

# Service Service Service

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15 300 A11

# Service Manual

## VIDEOPAC COMPUTER

(GB)

### SPECIFICATION

UHF channel	32 (559,25 MHz)
Aerial impedance	75 Ω
Mains voltage	220 V~
Mains voltage (British version)	240 V~
Supply voltage	10 V d.c./1.1A
Number of IC's (without game cartridge)	32
Number of transistors	3
Number of diodes	8

(D)

### TECHNISCHE DATEN

UHF-Kanal	32 (559,25 MHz)
Antennenimpedanz	75 Ω
Netzspannung	220 V~
Netzspannung (englische Ausführung)	240 V~
Speisespannung	10 V d.c./1.1A
Anzahl der IC's (ausschliesslich der Spielcassette)	32
Anzahl der Transistoren	3
Anzahl der Dioden	8

(I)

### DATI TECNICI

Canale UHF
Impedenza d'antenna
Tensione di rete
Tensione di rete (versione Inglese)
Tensione di alimentazione
Numero di CI (escluse le cassette dei giochi)
Numero dei transistors
Numero dei diodi

(NL)

### SPECIFICATIE

UHF-kanaal	32 (559,25 MHz)
Antenne-impedantie	75 Ω
Netspanning	220 V~
Netspanning (Britse versie)	240 V~
Voedingsspanning	10 V d.c./1.1A
Aantal IC's (exclusief de spelcassette)	32
Aantal transistoren	3
Aantal diodes	8

(F)

### CARACTERISTIQUES TECHNIQUES

Canal UHF	32 (559,25 MHz)
Impédance d'antenne	75 Ω
Tension secteur	220 V~
Tension secteur (version pour GB)	240 V~
Tension d'alimentation	10 V d.c./1.1A
Nombre d'IC (sans cassette jeux)	32
Nombre de transistors	3
Nombre de diodes	8

(S)

### SPECIFICATION

UHF-kanal
Antenneimpedans
Nätspänning
Nätspänning (Engelsk version)
Matningsspänning
Antal IC (utom spelkassetter)



GB

## ADJUSTMENTS

### Clock frequency

- Connect a frequency counter to 6IC678.
- Adjust C777 for a frequency of 4,433619 MHz.

### Modulation depth

- Adjust R748 for optimal picture and sound quality.

### UHF-adjustment

- The G7000 is adjusted during production to channel 32.
- The UHF-adjustment can be varied from channel 31 to channel 33 by L650.
- The other coils of U100 must remain unchanged.

D

## EINSTELLUNGEN

### Taktfrequenz

- Einem Frequenzzähler an 6IC678 anschliessen.
- C777 auf eine Frequenz von 4,433619 MHz abgleichen.

### Modulationstiefe

- R748 für optimale Bild- und Tonqualität einstellen.

### UHF-Abstimmung

- Während der Fertigung wird G7000 auf Kanal 32 eingestellt.
- Mit L650 kann die UHF-Abstimmung von Kanal 31 bis Kanal 33 variiert werden.
- Die übrigen Spulen von U100 müssen nicht geändert werden.

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## REGOLAZIONI

### Frequenza di clock

- Collegare un frequenzimetro sul 6IC678.
- Regolare per una frequenza di 4,433619 MHz

### Profondità di modulazione

- Regolare R748 per ottenere l'ottimale di qualità audio e video.

### Regolazione dell'uscita UHF

- Il G7000 è regolato in fabbrica sul canale 32.
- E' possibile variare il canale di uscita su 31 o 33 con L650
- Le altre bobine comprese en U100 non devono essere toccate.

NL

## INSTELLINGEN

### Klokfrequentie

- Sluit een frequentieteller aan op 6IC678.
- Regel C777 af op een frequentie van 4,433619 MHz.

### Modulatediepte

- Stel R748 in voor optimale beeld en geluidskwaliteit.

### UHF-afstemming

- Tijdens de productie wordt de G7000 ingesteld op kanaal 32.
- Met L650 kan de UHF-afstemming gevarieerd worden van kanaal 31 tot kanaal 33.
- De andere spoelen van U100 moeten ongewijzigd blijven.

F

## AJUSTAGES

### Fréquence d'horloge

- Relier un fréquencemètre au 6IC678
- Réglér C777 à une fréquence de 4,433619 MHz

### Profondeur de modulation

- Aligner R748 pour l'obtention d'une qualité d'image et de son optimale.

### Alignement UHF

- En cours de fabrication, le G7000 est ajusté sur le canal 32.
- L'ajustement UHF peut être modifié du canal 31 au canal 33 par L650.
- Les autres bobines de U100 ne doivent pas être changées.

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## JUSTERINGAR

### Klockfrekvens

- Anslut en frekvensräknare till 6IC678.
- Justera C777 till en frekvens av 4,433619 MHz.

### Modulationsdjup

- Justera R748 till optimal bild och ljudkvalitet.

