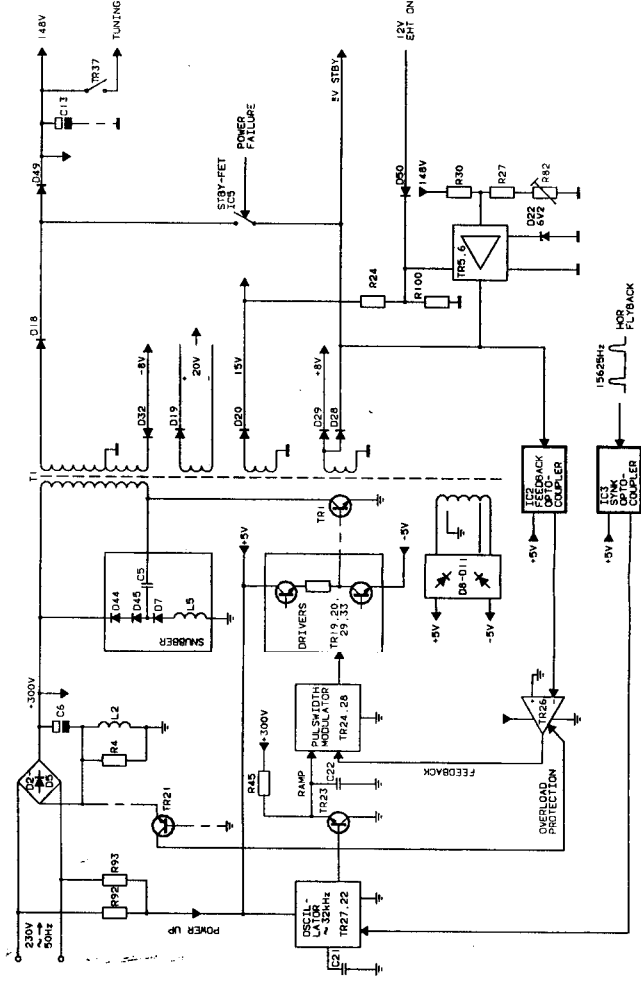


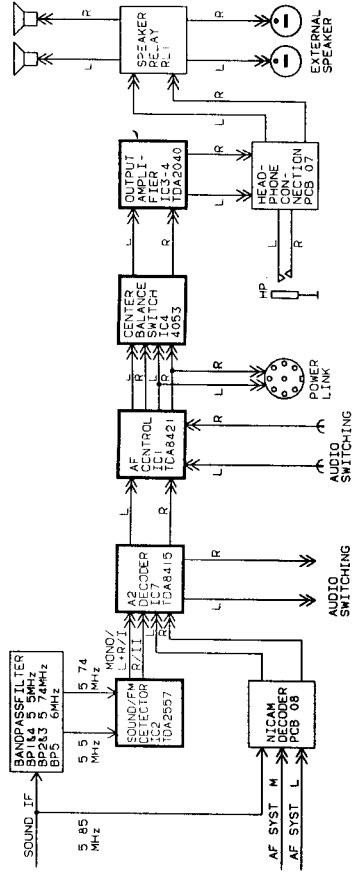
CLP - CLOCK PULSE
WS - WORD SELECT
SDA - SERIAL DATA
SCL - SERIAL CLOCK



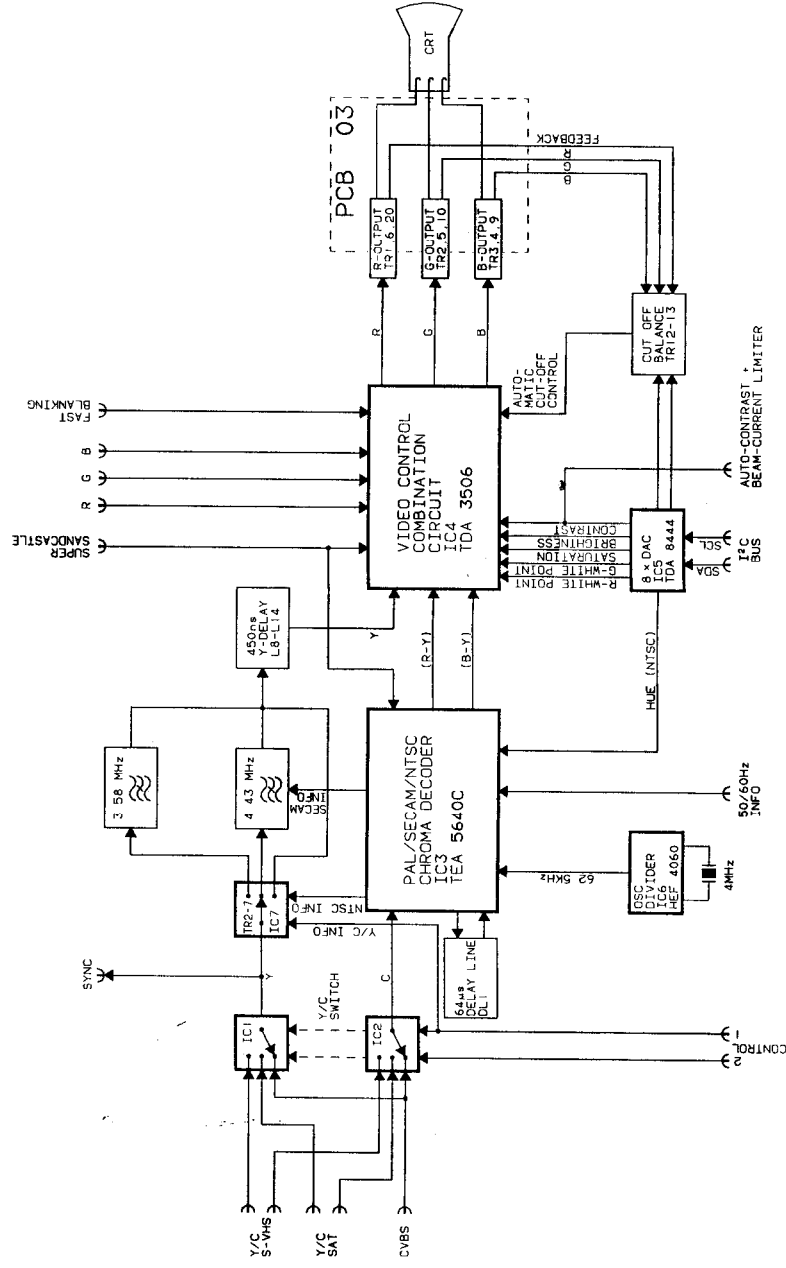
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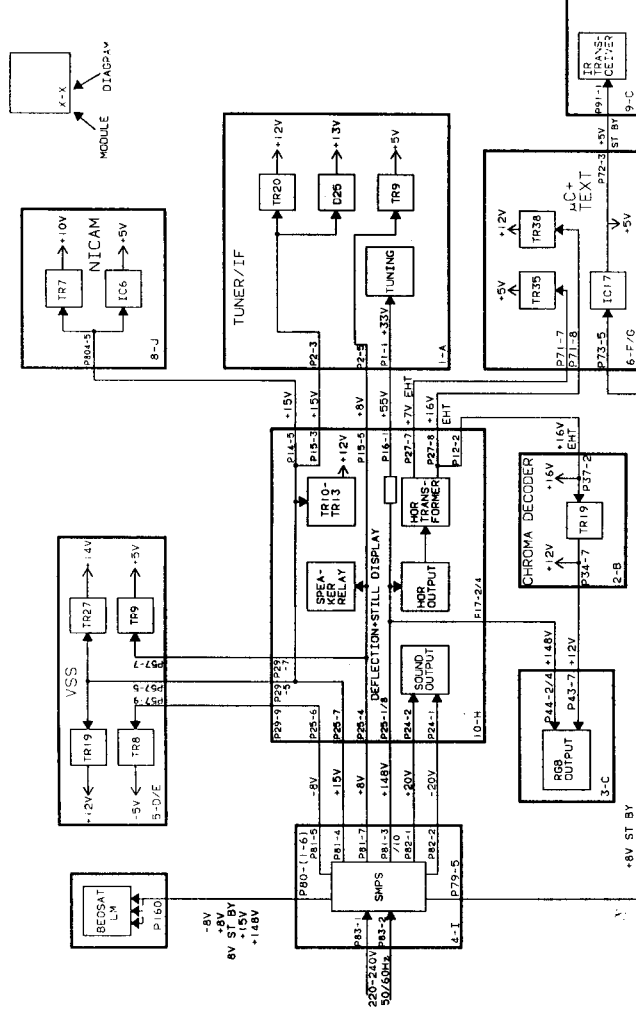
**PCB4
 SWITCH MODE
 POWER SUPPLY**



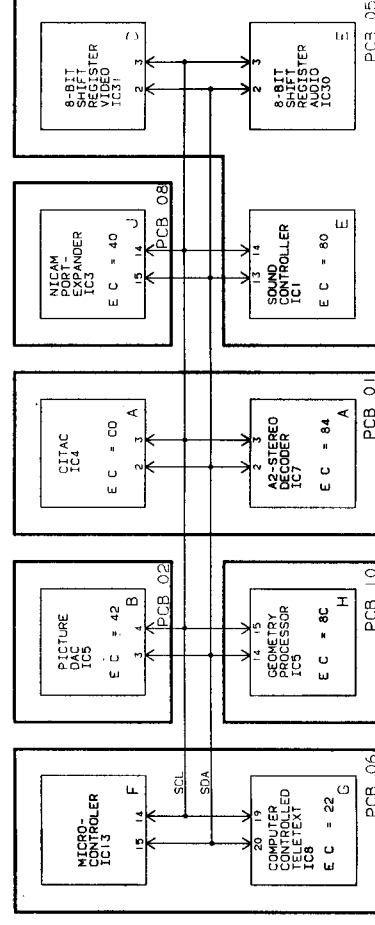


PCB2 PAL/SECAM/NTSC DECODER





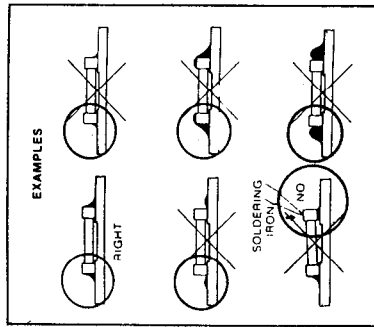
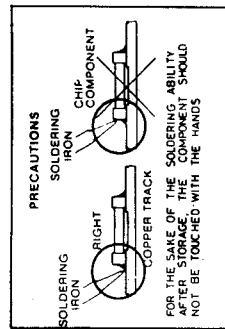
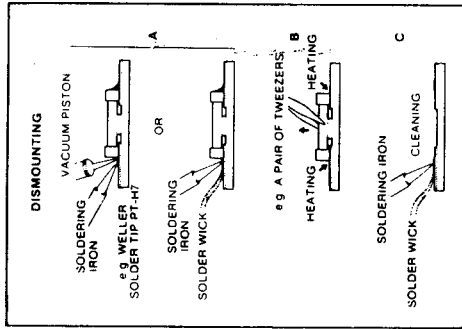
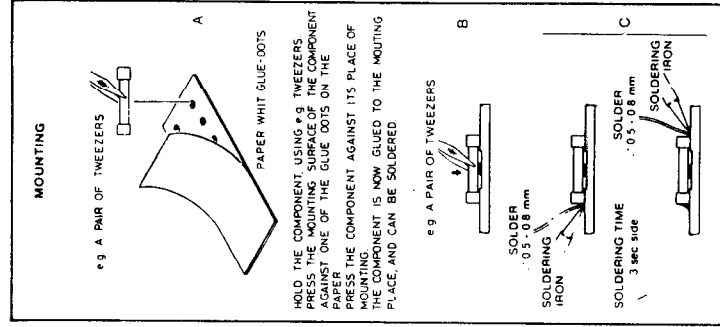
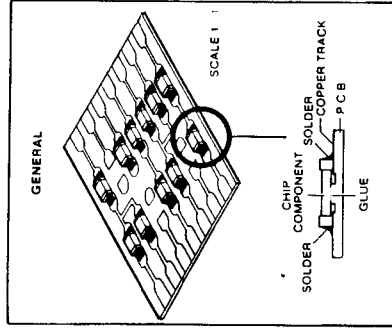
SYSTEM CONTROL



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

LIST OF ELECTRICAL PARTS

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



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

PCB 01, 8007052
Tuner and IF, I

* Only in I version

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

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

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

Δ indicates that static electricity may destroy the component.

| | | | | | | | |
|-------|---------|--------|--------------|-------|---------|--------|-------------|
| IC1 | 8341311 | 103 | NE567 PLL | IC5 | 8341142 | 134 | TDA8124 |
| IC2 | 8340940 | 111 | TDA2557 | IC6 | 8341137 | 113 | TDA8120 |
| IC4 | 8341002 | 136 | SAB3037 | IC7 | 8341291 | 134 | TDA8415 |
| TR1 | 8320510 | 20 | BC558B | TR16 | 8320616 | 51 | BC588B |
| TR6- | 8320509 | 20 | BC548B | TR17 | 8320509 | 20 | BC548B |
| TR8- | 8320512 | 20 | BC338-25 | TR18- | 8320509 | 20 | BC548B |
| TR9 | 8320510 | 20 | BC558B | TR19 | 8320840 | 32 | BD436 |
| TR12 | 8320510 | 20 | BC558B | TR20 | 8320509 | 20 | BC548B |
| TR13 | 8320615 | 51 | BC548B | TR21- | | | |
| TR14- | 8320509 | 20 | BC548B | TR22 | | | |
| D5- | 8300635 | 250 | BA683 | D23 | 8300596 | 209 | 6.2V 2% |
| D9 | | | | D24 | 8300023 | 209 | 1N4002 100V |
| D14- | 8300058 | 209 | 1N4148 | D25- | 8300058 | 209 | 1N4148 |
| D15 | | | | D28 | | | |
| D17 | 8300296 | 209 | 5.6V 2% 0.4W | D29 | 8300321 | 209 | 33V 5% 0.1W |
| D21 | 8300128 | 209 | 5.6V 5% 0.4W | D30 | 8300596 | 209 | 6.2V 2% |
| D22 | 8300635 | 250 | BA683 | | | | |
| R17 | 5370326 | 10KΩ | 20% 0.1W | R108 | 5370325 | 2.2KΩ | 20% 0.1W |
| R33 | 5370326 | 10KΩ | 20% 0.1W | R137 | 5370324 | 4.7KΩ | 20% 0.1W |
| R105 | 5370326 | 10KΩ | 20% 0.1W | R155 | 5020093 | 4.64KΩ | 1% 1/4W |
| R106 | 5020093 | 4.64KΩ | 1% 1/4W | R156 | 5020219 | 5.36KΩ | 1% 1/4W |
| R108 | 5370324 | 4.7KΩ | 20% 0.1W | R182 | 5020219 | 5.36KΩ | 1% 1/4W |
| C2 | 4200512 | 1μF | 20% 50V | C59 | 4200509 | 33μF | 20% 25V |
| C3- | 4010101 | 4.7nF | 10% 63V | C61- | 4000227 | 330pF | 5% 63V |
| C4 | | | | C62 | | | |
| C5 | 4200512 | 1μF | 20% 50V | C63- | 4100236 | 1nF | 5% 63V |
| C8- | 4000380 | 2.7pF | 0.25pF 50V | C64 | | | |
| C9 | | | | C65- | 4000167 | 18pF | 5% 63V |
| C30 | 4200515 | 4.7μF | 20% 25V | C66 | | | |
| C31 | 4200628 | 100μF | 20% 16V | C67- | 4100236 | 1nF | 5% 63V |
| C32- | 4200544 | 22μF | 20% 16V | C68 | | | |
| C33 | | | | C69- | 4000167 | 18pF | 5% 63V |
| C35- | 4200512 | 1μF | 20% 50V | C70 | | | |
| C36 | | | | C71- | 4130235 | 47nF | 20% 63V |
| C37 | 4200510 | 10μF | 20% 16V | C72 | | | |
| C38- | 4100235 | 680pF | 5% 63V | C73 | 4010106 | 10nF | -20+80% 40V |
| C39 | | | | C74 | 4010107 | 22nF | -20+80% 40V |
| C40- | 4010132 | 1nF | 10% 50V | C75 | 4010106 | 10nF | -20+80% 40V |
| C41 | | | | C76 | 4010107 | 22nF | -20+80% 40V |
| C43- | 4000274 | 12pF | 5% 50V | C78 | 4200525 | 22μF | 20% 10V |
| C44 | | | | C85 | 4200512 | 1μF | 20% 50V |
| C45- | 4010132 | 1nF | 10% 50V | C86 | 4100243 | 8.2nF | 5% 63V |
| C46 | | | | C91 | 4130347 | 5.6nF | 10% 63V |
| C47 | 4010166 | 100nF | -20+80% 50V | C92 | 4130230 | 100nF | 20% 63V |
| C48 | 4130136 | 1μF | 20% 100V | C93 | 4130311 | 680nF | 10% 63V |
| C49 | 4130313 | 470nF | 20% 63V | C94 | 4130313 | 470nF | 20% 63V |
| C50 | 4010132 | 1nF | 10% 50V | C95 | 4130241 | 10nF | 20% 63V |
| C51- | 4000142 | 82pF | 5% 63V | C95 | 4010106 | 10nF | -20+80% 40V |
| C52 | | | | C97 | 4200510 | 10μF | 20% 16V |
| C53 | 4010209 | 47nF | 10% 50V | C98 | 4010106 | 10nF | -20+80% 40V |
| C54 | 4010132 | 1nF | 10% 50V | C100 | 4130255 | 22nF | 5% 63V |
| C56 | 4010103 | 22nF | 10% 63V | C101 | 4130257 | 33nF | 20% 63V |
| C58 | 4000239 | 33pF | 5% 50V | C102 | 4200517 | 2.2μF | 20% 50V |

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

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

FE1- 6000030 Standard Wire
FE4

TU1 8050117 Tuner UV

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

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

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

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

PCB 02, 8007050
PAL/SECAM/NTSC Decoder

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

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

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

| 17 | 20 | 32 | 36 | 136 | 209 | 212 | 214 |
|-----|----|----|----|-----|-----|-----|-----|
| | | | | | | | |
| 221 | | | | | | | |
| | | | | | | | |

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

Δ indicates that static electricity may destroy the component.

