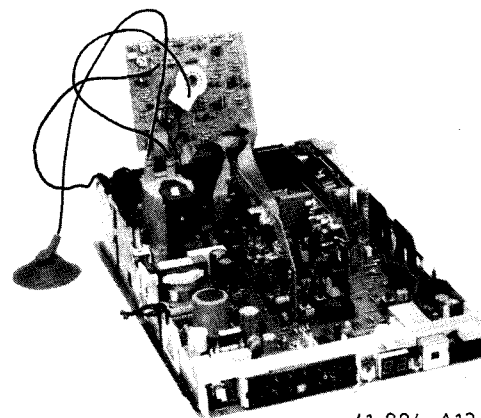


Service
Service
Service



41 884 A12

Service Manual

TECHNICAL DATA

Mains voltage	: 220-240 V ~ ($\pm 10\%$)
Aerial input impedance	: 75 Ω - coax
Minimum aerial input VHF	: 30 μ V
Minimum aerial input UHF	: 40 μ V
Maximum aerial input	: 100 mV

Pull-in range colour cync	: +300 Hz/-300 Hz
Pull-in range horizontal sync	: +600 Hz/-600 Hz
Pull-in range vertical sync	: +5 Hz/-5 Hz

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Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual de Servicio

Subject to modification

GB 4822 727 15947

Printed in The Netherlands

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Published by
Service Consumer Electronics

CS 8 414GB

MECHANICAL INSTRUCTIONS

1. To facilitate troubleshooting and repairing the set the chassis can be pulled out of the cabinet and placed against the right-hand side of the set.
2. After prizing up the clamping ring K with a screwdriver or side-cutting pliers the EHT and focus cable may be pulled off the line output transformer (see Fig. 3). When refitting the cable first press the clamping ring onto the transformer until a click is heard; after this the cable may be pressed in place. Make sure that the cable is pressed down well.

ELECTRICAL ADJUSTMENTS

A. ADJUSTMENTS TO THE MAIN PANEL (Fig. 4)

1. +140V power supply voltage

Connect a voltmeter (DC) between pin 5 of connector R13 and ground. Adjust 3670 for a voltage of $142V \pm 1\%$.

2. Horizontal synchronisation

Remove the screening cap of IF/SYNC unit 1001. Apply an aerial signal. Interconnect points 5 and 9 of item 7038 (IF/SYNC unit). Adjust 3055 until the picture is stationary. Remove the interconnection. Locate the screening cap.

3. Horizontal centring

This is adjusted with 3038 (IF/SYNC unit).

4. Vertical centring

This is adjusted with 1566.

5. Picture height

The picture height is adjustable with 3576.

6. Focussing

This is adjusted with the focussing potentiometer on the line output transformer (fig. 3).

7. V_{G2} adjustment

Adjust for minimum brightness and contrast for. Apply a black frame signal. Connect an oscilloscope to the Red cathode and the Green cathode of the picture tube. Adjust with the G2 potentiometer on the line output transformer (see Fig. 3) the black level for 130V for the lowest of the two cathodes.

8. Chroma subcarrier oscillator

Apply a colour-bar pattern. Interconnect points 24 and 25 of IC7260. Connect a 470Ω resistor between points 5 and 1 of IC7260. Adjust 2267 so that colour pattern on the screen is practically stationary. Remove the resistor and the interconnection.

9. PAL delay line

Apply a generator signal from a PM5509 or PM5519. Set the generator to "DEM". Set contrast and brightness to normal and set the saturation control to $3/4$ of its range. Adjust 3280 so that the venetian-blinds effect in the 3rd bar is minimal. Subsequently, adjust 5270 until the venetian-blinds effect in the 1st and the 4th bar is also minimal. Readjust 3280 if necessary.

10. Chroma trap in the luminance circuit

Use a colour-bar pattern and set the receiver controls to their normal settings. Connect an oscilloscope to point 8 of IC7260 and adjust 5261 for minimum amplitude of the chrominance signal which is situated on the various brightness steps of the luminance signal.

11. RF-AGC

If the picture of a strong local transmitter is reproduced distorted, adjust potentiometer 3092 on IF/SYNC unit 1001, until the picture is no longer distorted. To achieve this the screening cap of the IF/SYNC unit has to be removed.

B. ADJUSTMENTS TO THE CRT BOARD

1. Picture width

The picture width is adjustable with 3591.

2. East-West correction

Is adjusted with 3592.

C. ADJUSTMENTS TO THE CCT DECODER

1. Connect pin 22 of IC7785 to ground. Adjust 2802 for a free-running frequency of $6.010 \text{ MHz} \pm 2.5 \text{ kHz}$ at pin 17 of IC7785.

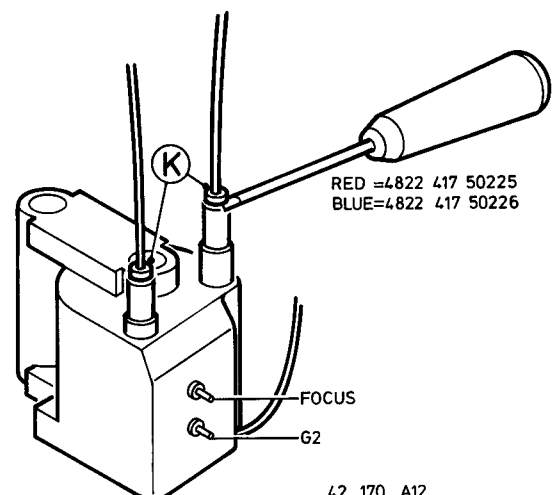


Fig. 3

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3 1070 CARRIER PANEL

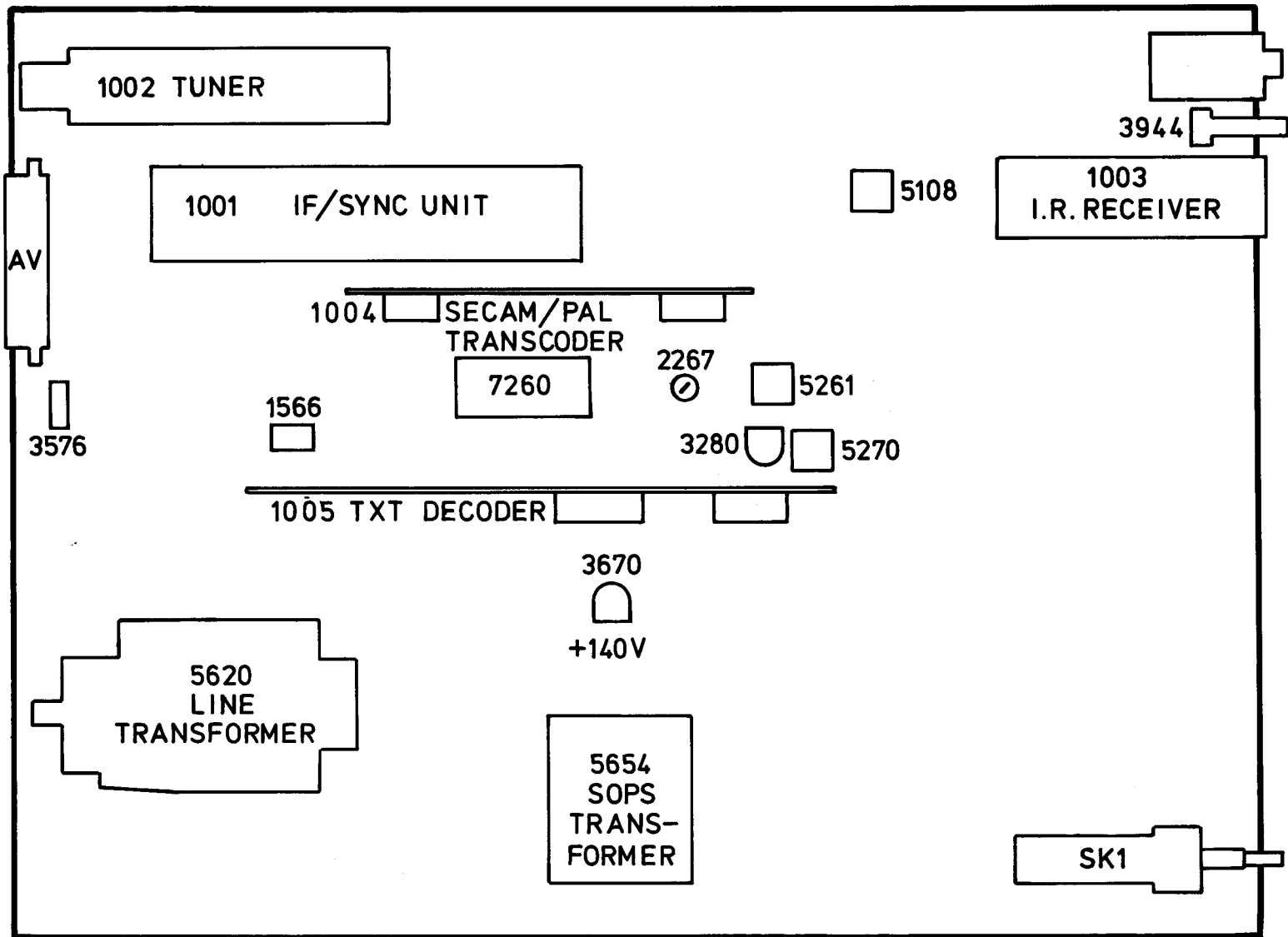


Fig. 4

1001 IF/SYNC UNIT

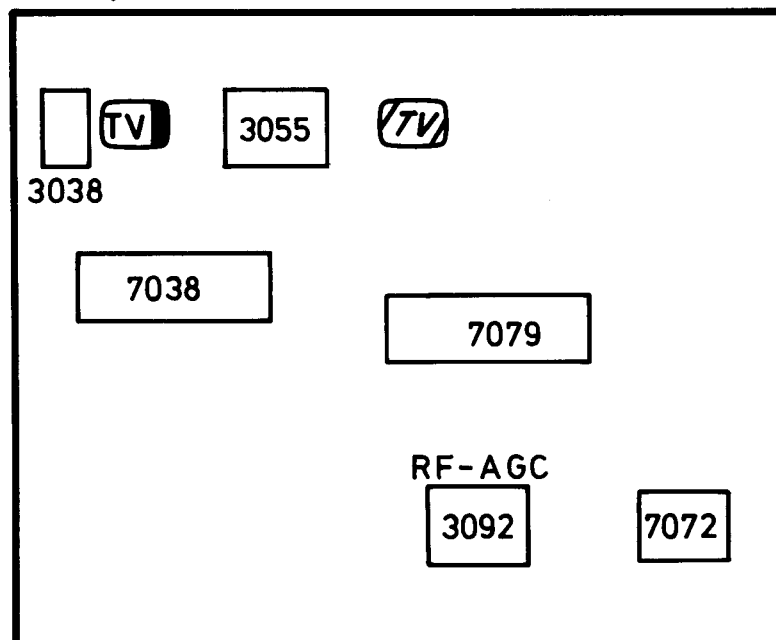


Fig.5

1003 PICTURE TUBE/E-W PANEL

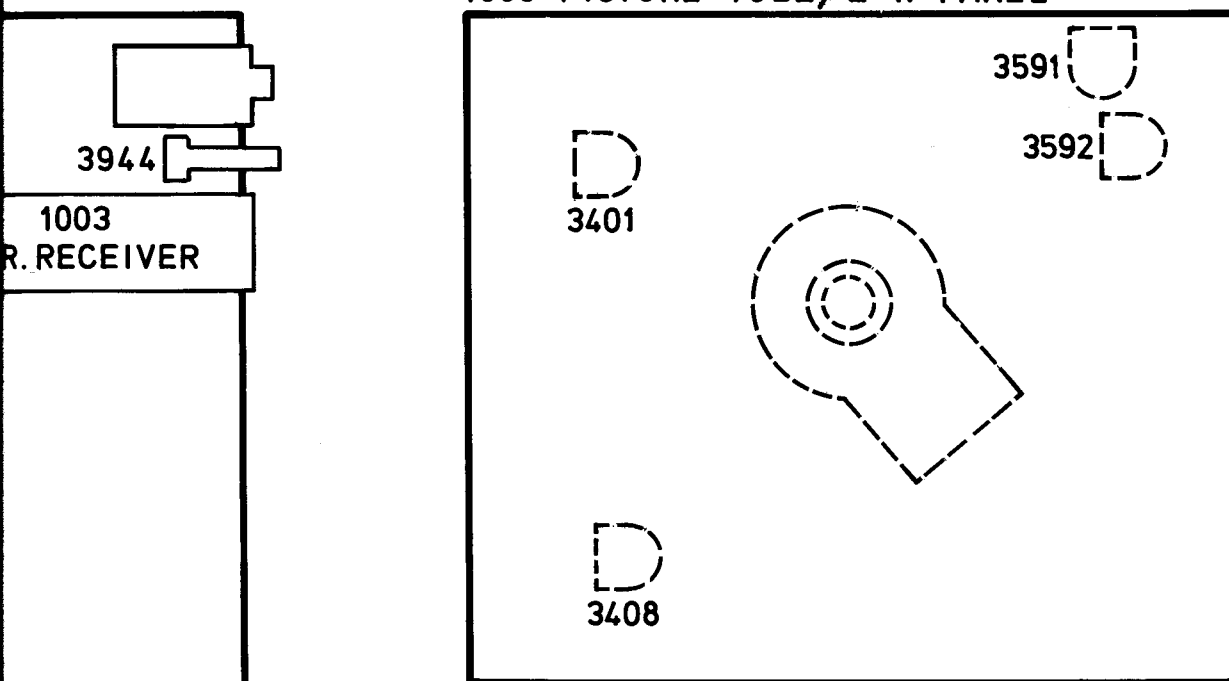


Fig 6

1005 TELETXT DECODER

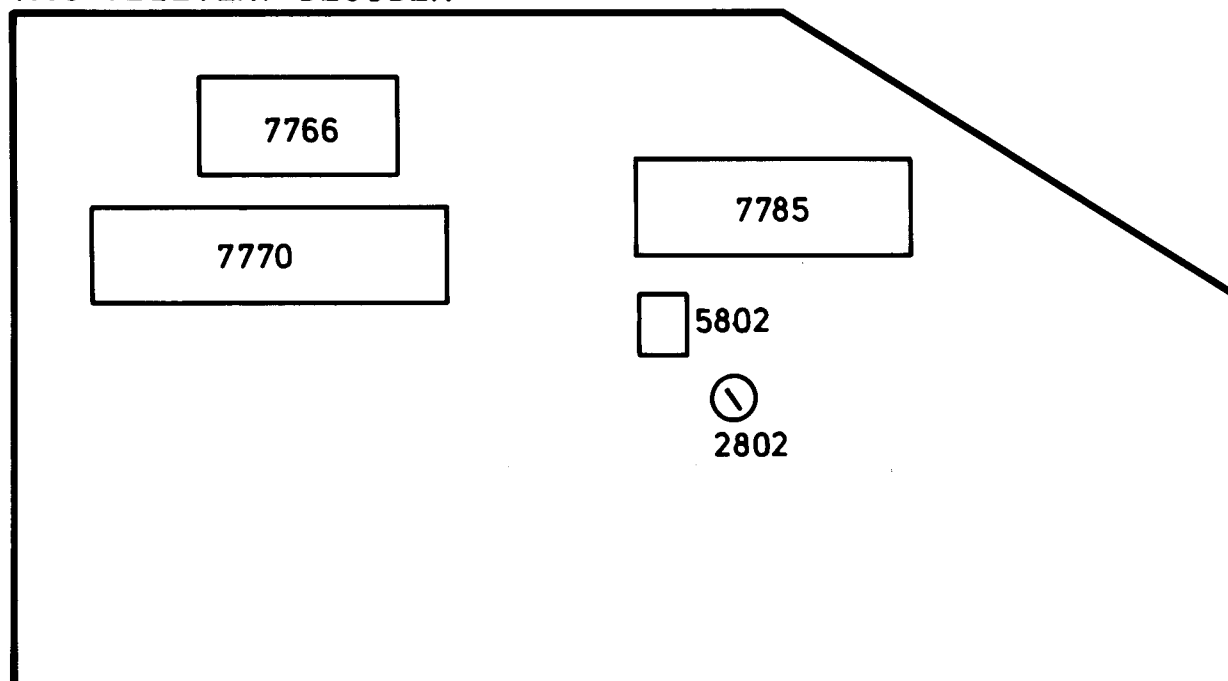


Fig.7

42 115 C12

PICTURE TUBE PANEL

			
BC337	4822 130 40855		
BC548B	4822 130 40937		
BC556	4822 130 40989		
BC558	4822 130 40941		
BF422	4822 130 41782		
BF423/01	4822 130 60703		
BF819	4822 130 42159		
BF869	4822 130 41773		
			