### UHF-inställning

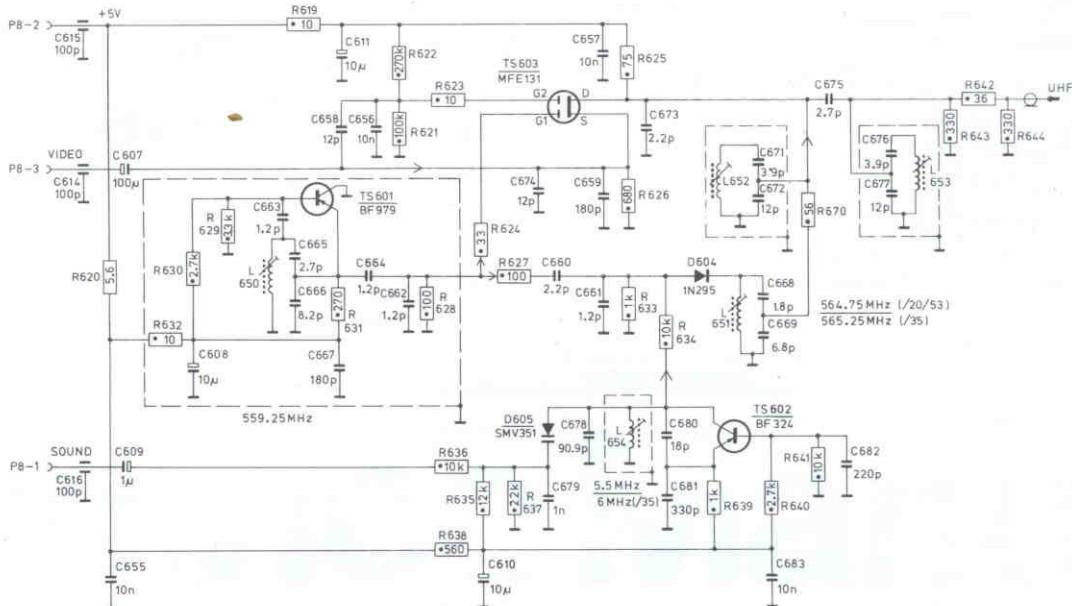
- G7000 är fabriksinställd till kanal 32.
- UHF-inställningen kan varieras från kanal 31 till kanal 33 med L650.
- De andra spolarna i U100 får ej ändras.

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C	615.614	607.609	608	663.658.665.611.656.664.652	674.660.661.657.659	673	672.671	670.675	676.677
C	616	655		665.667	610	679.678	680.681	668.669.663	682



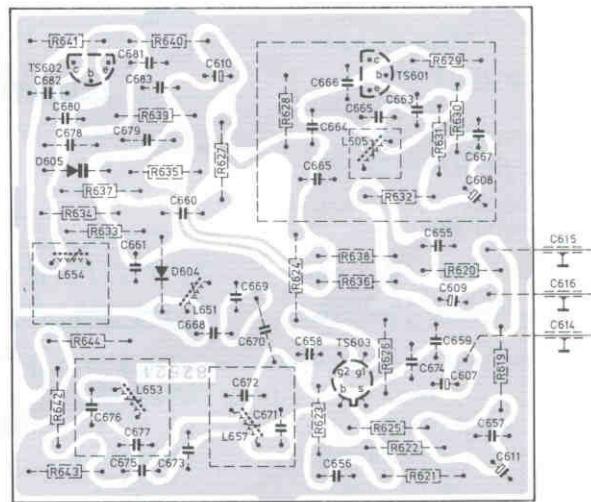
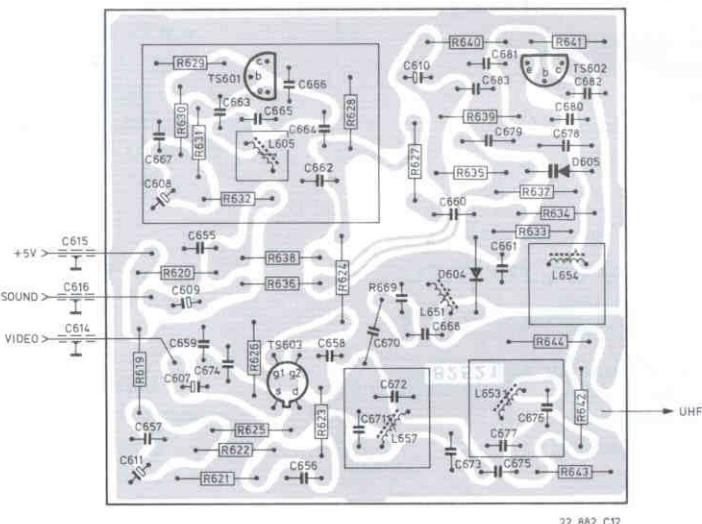
D-L-TS	L650	TS601	TS603, D605	L654	D604, L651, TS602, L652	L653
R	620	630.632	629	619	631	622.621.623.628.624.627