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

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

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

DL1 6240012 Delay line 64μS

X1 8090000 Crystal 4,000 MHz

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

PCB 03, 8007041

Video Output

| | | | | | | | |
|-------------------|---------|---------------------|-------------|-------------------|---------|--------------|---------|
| TR1-
TR3 | 8320623 | 17 | BF423 | TR4-
TR6 | 8320440 | 36 | BF869 |
| D1-
D4 | 8300409 | 214 | BAV20 | D5-
D18 | 8300058 | 209 | 1N4148 |
| R1-
R3
R10- | 5021172 | 10kΩ | 5% 1W | R12
R19
R20 | 5011897 | 1,2kΩ | 5% 1/3W |
| | 5000055 | 2,2kΩ | 10% 1/2W | | 5390004 | potm. | Focus |
| C4
C5 | 4130103 | 100nF | 20% 250V | C6 | 4200515 | 4,7μF | 20% 25V |
| | 4010211 | 2,2nF | +100-0% 2KV | | | | |
| L1 | 8020590 | Coil | 270μH 10% | | | | |
| S1 | 7400038 | Switch | 2 pol | | | | |
| P1
P43 | 7200062 | Socket picture tube | | P44
P45 | 7220427 | Plug 5/5 pol | |
| | 7220715 | Plug 8 pol | | | 7500152 | Contact pin | |

PCB 04, 8007034

Switch mode power supply

| | | | | | | | |
|-------------|---------|----------|--------------|-------|---------|-------|--------------|
| IC2-
IC4 | 8330234 | 136 | CNY17-2ZW | IC5Δ | 8320853 | | IRF624 100V |
| TR1 | 8320850 | 35 | BUT12F | TR26 | | | |
| TR5 | 8320509 | 20 | BC548B | TR27- | 8320510 | 20 | BC558B |
| TR6 | 8320510 | 20 | BC558B | TR29 | | | |
| TR8 | 8320509 | 20 | BC548B | TR33 | 8320510 | 20 | BC558B |
| TR19 | 8320626 | 17 | BC368 | TR34- | 8320509 | 20 | BC548B |
| TR20 | 8320796 | 32 | BD435 | TR35 | | | |
| TR21 | 8320595 | 20 | BC337-40 | TR37 | 8320104 | 20 | BC558B |
| TR22- | 8320509 | 20 | BC548B | | | | |
| D1 | 8300058 | 209 | 1N4148 | D28 | 8300671 | 209 | RGP10B 100V |
| D2- | 8300302 | 212 | 1N5407 | D29 | 8300672 | | FES8BT 100V |
| D5 | | | | D32 | 8300671 | 209 | RGP10B 100V |
| D7 | 8300670 | 221 | BYV26D | D33- | 8300058 | 209 | 1N4148 |
| D8- | 8300671 | 209 | RGP10B | D34 | | | |
| D11 | | | | D38- | 8300314 | 209 | 47V 5% 0,4W |
| D18 | 8300345 | 221 | BYW36, | D39 | | | |
| | | | BYV95C | D44- | 8300675 | 221 | BYV26B |
| D19 | 8300388 | 209 | 200V | D45 | | | |
| D22 | 8300596 | 209 | 6,2V 2% | D46 | 8300058 | 209 | 1N4148 |
| D24 | 8300058 | 209 | 1N4148 | D47 | 8300310 | 209 | 10V 5% 0,4W |
| D25 | 8300201 | 209 | 6,2V 5% 0,4W | D49 | 8300428 | 209 | 1N4007 1000V |
| D26 | 8300058 | 209 | 1N4148 | D50 | 8300058 | 209 | 1N4148 |
| D27 | 8300310 | 209 | 10V 5% 0,4W | | | | |
| R2 | 5230009 | 40+1000Ω | 265V | R76 | 5020714 | 0,1Ω | 10% 0,4W |
| R24 | 5020367 | 499Ω | 1% 1/4W | R81 | 5020837 | 1,5kΩ | 5% 1W |
| R27 | 5020234 | 14,7kΩ | 1% 1/4W | R82 | 5370402 | 2,2kΩ | 30% |
| R30 | 5020851 | 332kΩ | 1% 1/4W | R100 | 5020183 | 464Ω | 1% 1/4W |
| R39 | 5021160 | 2,7Ω | 5% 1W | | | | |

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 Email:- enquiries@mauritron.co.uk

| 20 | 101 | 103 | 111 | 125 | 136 | 139 | 209 |
|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | | |
| 217 | | | | | | | |
| | | | | | | | |

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

Δ indicates that static electricity may destroy the component.

| | | | | | |
|------|---------|--------------------|------|---------|--------------------|
| C1 | 4130486 | 220nF 10% 250V | C29 | 4010240 | 2,2nF 20% 400V |
| C2 | 4130098 | 100nF 20% 400V | C30- | 4010103 | 2,2nF 10% 63V |
| C3- | 4130169 | 47nF 20% 250V | C33 | | |
| C4 | | | C34 | 4010105 | 1nF 10% 63V |
| C5 | 4130474 | 6,8nF 20% 630V | C37- | 4010105 | 1nF 10% 63V |
| C6 | 4200609 | 150μF 20% 385V | C39 | | |
| C7 | 4000153 | 33p 5% 50V | C40 | 4010230 | 220pF 20% 1KV |
| C10 | 4200610 | 470μF 20% 63V | C41 | 4010228 | 3,3nF -20+50% 400V |
| C11 | 4200612 | 1000μF -20+50% 25V | C42 | 4010104 | 220pF 10% 500V |
| C13 | 4200607 | 100μF 20% 250V | C43 | 4010229 | 100pF 20% 1KV |
| C15 | 4200612 | 1000μF -20+50% 25V | C45 | 4010240 | 2,2nF 20% 400V |
| C16 | 4200392 | 2200μF 20% 16V | C46 | 4010105 | 1nF 10% 63V |
| C18 | 4200600 | 470μF 20% 16V | C47- | 4010104 | 220pF 10% 500V |
| C19 | 4130306 | 100nF 10% 63V | C50 | | |
| C20 | 4200952 | 47μF -20+50% 25V | C51 | 4130306 | 100nF 10% 63V |
| C21 | 4100237 | 2,2nF 5% 63V | C52 | 4010105 | 1nF 10% 63V |
| C22 | 4100236 | 1nF 5% 63V | C53 | 4010106 | 10nF -20+80% 40V |
| C23- | 4010106 | 10nF -20+80% 40V | C54 | 4010104 | 220pF 10% 500V |
| C24 | | | C59 | 4010106 | 10nF -20+80% 40V |
| C25 | 4200952 | 47μF -20+50% 25V | C60 | 4200544 | 22μF 20% 16V |
| C26 | 4200517 | 2,2μF 20% 50V | C61 | 4130230 | 100nF 20% 63V |

| | | | | | |
|----|---------|-------------|----|---------|------------|
| L2 | 6850209 | Coil 0,5μ | L5 | 8024047 | Coil 250μH |
| L3 | 6850210 | Coil 0,25μH | L6 | 6850195 | Coil 1,3μH |
| L4 | 6850208 | Coil 2μH | | | |

| | | | | | |
|-----|---------|----------|-----|---------|----------|
| FE1 | 6710023 | 5x0,7x10 | FE3 | 6710023 | 5x0,7x10 |
| FE2 | 6710022 | 3x0,7x10 | | | |

| | | |
|----|---------|-----------|
| S1 | 8020325 | Coil 10μH |
|----|---------|-----------|

| | | |
|-----|---------|-------------|
| SI1 | 7500223 | Fuse holder |
|-----|---------|-------------|

| | | |
|----|---------|---------|
| ST | 8300320 | T0509μH |
|----|---------|---------|

| | | |
|----|---------|--------------|
| T1 | 8014096 | Trafo switch |
| T5 | 8022320 | Coil |

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 Email:- enquiries@mauratron.co.uk

| | | |
|----|---------|------|
| T6 | 8022295 | Coil |
|----|---------|------|

| | | | | | |
|-----|---------|--------------|-----|---------|----------------|
| P77 | 7500013 | Contact pin | P81 | 7220419 | Plug 10/10 pol |
| P78 | 7220406 | Plug 2/2 pol | P82 | 7220424 | Plug 2/2 pol |
| P79 | 7220713 | Plug 6 pol | P83 | 7220897 | Plug 2/2 pol |
| P80 | 7220415 | Plug 6/6 pol | P84 | 7500013 | Contact pin |

PCB 05, 8007040

Video and sound switching

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

| 20 | 32 | 51 | 102 | 103 | 105 | 124 | 136 |
|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | | |
| 209 | 217 | 224 | 250 | | | | |
| | | | | | | | |

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

□ only used in early types

Δ indicates that static electricity may destroy the component.

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BP1- 7500013 Contact pin
BP3

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

PCB 06, 8007025

Teletext and uP System

PCB 06, 8007384

Teletext and uP System, E

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

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

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

| | | | | |
|---|--|--|--|---|
| R174-
R175
R176-
R177 | 5020569 1,3kΩ 1% 1/4W
5020872 619Ω 1% 1/4W | | R178-
R180
R181
R182 | 5011509 1,5kΩ 1% 1/4W
5020569 1,3kΩ 1% 1/4W
5020872 619Ω 1% 1/4W |
| C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C14
C15
C17
C19
C20
C25-
C26
C29
C32-
C33
C34-
C40
C41-
C42
C43
C44
C46-
C48
C49
C50-
C52
C54
C57
C58
C59-
C60
C62
C64
C65 | 4000292 100pF 5% 50V
4010170 2,2nF 10% 50V
4000236 470pF 10% 50V
4000293 47pF 5% 50V
4010170 2,2nF 10% 50V
4000236 470pF 10% 50V
4000293 47pF 5% 50V
4000287 220nF -20+80% 25V
4130315 15nF 5% 63V
4130308 220nF 10% 63V
4000233 220pF 5% 50V
4010177 22nF -20+80% 50V
4000241 100pF 5% 50V
□ 4000239 33pF 5% 50V
4000241 100pF 5% 50V
□ 4000233 220pF 5% 50V
4130313 470nF 20% 63V
4000286 470pF 5% 50V
4010166 100nF -20+80% 50V
4000236 470pF 10% 50V
4010170 2,2nF 10% 50V
4000239 33pF 5% 50V
4010166 100nF -20+80% 50V
4010170 2,2nF 10% 50V
4010157 10nF 10% 50V
4010170 2,2nF 10% 50V
4010170 2,2nF 10% 50V
4010170 2,2nF 10% 50V
4010103 2,2nF 10% 63V
4010170 2,2nF 10% 50V
4010170 2,2nF 10% 50V
4010103 2,2nF 10% 63V
4000241 100pF 5% 50V
4000281 82pF 5% 50V
4010170 2,2nF 10% 50V
4200517 2,2μF 20% 50V
4130230 100nF 20% 63V | | C66
C67
C69
C70
C71-
C72
C73-
C74
C75
C76
C77
C78
C79
C80
C81
C82
C83
C84
C85
C86
C87
C90
C91
C92-
C93
C94
C95-
C96
C98
C101
C104
C105
C106
C108
C109
C110
C111
C112
C113
C115
C116-
C117
C118 | 4200637 100μF -10+100% 16V
4200516 47μF 20% 16V
4000165 220pF 5% 63V
4130290 68nF 20% 63V
4000146 15pF 5% 63V
4010105 1nF 10% 63V
4130262 22nF 20% 63V
4010110 270pF 10% 63V
4000139 100pF 5% 63V
4200616 6,8μF 20% 25V
4200512 1μF 20% 50V
4130240 47nF 10% 63V
4130308 220nF 10% 63V
4000140 27pF 5% 63V
4010166 100nF -20+80% 50V
4010106 10nF -20+80% 40V
4010103 2,2nF 10% 63V
4010166 100nF -20+80% 50V
4010170 2,2nF 10% 50V
4010157 10nF 10% 50V
4200510 10μF 20% 16V
4000234 47pF 5% 50V
4010170 2,2nF 10% 50V
4010166 100nF -20+80% 50V
4010170 2,2nF 10% 50V
4000286 470pF 5% 50V
4000236 470pF 10% 50V
4200512 1μF 20% 50V
4200510 10μF 20% 16V
4010157 10nF 10% 50V
4130230 100nF 20% 63V
4130233 220nF 20% 63V
4000286 470pF 5% 50V
4010103 2,2nF 10% 63V
4010166 100nF -20+80% 50V
4010170 2,2nF 10% 50V
4010157 10nF 10% 50V
4000234 47pF 5% 50V |
| BP1 | 8030056 455kHz | | X3
X4 | 8090041 13.875 MHz
8090075 12 MHz |
| FI | 6604036 315mAF | | | |
| L1
L2
L7
L8 | 8020807 Coil 10μH
8020552 Coil 10μH 10%
8020554 Coil 15μH 5%
8020555 Coil 6MHz | | L9-
L10
L11-
L12 | 8020565 Coil 2,2μH
8020552 Coil 10μH 10% |
| P65
P66
P67
P68
P69 | 7220710 Plug 3 pol
7220714 Plug 7 pol
7220712 Plug 5 pol
7220714 Plug 7 pol
7220711 Plug 4 pol | | P70
P71
P72
P73 | 7220709 Plug 2 pol
7220716 Plug 9 pol
7220717 Plug 10 pol
7220713 Plug 6 pol |
| S1-
S2 | 7400318 Switch 1 pol | | S3 | 7210386 Socket Jack |
| P87 | 7220710 Plug 3 pol | | P88 | 7220427 Plug 5/5 pol |
| T1 | 8014111 Trafo auto inp.
Only MX 3500 | | □ 8024049 | Coil 20 mH
Only MX 3500 |

PCB 07, Headphone
8007068 LX45/5500

8007211 MX5500
8007212 MX3500
PCB07 8007213
Push button panel
MX3500

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|
| 17 | 20 | 35 | 44 | 51 | 101 | 102 | 103 |
| | | | | | | | |
| 124 | 136 | 147 | 209 | 214 | 217 | 221 | 250 |
| | | | | | | | |

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

△ indicates that static electricity may destroy the component.

PCB 08, 8007066
Nicam decoder, B/G

| | | | | | | | |
|-----|---------|-----|---------|------|---------|-----|----------|
| IC1 | 8341099 | 136 | TA8662N | IC5△ | 8341257 | 102 | 74HC4052 |
| IC2 | 8341159 | 124 | CF70123 | IC6 | 8341225 | 103 | LM3578 |
| IC3 | 8341173 | 101 | PCF8574 | IC7△ | 8341022 | 103 | 4558 |
| IC4 | 8341174 | 147 | SAA7320 | | | | |

PCB 08, 8007071
Nicam decoder, I

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

* Only in I version

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

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

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

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

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

| | | | | | |
|-----|---------|---------------|-------|---------|---------------|
| BP1 | 8020734 | Coil 5,85 MHz | * BP1 | 8020735 | Coil 6,552MHz |
|-----|---------|---------------|-------|---------|---------------|

| | | | | | |
|------|---------|------------------|----|---------|--------------------|
| X1 | 8090085 | Crystal 5,85 MHz | X2 | 8090110 | Crystal 16,384 MHz |
| * X1 | 8090081 | Crystal 6,552MHz | X3 | 8090083 | Crystal 5,824 MHz |

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

PCB 09, 8007042 IR receiver and transmitter

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

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

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

| | | | | | |
|----|---------|----------------|----|---------|--------------|
| L1 | 8020590 | Coil 270μH 10% | L2 | 8020768 | Coil 455 KHz |
|----|---------|----------------|----|---------|--------------|

| | | |
|-----|---------|------------|
| P91 | 7220715 | Plug 8 pol |
|-----|---------|------------|

PCB 10, 8007134 Time base and deflection

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

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

**Only in PCB E version*

Still display, 8007217

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

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

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

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

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

RL1 7600098 Relay 9V

S1 8020325 Coil 10μH

| | | | | | |
|----|---------|-------|----|---------|-------|
| T1 | 8014094 | Trafo | T3 | 8014102 | Trafo |
| T2 | 8014074 | Trafo | | | |

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

| | | | | | |
|------|---------|--------------|-----|---------|----------------|
| P12 | 7220713 | Plug 6 pol | P23 | 7220427 | Plug 5/5 pol |
| P13 | 7220712 | Plug 5 pol | P24 | 7220424 | Plug 2/2 pol |
| P14 | 7220713 | Plug 6 pol | P25 | 7220432 | Plug 10/10 pol |
| P15 | 7220712 | Plug 5 pol | P26 | 7220717 | Plug 10 pol |
| P16 | 7220711 | Plug 4 pol | P27 | 7220716 | Plug 9 pol |
| P17 | 7220427 | Plug 5/5 pol | P28 | 7220426 | Plug 4/4 pol |
| P18- | 7220411 | Plug 2/2 pol | P29 | 7220717 | Plug 10 pol |
| P19 | | | P30 | 7220711 | Plug 4 pol |
| P20 | 7220429 | Plug 7/7 pol | P31 | 7220714 | Plug 7 pol |
| P21 | 7220715 | Plug 8 pol | P32 | 7220424 | Plug 2/2 pol |
| P22 | 7220710 | Plug 3 pol | | | |