BAV21	4822 130 30842		
BYD33G	4822 130 42489		
1N4148-75	4822 130 33939		
			
5401	4822 157 50964		
			
3403	5322 116 53619	6.34 k Ω	0.6 W
3406	5322 116 53263	6.19 k Ω	0.6 W
3426	5322 116 80076	105 k Ω	0.6 W
3427	4822 116 80327	137 k Ω	5 W
3428	5322 116 80076	105 k Ω	0.6 W
3439	4822 116 52399	1.5 k Ω	0.5 W
3440	4822 116 52399	1.5 k Ω	0.5 W
3444	4822 116 52399	1.5 k Ω	0.5 W
3445	4822 116 80328	470 Ω	0.5 W
3591	4822 100 10051	22 k Ω	potm.
3592	4822 100 10052	100 k Ω	potm.
3599	4822 111 30526	47 Ω	0.33W
			
2407	4822 122 33109	2.2 nF	1kV
			
22G	4822 290 40295	7P	
23R	4822 267 40722	6P	
			
22G	4822 265 40252	7P	
23R	4822 267 30546	6P	
	4822 255 70216	socket PT	

MUTE PANEL

	
BC548B	4822 130 40937
BC558B	4822 130 44197
	
1N4148-30	4822 130 33941

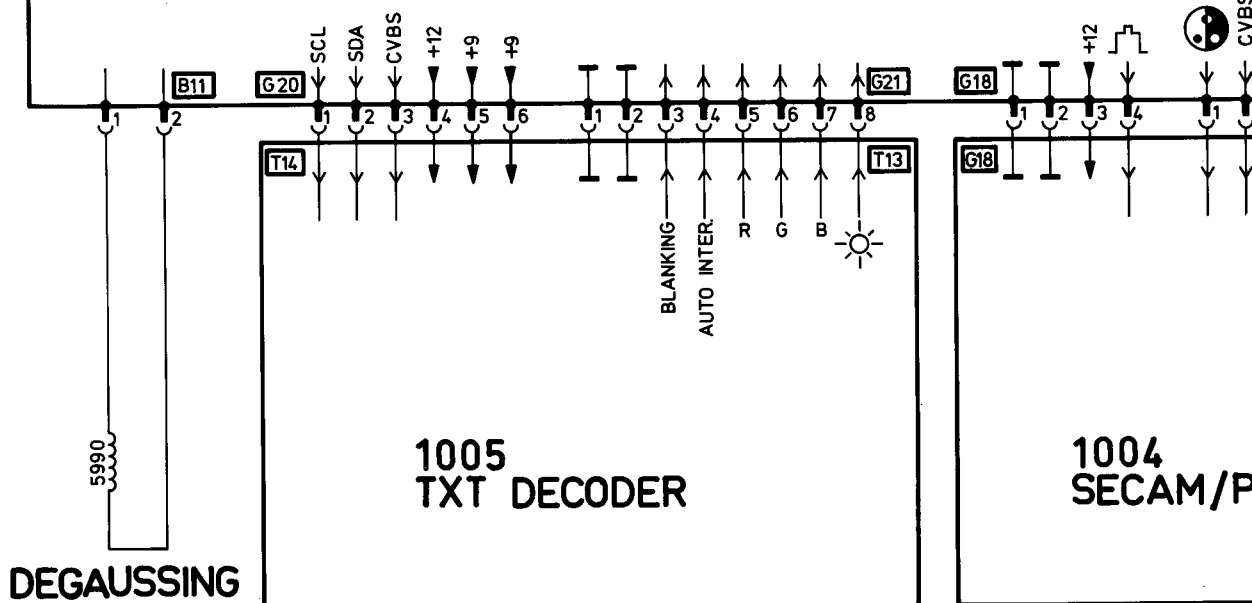
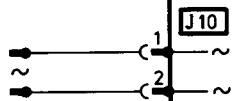
CARRIER PANEL

-II-			Y		
2113	4822 124 41334	470 μ F 35 V	10J	4822 290 60626	2P
2123	4822 124 40435	10 μ F 50 V	11B	4822 267 40653	2P
2267	4822 125 50045	20 pF trimm.	12G	4822 265 30273	3P
2521	4822 124 40434	22 μ F 35V	13R	4822 267 30546	6P
2526	4822 124 40434	22 μ F 35V	14R	4822 267 30546	6P
2610	5322 121 44357	7.5 nF 2kV	15G	4822 265 40252	7P
2611	4822 121 40479	390 nF 250V	16R	4822 267 40653	2P
2619	4822 121 41339	2.2 nF 2kV	17	4822 264 50177	10P for coil cable
2621	4822 124 22257	22 μ F 250V	18G	4822 266 30276	4P
2652	5322 121 44222	330 nF 250V	19G	4822 265 40503	5P
2656	4822 124 22172	150 μ F 385V	20G	4822 265 40469	6P
2663	4822 121 41531	1000 pF 250V	21G	4822 265 40471	8P
2668	4822 124 40724	1000 μ F 35V	VARIOUS		
2670	4822 124 22257	22 μ F 250V	1000	4822 212 22746	IR receiver
2672	4822 124 40724	1000 μ F 35V	1001	4822 212 22739	SYNC/IF-B/G
2673	4822 124 40201	1000 μ F 16V	1001	4822 212 22771	SYNC/IF-I
2735	4822 124 40723	2200 μ F 16V	1001	4822 212 22769	SYNC/IF-Multi
2934	4822 122 32149	27 pF 100V	1002	4822 210 10266	UV617
2935	4822 122 32149	27 pF 100V	1002	4822 210 40278	UV617/E
			1002	4822 210 10299	UV627
			1002	4822 210 50118	U743
			1030	4822 276 12056	mains-switch (SK1)
			1059	4822 212 22738	keyboard foil assy.
			1103	4822 242 70319	filter SFE6.5 MB
			1103	4822 242 70279	filter SFE6.0 MB
			1103	4822 242 71841	filter SFE6.0 MA
			1104	4822 242 70714	filter SFE5.5 MA
			1262	4822 157 51056	delay line DL330
			1267	4822 242 70626	crystal 8.867238 MHz
			1270	4822 320 40096	delay line DL701
			1566	4822 273 50296	switch 3P
			1901	4822 138 10032	battery 2.5V
			1934	4822 242 70831	filter 4 MHz
				4822 256 30274	fuse holder
				4822 462 10281	headphone socket
				4822 267 60172	scart socket
				4822 492 63730	slide spring fix.transistor
				4822 492 63731	spring fix. transistor

CARRIER PANEL

	
CNX62 4822 130 90121 HCF4053BE 4822 209 71749 LA7910 4822 209 10892 LN524RAP 4822 130 90388 L7812CV 5322 209 86176 TDA3562A/N5 4822 209 71751 TDA8190 4822 209 70872 TEA1039/N4 4822 209 83104 TMP47C432AP 4822 209 72038	5108 4822 157 53064 5109 4822 157 53064 5259 4822 157 52287 5260 4822 157 53065 5260 4822 157 52265 for amtsblatt 5261 4822 157 52807 5262 4822 157 53093 5270 4822 157 52808 5271 4822 157 52055 5608 4822 157 53069
	5611 4822 150 50073 5620 4822 140 10325 line output 5629 4822 140 10324 line driver 5653 4822 157 53068 5654 4822 148 60165 SOPS
BC328 4822 130 44104 BC337 4822 130 40855 BC337-40 4822 130 41344 BC368 5322 130 44647 BC547C 4822 130 44503 BC548 4822 130 40938 BC548B 4822 130 40937 BC548C 4822 130 44196 BC558 4822 130 40941 BD227 5322 130 44661 BD437 4822 130 40982 BD438 4822 130 40995 BUT11AF 4822 130 42679 BU508A 4822 130 42164	5655 4822 157 51195 5656 4822 157 51157 5658 4822 157 51195 5659 4822 157 53062  3102 4822 111 30499 4.7 Ω 0.33W 3280 4822 100 20148 1 k Ω potm. 3283 4822 111 30593 3.3 Ω 0.33W 3570 4822 116 51166 8.2 k Ω 2.5W 3571 4822 111 30821 3.9 Ω 0.5W
	3576 4822 101 10818 100 Ω potm. 3610 4822 116 30323 150 k Ω NTC 3628 4822 111 30504 6.8 Ω 0.33W 3653 4822 116 40065 PTC 3656 4822 116 80288 100 k Ω 2W
BYD33D 4822 130 42488 BYD33G 4822 130 42489 BYD33J 4822 130 42606 BYV26C 4822 130 32343 BYV95A 4822 130 41601 BYV95B 4822 130 41486 BY228 4822 130 41275 BZX79-C3V9 4822 130 31981 BZX79-C4V7 4822 130 34174 BZX79-C5V6 4822 130 34173 BZX79-C6V2 4822 130 80303 CQS51-4 4822 130 80309 ZTK33B 4822 130 30959 1N4148-75 4822 130 33939 1N5061 4822 130 31933	3657 4822 115 10094 1.5 k Ω 7W 3660 4822 113 80429 0.1 Ω 2W 3667 5322 116 54272 1.5 k Ω 2.5W 3670 4822 100 10361 100 Ω potm. 3672 4822 111 30483 1 Ω 0.33W 3875 4822 111 30593 3.3 Ω 0.33W 3944 4822 101 10819 50 k Ω potm.

1070 CARRIER PANEL



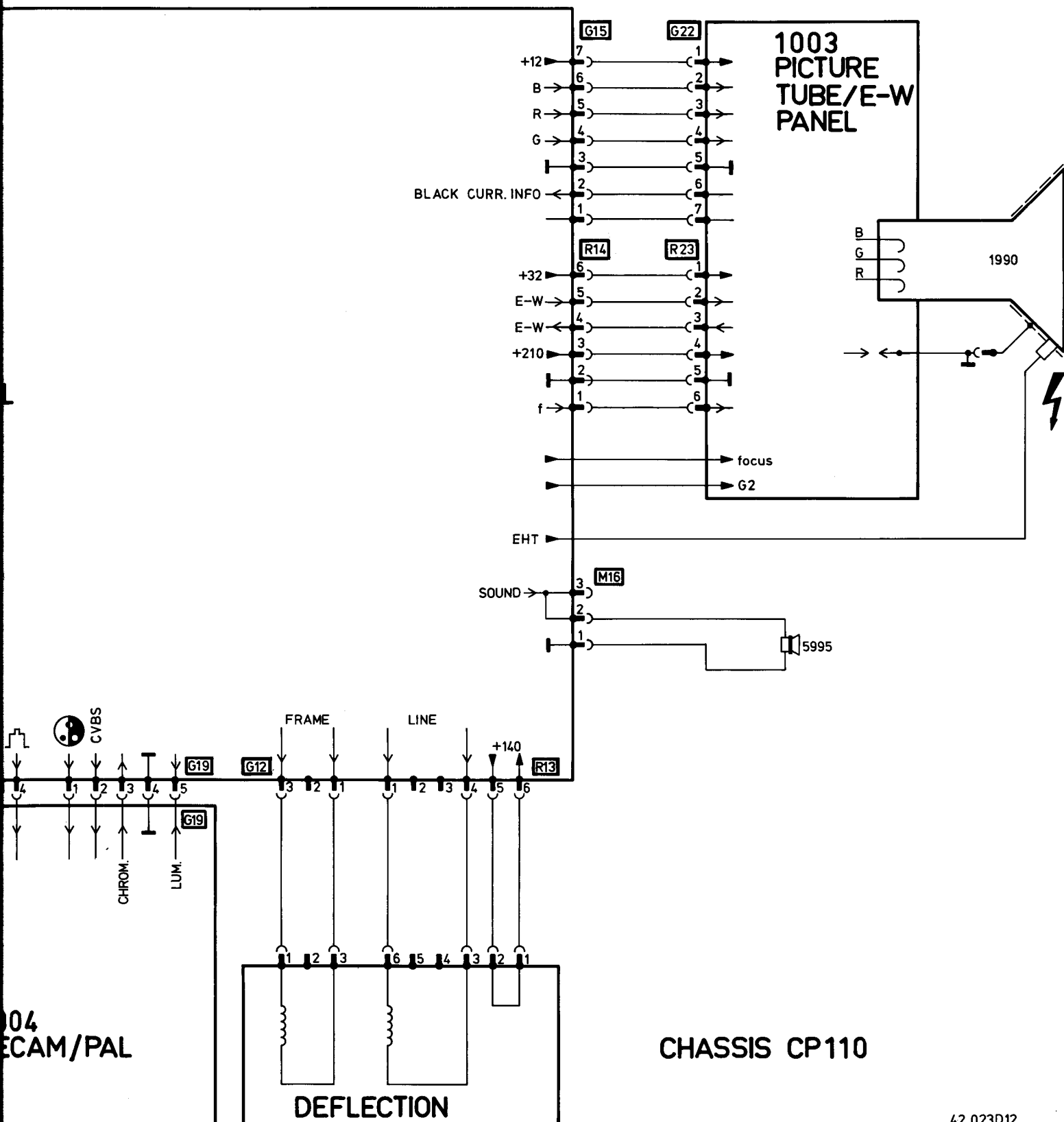
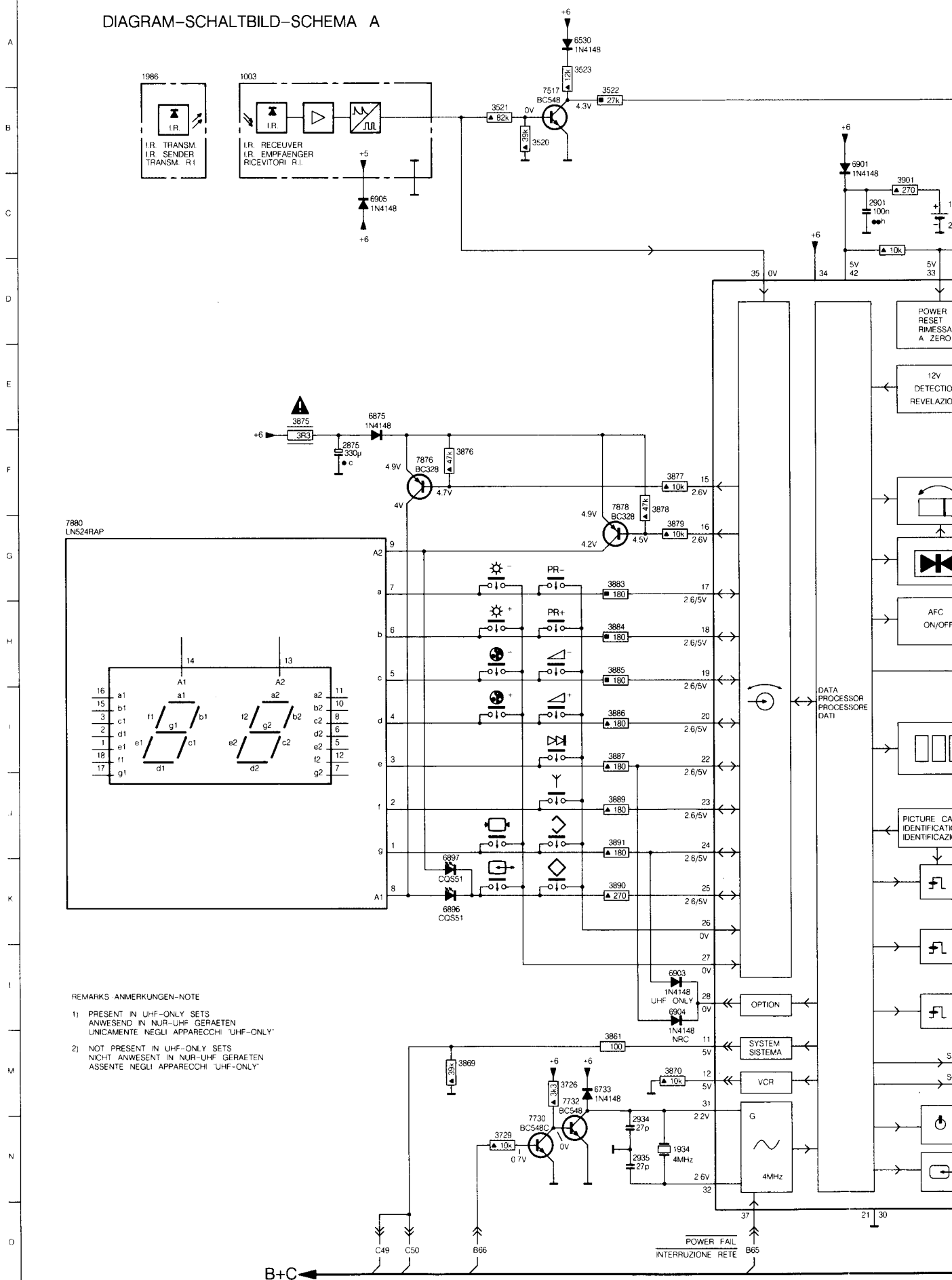