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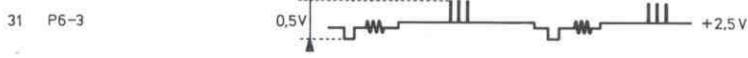
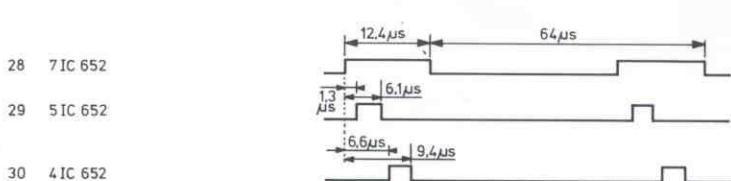
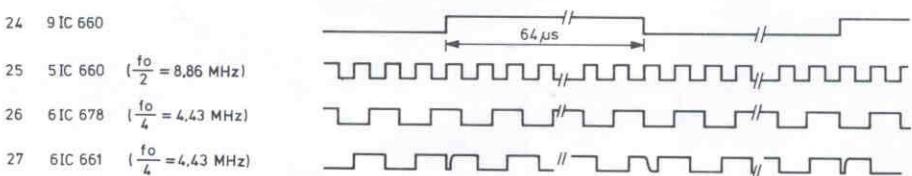
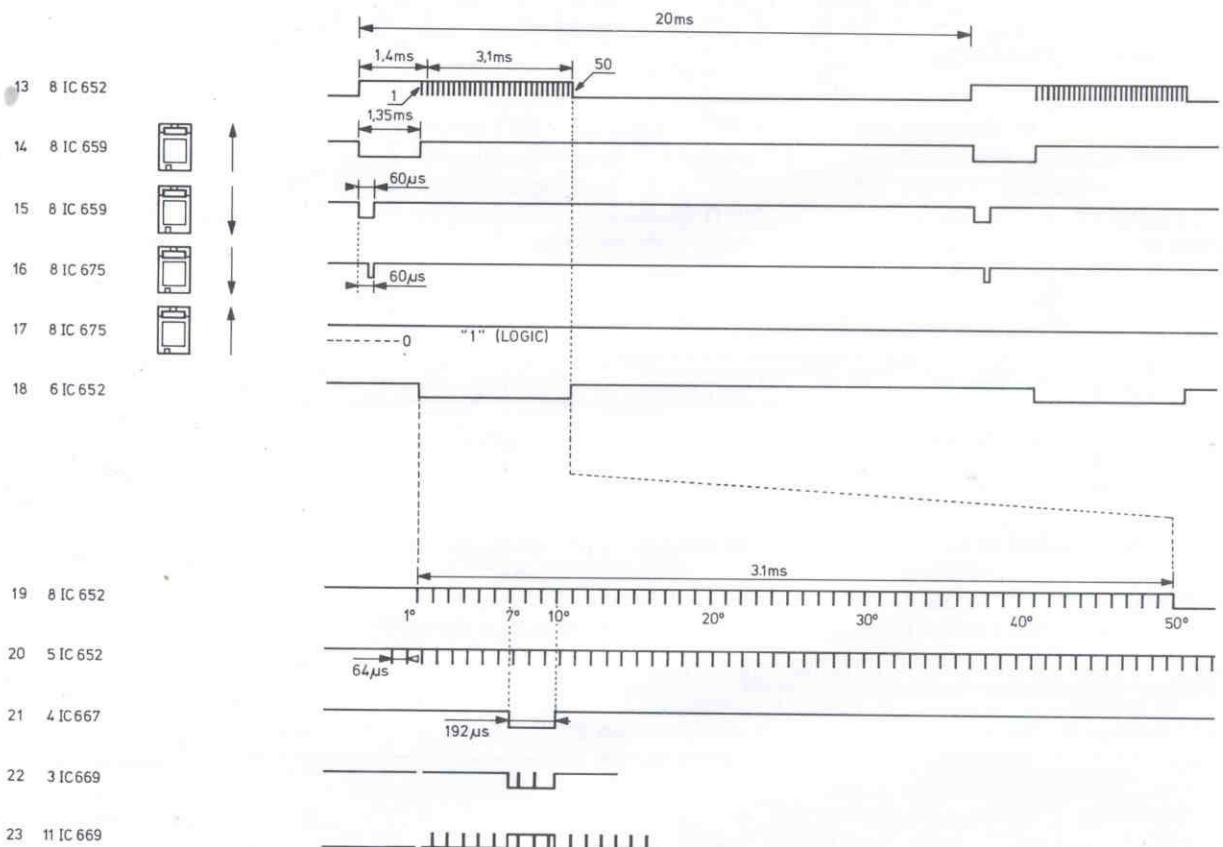
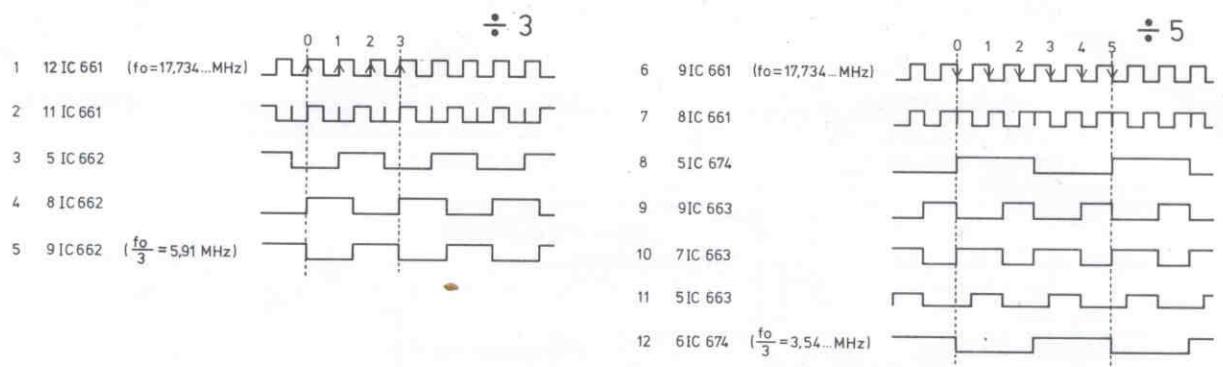
MISC.	TS601	L650, TS603	L657	L651, D604, L653	L654, D605	MISC.
C	611.667.657.607+609.659.655.674.662+666.656.658.669-672.610.668.660.673.675-683					C
R	619+622.629-632.626.625.638.636.623.624.628	622.621.623.628.624.627	631	625.626.633.634	639	640

MISC.	D605, L654	L653, D604, L651	L657	TS603, L605	TS601	MISC.
C	675+683.673.660.668.610.669-672.658.656.662+666.674.655.659.607-609.657.657.611					C
R	641+644.637.639.633-635.640	627	628.624.623.635.638.625.626.629-632.619-622	640	641	642.644