PCB 63, 8039082
Crossover network, LX5500

PCB 63, 8039075
Crossover network, LX4500

PCB 29, 8003719, Transposer

Resistors 5% 1/2 W

Resistors 5% 1/4 W

Resistors 5% 1/8 W

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

| | | | | | |
|---------|---------------------|---------------------|-------------|---------|---------------------|
| L1 | 6850146 | Coil 0.47μH-0.74Ω | L2 | 6850207 | Coil 470μH-1.8Ω |
| TR1 | 8320670 | 51 BFT 25 | TR4 | 8320615 | 51 BC 848B |
| TR2 | 8320615 | 51 BC 848B | TR5 | 8320672 | 51 BFS 20 |
| TR3 | 8320754 | 53 BF 992 | | | |
| D1-4 | 8300478 | 209 BA 483 | | | |
| C1-7 | 4000342 | 1 nF 10% 50V | C16 | 4000342 | 1 nF 10% 50V |
| C8 | 4000337 | 1.8 pF ±0.25 pF 63V | C17 | 4000332 | 8.2 pF ±0.5 pF 50V |
| C9 | 4000276 | 18 pF 5% 50V | C18 | 4000275 | 15 pF 5% 50V |
| C10 | 4000229 | 150 pF 5% 50V | C19 | 4000276 | 18 pF 5% 50V |
| C11 | 4000278 | 27 pF 5% 50V | C20 | 4000267 | 3 pF ±0.25 pF 50V |
| C12 | 4000331 | 6.8 pF ±0.25 pF 50V | C21 | 4000342 | 1 nF 10% 50V |
| C13 | 4000274 | 12 pF 5% 50V | C22 | 4000331 | 6.8 pF ±0.25 pF 50V |
| C14 | 4000330 | 5.6 pF ±0.5 pF 50V | C23 | 4000274 | 12 pF 5% 50V |
| C15 | 4000337 | 1.8 pF ±0.25 pF 63V | C24 | 4000342 | 1 nF 10% 50V |
| L1-2 | 8020609 | Coil 3.3 μH | L6 | 6850174 | Coil 860 nH |
| L3 | 6850203 | Coil 400 nH | L7 | 6850202 | Coil 235 nH |
| L4 | 6850177 | Coil 97 nH | L8 | 6850179 | Coil 98 nH |
| L5 | 6850175 | Coil 52 nH | | | |
| 7210589 | Socket COAX, female | 3164635 | Cap. bottom | | |
| 7220539 | Socket COAX, male | 6270386 | Wire w/plug | | |
| 3164631 | Cap, top | | | | |

| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|-----|----------|---------|---------|---------|---------|---------|---------|---------|
| 1.0 | 5011406 | 5011000 | 5011013 | 5011028 | 5011044 | 5010313 | 5011069 | 5011083 |
| 1.2 | 5011001 | 5011014 | 5011030 | 5011030 | 5011045 | 5011058 | 5010421 | |
| 1.5 | 5010727 | 5011002 | 5011015 | 5011031 | 5011046 | 5011059 | 5011071 | |
| 1.8 | 5010857 | 5010787 | 5011016 | 5011033 | 5011047 | 5011061 | 5011072 | |
| 2.2 | 5011335 | 5010708 | 5010815 | 5011034 | 5011048 | 5011062 | 5011074 | |
| 2.7 | 5011612 | 5010803 | 5011018 | 5010055 | 5011049 | 5011062 | 5011075 | |
| 3.3 | 5010255 | 5011007 | 5011019 | 5011037 | 5011051 | 5011063 | 5010381 | |
| 3.9 | 5010765 | 5010782 | 5011021 | 5011037 | 5011051 | 5011065 | 5010392 | |
| 4.7 | 5010765 | 5011009 | 5011022 | 5010035 | 5011036 | 5011065 | 5011078 | |
| 5.6 | 50110874 | 5011010 | 5011023 | 5011041 | 5011081 | 5011087 | 5011080 | |
| 6.8 | | 5011011 | 5011024 | 5011042 | 5011038 | 5011068 | 5011081 | |
| 8.2 | | 5011012 | 5011026 | 5011043 | | | | |

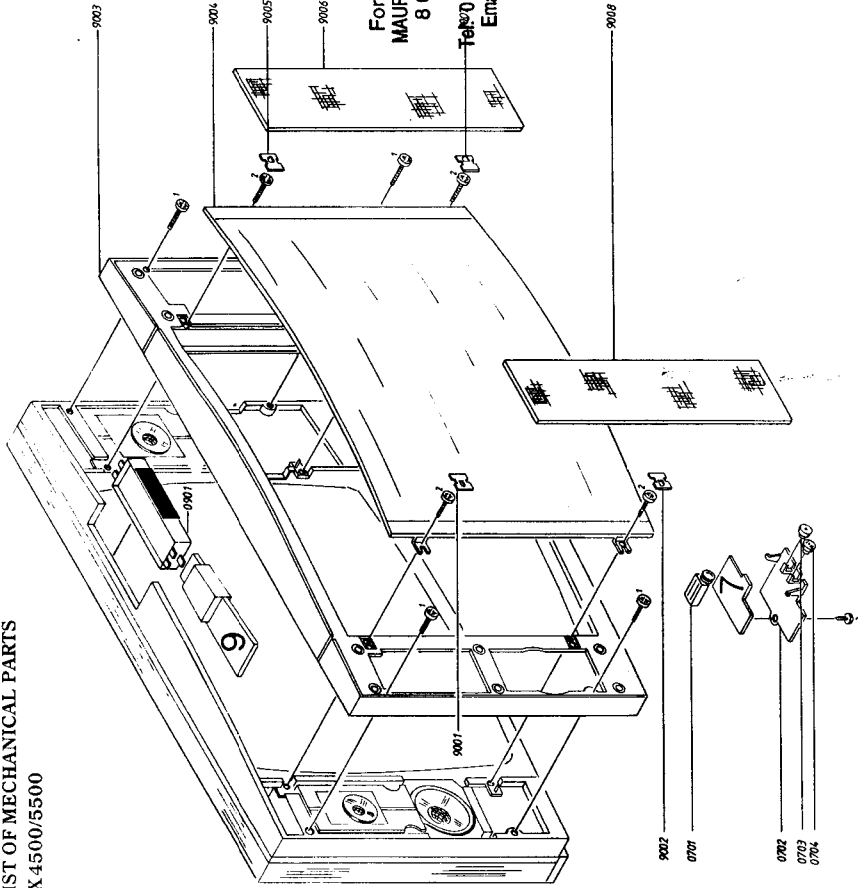
| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.0 | 5010592 | 5010506 | 5010065 | 5010040 | 5010059 | 5010049 | 5010054 | 5010638 |
| 1.2 | | 5010595 | 5010128 | 5010353 | 5010046 | 5010047 | 5010665 | |
| 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 | 5010078 | 5010069 | 5010060 | 5010073 | 5010714 | |
| 4.7 | 5010888 | 5010411 | 5010038 | 5010048 | 5010043 | 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 | | |

| | 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 | 5011344 | 5011468 | | |
| 2.2 | 5011032 | 5011376 | 5010886 | 5011353 | 5010833 | 5011369 | 5011342 | |
| 2.7 | | 5011471 | 5011355 | 5011362 | 5011366 | 5011370 | 5011478 | |
| 3.3 | | 5011347 | 5011337 | 5010827 | 5011346 | 5011371 | 5011462 | |
| 3.9 | 5011438 | 5011817 | 5011157 | 5011457 | 5011372 | 5020876 | | |
| 4.7 | 5011363 | 5011038 | 5011441 | 5011363 | 5010937 | 5011343 | 5011611 | |
| 5.6 | | 5011412 | 5011358 | 5010885 | 5011166 | 5011340 | | |
| 6.8 | 5011356 | 5011336 | 5010839 | 5011367 | 5011458 | | | |
| 8.2 | 5011466 | 5011354 | 5011359 | 5011368 | 5011373 | | | |

| | 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 cots, approx. 200, part no. 3181932).

LIST OF MECHANICAL PARTS LX 4500/5500



For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
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Email: enquiries@mauritron.co.uk

Front frame for Beovision LX5500

| | | | | | |
|------|---------|---------------|------|---------|--------------------------|
| 9001 | 3164570 | Cap | 9006 | 3450898 | Loudspeaker panel, right |
| 9002 | 3164570 | Cap | 9007 | 3164570 | Cap |
| 9003 | 3414146 | Front frame | 9008 | 3450897 | Loudspeaker panel, left |
| 9004 | 3450890 | Glass plate | | | |
| 9005 | 3950043 | Rubber string | | | |
| 9006 | 3164570 | Cap | | | |

| | | | | | |
|---------|---------|-------------------------|------|---------|-----------------|
| 07modul | 8007068 | Headphone | 0704 | 2776033 | Button, Pstcp |
| 0701 | 7210386 | Jack plug | | 6275990 | Mains lead |
| 0702 | 3131324 | Cap | | 6275989 | Mains lead, AUS |
| 0703 | 2776032 | Button for mains switch | | | |

| | | | | | |
|----------|---------|-----------------------------|--|--|--|
| 09 modul | 8007042 | IR receiver and transmitter | | | |
| | 3302467 | Shield, top | | | |
| | 3302468 | Shield, bottom | | | |
| 0901 | 3131325 | House for IR | | | |

Front frame for Beovision LX4500

| | | | | | |
|------|---------|---------------|------|---------|--------------------------|
| 9003 | 3414136 | Front frame | 9006 | 3450894 | Loudspeaker panel, right |
| 9004 | 3450888 | Glass plate | 9008 | 3450893 | Loudspeaker panel, left |
| | 3950044 | Rubber string | | | |

Other parts like front frame for Beovision LX5500

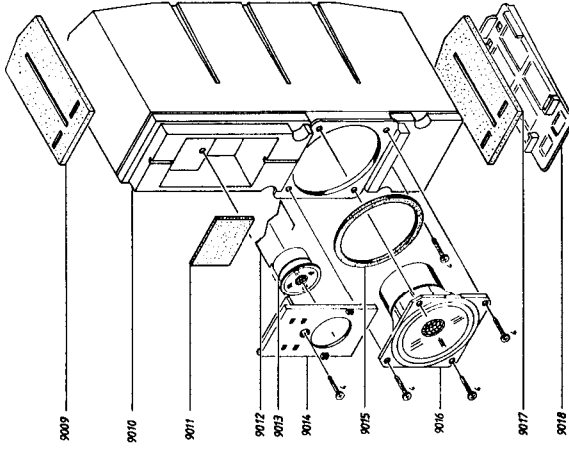
Loudspeaker cabinet for Beovision LX5500

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

Loudspeaker cabinet for Beovision LX4500

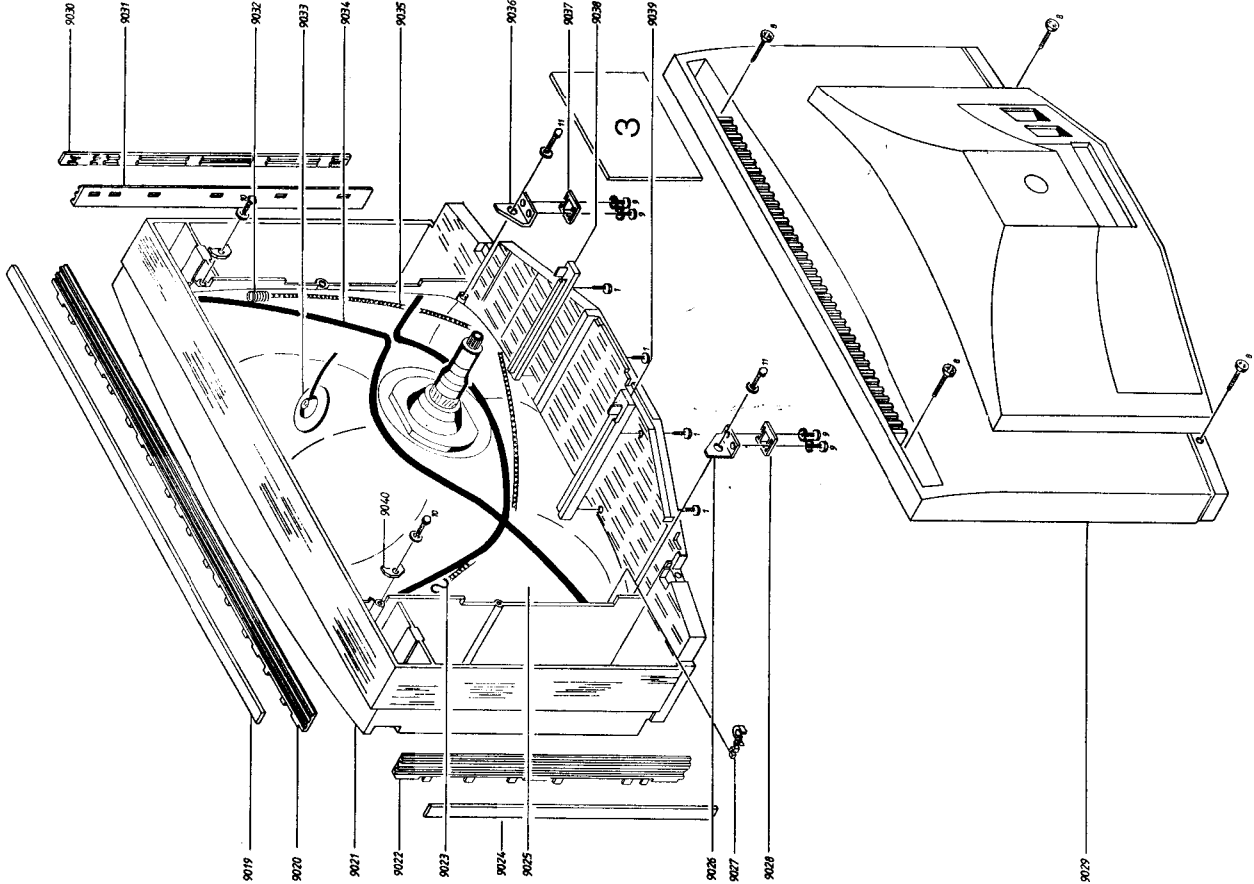
| | | | | | |
|------|---------|----------------------------|------|---------|--------------|
| 9009 | 3152615 | Pressure pad | 9015 | 3340047 | Gasket |
| 9010 | 3430376 | Loudspeaker cabinet, right | 9016 | 8480164 | Bass speaker |
| | 3430377 | Loudspeaker cabinet, left | 9017 | 3152615 | Pressure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

Other parts like loudspeaker cabinet for Beovision LX5500



Cabinet

Cabinet for Beovision LX5500



| | | | | | |
|------|---------|----------------------|------|---------|----------------------|
| 9019 | 2569205 | Profile, top | 9028 | 2576200 | Spacer |
| 9020 | 2569207 | Profile, top, blank | 9029 | 3414336 | Rear cover |
| 9021 | 3152415 | Holder | 9030 | 2569232 | Profile, side |
| | 3414603 | Cabinet, rosewood | | 2569220 | Profile, side, blank |
| | 3414326 | Cabinet, white | 9031 | 3152438 | Holder, left |
| | 3414329 | Cabinet, black | 9032 | 2810189 | Spring |
| | 3414329 | Cabinet, grey | 9033 | 6270474 | EHT cable |
| 9022 | 3152539 | Holder, right | 9034 | 8022222 | Degaussing coil |
| 9023 | 2510119 | Clamp | 9035 | 7510041 | Ground current |
| 9024 | 2569232 | Profile, side | 9036 | 3152432 | Holder |
| | 2569220 | Profile, side, blank | 9037 | 2576200 | Spacer |
| 9025 | 8200065 | Picture tube 28" | 9038 | 3152678 | Rail, right |
| 9026 | 3152446 | Holder | 9039 | 3152677 | Rail, left |
| 9027 | 3152778 | Holder | 9040 | 2576170 | Spacer |

03 modul 8007041 Video Output

Cabinet for Beovision LX4500

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

Other parts like cabinet for Beovision LX5500

Survey of screws and washers

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

Parts not shown

| | | | |
|---------|-------------------------------------|---------|--------------------------------|
| 3397558 | Foam packing, LX5500 | 3503571 | Setting up guide, E |
| 3397533 | Foam packing, LX4500 | 3503572 | Setting up guide, I |
| 3392082 | Outer carton, LX5500 | 3501091 | Users guide, DK |
| 3392083 | Outer carton, LX4500 | 3501092 | Users guide, S |
| 3946109 | Moulding, set, LX4500 | 3501093 | Users guide, SF |
| 3946110 | Moulding, set, LX5500 | 3501094 | Users guide, GB |
| 3503558 | Setting up guide, DK | 3501095 | Users guide, D |
| 3503559 | Setting up guide, S | 3501096 | Users guide, NL |
| 3503556 | Setting up guide, SF | 3501097 | Users guide, F |
| 3503557 | Setting up guide, GB | 3501102 | Users guide for Videosystem, F |
| 3503558 | Setting up guide, D | | |
| 3503559 | Setting up guide, NL | | |
| 3503570 | Setting up guide, F | | |
| 3503573 | Setting up guide for Videosystem, F | | |