DIAGRAM-SCHALTBILD-SCHEMA A

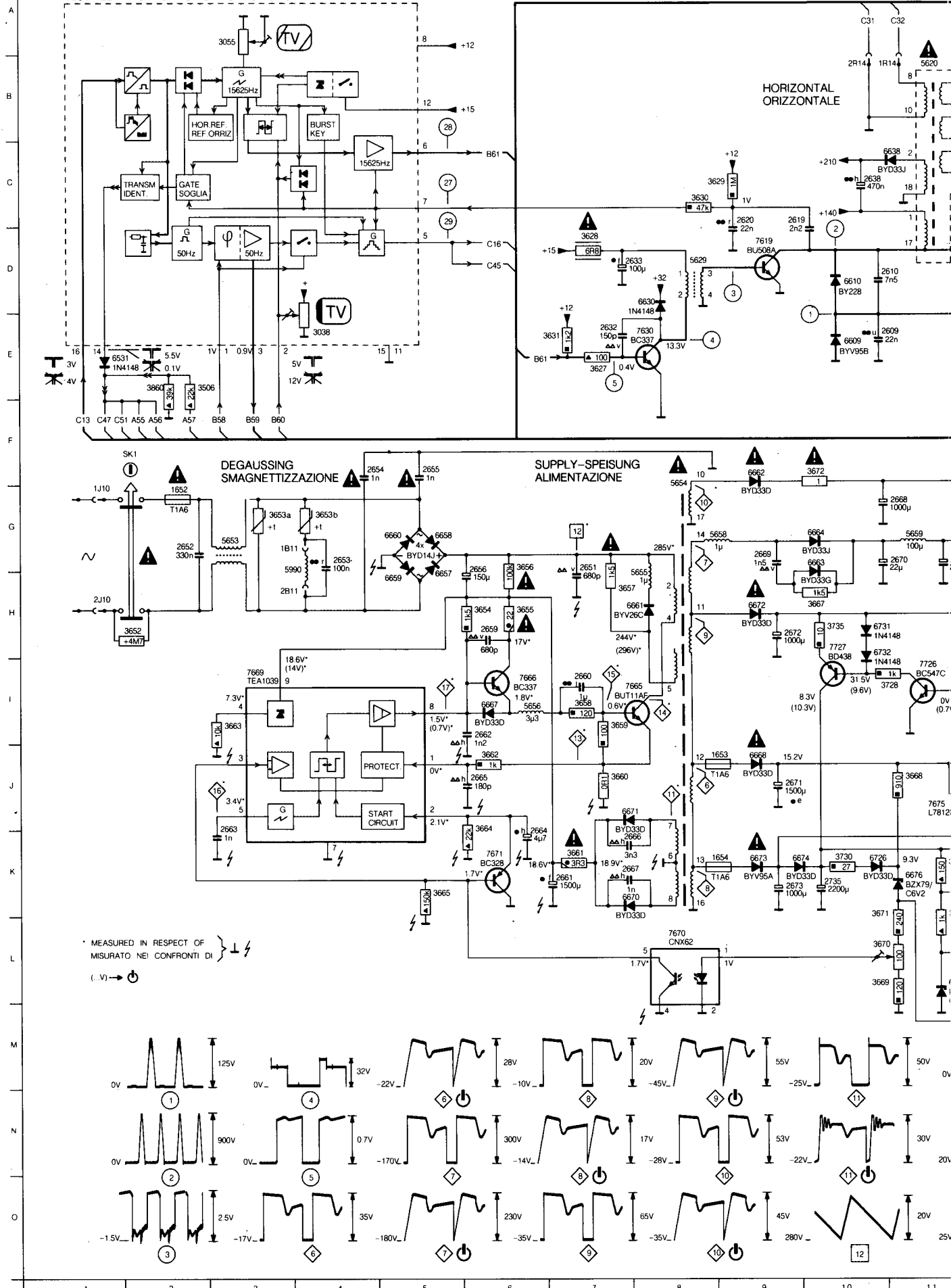


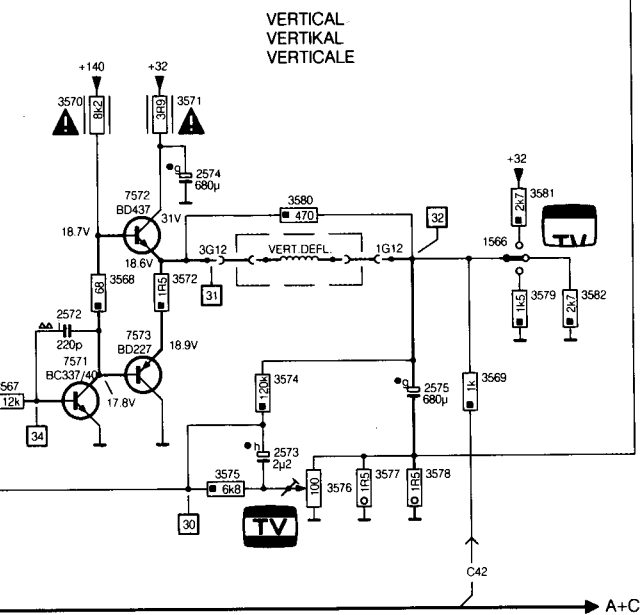
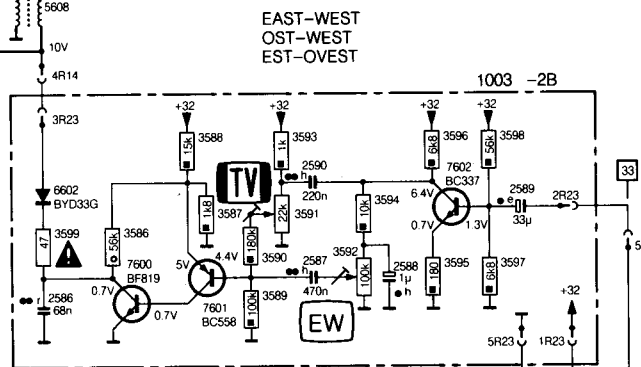
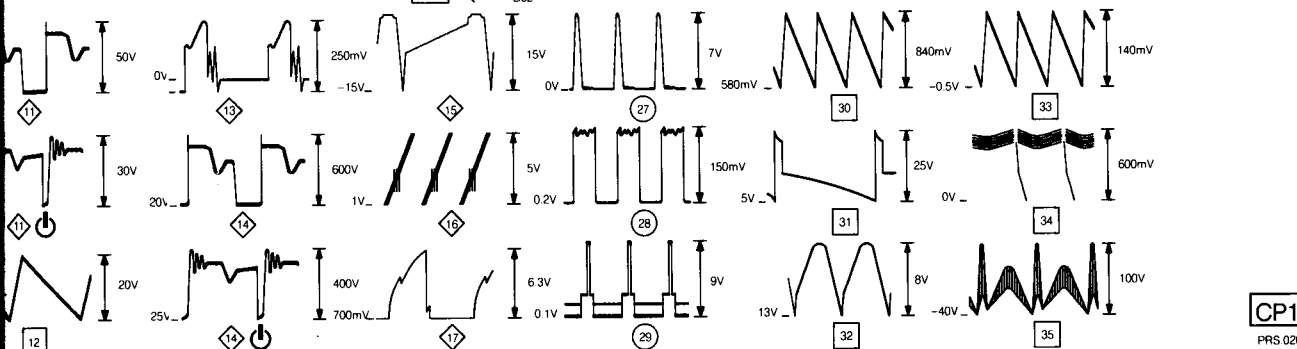
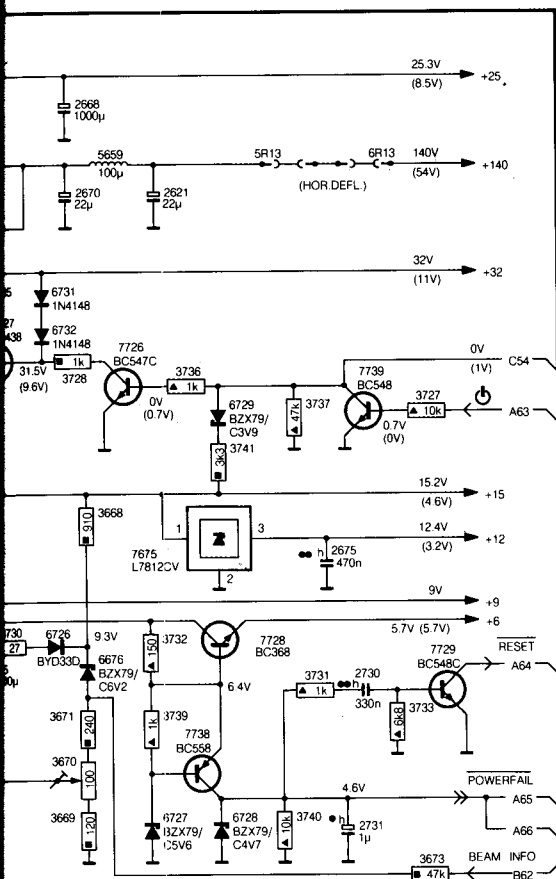
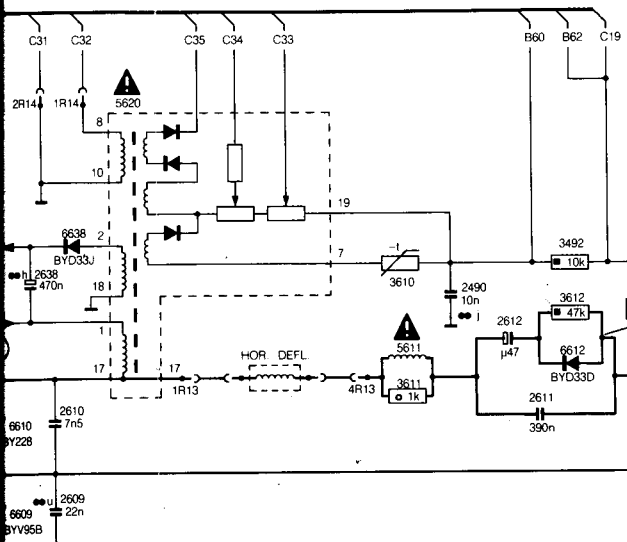
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2836	F	L15
2837	F	L15
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2853	L13	A3
2858	L13	A3
2875	F	C4
2915	F	N15
2934	N	F7
2935	N	B6
3520	N	G7
3521	B	F14
3522	A	F14
3523	A	F7
3726	M	F14
3835	F	F14
3836	F	F14
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3846	K12	F14
3848	F	F14
3849	K12	F14
3851	K15	F14
3852	K15	F14
3853	L14	F14
3854	K12	F14
3855	L16	F14
3858	L14	F14
3859	L12	F14
3861	M	H7
3864	M	H7
3866	J14	F14
3867	J14	F14
3869	M	M8
3870	M	M8
3871	N	F14
3872	N	F14
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3876	F	F5
3877	F	F5
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3883	G	F7
3884	H	F7
3885	H	F7
3886	I	F7
3887	J	F7
3889	K	F7
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3901	C10	M10
3903	M10	M10
3904	M10	M10
3905	G15	F15
3910	H14	F14
3911	G14	F14
3912	H16	F14
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3914	G12	F14
3915	G12	F14
3916	G12	F14
3938	F15	F15
3943	B16	F15
3944	C15	F15
3945	C15	F15
6530	A	B16
6733	M	F7
6897	K	F7
6897	J	F7
6896	K	B10
6902	H13	F13
6903	L8	F13
6904	L8	F13
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6944	B16	F16
7510	N	B6
7517	N	B6
7532	M	F7
7840	F	F14
7842	F13	F14
7865	L12	F14
7871	O14	F14
7876	F	F14
7880	G	F14
7912	G15	F15
9130	L13	A3