22 882 C12

22 883 C12



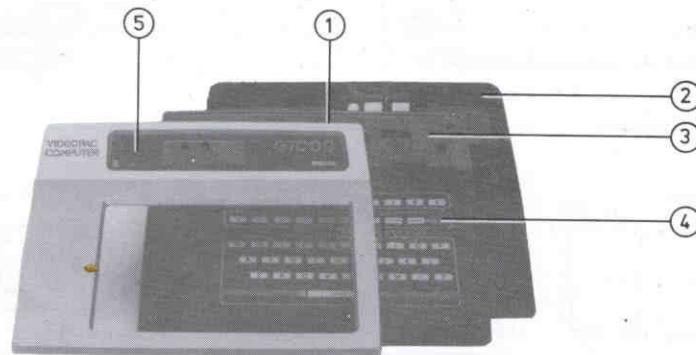
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	D1	1N4001	5322 130 30197		IC651	8048	4822 209 50002
	D2	1N4001	5322 130 30197		IC652	8245	4822 209 80449
	D3	1N4001	5322 130 30197		IC653	6810	4822 209 50003
	D4	1N4001	5322 130 30197		IC654	74LS168	4822 209 80452
	D604	1N295	4822 130 31426		IC655	74LS175	5322 209 84999
	D605	SMV351	4822 130 31427		IC656	74LS175	5322 209 84999
	D687	1N4148	4822 130 30621		IC657	74LS156	4822 209 80446
	D688	OA90	4822 130 30219		IC658	74LS365	4822 209 80453
	D689	1N4148	4822 130 30621		IC659	74LS74	4822 209 80782
					IC660	74LS74	4822 209 80782
	TS601	BF979	4822 130 41613		IC661	74S86	5322 209 85452
	TS601	BF324	4822 130 41448		IC662	74S74	5322 209 84183
	TS603	MFE131	4822 130 41614		IC663	74S112	5322 209 84237
	C607	100 µF - 10 V	4822 124 20679		IC664	74LS393	4822 209 80447
	C608	10 µF - 25 V	4822 124 20697		IC665	74LS138	5322 209 85647
	C609	1 µF - 63 V	4822 124 20722		IC666	74LS138	5322 209 85346
	C610	10 µF - 25 V	4822 124 20697		IC667	74LS279	5322 209 84823
	C611	10 µF - 25 V	4822 124 20697		IC668	74LS00	5322 209 84823
	C777	3 - 10 pF	4822 125 50135		IC669	74LS00	5322 209 85311
	C779	1 µF	4822 124 20722		IC670	74LS32	5322 209 85569
	C782	10 µF - 25 V	4822 124 20697		IC671	74LS04	4822 209 80783
	C783	1 µF - 63 V	4822 124 20722		IC672	74LS368	4822 209 80448
	C812	1 µF - 63 V	4822 124 20722		IC673	74S112	5322 209 84237
	C816	15 µF - 40 V	4822 124 20709		IC674	74S20	5322 209 85312
	C850	10 µF - 25 V	4822 124 20697		IC675	74LS02	4822 209 80453
	C853	10 µF - 25 V	4822 124 20697		IC676	74LS365	5322 209 84183
	C871	47 µF - 25 V	4822 124 20699		IC677	74S74	4822 209 80451
	C876	4700 µF - 25 V	4822 124 70316		IC678	74S04	5322 209 85486
	R748	470 Ω	4822 100 10038		IC679	L7805CV	4822 209 80817
	L695		4822 158 20381		IC680	L7805CV	4822 209 80817
	X693	17,73... MHz	4822 242 70276				
	VL1	T160 mA	4822 253 30009				
	VL1	T140 mA	4822 253 30008				
	VL3	T4A	4822 253 30028				

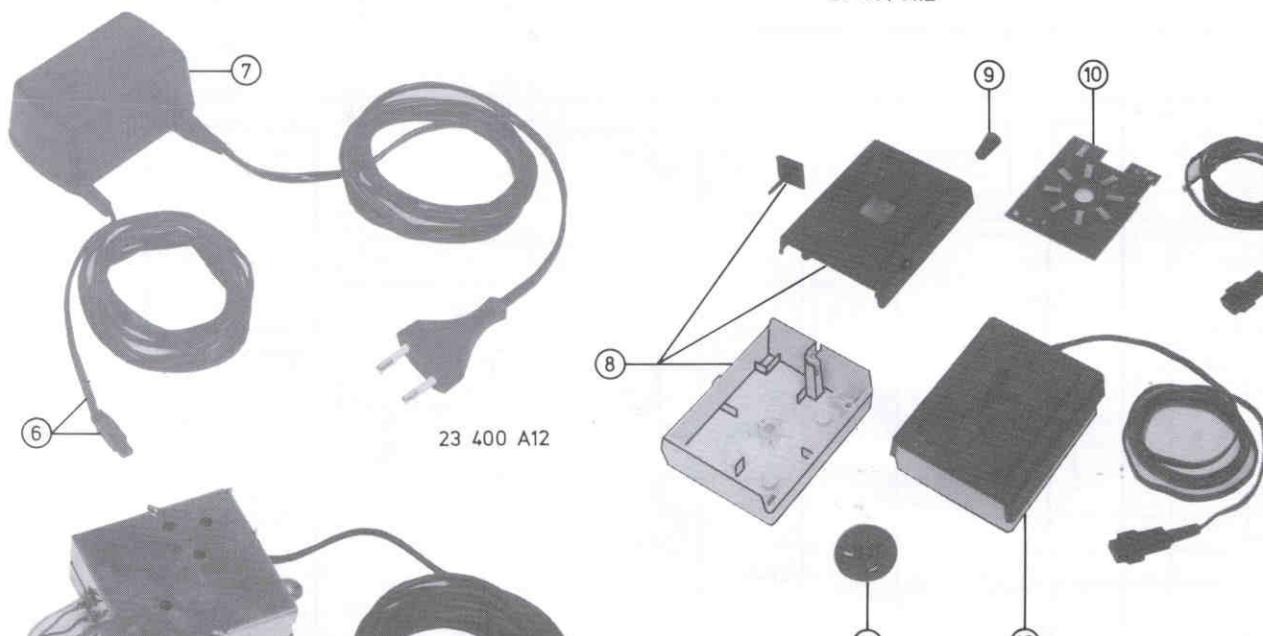
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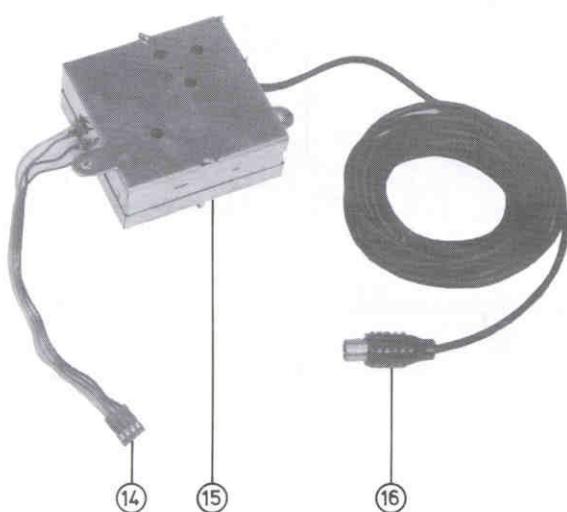
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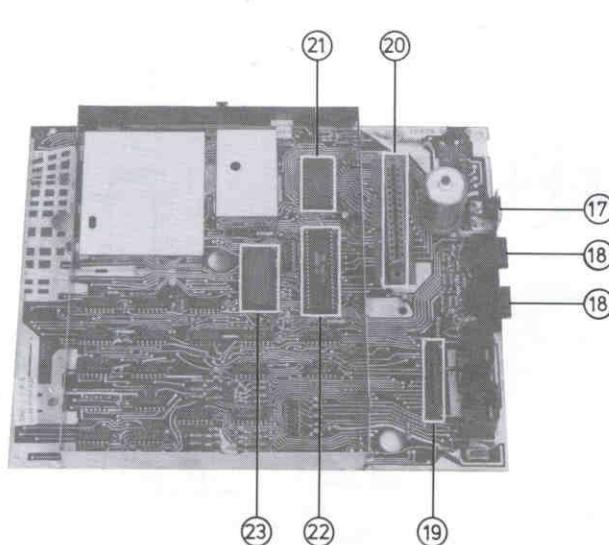
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23 402 A12