LX5500, White Line

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

Other parts like cabinet for Beovision LX5500

LX4500, White Line

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

Other parts like cabinet for Beovision LX5500

LX5500, Grey Line

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

Other parts like cabinet for Beovision LX5500

LX4500, Grey Line

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

Other parts like cabinet for Beovision LX5500

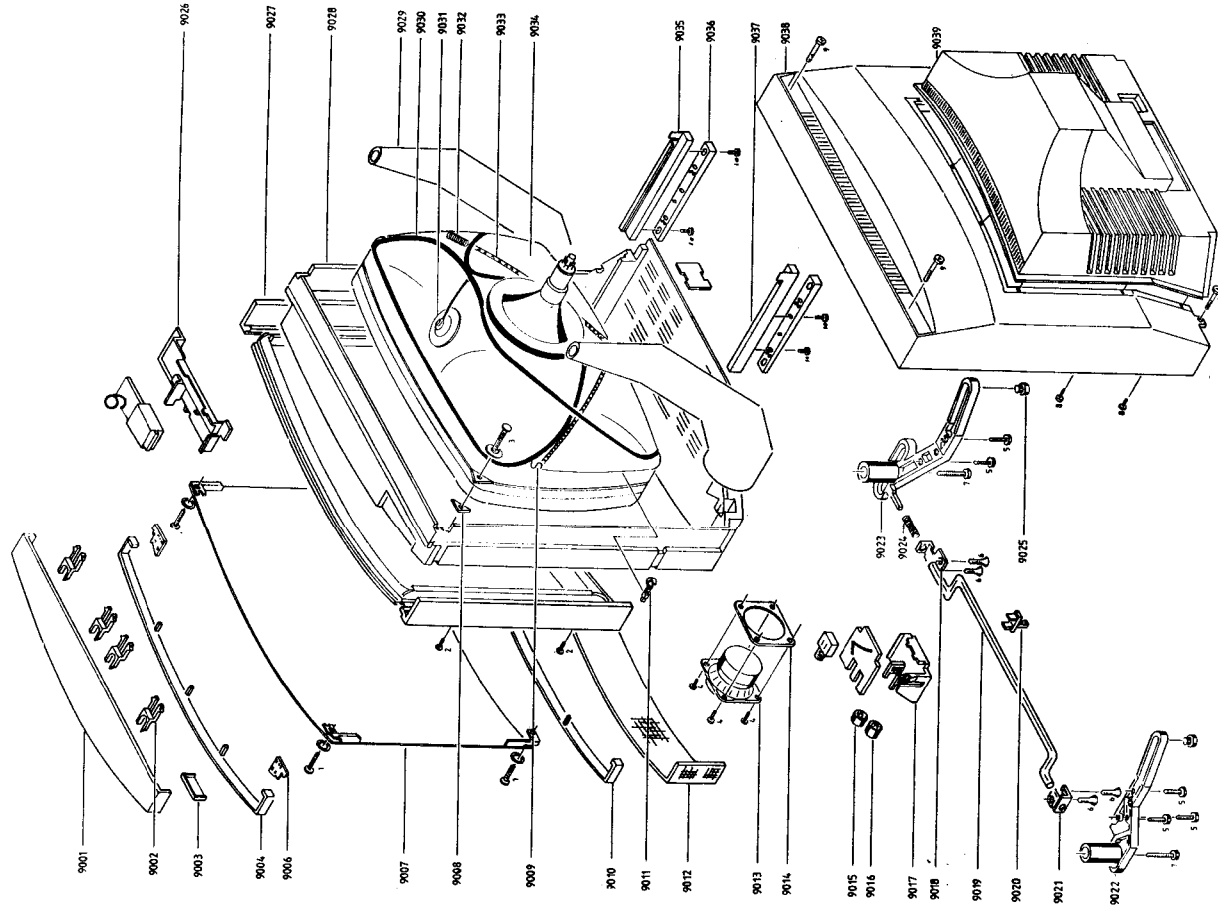
L5500

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

Other parts like cabinet for Beovision LX5500

L4500

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

*Other parts like cabinet for Beovision LX5500*LIST OF MECHANICAL PARTS
MX5500

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

Cabinet
MX5500

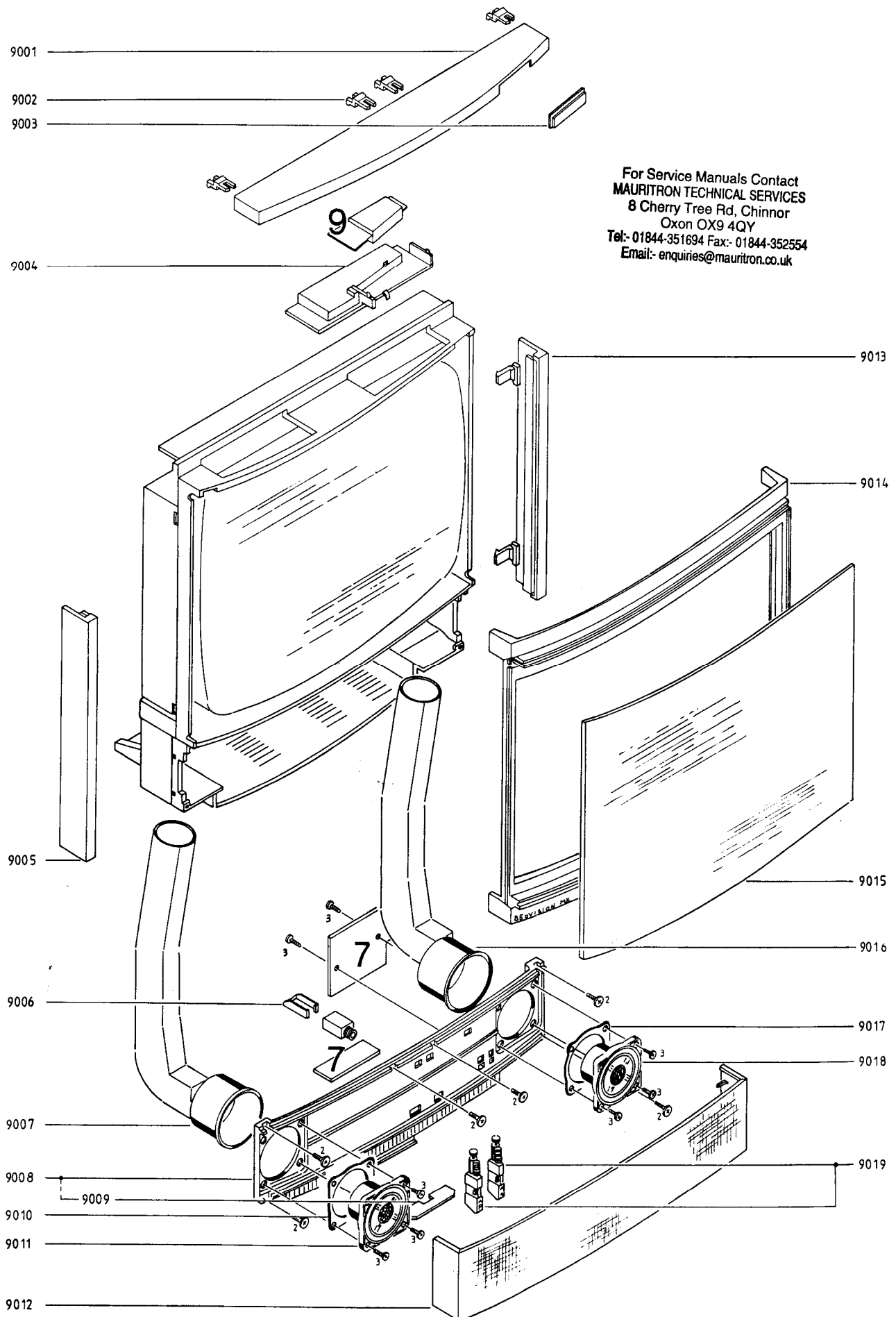
| | | | | | |
|------|---------|---------------------------------|------|---------|--------------------------------|
| 9001 | 3450691 | Lid | 9026 | 3131329 | Holder |
| 9002 | 2391070 | Hinge | 9027 | 3320106 | Front frame
w/rubber string |
| 9003 | 3322092 | Window | | 3950029 | Rubber string |
| 9004 | 3450701 | Cap | | 3320131 | Chassis w/foot |
| 9006 | 3164687 | Holder | 9028 | 3946083 | Tightning, side |
| 9007 | 3451039 | Contrast screen | | 3946084 | Tightning,
top/bottom |
| 9008 | 2640053 | Spacer | | 3103287 | Foot |
| 9009 | 2510119 | Clamp | | 6275990 | Mains lead |
| 9010 | 3450925 | Cap | | 6275989 | Mains lead AUS |
| 9011 | 3152778 | Holder | | 3132103 | Loudspeaker
damping tube |
| 9012 | 3450709 | Loudspeaker panel | 9029 | 8022222 | Degaussing coil |
| 9013 | 8480164 | Loudspeaker | | 6270474 | EHT cable |
| 9014 | 3340074 | Gasket | 9030 | 2810189 | Tension spring |
| 9015 | 2776033 | Press button - STEP | 9031 | 7510041 | Ground current |
| 9016 | 2776032 | Press button - ● | 9032 | 8200065 | Picture tube |
| 9017 | 3152674 | Holder | 9033 | 3152677 | Guide rail, left |
| 9018 | 3031175 | Fitting f/tilting foot
left | 9034 | 2576242 | Spacer f/rail |
| 9019 | 3103238 | Tilting foot | 9035 | 3152678 | Guide rail, right |
| 9020 | 3152566 | Holder f/tilting foot | 9036 | 3414244 | Back cover, red |
| 9021 | 3031129 | Fitting f/tilting foot
right | 9037 | 3414245 | Back cover, white |
| 9022 | 3031157 | Fitting f/bottom
right | 9038 | 3414246 | Back cover, black |
| 9023 | 3031234 | Fitting f/bottom left | | 3414248 | Back cover, blue |
| 9024 | 2819237 | Spring | | 3414249 | Back cover, grey |
| 9025 | 3035032 | Rubber foot | 9039 | 3430484 | Back cover, small |

| | |
|-----------------|-----------|
| 07modul 8007211 | Headphone |
| 7210386 | Jack plug |

Survey of screws and washers

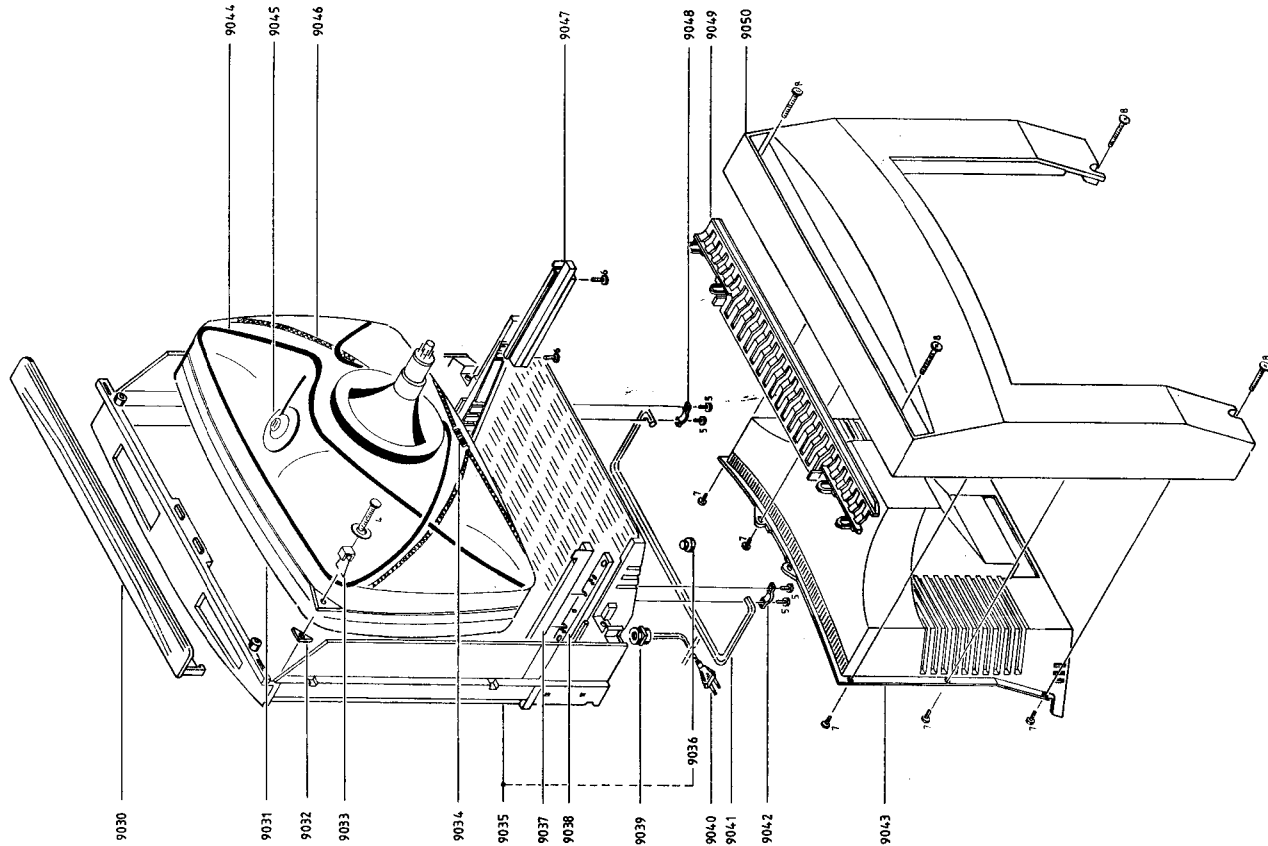
| | | | | | |
|---|---------|----------------------------|----|---------|-----------------|
| 1 | 2015129 | Screw 3.5 x 12
w/washer | 5 | 2019018 | Screw 4 x 16 |
| | | | 6 | 2019015 | Screw 4 x 14 |
| 2 | 2013123 | Screw 3 x 10 | 7 | 2021003 | Screw 5 x 35 |
| 3 | 2044048 | Screw 5 x 25
w/washer | 8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

LIST OF MECHANICAL PARTS
MX3500



Cabinet
MX3500

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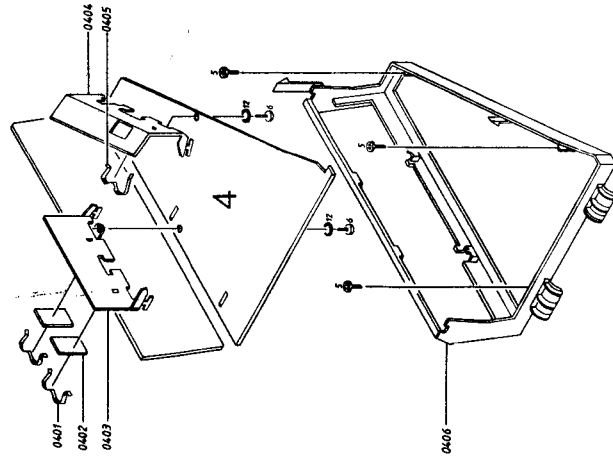
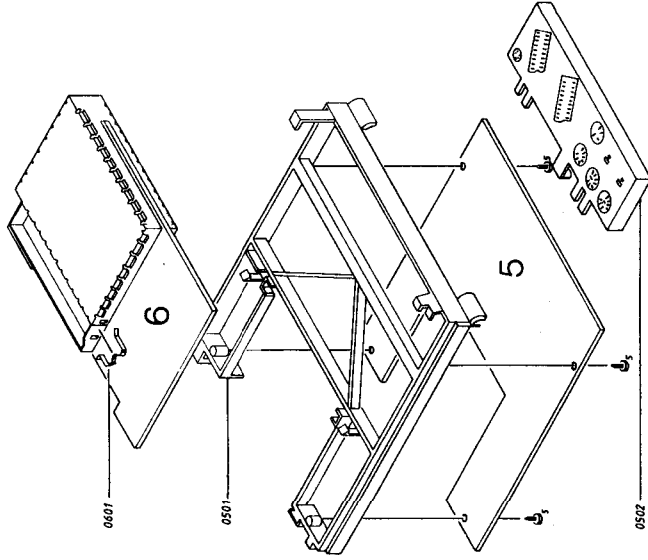
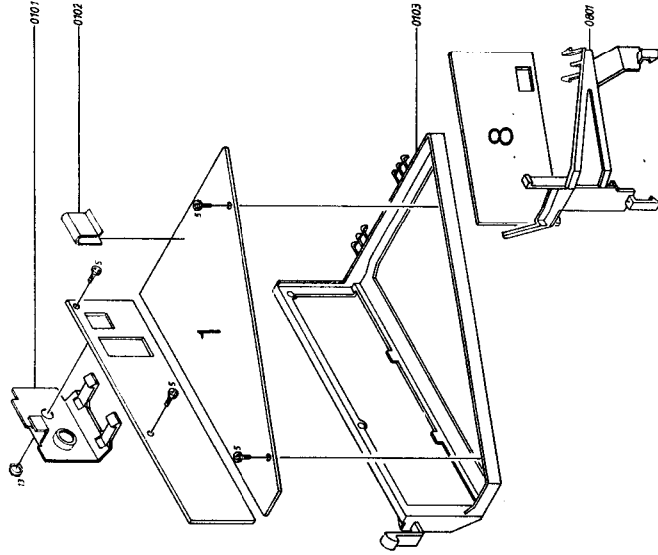


Survey of screws

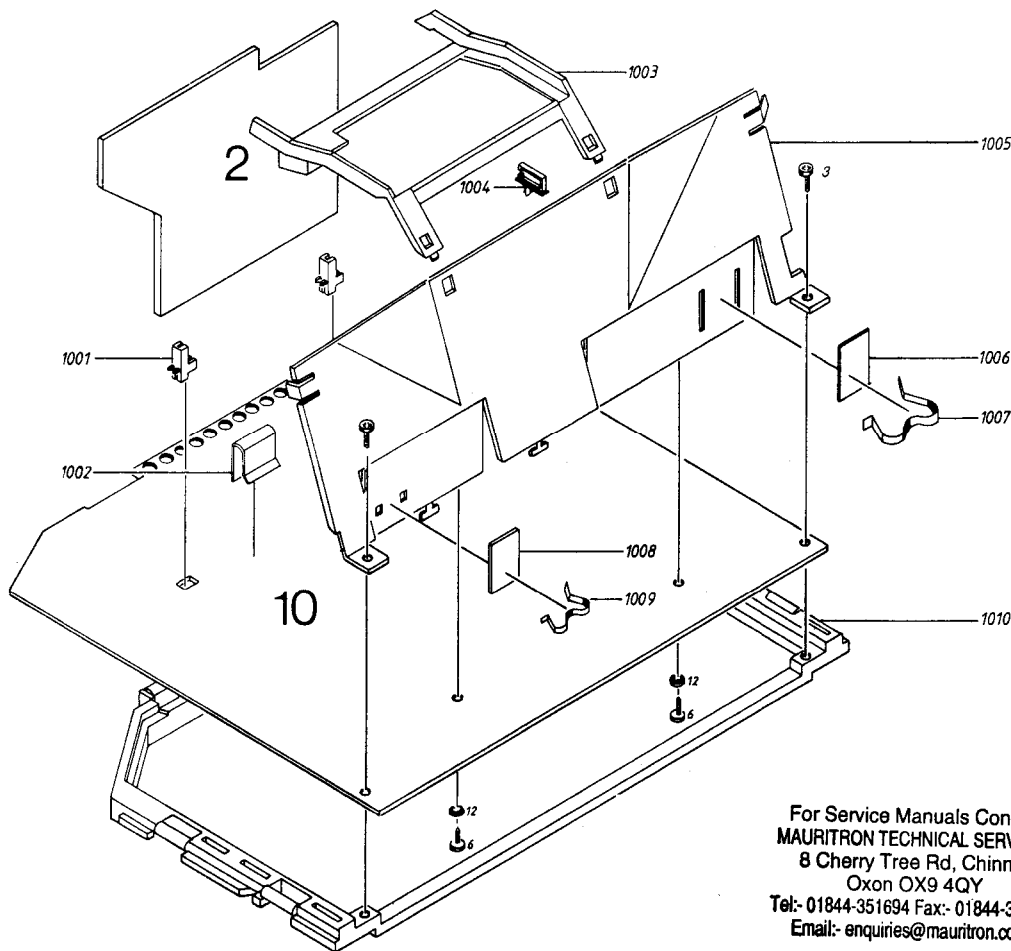
| | | |
|---|---------|-----------------------|
| 2 | 2019009 | Screw 4 x 12 |
| 3 | 2013123 | Screw 3 x 10 |
| 4 | 2044048 | Screw 5 x 25 w/washer |
| 5 | 2019009 | Screw 4 x 12 |
| 6 | 2019018 | Screw 4 x 16 |
| 7 | 2019010 | Screw 4 x 8 |
| 8 | 2021009 | Screw 5 x 25 |