DIAGRAM-SCHALTBILO-SCHEMA B

1001-2B SYNCHRONISATION-SINCROIZZAZIONE





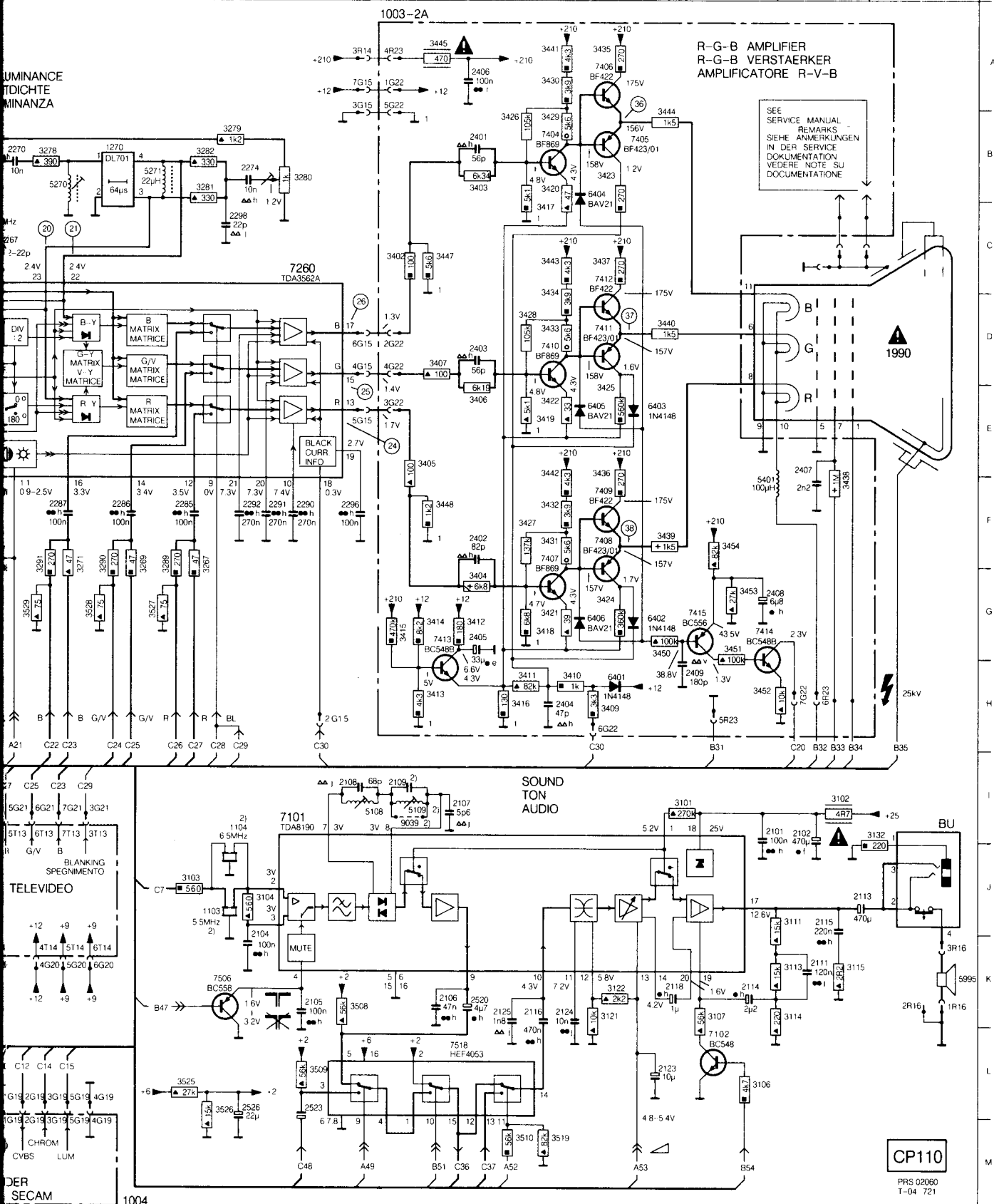
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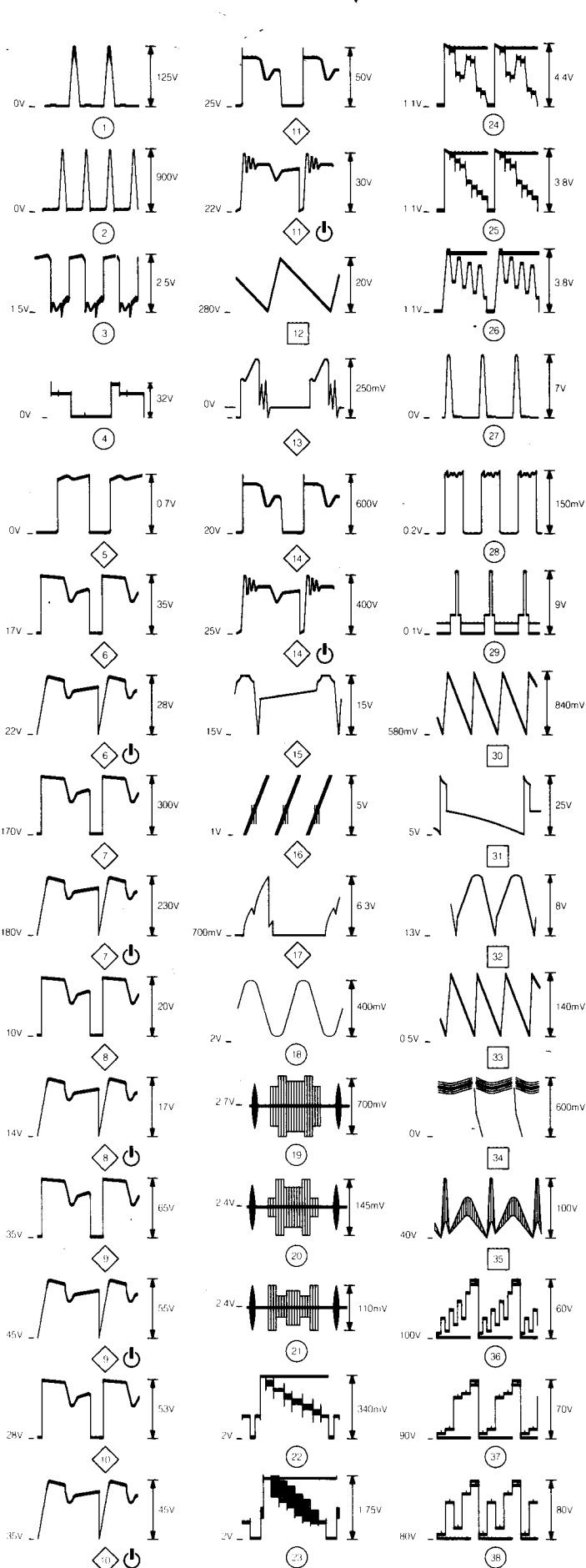
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	1653	J	9	6661	H	8
	1654	K	9	6662	F	9
A	2490	C14		6663	G10	
	2502	C16		6664	G10	
	2572	J16		6667	I	6
	2573	K17		6668	J	9
	2574	I17		6670	K	7
	2575	K19		6671	J	7
	2586	F	1	6672	H	9
	2587	F18		6673	K	9
	2588	F18		6674	K	9
B	2589	F19		6676	K11	
	2590	E18		6726	K10	
	2609	E11		6727	L11	
	2610	G11		6728	L12	
	2611	D14		6729	I12	
	2612	C14		6731	H10	
	2613	D15		6732	H10	
	2619	C10		7571	K16	
	2620	C	9	7572	E18	
	2621	G11		7573	K16	
C	2632	F	7	7600	F16	
	2633	D	8	7601	G17	
	2638	C10		7602	E19	
	2651	G	7	7619	D	9
	2652	G	2	7630	E	8
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	2654	F	5	7666	I	6
	2655	F	5	7669	I	3
	2656	G	6	7670	L	8
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	3503	E	3			
	3507	K15				
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	3591	F18				
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	3594	F18				
	3595	F19				
	3596	E19				
	3597	F19				
	3598	E19				
	3599	F16				
	3610	C13				
	3611	D13				
	3612	C15				
J	3627	E	7			
	3628	D	7			
	3629	C	9			
	3630	C	8			
	3631	E	7			
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K	3658	I	7			
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	5611	D13				
	5620	B11				
	5629	D	8			
	5653	G	3			
	5654	F	8			
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	5656	I	6			
	5658	G	9			
	5659	G11				
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O	6531	E	2			
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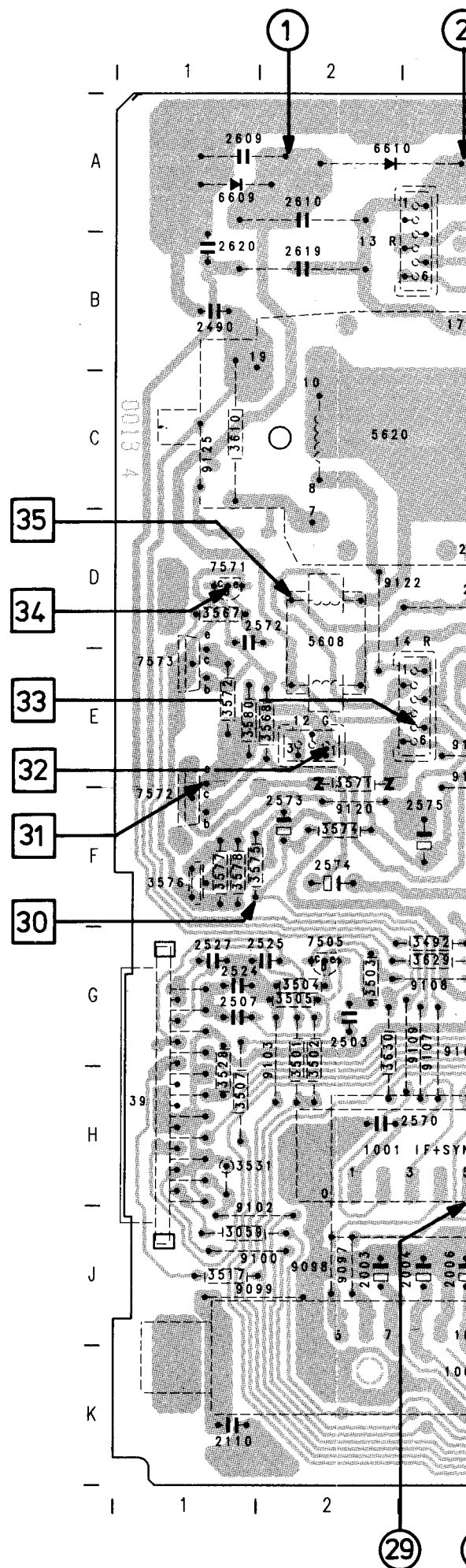
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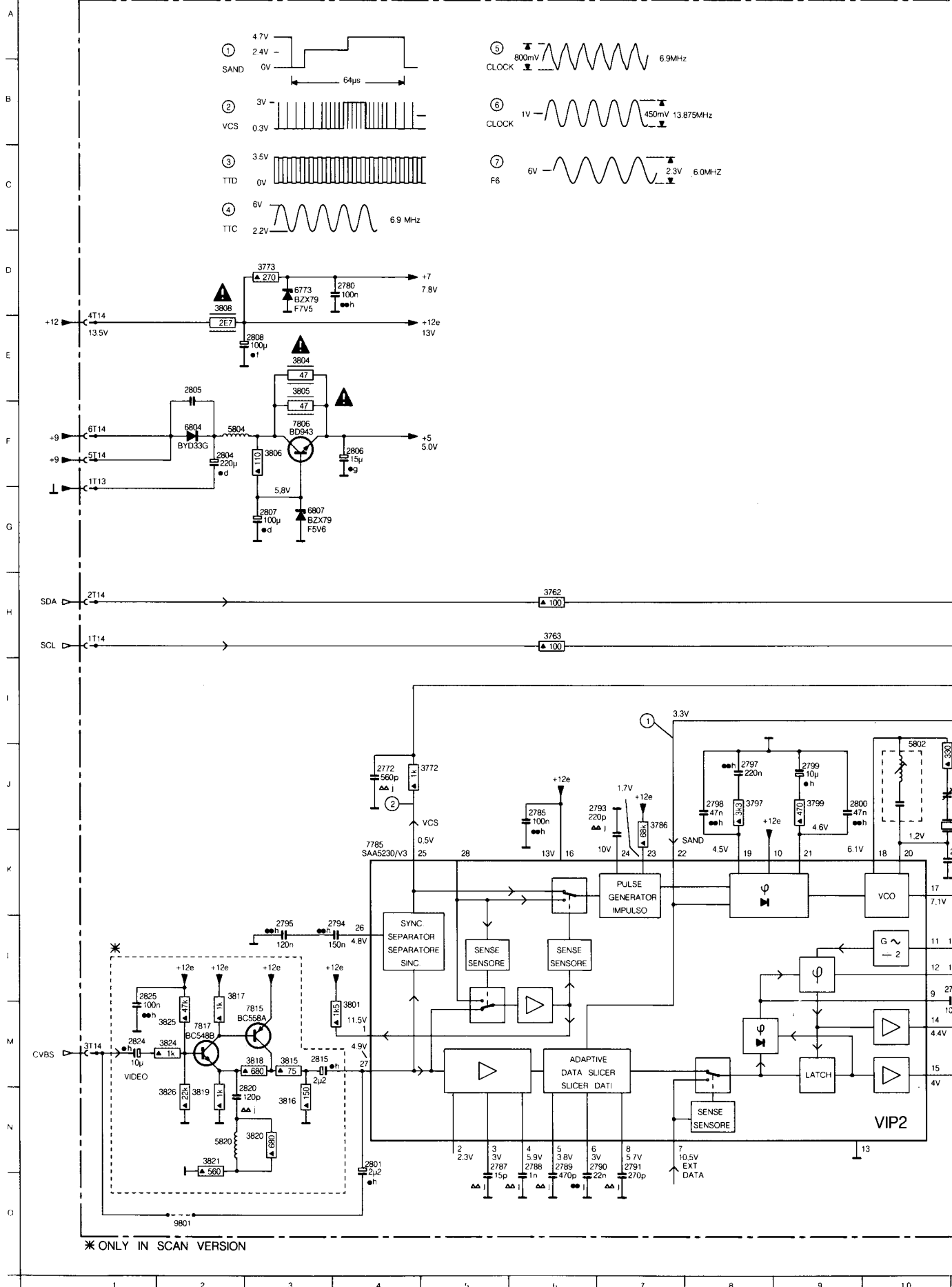