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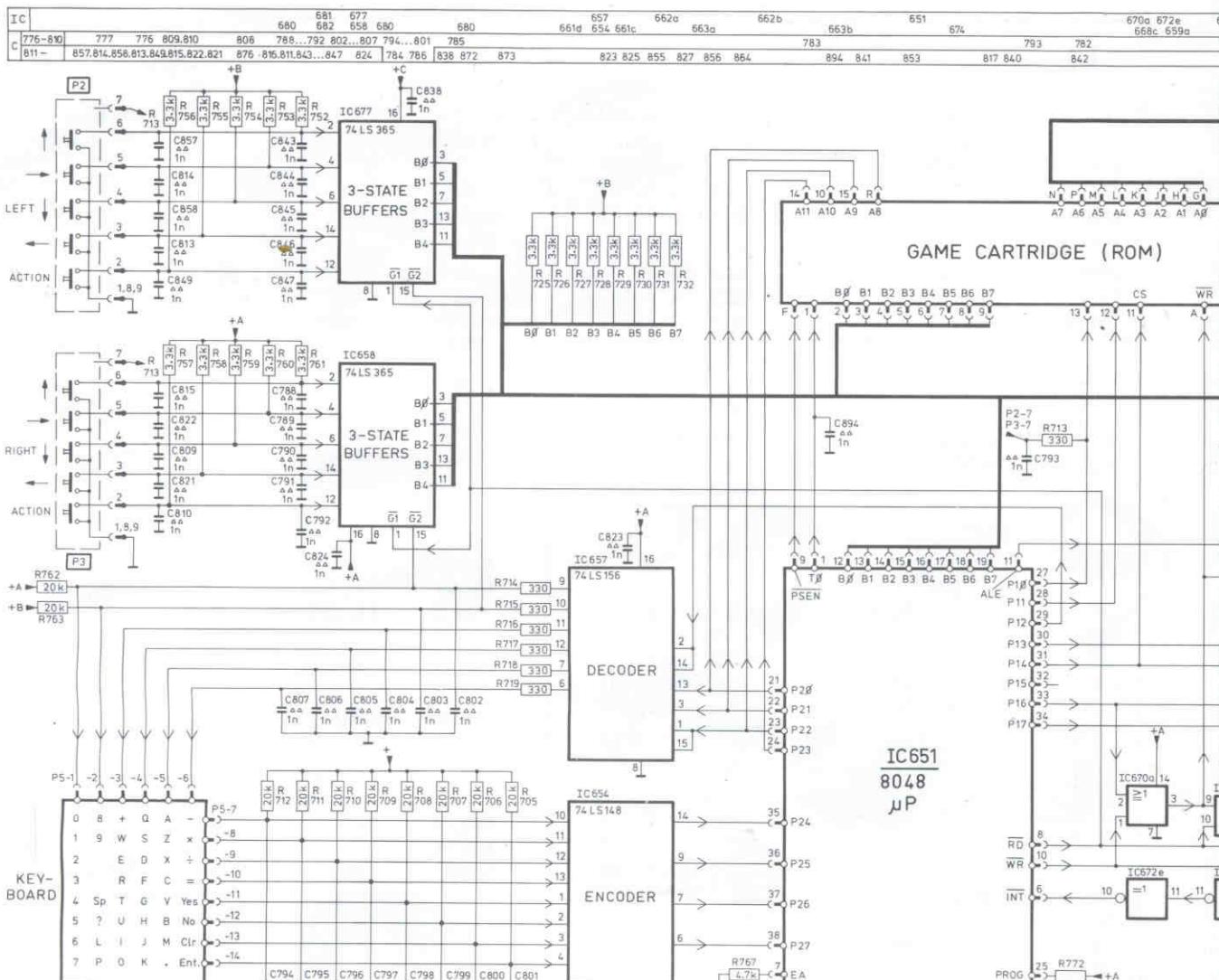
23 403



23 404 A12

1	{	4822 432 30
2		4822 219 80
3		4822 454 10
4		4822 321 20
5		4822 219 80
6		4822 219 80
7		220 V~
7		240 V~
8		4822 219 80
9		4822 432 30
10		4822 413 30
11		4822 464 90
12		4822 462 40
13		4822 321 20
14		4822 441 80
14		4822 265 30
15		4822 212 10
15		4822 212 10
16		4822 264 30
17		4822 290 80
18		4822 267 50
19		4822 265 40
20		4822 265 40
21		4822 267 30
22		5322 255 44
23		5322 255 44
24		5322 255 44