Parts not shown

| | |
|---------|--|
| 1301166 | Back cover f/MX3500 with Beosat LM |
| 3397557 | Foam insert f/MX3500 |
| 3917104 | Foam foil f/MX3500 |
| 3917105 | Foam foil f/MX5500 |
| 3397620 | Foam packing f/MX3500 |
| 3397637 | Foam packing f/MX5500 |
| 3391863 | Outer carton f/MX3500 |
| 3392015 | Outer carton f/MX5500 |
| 3501103 | Users guide, DK |
| 3501104 | Users guide, S |
| 3501105 | Users guide, SF |
| 3501106 | Users guide, GB |
| 3501107 | Users guide, D |
| 3501108 | Users guide, NL |
| 3501109 | Users guide, F |
| 3501110 | Users guide, I |
| 3501111 | Users guide, E |
| 3501112 | Users guide for Videosystem, F |
| 3503593 | Setting up guide f/MX3500, DK |
| 3503593 | Setting up guide f/MX5500, DK |
| 3503594 | Setting up guide f/MX3500, S |
| 3503584 | Setting up guide f/MX5500, S |
| 3503595 | Setting up guide f/MX3500, SF |
| 3503585 | Setting up guide f/MX5500, SF |
| 3503596 | Setting up guide f/MX3500, GB |
| 3503586 | Setting up guide f/MX5500, GB |
| 3503597 | Setting up guide f/MX3500, D |
| 3503587 | Setting up guide f/MX5500, D |
| 3503598 | Setting up guide f/MX3500, NL |
| 3503588 | Setting up guide f/MX5500, NL |
| 3503599 | Setting up guide f/MX3500, F |
| 3503589 | Setting up guide f/MX5500, F |
| 3503600 | Setting up guide f/MX3500, I |
| 3503589 | Setting up guide f/MX5500, I |
| 3503601 | Setting up guide f/MX3500, E |
| 3503591 | Setting up guide f/MX5500, E |
| 3503602 | Setting up guide for Videosystem f/MX3500, F |
| 3503592 | Setting up guide for Videosystem f/MX5500, F |



| | |
|------------------|---------------------------|
| 01 modul 8007048 | MFB/GL |
| 8007052 | MF 1 |
| 0101 | 3451045 Front plate |
| 0102 | 3358259 Heat sink |
| 0103 | 3152673 Chassis |
| 02 modul 8007050 | PAL/SECAM/NTSC decoder |
| 04 modul 8007034 | Switch mode power supply |
| 0401 | 2816260 Spring clip |
| 0402 | 3170001 Mica washer |
| 0403 | 3358263 Heat sink |
| 0404 | 3358254 Heat sink |
| 0405 | 2816238 Leaf spring |
| 0406 | 3152672 Chassis |
| 05 modul 8007040 | Video and sound switching |
| 0501 | 3152671 Chassis |
| 0502 | 3168760 Aerial panel |
| 06 modul 8007025 | Teletext and uP system |
| 0601 | 2816195 Spring clip |
| | 3302465 Shield, top |
| | 3302466 Shield, bottom |
| 08 modul 8007066 | Nicam decoder |
| 8007071 | Nicam I decoder |
| 0801 | 3152676 Chassis |



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

Survey of screws

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

Survey of wire bundles

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

Video stand,
1410613, LX55/4500
1410714, MX5500

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

Survey of Screws

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

Parts not shown

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

Motorized Base,
1410111, LX45/5500
1410211, MX5500

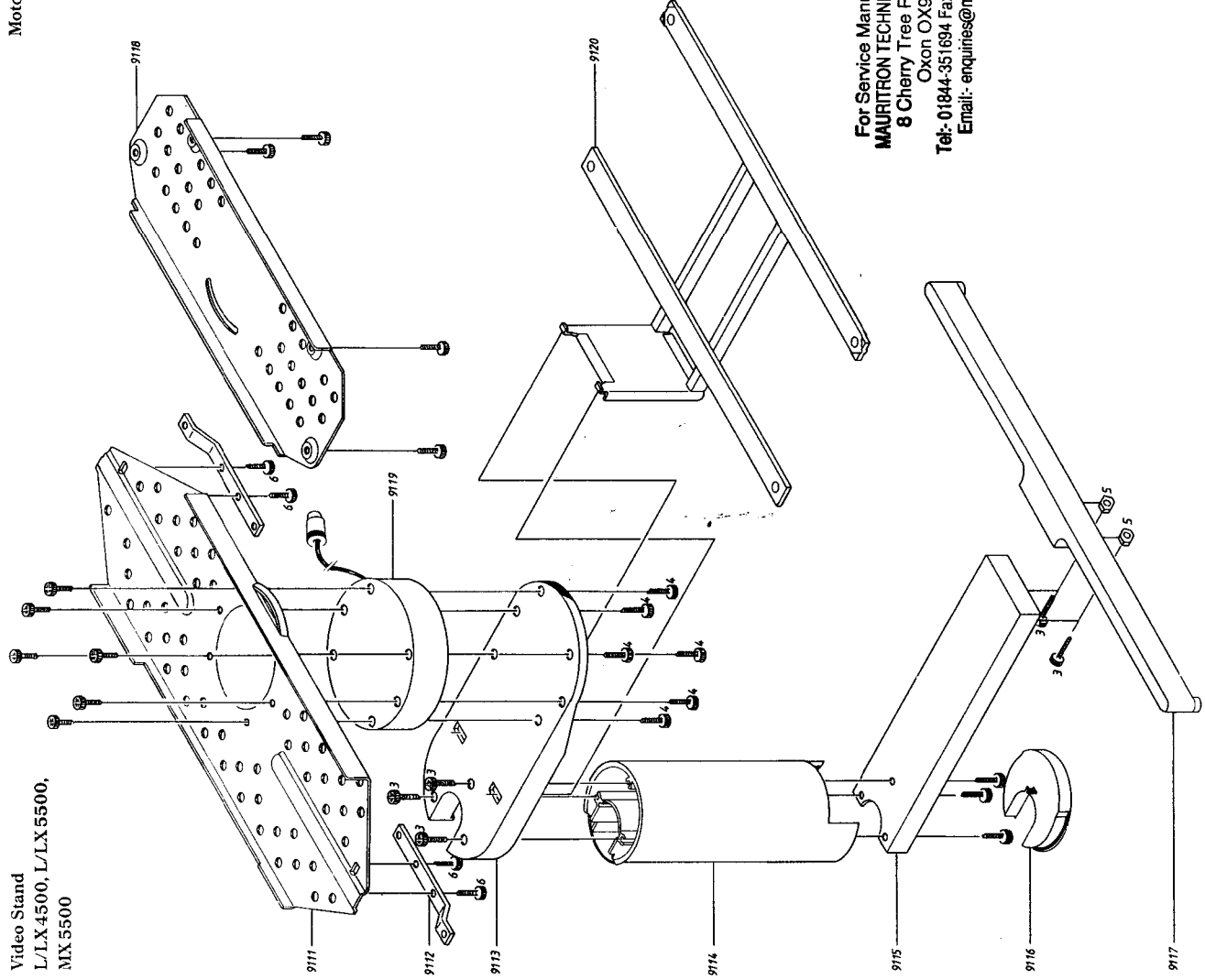
1410511, MX3500

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

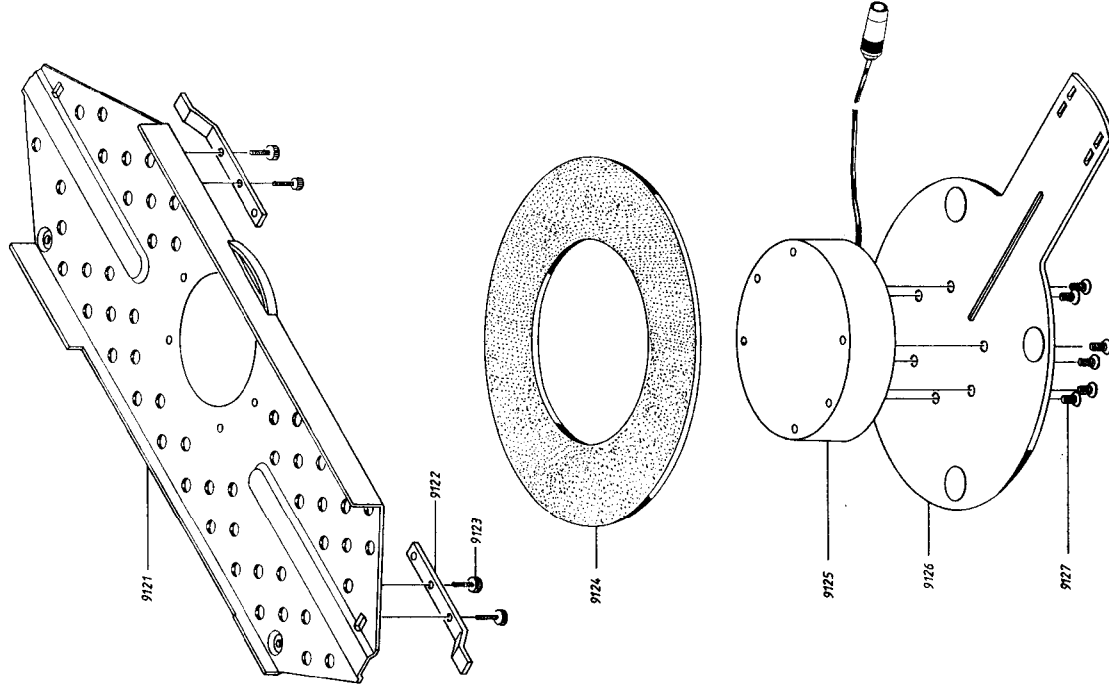
Parts not shown

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

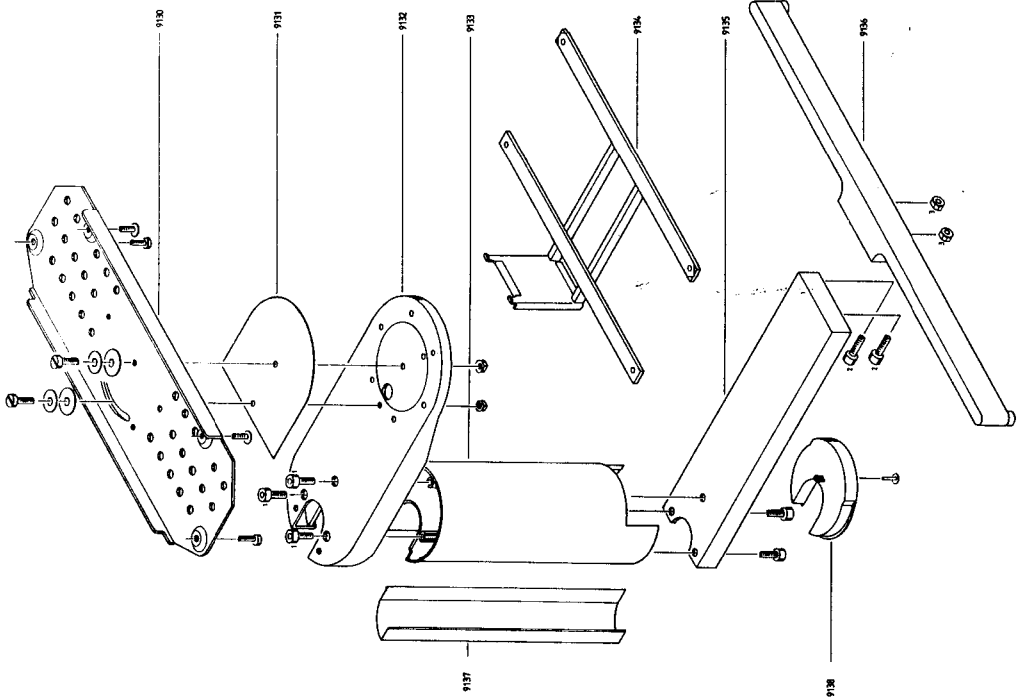
Video Stand
L/LX 4500, L/LX 5500,
MX 5500



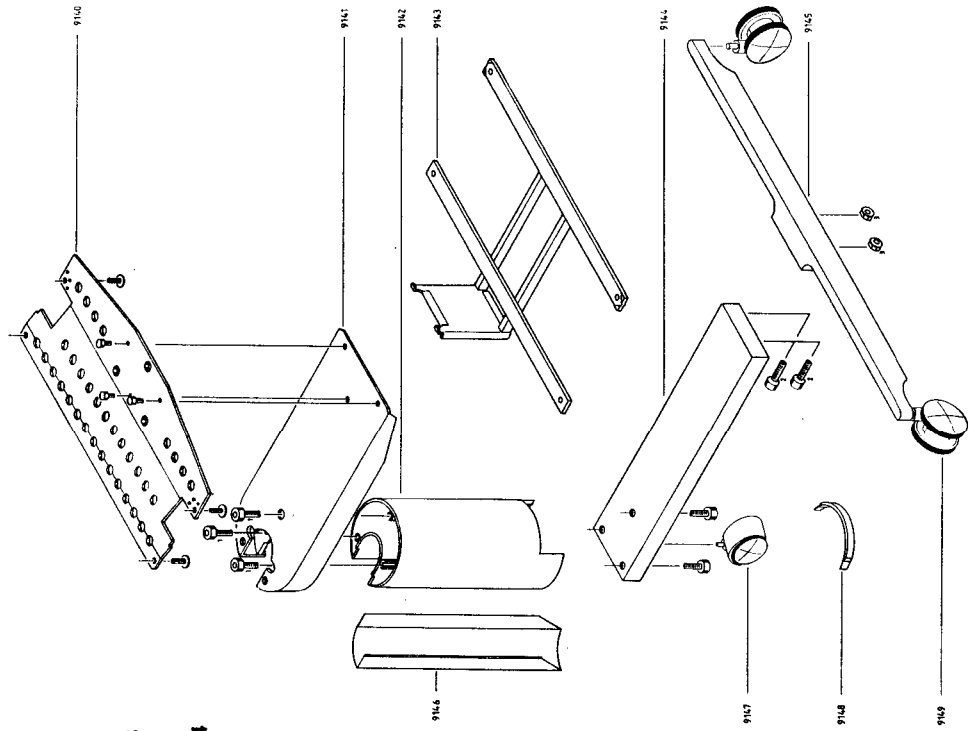
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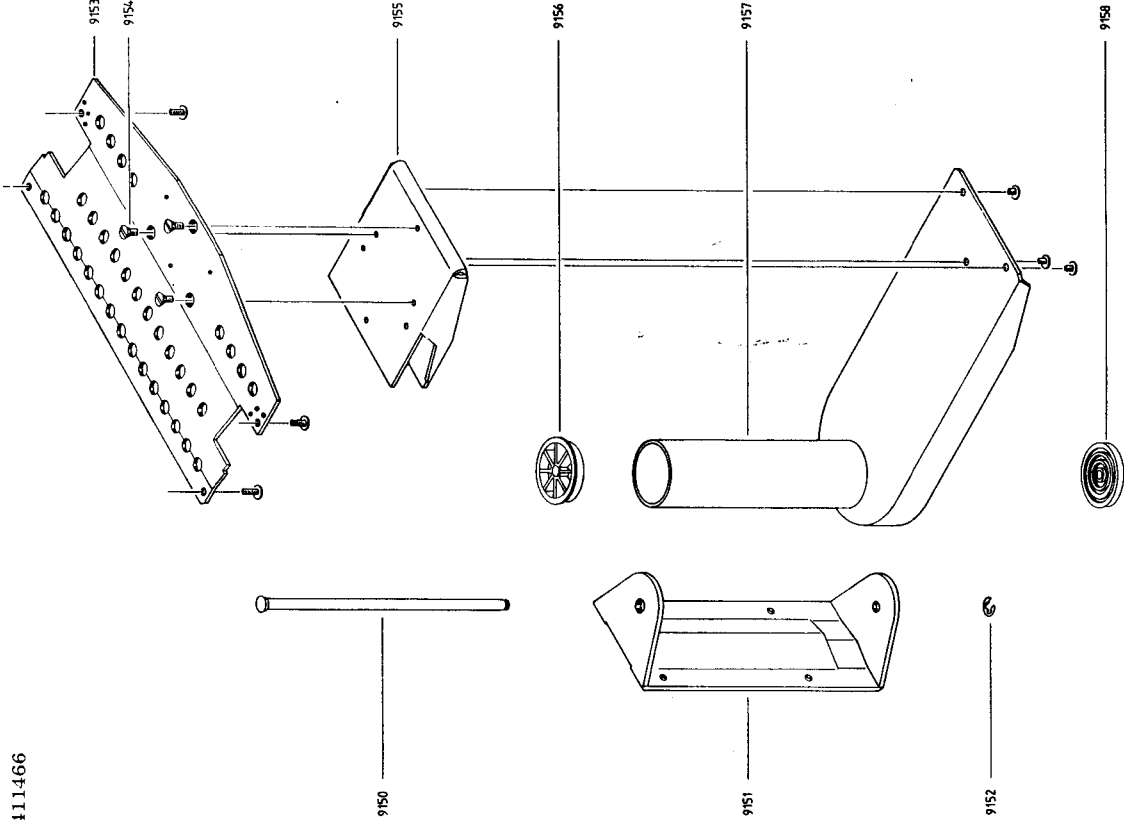