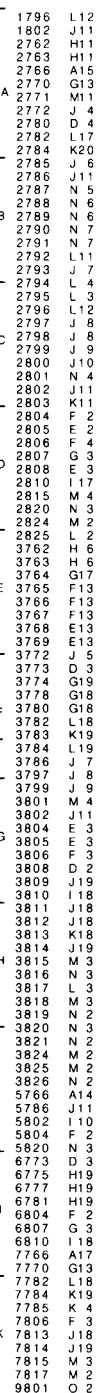


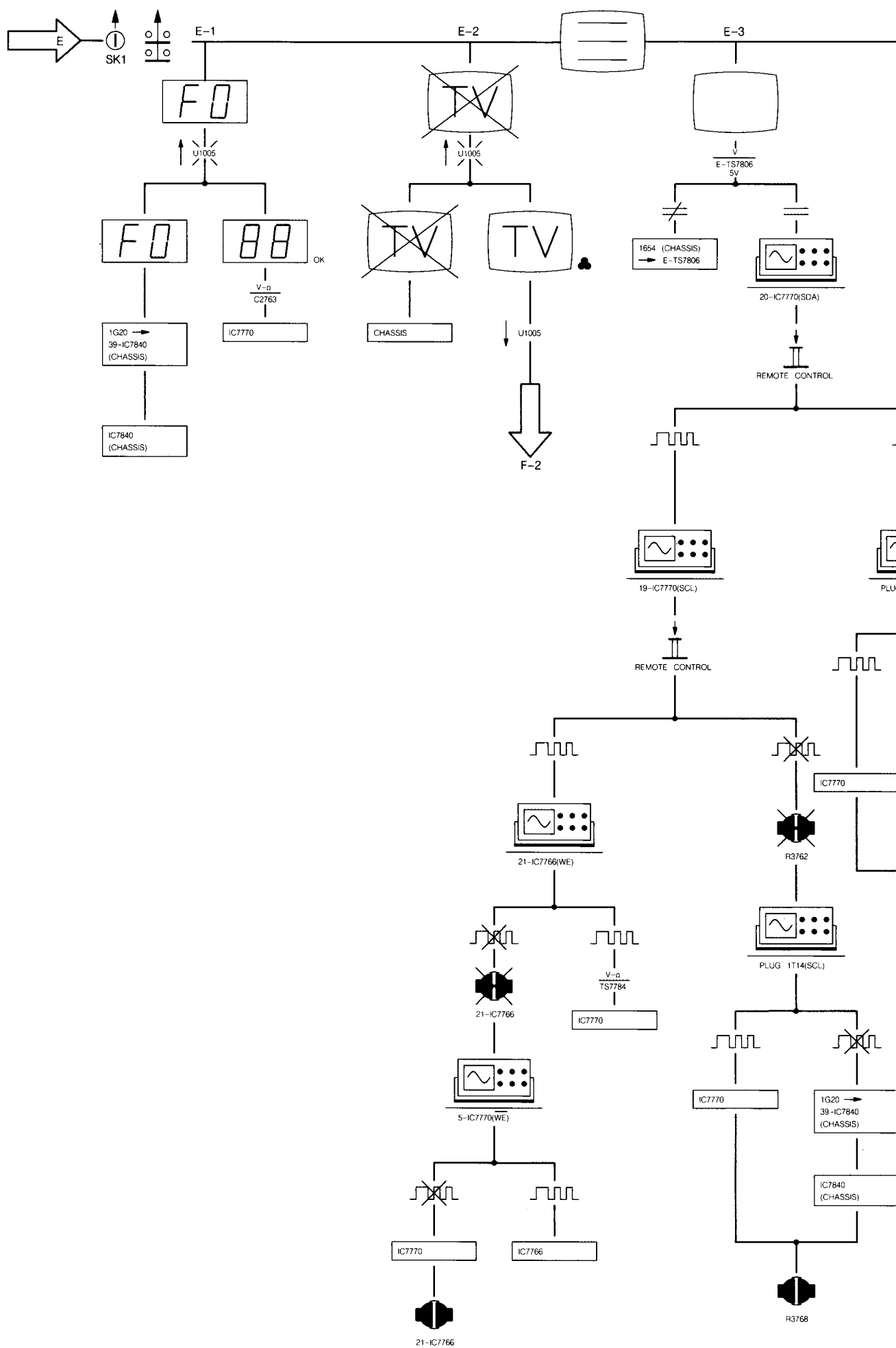
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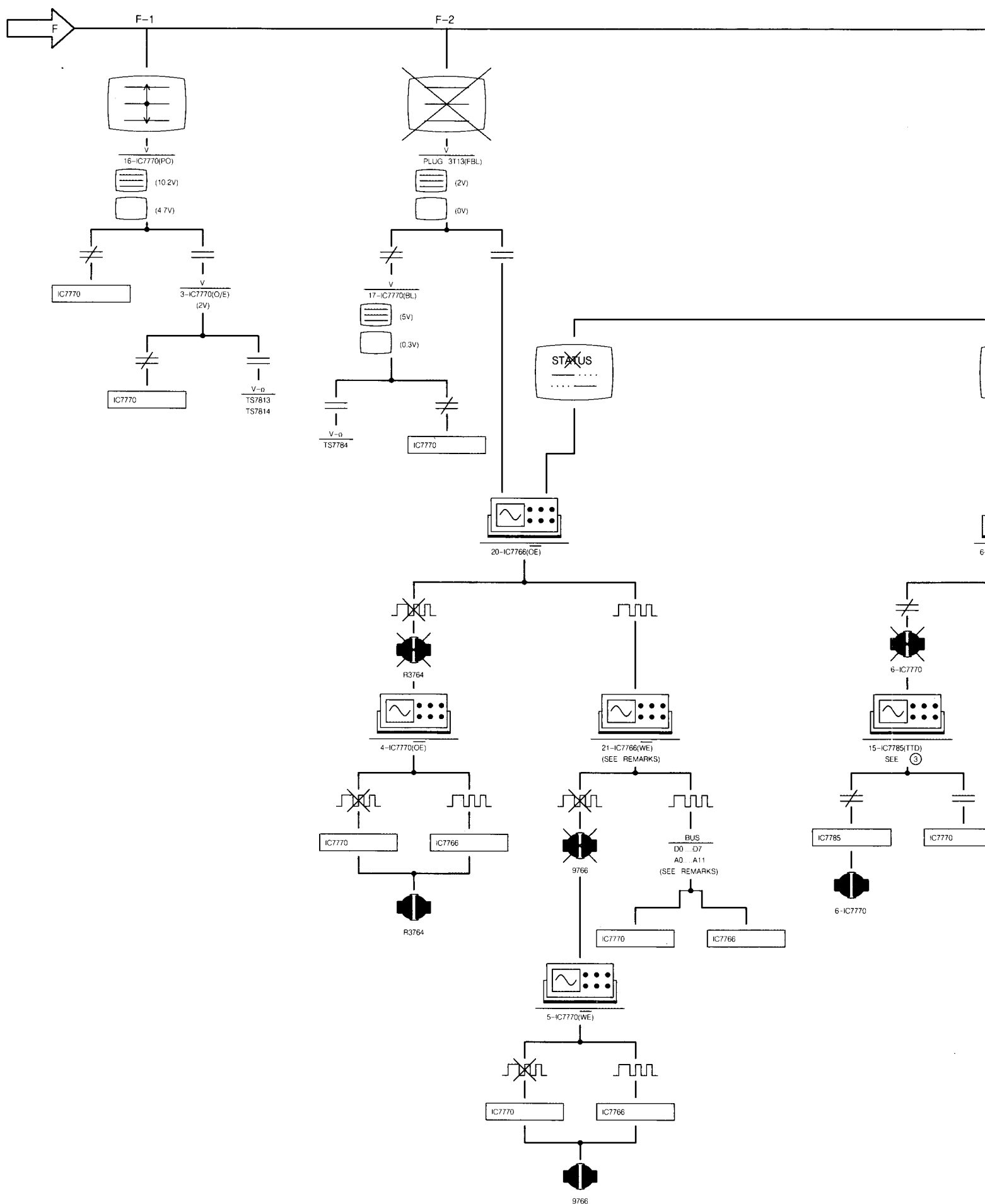
1005 CCT-DECODER/DECODATORE

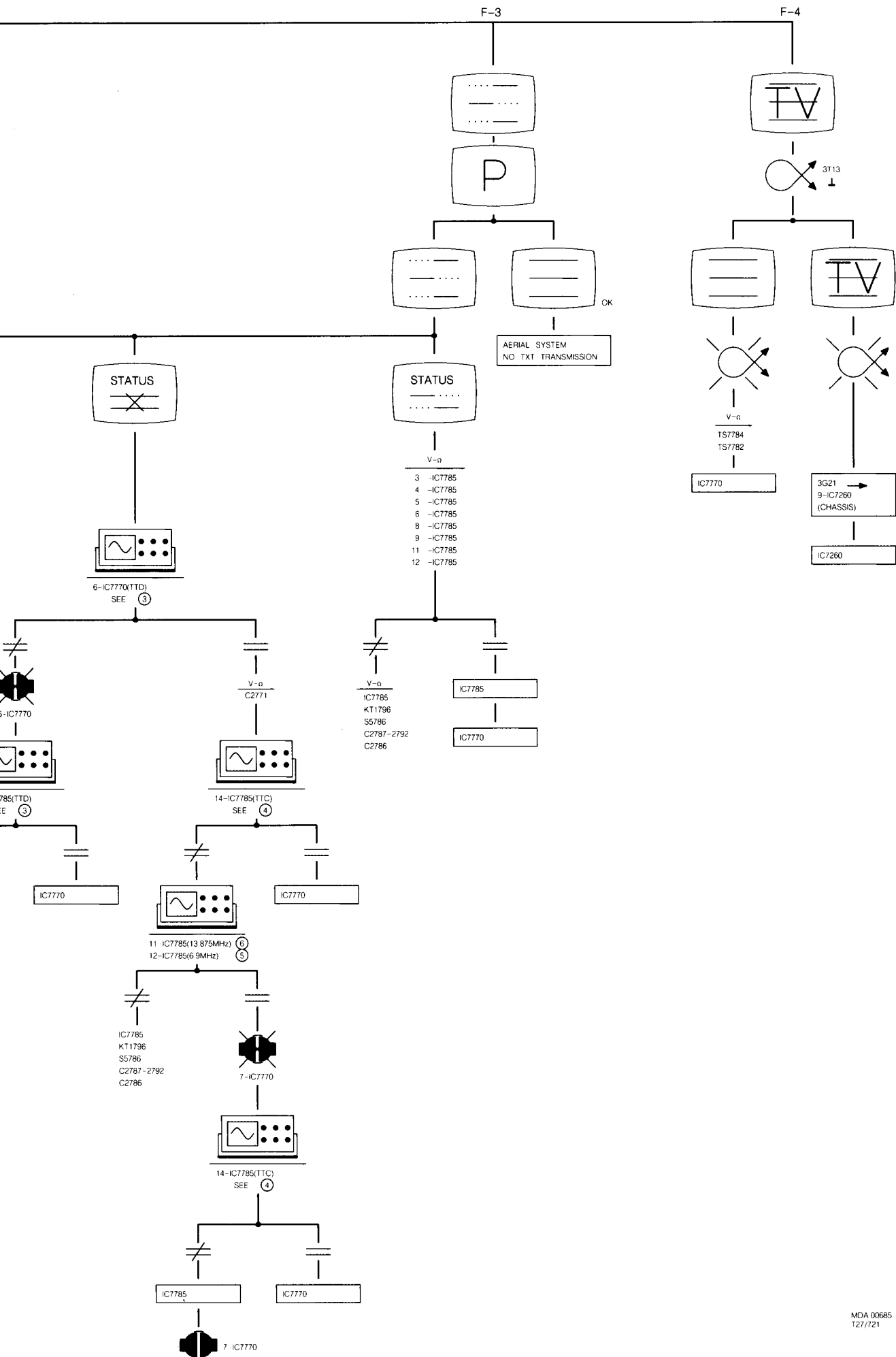






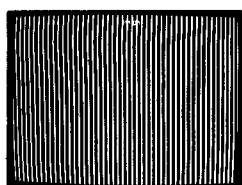




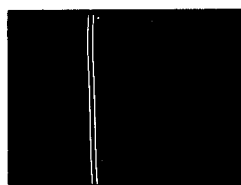


LOCATING BUS ERRORS IN THE TELETEXT DECODER

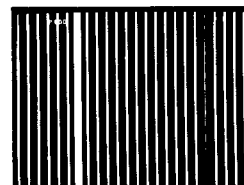
1. Loosen resistor 3784 on teletext decoder 1005.
Connect a piece of wire with measuring pin to pin 9 of IC7260.
2. Connect a TV pattern generator (i.e. PM5519) and tune the receiver normally.
Apply a white pattern and select the teletext mode with the remote control.
3. When transferring the measuring-pin to the points of IC7770 which are indicated under the pictures below a defined pattern is not present, but a uniform white or dark picture arises, there is question of short-circuit or an open connection on the relevant point. It may be caused by one of the two ICs, namely IC7766 - IC7770.