CS 75 075



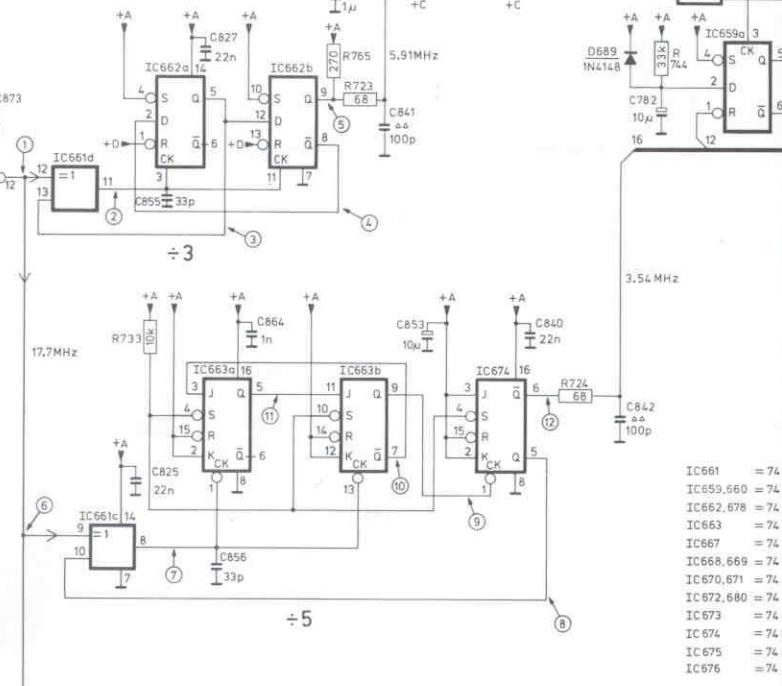
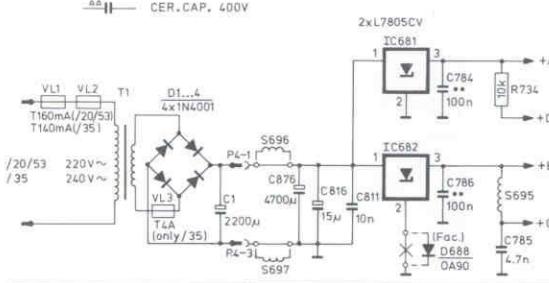
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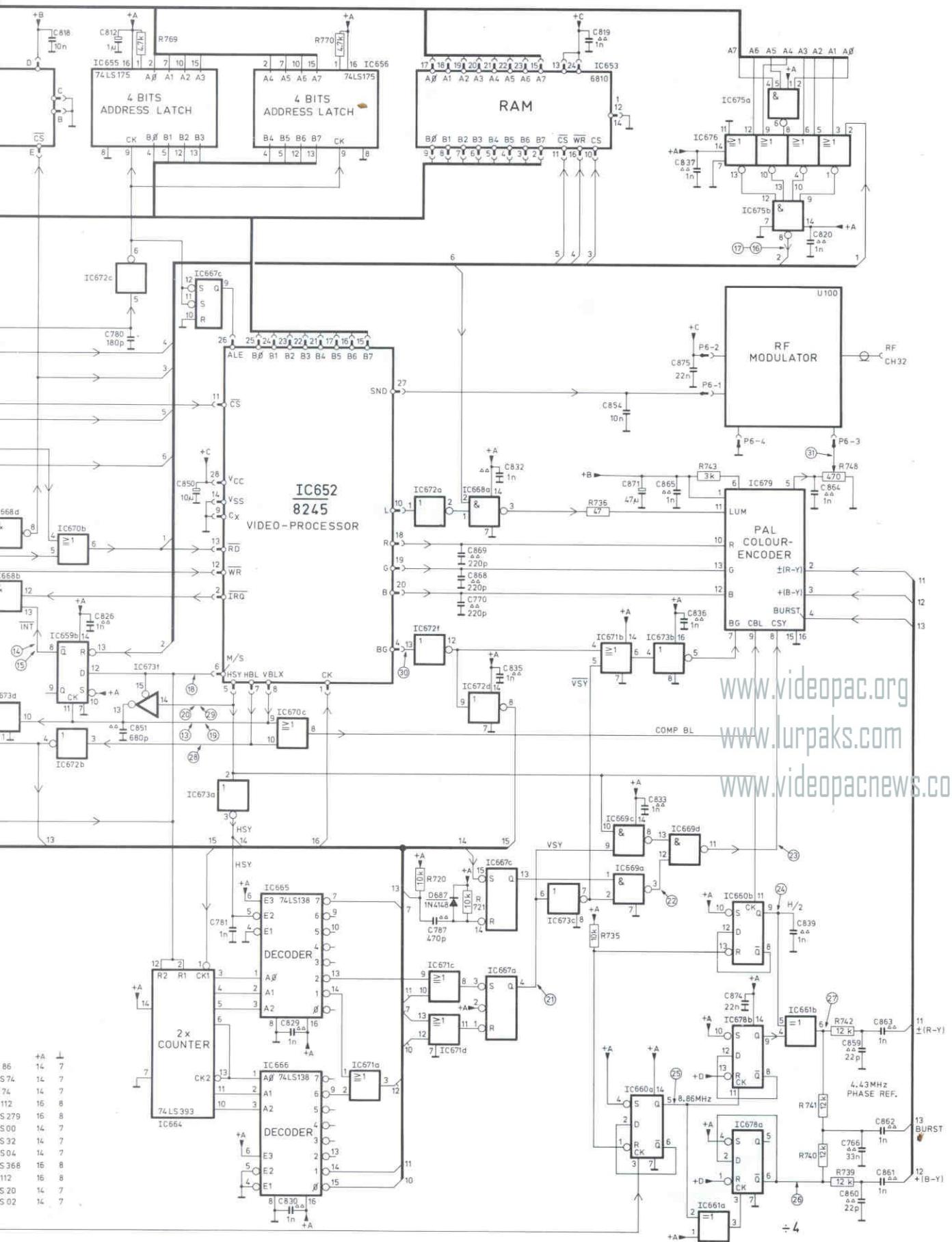
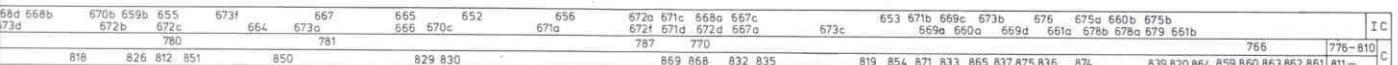
— \* — STYROFLEX CAP