| | | | | | | | |
|-------------------------------|--|---------|-------------|--------------------------|---------|------------------|-----------------|
| Video Stand, 1410913, MX 5500 | | 9130 | 3124117 | Mounting plate | 9135 | 3454689 | Frame, bottom |
| Shelf 1411366, VX 5500 | | 9131 | 3915044 | Gasket | 9136 | 3451012 | Profile |
| | | 9132 | 3458498 | Frame, top | 9137 | 3035063 | Rubber foot |
| | | 9133 | 2569039 | Frame intermediate piece | 9138 | 3164831 | Cover f/interm. |
| | | 9134 | 3151279 | Shelf, VX | 9139 | 3103298 | Cover f/bottom |
| Survey of Screws | | 1 | 2046017 | Screw 6x16 mm | | | |
| | | 2 | 2046031 | Screw 6x25 mm | | | |
| | | 3 | 2380130 | Nut | | | |
| Parts not shown | | 3390415 | Bag w/parts | | 339726 | Foam packing | |
| | | 3392152 | Packing | | 3504414 | Assembling guide | |



| | | | | | | | |
|------------------------------|--|------|---------|--------------------------|------|---------|-----------------|
| Video Stand, 1411013, MX3500 | | 9140 | 3124122 | Mounting plate | 9145 | 3451079 | Profile |
| Shelf 1411366, VX5000 | | 9141 | 3458756 | Frame, top | 9146 | 3164857 | Cover f/interm. |
| | | 9142 | 2569241 | Frame intermediate piece | 9147 | 3032022 | Wheel |
| | | 9143 | 3151279 | Shelf, VX | 9148 | 3456187 | Cover f/bottom |
| | | 9144 | 3454699 | Frame, bottom | 9149 | 3032019 | Wheel |
| <hr/> | | | | | | | |
| Survey of Screws | | 1 | 2046017 | Screw 6x16 mm | | | |
| | | 2 | 2044060 | Screw 5x25 mm | | | |
| | | 3 | 2380141 | Nut | | | |
| <hr/> | | | | | | | |
| Parts not shown | | | | | | | |
| | | | 3390418 | Bag w/parts | | | |
| | | | 3392169 | Packing | | | |
| | | | 3397748 | Foam packing | | | |
| | | | 3504415 | Assembling guide | | | |

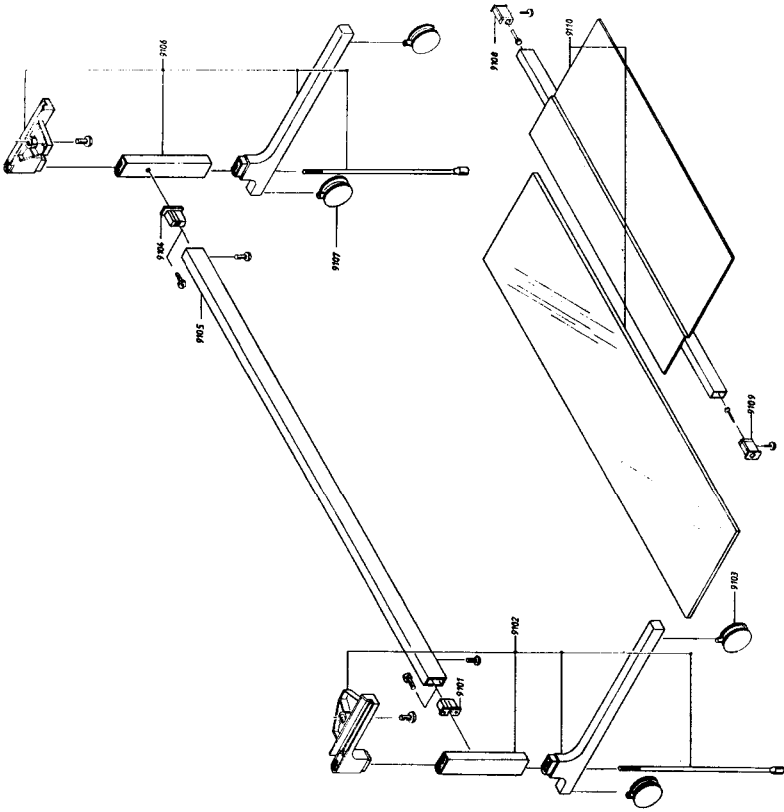
Wall Bracket MX3500
1411466



Parts not shown

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

TV-Stand L/LX 4500,
L/LX5500



BETJENING I SERVICE MODE

| | |
|---------------------------------|--------------------|
| PLAY | Godkend menu/værdi |
| << >> | Step i menu |
| < > | Ændring af værdi |
| STOP | Tilbage |

Der anvendes normalt farvetestbillede til de efterfølgende justeringer.

Preset

Preset-justering (referenceniveau) af lys og farvemætning.

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

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

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

Cut-off balance

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

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

Drive

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

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

HORISONTAL AFBØJNING

Hor. frekvens

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

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

Fjern kortslutning

Øst/Vest parabel

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

Øst/Vest 'tilt'

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

OPERATION IN SERVICE MODE

| | |
|---------------------------------|--------------------|
| PLAY | Approve menu/value |
| << >> | Step in menu |
| < > | Value modification |
| STOP | Return |

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

Preset

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

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

Adjust the brilliance (BRI PRE) until the proper brilliance in the picture is achieved (typically 3).
Adjust the colour saturation (SAT PRE) until the proper colour saturation is achieved (typically 4).

Cut-off balance

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

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

Drive

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

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

HORIZONTAL DEFLECTION

Horizontal frequency

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

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

East/West parabola

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

East/West tilt

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

Øst/Vest 'corner'

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

Hor. amplitude

- Vælg GEOMETRY i SERVICEMODE
- Vælg H AMPL og juster

Hor. centrering/'Phase'

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

VERTIKAL AFBØJNING**Vert. amplitude**

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

Vert. linearitet

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

Vert. S-korrektion

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

Vert. centrering

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

Gentag evt. justeringsproceduren

East/West corner

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

Horizontal amplitude

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

Horizontal centring/Phase

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

VERTICAL DEFLECTION**Vertical amplitude**

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

Vertical linearity

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

Vertical S-correction

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

Vertical centring

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

Repeat the adjustment procedure if required.

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JUSTERINGSVEJLEDNING

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

Servicejusteringer med terminal skal være foretaget.

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

- Indstil lys og farvemætning til nominelle værdier, **RESET**
- Indstil kontrast til maksimum

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

4,43 MHz cromasug

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

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

'Phase'

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

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

Cut-off

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

Mål med et DC-voltmeter ($R_i > 1\text{M}\Omega$) spændingsfaldet over 3R1, 3R2 og 3R3.

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

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

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

- Slut oscilloskop til indgangen på 1BP1, koordinat 1B ($x = 1\mu\text{s}$).
- Tilslut antennesignal med lyd (AFC = 0 i tuningsmenu)

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

ADJUSTMENT INSTRUCTIONS

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

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

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

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

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

4.43 MHz chroma separation filter

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

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

Phase

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

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

Cut-off

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

Measure the voltage drop across 3R1, 3R2 and 3R3 by means of a DC voltmeter ($R_i > 1\text{M}\Omega$).

Adjust by means of the G2 potentiometer (module 3) until there is a voltage of 20V across that resistor (3R1, 3R2 or 3R3) which has the smallest voltage drop.

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

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

- Connect oscilloscope to the input of 1BP1, coordinate 1B ($x = 1\mu\text{s}$).
- Connect aerial signal with sound (AFC = 0 in tuning menu).

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

Sound carrier 33,4 MHz

Justeres kun hvis 1IC6 TDA8120 udskiftes.

- Slut oscilloskop til indgangen på 1BP1, koordinat 1B ($x = 1\mu s$)

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

Video carrier 38,9 MHz

Justeres kun hvis 1IC6 TDA8120 udskiftes.

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

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

Stop tuning

Justeres kun hvis 1IC1, koordinat 2A udskiftes

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

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

AGC System B/G/L

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

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

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

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

Alternativ AGC-justering, system B/G/L

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

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

Sound carrier 33.4 MHz

Only to be adjusted if 1IC6 TDA8120 is replaced.

- Connect oscilloscope to the input of 1BP1, coordinate 1B ($x = 1\mu s$).

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

Video carrier 38.9 MHz

Only to be adjusted if 1IC6 TDA8120 is replaced.

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

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

Stop tuning

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

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

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

AGC System B/G/L

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

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

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

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

Alternative AGC adjustment, system B/G/L

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

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

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

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

Kanaladskillelse

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

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

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

NICAM system B/G og I

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

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

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

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

Channel separation

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

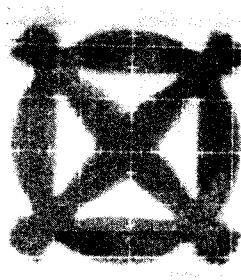
- Connect oscilloscope to 1IC7, pin 12, coordinate 1C.

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

NICAM system B/G and I

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

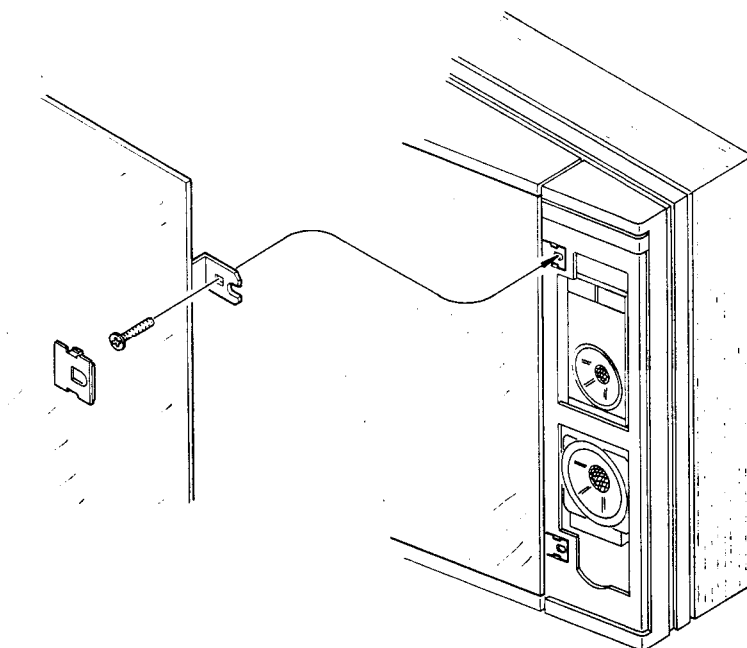
Adjust by means of 8C34, coordinate 1B, (VCO frequency 5.85 MHz for system B/G or 6.552 MHz for system I). Adjust until the oscilloscope picture shown below has been achieved.



$x = y = 0,2 \text{ V/DIV}$

ADSKILLELSE
LX4500/5500

DISASSEMBLY
LX4500/5500



Kontrastskærm

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

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

Skruerne som holder skærmen er nu tilgængelige.

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

Hold godt fast på skærmen medens den sidste skrue fjernes.

Contrast screen

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

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

The screws which hold the screen are now accessible.

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

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

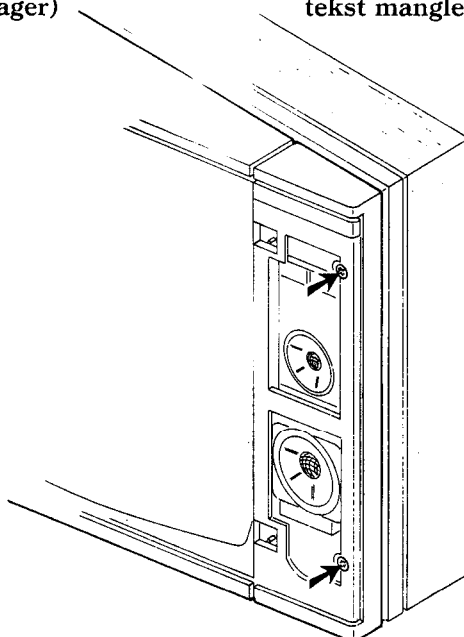
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Frontramme

(Adgang til IR sender/modtager)

Front frame

tekst mangler



Kontrastskærmen afmonteres.

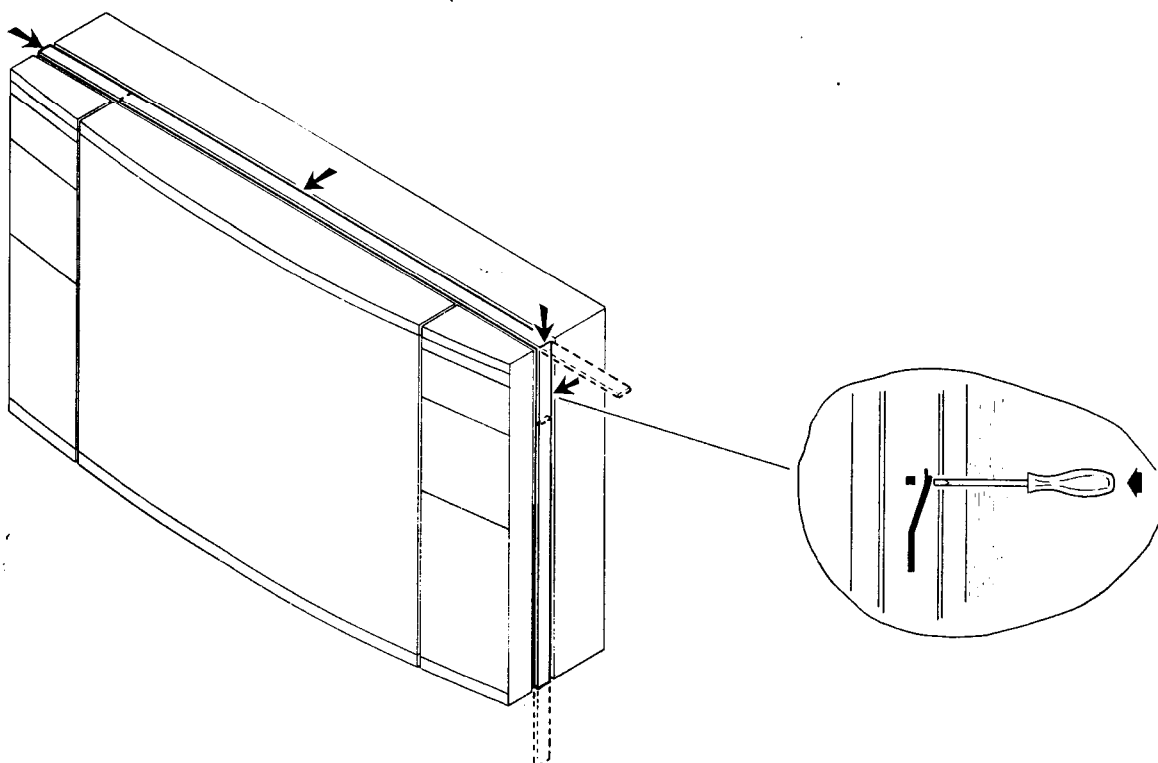
Remove the contrast screen.

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

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

Topliste/Sideliste

Top list/Side list



Sidelisterne løsnes ved at udløse låsen med en smal skruetrækker.

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

Når låsen er udløst kan sidelisten skubbes ned.

Now the side list may be pushed down.

Toplisten løsnes som sidelisterne.

Loosen top list like the side lists.

Toplisten skubbes mod højre.

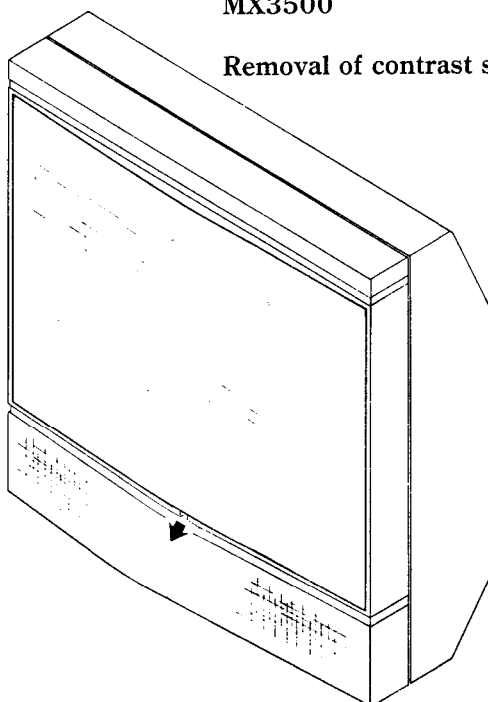
Push top list towards the right.

ADSKILLELSE
MX3500

Demontering af kontrastskærmen

DISASSEMBLY
MX3500

Removal of contrast screen



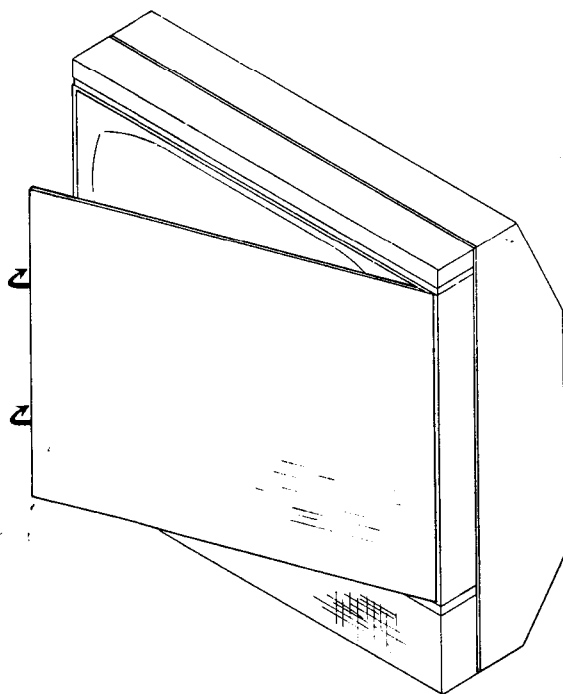
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Træk ud i kontrastskærmens nederste kant.