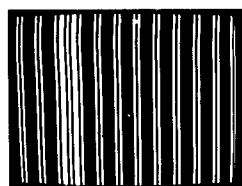
OE 4-IC7770



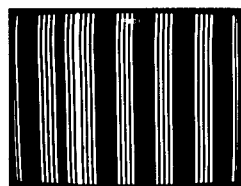
WE 5-IC7770



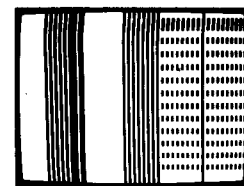
A0 30-IC7770



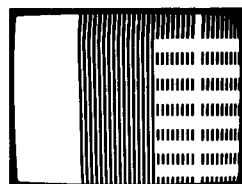
A1 31-IC7770



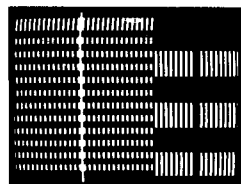
A2 32-IC7770



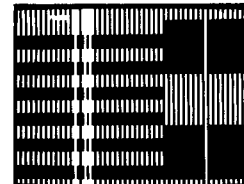
A3 33-IC7770



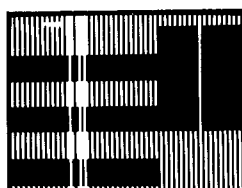
A4 34-IC7770



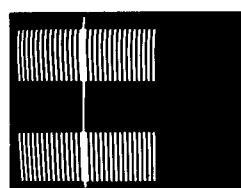
A5 35-IC7770



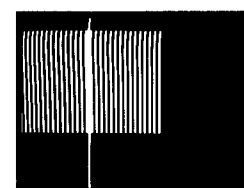
A6 36-IC7770



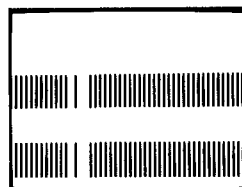
A7 37-IC7770



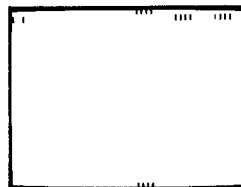
A8 38-IC7770



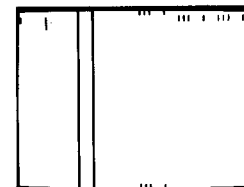
A9 39-IC7770



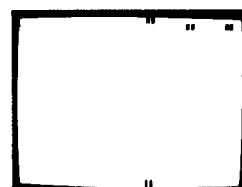
A10 40-IC7770



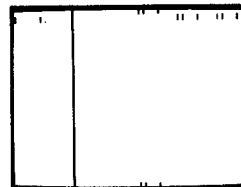
D0 22-IC7770



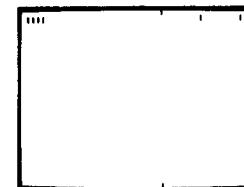
D1 23-IC7770



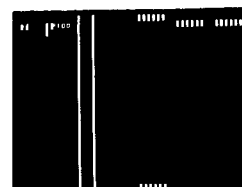
D2 24-IC7770



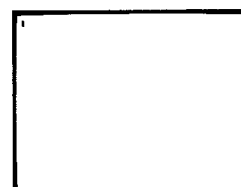
D3 25-IC7770



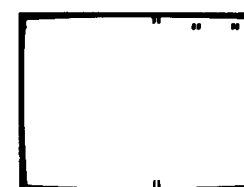
D4 26-IC7770



D5 27-IC7770



D6 28-IC7770

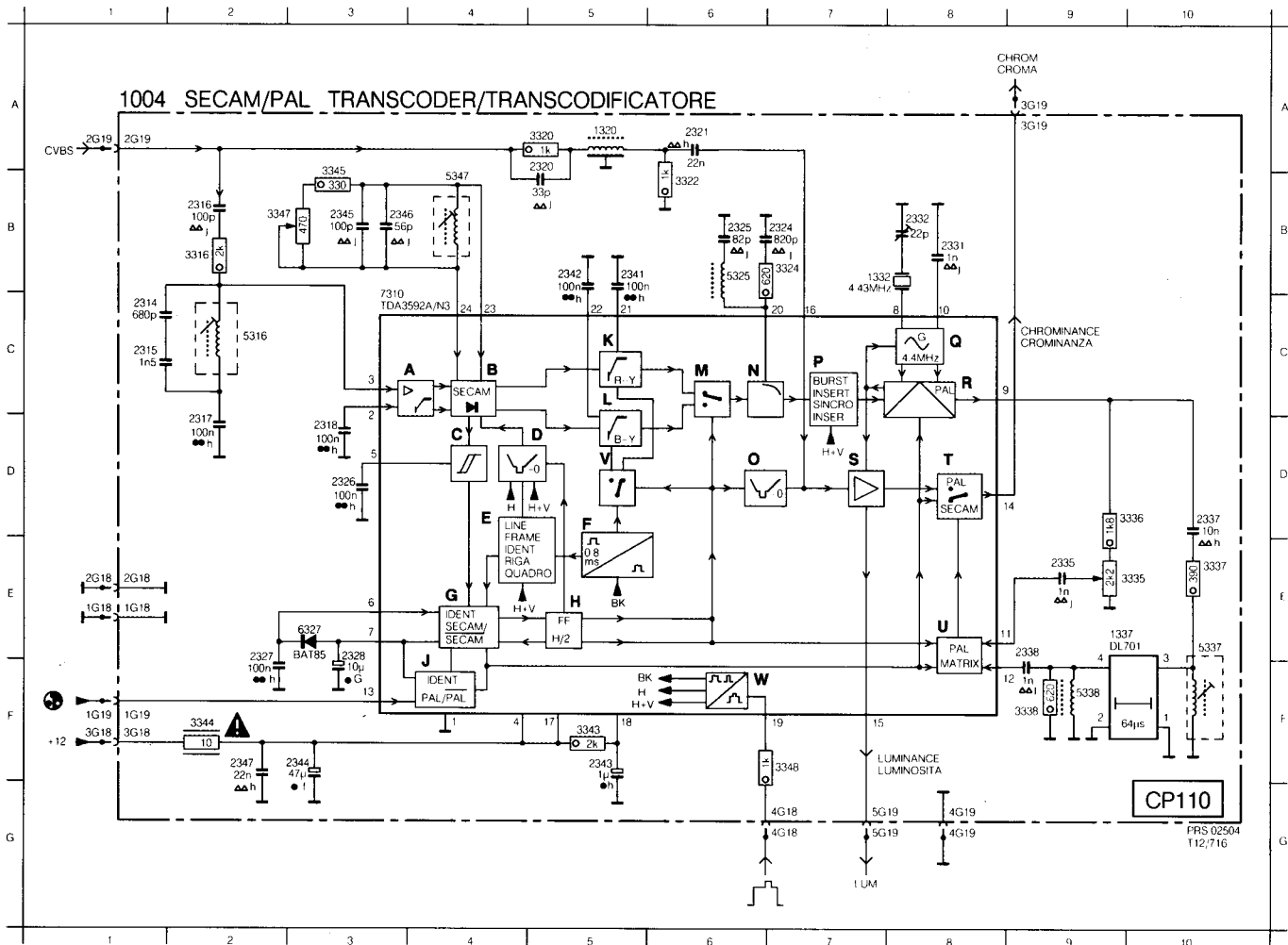


D7 29-IC7770

QUICK DIAGNOSIS CHART

Indication on programme display Indikation auf Programm Anzeige	Incorrect functioning Unrichtiges Funktionieren	Correct functioning Richtiges Funktionieren	Possible defective component Eventuelle schadhafte Komponente
F0			IC7770 C2763 (U1005) IC7840
F1			+12 supply +12 Speisung IC7840
F2'			IC7840
F3			IC7840
88 O.K.	R.C. commands Fernbedienungs- befehle	Local keyboard commands Nahbedienungs- befehle	U1003 (IR-receiver)
88 O.K.			IC7865

1320	A 5	2315	C 1	2320	A 5	2326	D 3	2332	B 8	2341	B 5	2345	B 3	3320	A 5	3336	D10	3344	F 2	5316	C 2	5347	B 4
1332	B 7	2316	B 2	2321	A 6	2327	E 2	2335	E 9	2342	B 5	2346	B 3	3322	B 6	3337	E10	3345	B 3	5325	B 6	6327	E 3
1337	E10	2317	D 2	2324	B 7	2328	E 3	2337	D10	2343	F 5	2347	F 2	3324	B 7	3338	F 9	3347	B 2	5337	E10	7310	C 3
2314	C 1	2318	D 3	2325	B 6	2331	B 8	2338	E 9	2344	F 3	3316	B 2	3335	E10	3343	F 5	3348	F 7	5338	F 9		



ADJUSTMENTS SECAM/PAL TRANSCODER

1. "Circuit cloche"

Disconnect jumper 9302 at one side.
Apply a signal of a signal generator to capacitor 2316.
Adjust the frequency of the signal generator for 4.286 MHz.
Connect an oscilloscope to pin 3 of IC7310.
Adjust 5316 for maximum amplitude.

2. Subcarrier oscillator

Apply a 75 % SECAM colour bar pattern.
Connect 6-IC7310 by means of a 10kΩ resistor to ground.
Connect a frequency counter with a high input impedance (via a probe $C \leq 2\text{pF}$) to pin 26-IC7260.
Adjust 2332 for a frequency of 8.867236 MHz.

3. SECAM demodulator

Apply a SECAM black frame signal.
Connect an oscilloscope to pin 14 of IC7310.
Adjust 3347 and 5347 for a minimum modulation.

4. Delay line

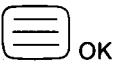
a. amplitude

Apply a SECAM red frame signal.
Connect an oscilloscope to pin 28 of IC7260.
Adjust 3335 for an equal amplitude of the lines.

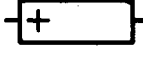
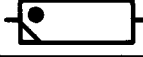
b. phase

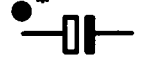
Adjust for a normal brightness and contrast.
Connect an oscilloscope to pin 16 of IC7260.
Apply a 75 % colour bar pattern.
Adjust the saturation control for an as flat as possible output voltage.
Then apply a 75% SECAM colour bar pattern.
Adjust 5337 so that the signal is virtually flat.

	Supply aerial signal (colour)		Normal sound		Line frame (Venetian blinds)
	Remove aerial signal		No or weak sound		Heavy horizontal bars
	Connect generator colour signal		No sound		Unstable TV picture
	Carry out voltage measurements		Sound distorted		Inject with frequency 2 half volume
	Carry out resistance (Ohmic) measurements		Connect black / white picture		... doesn't work
	Check ...		No or weak picture		Tune in ... Band
	Correct		Uniformly discoloured frame with no or weak picture		Colours
	Incorrect		Picture discoloured uniformly		One or two colours weak or not present
	Check circuit between ... and ...		Vertical amplitude too small or too large		Weak colours
	Set ...		Horizontal amplitude too small or too large		No colours
	Set ...		No vertical deflection		Switch the set on
	Remove unit		No vertical synchronisation		Correct television colour picture
	Insert unit		No horizontal synchronisation		TV-mode
	Connect the points A and B		Horizontal centring incorrect		Teletext-mode
	Remove connection between points A and B		Vertical centring incorrect		Teletext rows are missing or include incorrect characters
	Adjustment (general)		Vertical linearity incorrect		Statusrow is correct, other TXT-rows are missing
	Adjustment yields no result		The left and right vertical lines are curved		Statusrow is correct, other rows include errors
	Filament of picture tube glows		No horizontal deflection		Statusrow is not correct, other rows include errors
	Filament of picture tube does not glow		No synchronisation		Select other programm
	Too much light		Colour blurs in black / white picture		Unsynchronized TXT-picture
	Insufficient light		Strong colour noise in black / white picture		Teletext picture moves left / right
	No light		Correct sequence of colours		Teletext picture moves up / down

	Replace IC ...		No or weak horizontal bars
	Desolder ...		Vertical lines are curved no TV picture no synchronisation
	Resolder ...		Error indication on display
	Measure the signal / oscillogram		Programme display correct
	Measure frequency		No teletext
	Pulse / pulse train present		Teletext correct
	Pulse / pulse train not present		Mixed teletext and TV picture
	Check lines ... for bus errors		
	Depress key ...		
	Is approximately equal to ...		
	Is equal to ...		
	Is not equal to ...		

SYMBOLS USED IN CIRCUIT DIAGRAMS

SYMBOL	TYPE	$t \frac{P}{70^\circ \text{ amb}}$	TOLERANCE	SERIES
	SFR16T	0.5	1E - 3M 5%	E24
	SFR25H	0.5	1E - 10M 5%	E24
	MRS25	0.6	1E - 1M 1%	E24
	MR30	0.5	1E - 1M 1% (2%)	E24
	VR37	0.5	220K - 33M 5%	E24
	PR37	1.6	1E - 1M 5%	E24
	VR68	1	100K - 68M 5%	E24
	MRS 16T	0.4	10R - 100K	E24/E96

SYMBOL	TYPE	VOLTAGE DC	TOLERANCE
	POLYESTER FLATFOIL	SEE NOTE	10%
	PLATE CERAMIC	SEE NOTE	DEPENDING ON CAPACITY
	ELCO MINIATURE SINGLE	SEE NOTE	-10+50%
	ELCO SINGLE ENDED	SEE NOTE	±20%

NOTE:

*	f = 25V	q = 200V	x = 1000V	E = 20V
	g = 40V	r = 250V	z = 1600V	F = 35V
a = 2.5V	h = 63V	s = 300V	A = 1.6V	G = 50V
b = 4V	j = 100V	t = 350V	B = 6V	H = 75V
c = 6.3V	l = 125V	u = 400V	C = 12V	I = 80V
d = 10V	m = 150V	v = 500V	D = 15V	
e = 16V	n = 160V	w = 630V		

39 301 A13/617

Service Information

1989-04-13

CHASSIS CP 110

CT89-02

(GB)

In the course of production, the carrier panel and the picture tube panel have been modified. These modified panels have been applied in sets whose serial numbers start with QGII, AGII or higher.

Also in sets with serial numbers starting with QG09, AG09, the FLOF teletext has been introduced together with a mask change of the microprocessor:

TMP47C432 – 8188 for TXT CEEFAX
TMP47C432 – 8189 for TXT FLOF

So this means that, depending on the microprocessor, either a TXT CEEFAX or a TXT FLOF can be built into a non-teletext set.

This service information gives the modified and new circuit diagrams, the print layouts of the modified and the new printed boards and the parts lists.

(F)

En cours de production, la platine porteuse et celle du tube image ont été modifiées. Ces platines sont montées dans des appareils dont le n° de série commence par QGII, AGII et suivants.

Dans les appareils dont le n° de série commence par QG09, AG09 et suivants il y a également eu l'introduction du télétexte FLOF. Ceci a été de pair avec un changement du masque du microprocesseur. A savoir:

TMP47C432 – 8188 pour le TXT CEEFAX
TMP47C432 – 8189 pour le TXT FLOF

Ceci signifie donc que dans des appareils ne présentant pas de télétexte, il y a moyen de monter soit un TXT CEEFAX, soit un TXT FLOF, ceci indépendamment de la version du microprocesseur.

Cette Info Service comporte les nouveaux schémas de principe modifiés, les dessins de platines des platines nouvelle et ancienne version et, la liste de pièces.

(NL)

Tijdens productie zijn het dragerpaneel en het beeldbuispaneel gewijzigd. Deze gewijzigde panelen zijn toegepast in apparaten waarvan het serienummer begint met QGII, AGII of hoger.

Tevens is in apparaten waarvan het serienummer begint met QG09, AG09 of hoger de FLOF teletekst ingevoerd. Dit is samen gegaan met een masker wijziging van de microprocessor:

TMP47C432 – 8188 voor TXT CEEFAX
TMP47C432 – 8189 voor TXT FLOF

Dit betekent dus dat in niet teletekst apparaten afhankelijk van de microprocessor versie een TXT CEEFAX of een TXT FLOF ingebouwd kan worden.

In deze service informatie worden de gewijzigde en nieuwe principe schema's, de print lay-outs van de gewijzigde en nieuwe panelen en de stuklijst gegeven.

(D)

Während der Produktion wurden die Trägerplatte und die Bildröhreplatte geändert. Diese geänderten Platten sind in Geräten, deren Seriennummer mit QGII, AGII oder höher anfängt, angewandt.