—\*\*— FLAT FOI

CER.CAP. 400V



D-S-T	T1	D1...4	S695..S697	D688	S695		D689
R 705-740			737	722.711..738.710	709	708	707.734..706
721 -	762.763		756.757..756.75L	756.251..760.752..761			723



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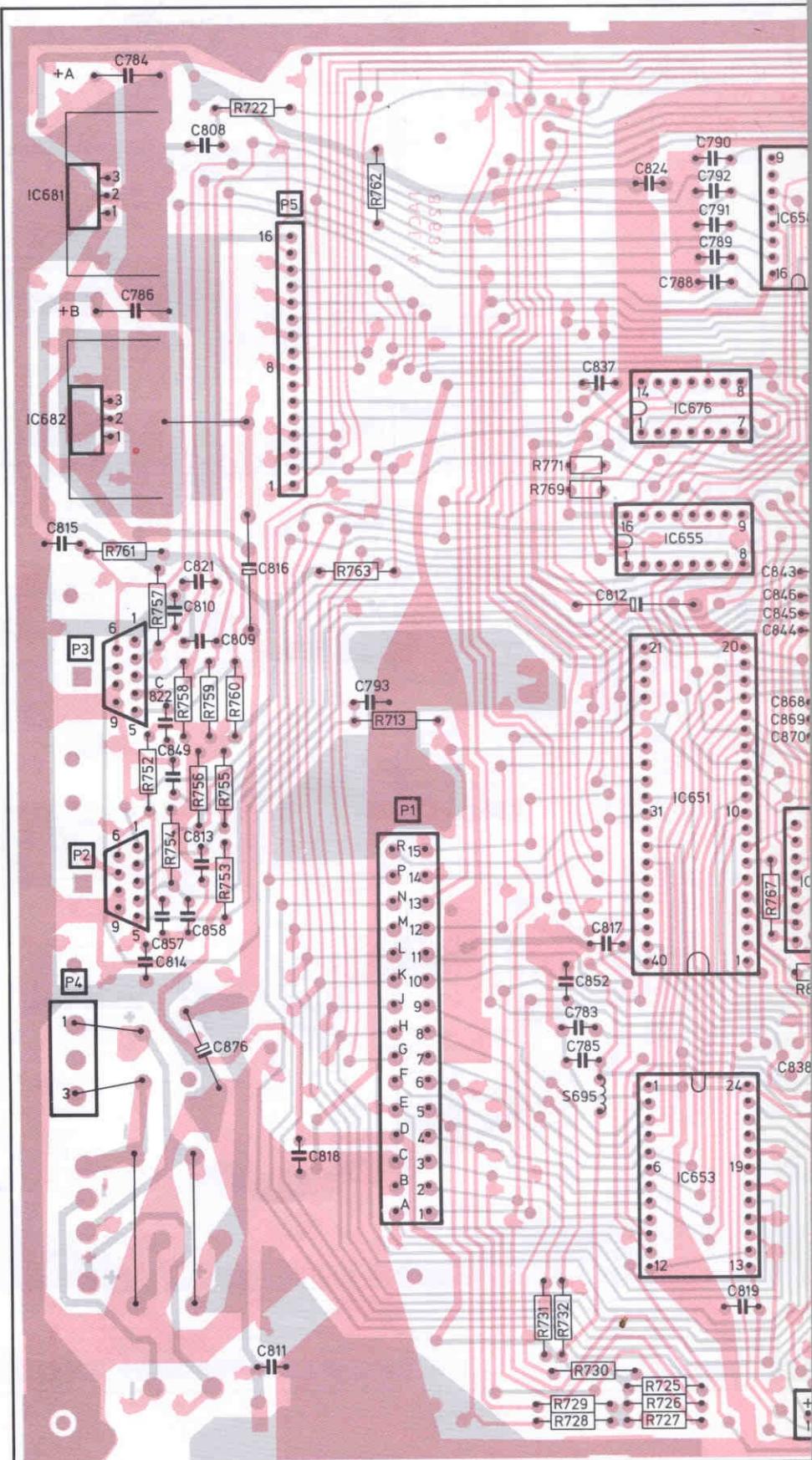
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	+A	<u>1</u>
85	14	7
S 74	14	7
74	14	7
112	16	8
S 279	16	8
S 00	14	7
S 32	14	7
S 04	14	7
S 368	16	8
112	16	8
S 20	14	7