Pull the lower edge of the contrast screen outwards.

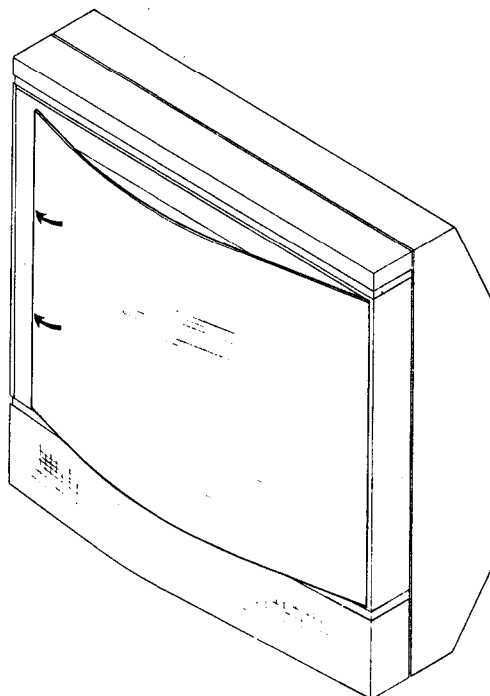
Montering af kontrastskærmen

Mounting of contrast screen



Monter skærmen i rillen af det ene sidepanel.

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

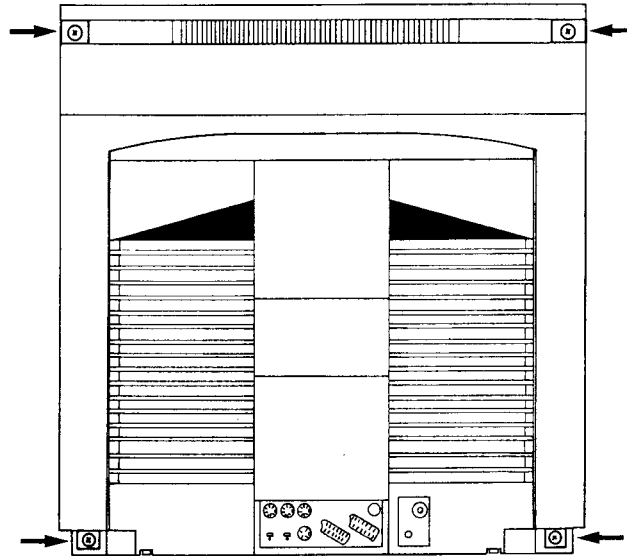


Fit the screen into the groove in one of the side panels.

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

Bagpart

Rear part



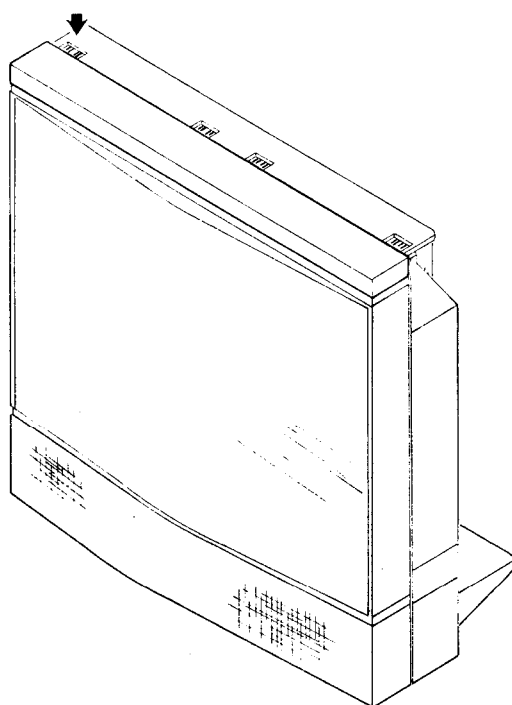
De fire skruer løsnes, og bagparten trækkes lige bagud.

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

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Toppanel

Top panel



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

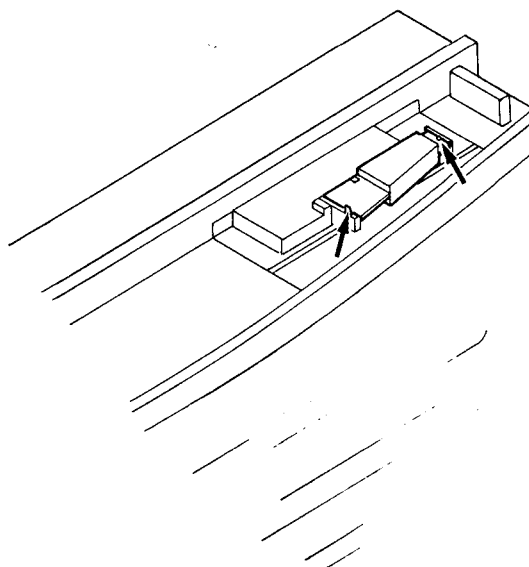
Loosen the panel in one side by releasing the lock with a screwdriver.

Toppanelet kan nu fjernes.

The top panel can now be removed.

PCB 09 IR-modtager

PCB 09 IR-receiver

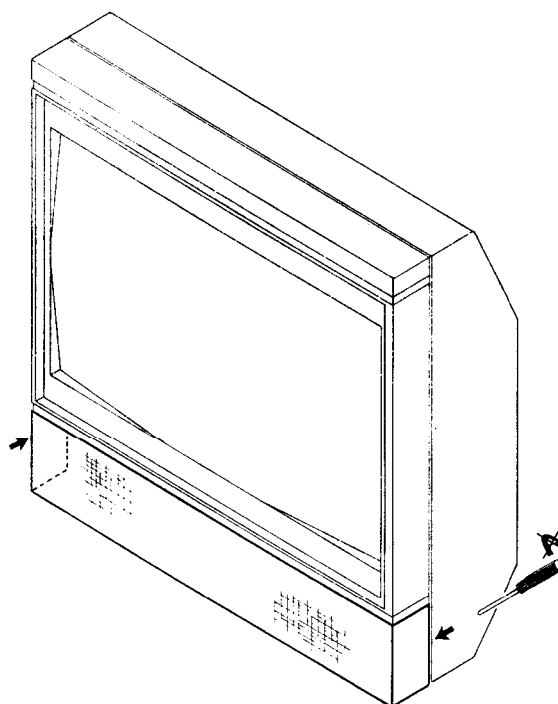


De to låse løsnes og PCB'en tages ud, ved at løfte i den forreste kant.

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

Højtalerpanel

Loudspeaker panel



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

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

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

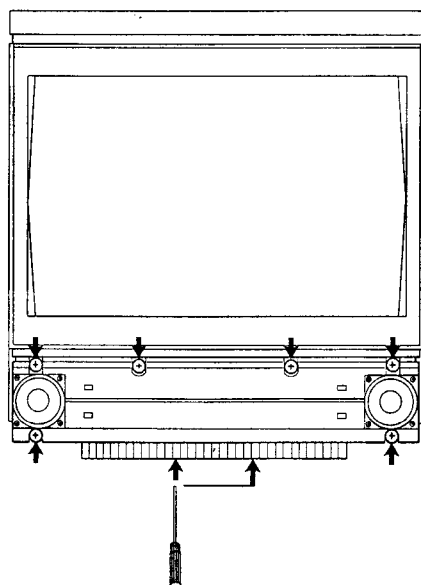
Carefully insert a screwdriver between the loudspeaker panel and the cabinet in the right-hand side of the set.

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.

Højtalerbaffel

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.

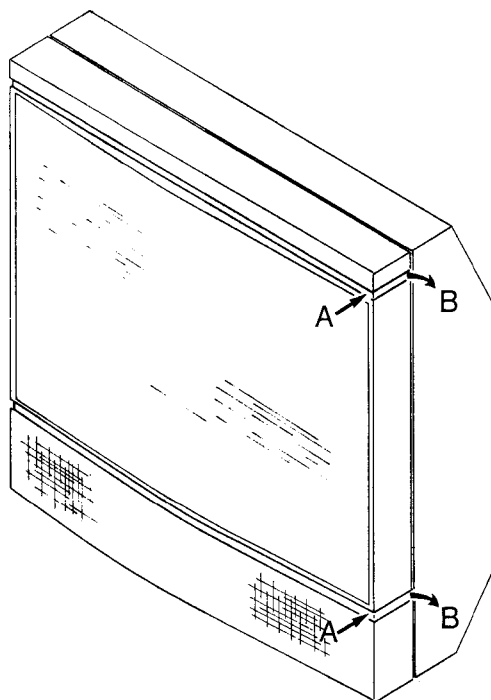
Loosen the loudspeaker baffle by using a screwdriver to release the 2 locks at the base of the set. Then pull the baffle outwards and upwards.

ADSKILLELSE
MX5500

DISASSEMBLY
MX5500

Demontering af kontrastskærmen

Removal of contrast screen



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

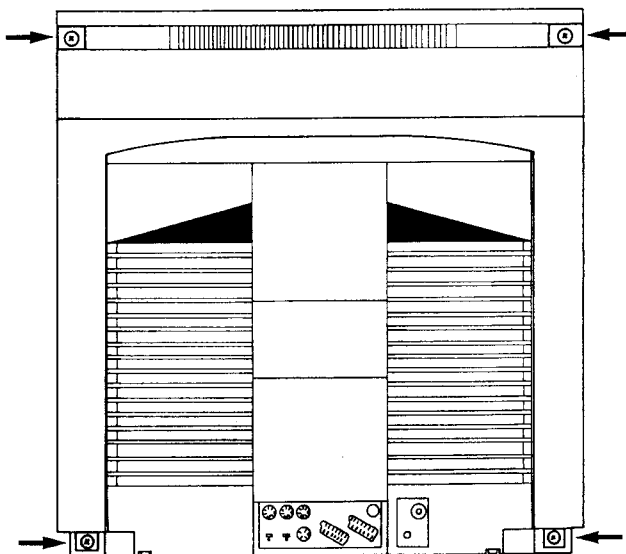
Loosen the upper and lower plastic strips by firmly pressing the strips in one side (A) and simultaneously pulling at the end of the strips in the direction of the arrow B. The strips are now loose and can be removed.

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

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

Bagpart

Rear part



De fire skruer løsnes, og bagparten trækkes lige bagud.

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

Toppanel

Top panel



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

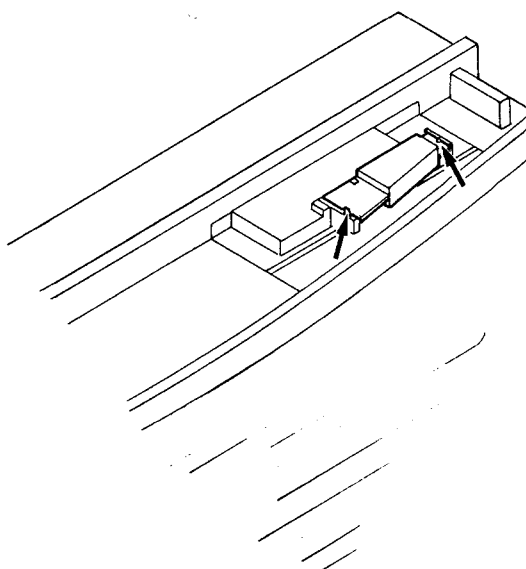
Loosen the panel in one side by releasing the lock with a screwdriver.

Toppanelet kan nu fjernes.

The top panel can now be removed.

PCB 09 IR-modtager

PCB 09 IR-receiver

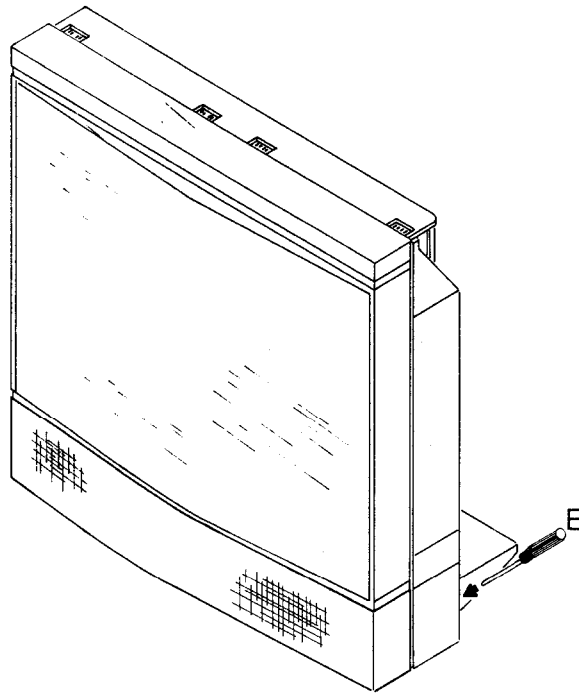


De to låse løsnes og PCB'en tages ud, ved at løfte i den forreste kant.

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

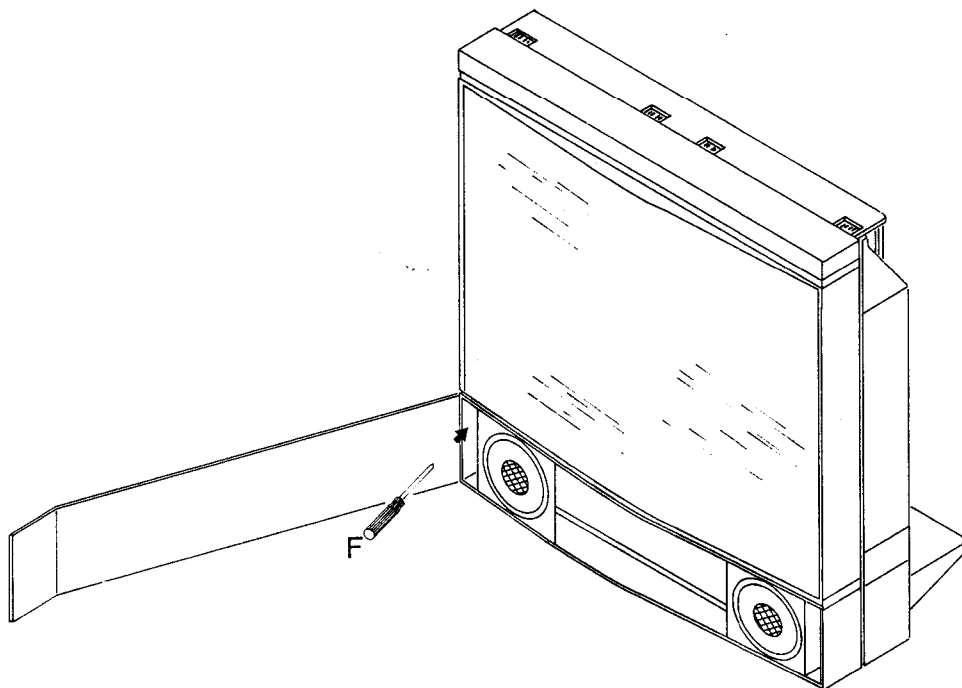
Højttalerpanel

Loudspeaker panel



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

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



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

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

REPARATIONSTIPS

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

Flg. tre fejltypen overvåges:

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

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

Kredsløbet fungerer ved, at μ P 6IC13 sender en pulserende spænding ud på ben 10. Hvis der ikke er fejl, modtager μ P'en signalet igen på ben 13. Hvis der opstår en overbelastning, 'clamber' den overbelastede forsyning signalet, og der kommer ikke noget retur til ben 13.

Det samme signal styrer desuden netdelen ON via 4C61, 4R72 og 4TR35. Hvis der opstår en fejl i μ P, så den ikke længere udsender den pulserende spænding, går netdelen automatisk i stand-by.

IIC-bus fejlsystemet er en del af softwaren, der registrerer kommunikationsfejl mellem μ P'en og de komponenter, der styres via IIC-bussen. Hvis der opstår en sådan fejl, bringer μ P'en apparatet i stand-by.

Hvis der opstår fejl i NV-RAM (6IC5), så det ikke er muligt at overføre apparatets grundindstillinger til afbøjningsdelen og farvedelen, erstatter μ P'en de manglende data med standardværdier, der er gemt i programlageret. Apparatet skriver »DATA FAILURE« i statuslinien, hver gang der tændes, indtil fejlen er udbedret.

REPAIR TIPS

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

The following three types of error are monitored:

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

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

The circuit operates in that the μ P 6IC13 outputs a pulsating voltage at pin 10. If there are no errors, the μ P receives the signal back at pin 13. If an overload condition occurs, the overloaded supply clamps the signal, and no signal is returned to pin 13.

The same signal furthermore switches the power-supply unit ON through 4C61, 4R72 and 4TR35. If an error occurs in the μ P such that it no longer outputs the pulsating voltage, the power-supply unit automatically goes into stand-by.

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

If an error occurs in the NV-RAM (6IC5) such that it is not possible to transfer the basic settings of the set to the deflection section and the colour section, the μ P replaces the missing data with standard values stored in the program memory. The set writes "DATA FAILURE" in the status line every time it is switched on until the defect has been repaired.

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

Tryk på stand-by på apparatet



Tryk ☐ TV på Beolink 1000 terminalen.



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

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



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

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



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

Fejlfinding ved IIC-bus fejl

Kortslut servicestikket og tast ☐ TV.