Gleichzeitig wurde in Geräten, deren Seriennummer mit QG09, AG09 oder höher anfängt, der FLOF-Videotext eingeführt. Dies war verbunden mit einer Maskenänderung des Mikroprozessors. Nämlich:

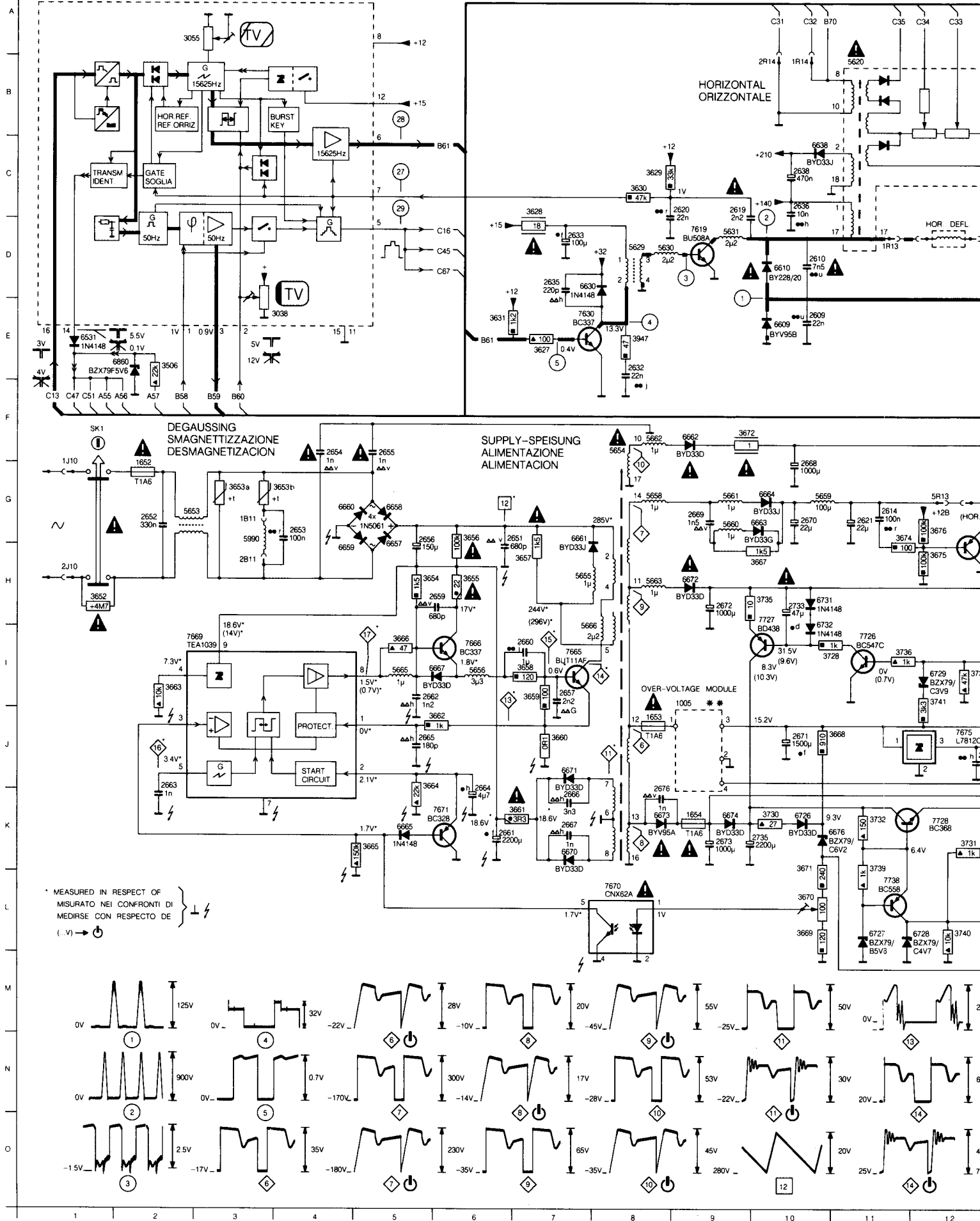
TMP47C432 – 8188 für TXT CEEFAX
TMP47C432 – 8189 für TXT FLOF

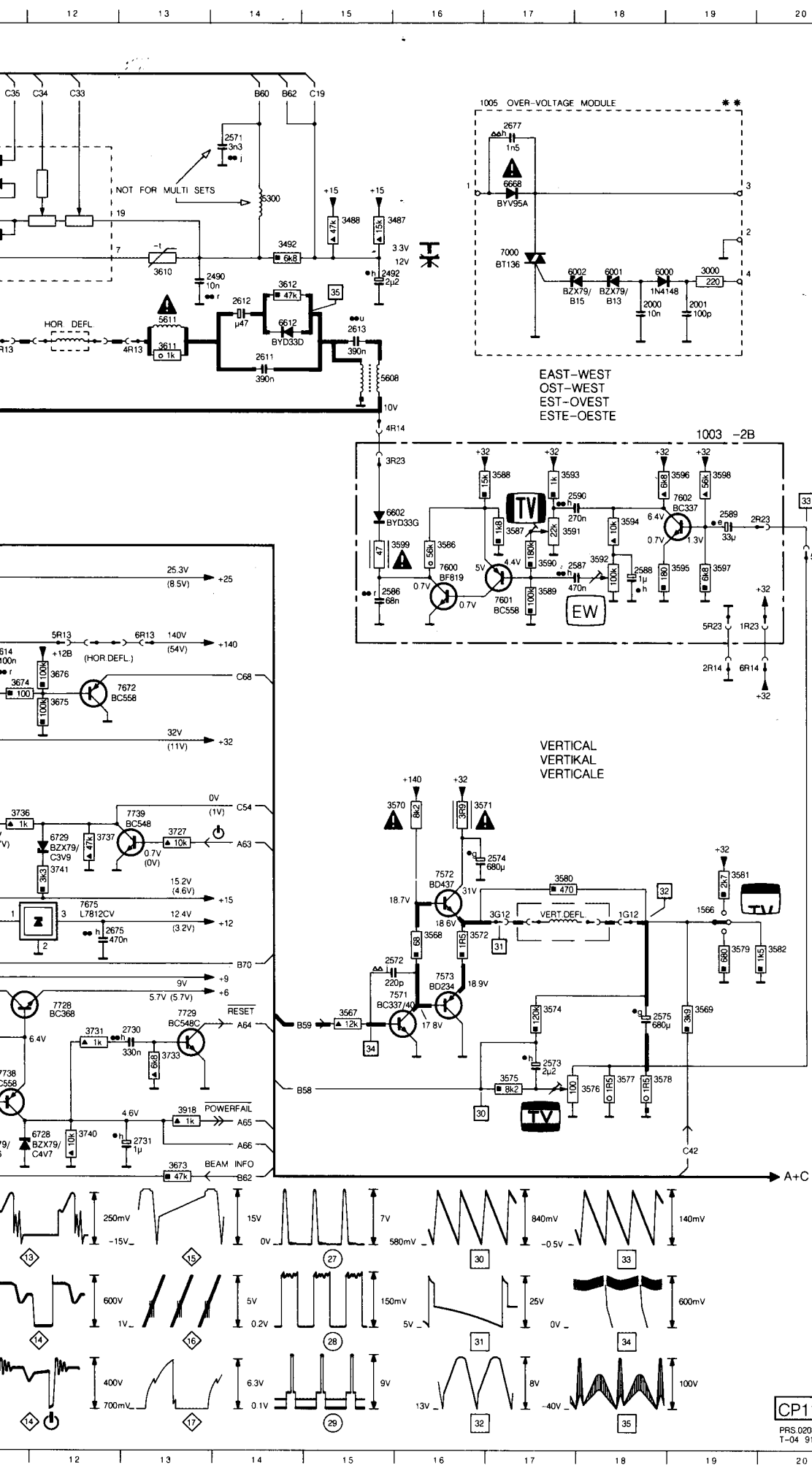
Das bedeutet also, dass in Nicht-Videotext-Geräte je nach Mikroprozessor-Ausführung ein TXT CEEFAX oder ein TXT FLOF eingebaut werden kann.

In dieser Service-Information sind die geänderten und neuen Prinzipschaltbilder, die Printplattenauslegungen der geänderten und neuen Platten und die Stückliste enthalten.

DIAGRAM-SCHALTBIID-SCHEMA-DIAGRAMA B

1001-2B SYNCHRONISATION-SINCROIZZAZIONE-SYNCRONISMO

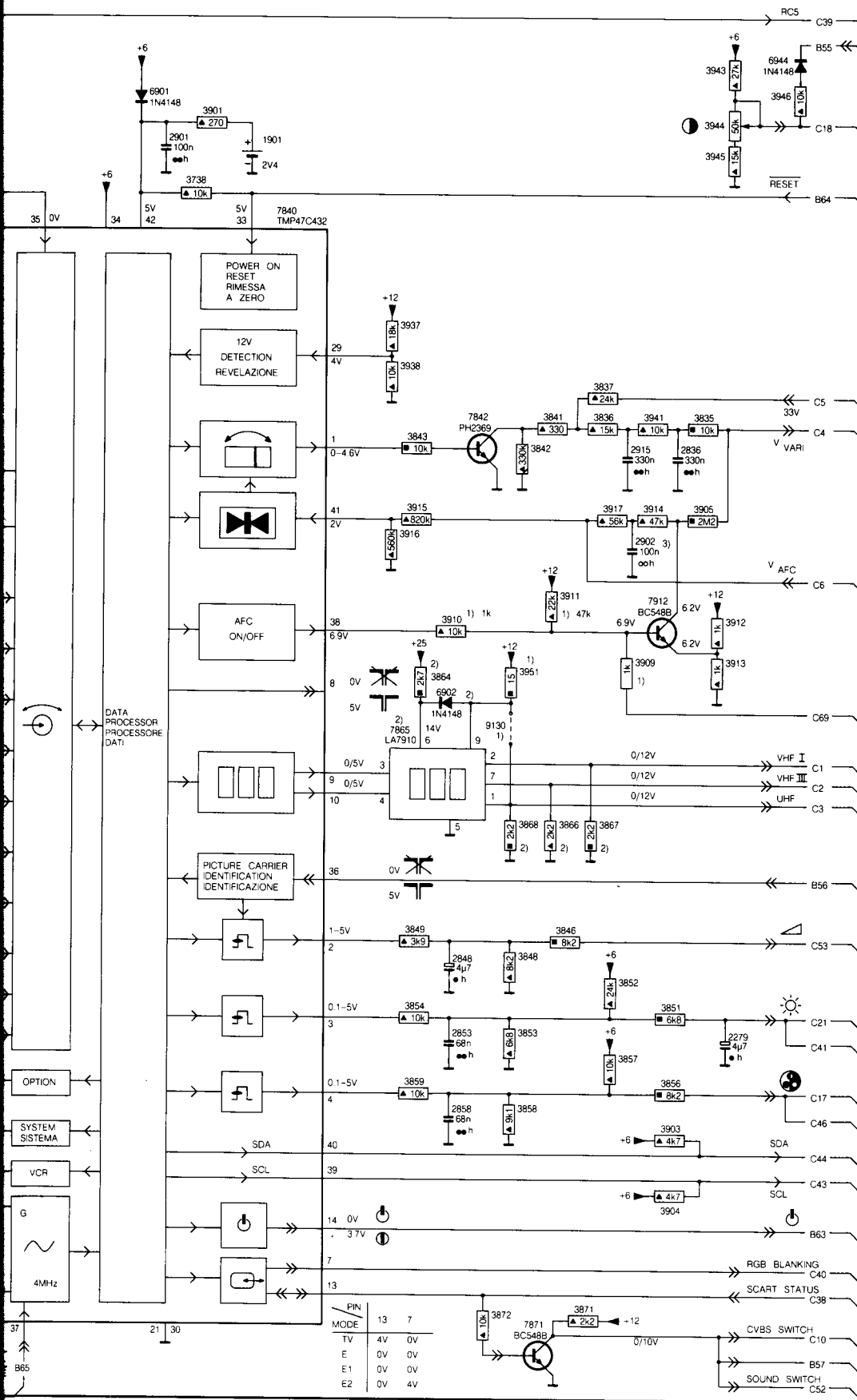




1001	A 1	3918	L13
1003	E19	3947	E 8
1005	I 9	5300	B14
1005	A17	5608	D16
1566	J19	5611	D13
1652	G 2	5620	B11
1653	J 8	5629	D 8
1654	K 9	5630	D 8
2000	C18	5631	O 9
2001	C19	5653	G 2
2490	C14	5654	F 8
2492	C16	5655	H 7
2571	B14	5656	I 6
2572	J16	5658	G 8
2573	K17	5659	G10
2574	I17	5660	G 9
2575	K19	5661	G 9
2586	F16	5662	F 8
2587	H18	5663	H 8
2588	F18	5665	I 5
2589	F19	5666	H 8
2590	E18	5990	G 3
2609	E10	6000	C18
2610	D10	6001	C18
2611	D14	6002	C18
2612	C14	6531	E 1
2613	D15	6602	F16
2614	G11	6609	E10
2619	C 9	6610	D10
2620	C 9	6612	D14
2621	G11	6630	D 7
2632	E 8	6638	C10
2633	D 7	6657	G 5
2635	D 7	6658	G 5
2636	C10	6659	H 4
2638	C10	6660	G 4
2651	G 7	6661	G 7
2652	G 2	6662	F 9
2653	G 4	6663	G10
2654	F 4	6664	G10
2655	F 5	6665	K 5
2656	G 5	6667	6
2657	I 7	6668	B17
2659	H 6	6670	K 7
2660	I 7	6671	J 7
2661	K 6	6672	H 9
2662	I 6	6673	K 8
2663	J 2	6674	K 9
2664	J 8	6676	K11
2665	J 5	6726	K10
2666	K 7	6727	L11
2667	K 7	6728	L12
2668	F10	6729	I12
2669	G 9	6731	H10
2670	G10	6732	H10
2671	J10	6860	E 2
2672	H 9	7000	C17
2673	K 9	7571	K16
2675	J12	7572	I16
2676	J 8	7573	K16
2677	A17	7574	K16
2730	K13	7601	G17
2731	L13	7609	E19
2733	H10	7619	D 9
2735	K10	7630	E 7
3000	C19	7665	I 7
3038	E 4	7666	I 6
3055	A 2	7669	I 3
3487	B16	7670	L 8
3488	B15	7671	K 6
3492	C14	7672	G13
3506	E 2	7675	J12
3567	K15	7726	I11
3568	J16	7727	H10
3569	K19	7728	K12
3570	I16	7729	K13
3571	I17	7738	L11
3572	J16	7739	I13
3574	K17	SK1	F 1
3575	L17		
3576	L18		
3577	L18		
3578	L19		
3579	J19		
3580	I17		
3581	I19		
3582	J20		
3586	F16		
3587	F17		
3588	F17		
3589	F17		
3590	F17		
3591	F18		
3592	F18		
3593	E17		
3594	F18		
3595	F19		
3596	E19		
3597	F19		
3598	E19		
3599	F16		
3610	C13		
3611	D13		
3612	C14		
3627	E 7		
3628	C 7		
3629	C 8		
3630	C 8		
3631	E 6		
3652	H 1		
3653	G 3		
3653	G 4		
3654	H 6		
3655	H 6		
3656	G 6		
3657	H 7		
3658	I 7		
3659	I 7		
3660	J 7		
3661	K 7		
3662	J 6		
3663	I 2		
3664	J 6		
3665	K 5		
3666	I 5		
3667	H10		
3668	J11		
3669	L10		
3670	L10		
3671	K10		
3672	F 9		
3673	M13		
3674	G11		
3675	H12		
3676	G12		
3727	I13		
3728	I11		
3730	K10		
3731	K12		
3732	K11		
3733	K13		
3735	H10		
3736	I11		
3737	I12		
3739	K11		
3740	L12		
3741	I12		