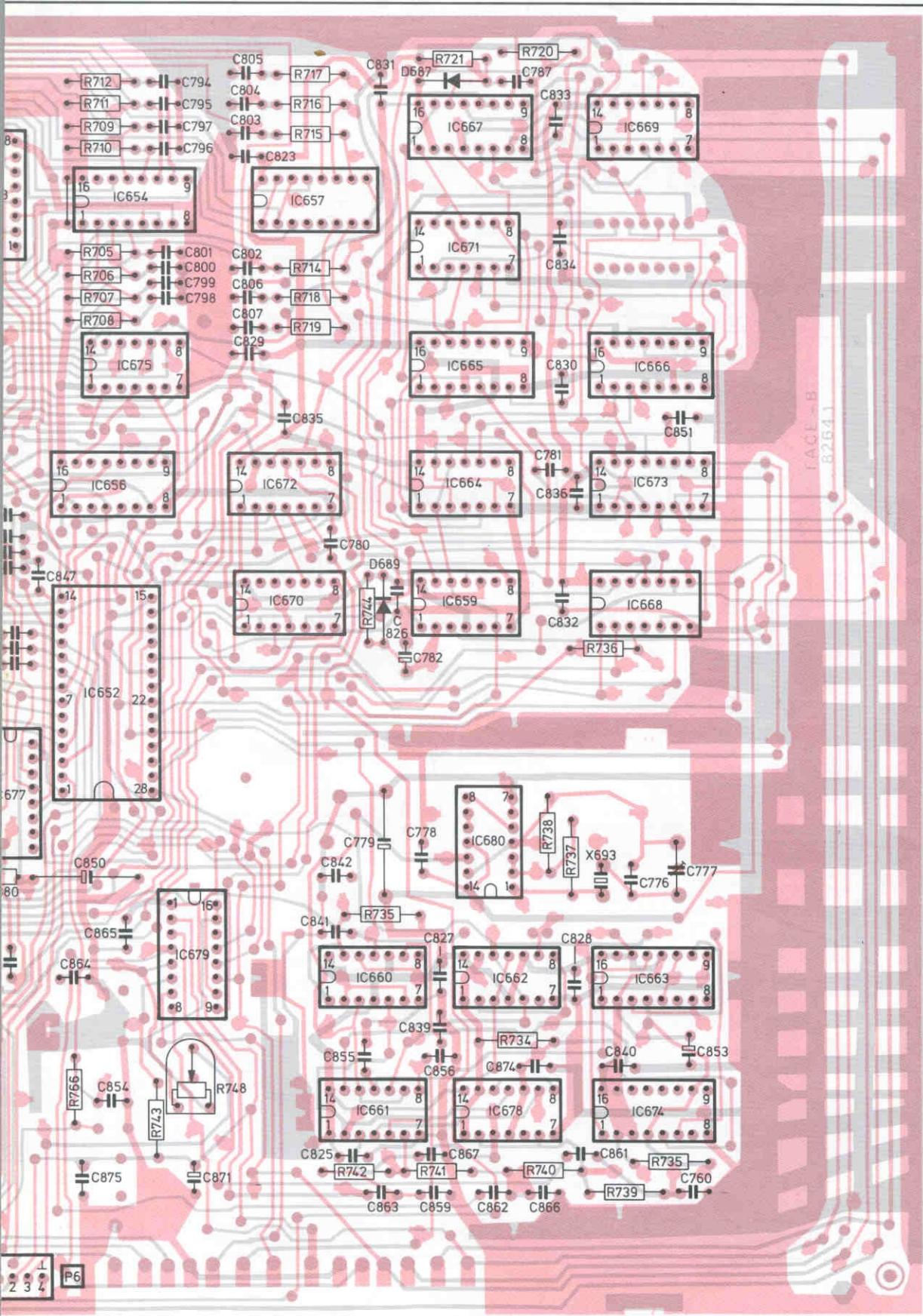
D687							D-S-T
	720	721		736	735		705-740
769	770					741-	R

MISC	IC681.582	S695	IC655.676.651.653	IC65
C	760÷831 815 822.784.786.814.821.813.808÷811.816.818.793	783.785.812.824.817.788÷792.819		
832÷876	857.849 858 876	837 852	838.843÷847.8	
R	753÷761 722	763.762.713	771.769.725÷732	767 8



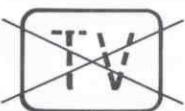
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8.677	IC652.656.654.675.679	IC672.670.657.660.661.D689.D687.IC667.671.665.664.659.680.662.678.X693.IC669.666.673.668.663.674
	794÷807	823 825.779.780.826.831.782.778.827 781.787 830.828 776.777.760
58÷870.864.850.854.875.865.871		841.842.835.855.863.839.859.856.867.862.874.836.866.832.834.861.840.851.853
30	766.705÷712.743	748 714÷719.744.742.735.721.741 720 734÷740



MISC	C	R
IC681	815	
IC682	876	
	849	
	814	
	813	
	784	
	827	
	787	752
	857	-
	858	761
	810	
	808	
	821	
	809	722
	816	
	818	
	811	
	793	
	762	
	763	
	713	
	852	
	785	
	783	
	817	
S695	769	
	837	771
	812	725
	824	732
IC653		
IC651		
IC655		
IC676		
	788	
	792	
	843	767
	846	-
IC658	868	880
IC677	870	
	847	
	838	766
	850	705
	864	712
	875	
	854	
	865	
	794	743
IC679	807	
	871	
	823	748
	829	
	835	
IC672	841	
IC670	842	714
IC657	780	719
	779	
	855	
IC660	825	742
IC651	831	744
D689	826	
D687	782	735
	778	
IC667	863	741
IC671	827	
IC665	839	721
IC664	856	
IC659	867	
IC680	859	
IC662	862	
IC678	734	
	787	720
	832	740
	834	738
X693	781	737
	830	736
	836	739
	866	
IC666	874	
IC673	828	735
IC668	861	
IC663	840	
IC674	776	
	851	
	777	
	853	
	760	

## REPAIR METHOD



OSC. NR.5  
2IC 651

4Vpp /  $\approx$  6MHz

OSC. NR.12  
1IC 652

3.5Vpp /  $\approx$  3.5MHz

OSC. NR.1  
12 IC 661d

2.5Vpp (17MHz)

OSC. NR.18  
6 IC 652

4Vpp / 50Hz

V- $\Omega$   
IC 663  
IC 674  
IC 661

V- $\Omega$   
IC 662a  
IC 662b  
IC 661d

18344B12

OSC. NR.32  
5 IC 679

V- $\Omega$   
U 100  
IC 679

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