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

I SERVICEMODE menuen vælges ERROR MESSAGE og skærbilledet LAST ERROR viser en af flg. tekster:

| | |
|---------------|---|
| (no error) | Ingen fejl er registreret |
| POWERFAIL: | Apparatet blev bragt i stand-by pga. en 'power-fail'. |
| DATA FAILURE: | Datafejl under skrivning/læsning til/fra NV-RAM (6IC5). |
| IIC ADDRESS | 22 6IC8, TEXT IC |
| | 40 8IC3, NICAM PORT EXPANDER |
| | 42 2IC5, DAC TIL CUTOFF OG DRIVE |
| | 80 5IC1, SOUND CONTROLLER |
| | 84 1IC7, A-2 STEREO-DEKODER |
| | 8C 10IC5, GEOMETRY CONTROLLER |
| | C0 1IC4, TUNING CITAC |
| | 44 12IC10 PIP SWITCH |
| | 2e 12IC9 PIP IC |

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

Press the stand-by button on the set



Press ☐ TV on the Beolink 1000 terminal



Does the TV switch on? → Yes: Does the status line read "DATA FAILURE"?
No Yes: An error has been registered in the NV-RAM
No: There is a periodic error. Actuate SERVICE MODE and look under ERROR MESSAGE



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

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



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

Fault-finding in connection with IIC bus errors

Short-circuit the service plug and press ☐ TV.

The set switches on, and IIC bus errors are ignored. The error can be isolated on the basis of the error symptoms. To this end the set can be brought into SERVICE MODE by first removing the short circuit in the service plug and then short-circuiting it again briefly.

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

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

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

Fejlfinding ved 'power-fail'

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

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

Der er registreret en 'power-fail'.

Under resten af fejlsøgningen skal servicestikket være kortslettet.

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

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

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

Fault-finding in connection with "power fail"

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

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

A "power fail" condition has been registered.

During the remainder of the fault-finding operation the service plug must be short-circuited.

Afmonter 8P804 (kun hvis NICAM er monteret).
Tryk på stand-by på apparatet.

Tast



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



Tryk på stand-by på apparatet.
Tast (= audio mode)



Stand-by Nej →

Ja



Monter adaptor 1 i serie med kablet til 5P57.
Tryk på stand-by på apparatet.

Tast



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



Monter adaptor 3 i serie med kablet til 10P15.
Tryk på stand-by på apparatet.

Tast .



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



Monter adaptor 4 i serie med 6P71. Mellemlæddet
mrk. MODUL 4 monteres i serie med stik 4P81.
Tryk på stand-by på apparatet.

Tast .



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



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

Dismount 8P804 (only if NICAM is installed).
Press the stand-by button on the set.

Press



Stand-by No → Check the supplies on module 08
Yes



Press the stand-by button on the set
Press (= audio mode)



Stand-by No →

Yes



Mount adapter 1 in series with the cable to 5P57.
Press the stand-by button on the set.

Press



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



Mount adapter 3 in series with the cable to 10P15.
Press the stand-by button on the set.

Press .



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



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

Press the stand-by button on the set.

Press .



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



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

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

Tryk på stand-by på apparatet.

Tast ☐ TV.



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



Monter adaptor 2 i serie med kablet til 10P12.

Tryk på stand-by på apparatet.

Tast ☐ TV.



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



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

☐ A Dismount 10P31 (only if PIP is installed)

Press the stand-by button on the set.

Press ☐ TV.



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



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

Press the stand-by button on the set.

Press ☐ TV.



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



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

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

ISOLATIONSTEST

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

Isolationstesten udføres på følgende måde:

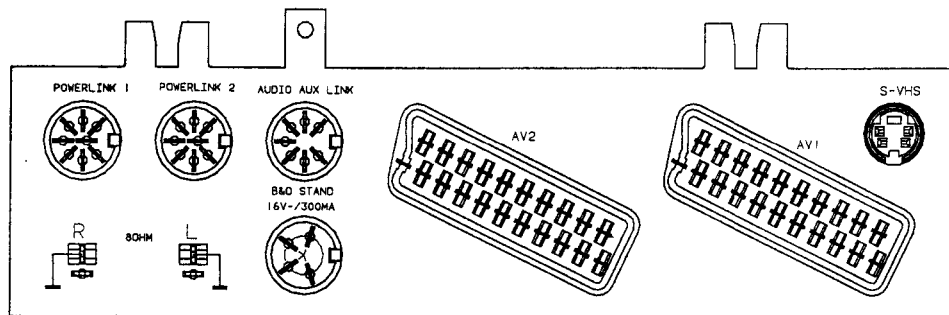
De to stikben på netstikket kortsluttes og tilsluttes en af terminalerne på isolationstesteren. Den anden terminal fra isolationstesteren tilsluttes stelbenet i en af højttalerstikdåserne.

INSULATION TEST

Each set *must* be insulation tested after it has been dismantled. The test is to be carried out when the set has been re-assembled and is ready for delivery to the customer.

The insulation test is carried out in the following way:

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



OBS!

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

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

Der må ikke på noget tidspunkt under testen forekomme overslag.

NOTE!

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

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

Flashovers are not permitted during the testing procedure.

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Picture-in-picture

Type 4120 (LX)
4121 (MX)

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DIAGRAM Picture-In-Picture

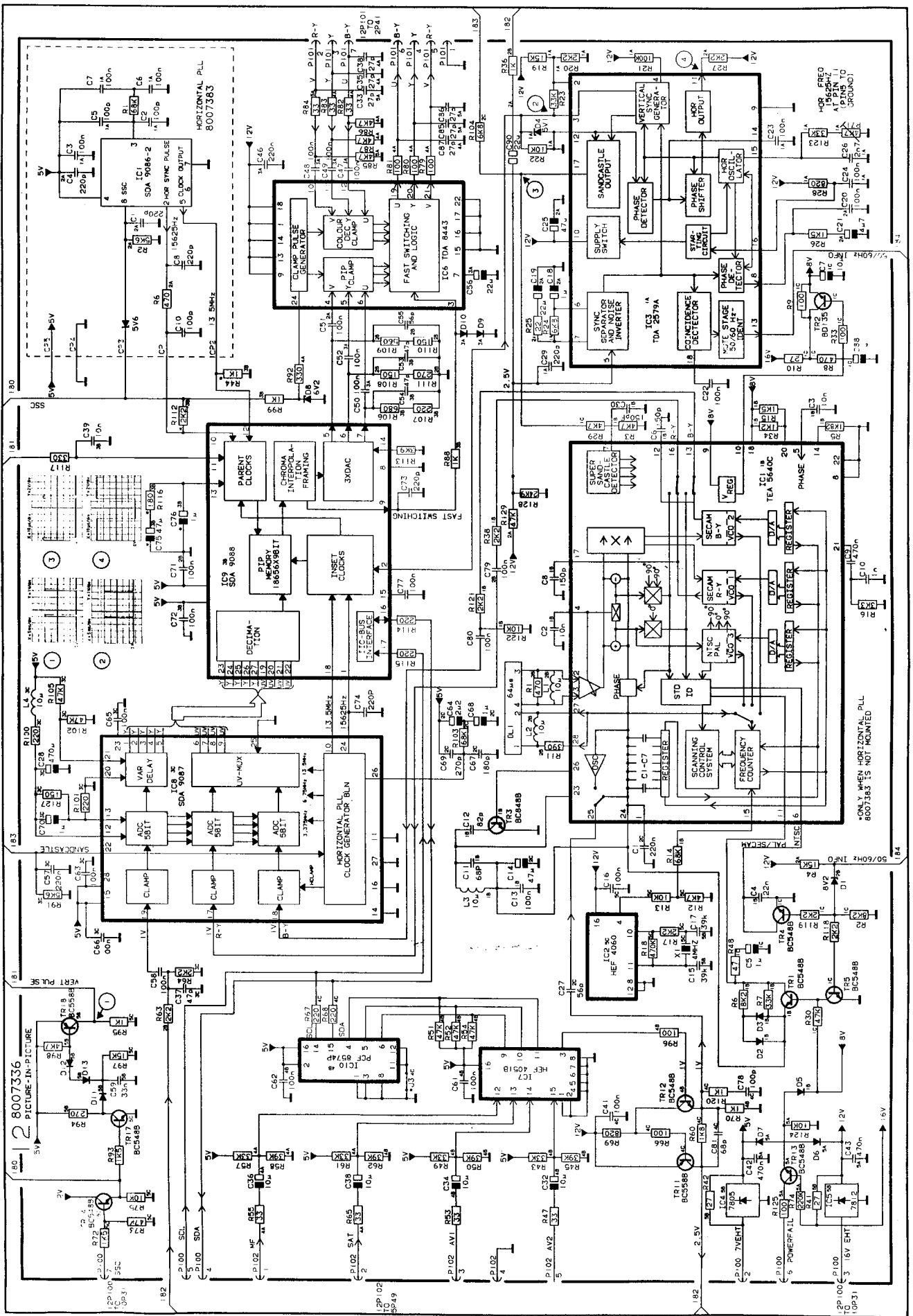
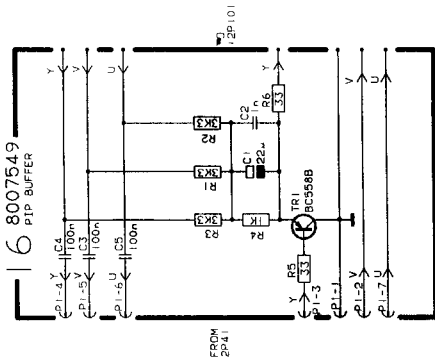
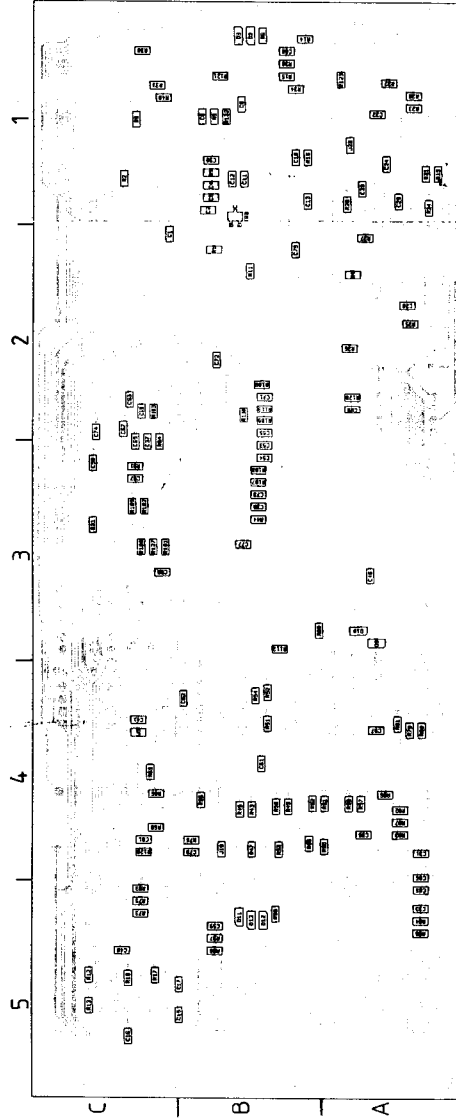


DIAGRAM PIP Buffer



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PCB 12



LIST OF ELECTRICAL PARTS

PCB 12, 8007336
Picture in Picture

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

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

| | | | | | | | |
|------|---------|-----|----------|-------|---------|-----|----------|
| IC1Δ | 8341191 | 125 | TEA5640C | IC6Δ | 8341363 | 113 | TD48443A |
| IC2Δ | 8341230 | 101 | 4060 | IC7Δ | 8341440 | 101 | 4051 |
| IC3Δ | 8341131 | 111 | TD42579A | IC8Δ | 8341442 | 136 | SDA9087 |
| IC4 | 8340065 | 105 | 7805 | IC9Δ | 8341443 | 136 | SDA9088 |
| IC5 | 8340049 | 105 | 7812 | IC10Δ | 8341158 | 101 | PCF8574P |
| TR1 | 8320509 | 20 | BC548B | TR11 | 8320510 | 20 | BC558B |
| TR2 | 8320317 | 32 | BD135 | TR12- | 8320509 | 20 | BC548B |
| TR3 | 8320615 | 51 | BC348B | TR14 | 8320509 | 20 | BC548B |
| TR4- | 8320509 | 20 | BC548B | TR17 | 8320510 | 20 | BC558B |
| TR5 | | | | TR18 | 8320510 | 20 | BC558B |

| | | | | | | | |
|-----|---------|-----|--------------|-----|---------|-----|--------------|
| D1 | 8300173 | 209 | 8.2V 5% 0.4W | D7 | | | |
| D2- | 8300482 | 250 | 4148 | D8 | 8300201 | 209 | 6.2V 5% 0.4W |
| D3 | | | | D9- | 8300482 | 250 | LL4148 |
| D4 | 8300169 | 209 | 5.1V 5% 0.5W | D13 | | | |
| D5- | 8300058 | 209 | IN4148 | | | | |

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

| | | | | | |
|------|---------|-------------------|------|---------|-------------------|
| C1 | 4000287 | 220nF -20+80% 25V | C36 | 4200510 | 10μF 20% 16V |
| C2- | 4010157 | 10nF 10% 50V | C37 | 4000234 | 47pF 5% 50V |
| C3 | | | C38 | 4200510 | 10μF 20% 16V |
| C4 | 4000290 | 22nF 10% 50V | C39 | 4010157 | 10nF 10% 50V |
| C5 | 4200512 | 1μF 20% 50V | C41 | 4010166 | 100nF -20+80% 50V |
| C6 | 4000229 | 150pF 5% 50V | C42- | 4130313 | 470nF 20% 63V |
| C7 | 4200510 | 10μF 20% 16V | C43 | | |
| C8 | 4000229 | 150pF 5% 50V | C46 | 4000287 | 220nF -20+80% 25V |
| C9 | 4130313 | 470nF 20% 63V | C47- | 4130230 | 100nF 20% 63V |
| C10 | 4000345 | 1nF 5% 50V | C52 | | |
| C11 | 4000280 | 68pF 5% 50V | C53- | 4000234 | 47pF 5% 50V |
| C12 | 4000281 | 82pF 5% 50V | C54 | | |
| C13 | 4010166 | 100nF -20+80% 50V | C55 | 4000240 | 56pF 5% 50V |
| C14 | 4200516 | 47μF 20% 16V | C56 | 4200544 | 22μF 20% 16V |
| C15 | 4000279 | 39pF 5% 50V | C57 | 4000233 | 220pF 5% 50V |
| C16 | 4010166 | 100nF -20+80% 50V | C58 | 4010166 | 100nF -20+80% 50V |
| C17 | 4000279 | 39pF 5% 50V | C59 | 4010175 | 33nF 10% 50V |
| C18 | 4200512 | 1μF 20% 50V | C61- | 4010166 | 100nF -20+80% 50V |
| C19 | 4200508 | 22μF 20% 25V | C63 | | |
| C20 | 4010166 | 100nF -20+80% 50V | C64 | 4200517 | 2.2μF 20% 50V |
| C21 | 4200515 | 4.7μF 20% 25V | C65- | 4010166 | 100nF -20+80% 50V |
| C22- | 4010166 | 100nF -20+80% 50V | C66 | | |
| C24 | | | C67 | 4000282 | 180pF 5% 50V |
| C25 | 4200516 | 47μF 20% 16V | C68 | 4200512 | 1μF 20% 50V |
| C26 | 4100308 | 2nF 5% 63V | C69 | 4000283 | 270pF 5% 50V |
| C27 | 4000155 | 56pF 5% 63V | C70 | 4200512 | 1μF 20% 50V |
| C28 | 4200831 | 470μF 20% 10V | C71- | 4010166 | 100nF -20+80% 50V |
| C29 | 4000233 | 220pF 5% 50V | C72 | | |
| C30 | 4000229 | 150pF 5% 50V | C73- | 4000233 | 220pF 5% 50V |
| C31 | 4000278 | 27pF 5% 50V | C74 | | |
| C32 | 4200510 | 10μF 20% 16V | C77 | 4010166 | 100nF -20+80% 50V |
| C33 | 4000278 | 27pF 5% 50V | C78 | 4000241 | 100pF 5% 50V |
| C34 | 4200510 | 10μF 20% 16V | C79- | 4010166 | 100nF -20+80% 50V |
| C35 | 4000278 | 27pF 5% 50V | C80 | | |

8007290
Horizontal PLL

8007549
Buffer

LIST OF MECHANICAL PARTS

L/LX 4500/5500

MX 3500/5500

| | | | | | |
|-------|---------|-----------------|------|---------|---------------|
| C81 | 4000231 | 68pF 5% 50V | C88 | 4200512 | 1μF 20% 50V |
| C85- | 4000278 | 27pF 5% 50V | C90 | 4200784 | 22μF 20% 16V |
| C87 | | | | | |
| L1 | 8020608 | Coil 10uH 5% | L3 | 8020830 | Coil 10uH |
| L2 | 8020752 | Coil 10uH | L4 | 8020608 | Coil 10uH 5% |
| P100- | 7220714 | Plug 7pol | P102 | 7220712 | Plug 5pol |
| P101 | | | | | |
| DL1 | 8240012 | Delay line 64μs | | | |
| X1 | 8090000 | Crystal 4MHz | | | |
| IC1 | 8341646 | 109 SDA 9086-2 | | | |
| C1 | 4010155 | 220pF 10% 50V | C7 | | |
| C2 | 4000281 | 82pF 5% 50V | C8- | 4010155 | 220pF 10% 50V |
| C3 | 4130230 | 100nF 20% 63V | C9 | | |
| C5 | 4000243 | 100pF 5% 50V | C10 | 4000204 | 100pF 5% 63V |
| C6- | 4130224 | 100nF 10% 63V | | | |
| CP1- | 7220564 | Plug 1pol | | | |
| CP5 | | | | | |
| TR1 | 8320510 | 20 BC558B | | | |
| C1 | 4200544 | 22μF 20% 16V | C3- | 4130230 | 100nF 20% 63V |
| C2 | 4010105 | 1nF 10% 50V | C5 | | |

| | |
|---------|----------------------------|
| 3152722 | Holder |
| 2938276 | Bushing, only LX 5500 |
| 2015108 | Screw 3.5x16, only LX 4500 |
| 2015138 | Screw 3.5x30, only LX 5500 |
| 6276222 | Wire bundle L/LX 4500/5500 |
| 3:52178 | Cable holder |

| | |
|---------|--------------------------|
| 3152739 | Holder MX 3500/5500 |
| 6276221 | Wire bundle MX 3500/5500 |

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