A
B
C
D
E
F
G
H
I
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K
L
M
N
O

VST2 SYSTEM SISTEMA VST2



CP110

PRS 02082
T-02 903

1003	A 3
1901	C11
1934	N 8
1986	A 2
2279	L16
2836	F15
2848	K13
2853	L13
2858	L13
2875	F 4
2901	C10
2902	G15
2915	F15
2934	M 8
2935	N 8
3520	B 6
3521	B 6
3522	B 7
3523	A 7
3726	M 7
3729	N 6
3738	C11
3835	F16
3836	F15
3837	E15
3841	F14
3842	F14
3843	F13
3846	K14
3848	K14
3849	K13
3851	K15
3852	K15
3853	L14
3854	K13
3856	L15
3857	L15
3858	L14
3859	L13
3864	H13
3866	J14
3867	J15
3868	J14
3870	M 8
3871	N14
3872	N14
3875	E 4
3876	F 6
3877	F 8
3878	F 8
3879	G 8
3883	G 7
3884	H 7
3885	H 7
3886	I 7
3887	I 7
3889	J 7
3890	K 7
3891	J 7
3901	C11
3903	M15
3904	M15
3905	F16
3909	H15
3910	H13
3911	G14
3912	H16
3913	H16
3914	F15
3915	F13
3916	G13
3917	F15
3937	E13
3938	E13
3941	F15
3943	B16
3944	C16
3945	C16
3946	B16
3951	H14
6530	A 7
6733	M 7
6875	E 5
6896	K 5
6897	J 5
6901	B10
6902	H13
6903	L 8
6904	L 8
6905	C 5
6944	B16
7517	B 7
7730	M 6
7732	M 7
7840	D11
7842	F13
7865	I13
7871	N14
7876	F 5
7878	F 7
7880	G 1
7912	G15
9130	I14

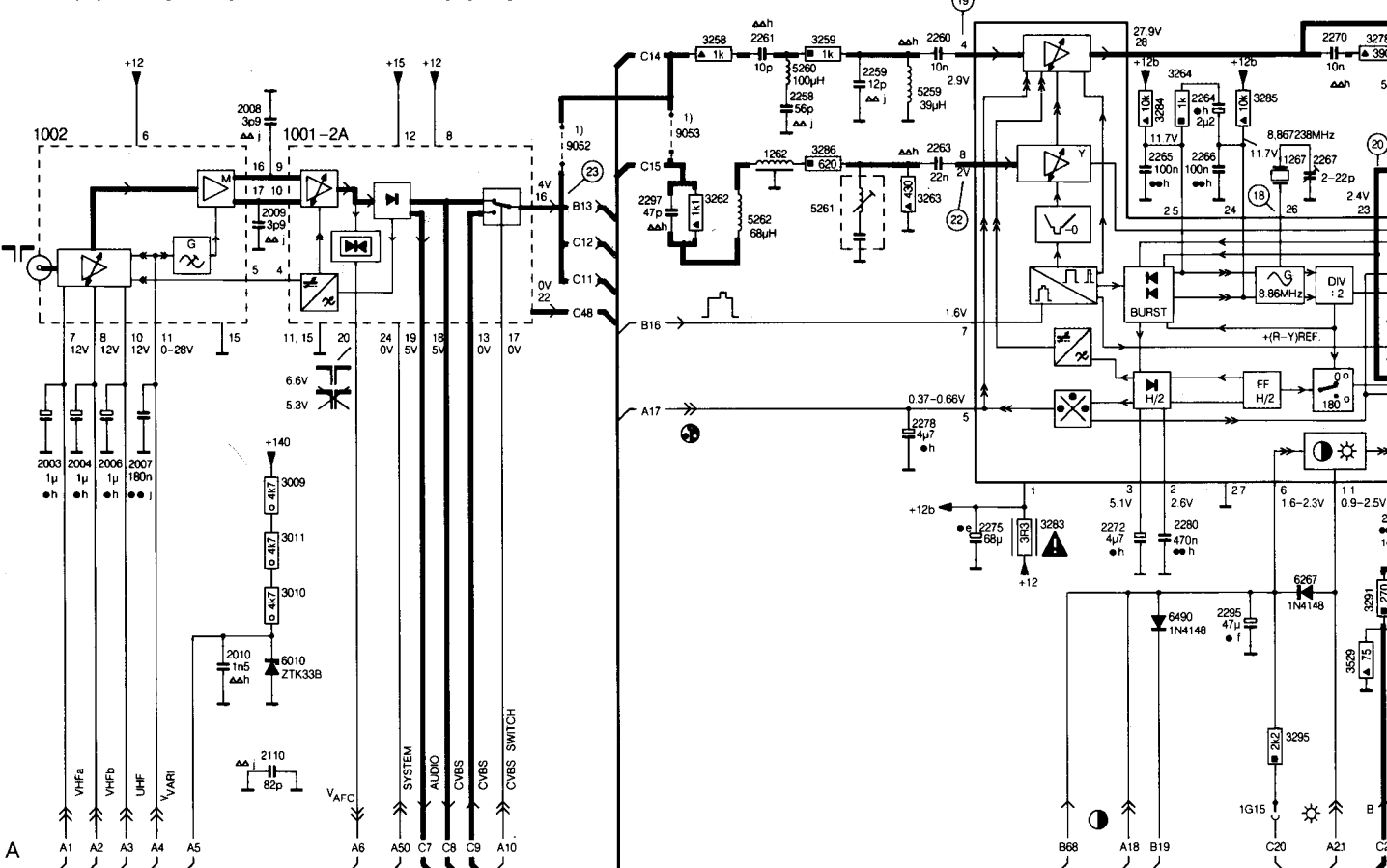
1001 C 3 1270 B13 2101 I20 2110 H 3 2124 K18 2266 C11 2286 F13 2401 B17 2411 E18 2525 L 5 3103 J14 3117 M15 3264 B10 3282 B14 3292 G15 3407 D16 3
 1002 C 1 1990 D22 2102 I21 2111 K21 2125 K17 2267 C12 2287 F12 2402 F17 2412 B18 2526 L14 3104 J15 3118 L15 3265 J 8 3283 F 9 3293 G14 3409 H18 3
 1003 A16 2003 E 1 2103 I19 2112 K22 2258 B 7 2270 B12 2290 F15 2403 D17 2413 G18 2527 L 5 3106 L20 3121 K18 3267 F14 3284 B10 3294 H14 3410 H18 3
 1004 L13 2004 E 1 2104 K14 2113 J21 2259 B 8 2272 F10 2291 F15 2404 H18 2503 K 3 3009 F 3 3107 K20 3122 K19 3269 F13 3285 B11 3295 H11 3411 H17 3
 1005 I10 2006 E 1 2105 K15 2114 K20 2260 B 8 2274 B14 2292 F14 2405 G17 2507 L 4 3010 F 3 3111 J21 3132 I21 3271 F12 3286 C 7 3402 C16 3412 G17 3
 1103 I14 2007 E 2 2106 K17 2115 J21 2261 B 7 2275 F 9 2295 G11 2406 A17 2520 K17 3011 F 3 3113 K21 3258 B 6 3278 B12 3287 J 8 3403 B17 3413 H16 3
 1104 J14 2008 B 3 2107 I17 2116 K18 2263 C 8 2278 E 8 2296 F16 2407 F21 2521 K 5 3059 L 9 3114 K21 3259 B 7 3279 B14 3289 F13 3404 G17 3414 G16 3
 1262 C 7 2109 C 3 2108 I15 2118 K19 2264 B11 2280 F10 2297 C 6 2408 G20 2523 M16 3101 I19 3115 K21 3262 C 7 3280 B15 3290 F13 3405 E16 3415 G16 3
 1267 C11 2010 G 2 2109 I16 2123 L19 2265 C10 2285 F14 2298 C14 2409 H19 2524 M 5 3102 I21 3116 M14 3263 C 8 3281 B14 3291 F12 3406 E17 3416 H17 3

DIAGRAM-SCHALTBILD-SCHEMA-DIAGRAMA C

CHANNEL SELECTOR
KANALWAHLER
SELETTORE CANALE
SELECTOR DE CANALES

IF AMPL.+DET. +AGC. +AFC.
ZF VERST. +DEM. +AVR. +AFA.
AMPL. FI +RIVEL. CAG. +CAF.
AMPL. FI +DET. +CAG. +CAF.

CHROMINANCE + LUMINANCE
FARBART + LEUCHTDICHT
CROMINANZA + LUMINANZA
CROMIANANCIA + LUMINANCIA



REMARKS-ANMERKUNGEN-NOTE

- 1) -NOT PRESENT FOR PAL/SECAM SETS
-NICHT PRESENT IN PAL/SECAM GERAETEN
-ASSENTE SUI MODELLI CON PAL/SECAM

- 2) -FOR VERSION:

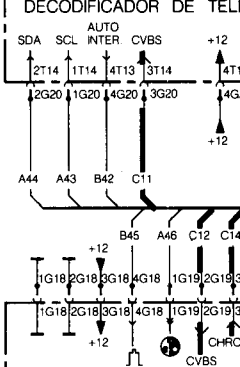
	BG 5.5MHz	I 6MHz	MULTI-FR 6.0MHz	P/S BG 6.5MHz
1103	-	X	-	-
1104	-	-	-	-
2109	-	-	-	-
5109	-	-	-	-
9039	X	X	-	-

X - PRESENT - - NOT PRESENT

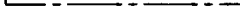
- 3) -ONLY FOR MULTI SETS

- 4) -ONLY FOR AMTSBLATT VERSION

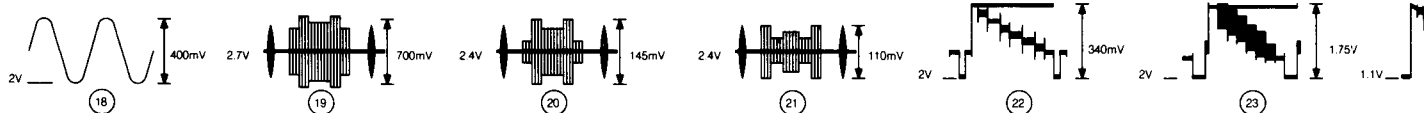
TXT-DECODER DECODIFICATORE TELEVISIVO DECODIFICADOR DE TELEVISION



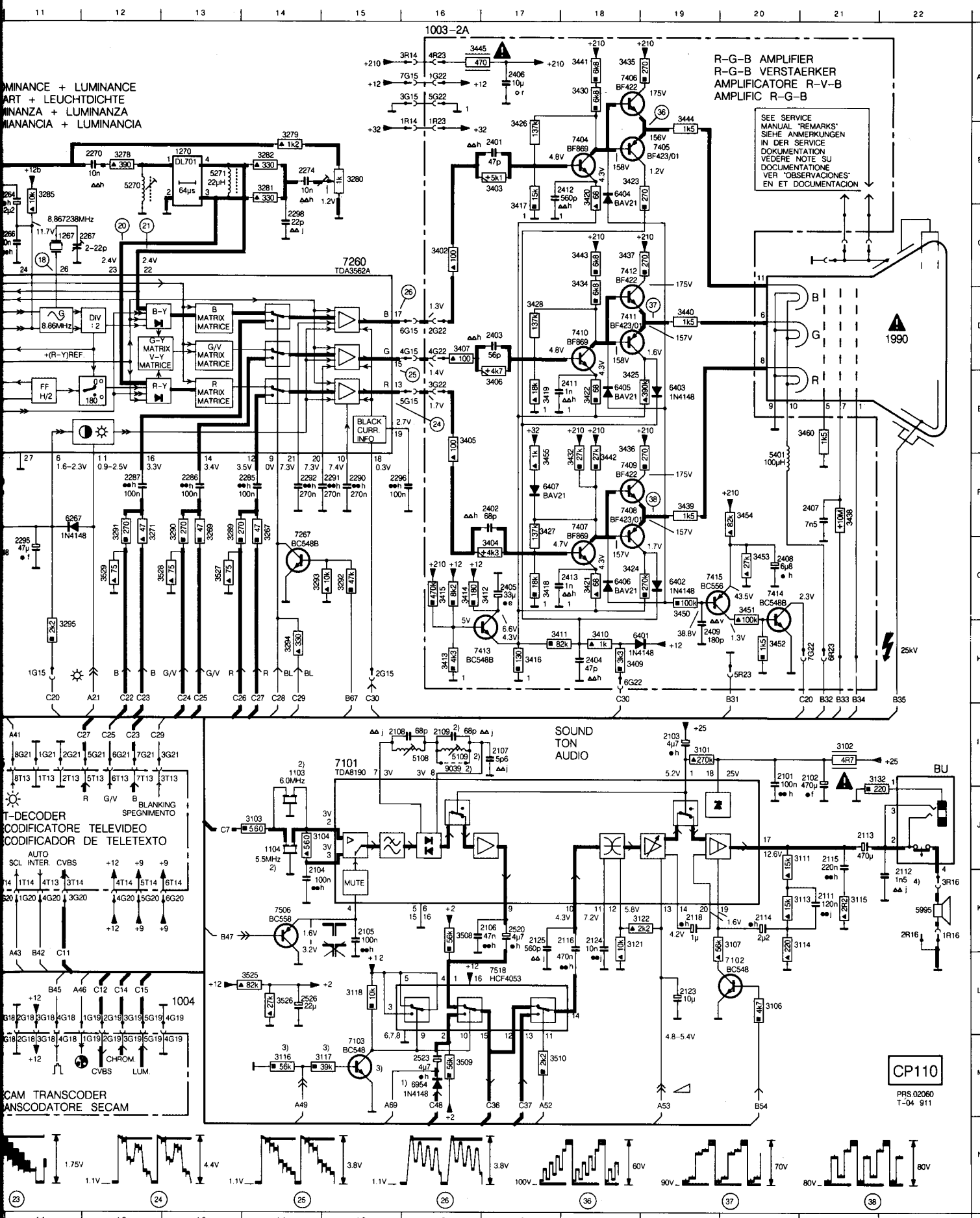
SECAM TRANSCODER TRANSCODATORE SECAM



SCART CONNECTOR/PRESA DI PERITELEVISIONE



3292	G15	3407	D16	3417	C17	3426	B17	3438	F21	3451	G20	3504	M 4	3514	J 9	3529	G12	5270	B12	6404	B18	7260	C15	7411	D18	7516	K 9
3293	G14	3409	H18	3418	G17	3427	F17	3439	F19	3452	H20	3505	M 4	3515	K 9	3530	L10	5271	B13	6405	E18	7267	F14	7412	C18	7518	L17
3294	H14	3410	H18	3419	E17	3428	D17	3440	D19	3453	G20	3507	K 3	3517	J 6	3531	L 8	5401	F20	6406	G18	7404	B18	7413	H17	9052	C 5
3295	H11	3411	H17	3420	B18	3430	A18	3441	A18	3454	F20	3508	K16	3518	K 5	5108	I16	5995	K22	6407	F17	7405	B19	7414	G20	9053	C 6
3402	C16	3412	G17	3421	G18	3432	F18	3442	F18	3455	F17	3509	M16	3524	L10	5109	I16	6010	G 3	6490	G10	7406	A18	7415	G19	BU	M 5
3403	B17	3413	H18	3422	E18	3434	C18	3443	C18	3460	E21	3510	M18	3526	L14	5259	B 8	6267	F11	6954	M16	7407	F18	7505	L 4		
3404	G17	3414	G16	3423	B18	3435	A18	3444	A19	3501	K 5	3511	J 6	3526	L14	5260	B 7	6401	H19	7101	I 15	7408	F18	7506	K14		
3405	E16	3415	G16	3424	B18	3436	A18	3445	A16	3502	K 6	3512	J 9	3527	G13	5261	C 7	6402	G19	7102	L20	7409	F18	7512	J 5		
3406	E17	3416	H17	3425	E18	3437	C18	3450	G19	3503	L 3	3513	J 9	3528	G12	5262	C 7	6403	E19	7103	M15	7410	D18	7514	J 9		



CARRIER PANEL

 CNX62A 4822 130 80908 HCF4053BE 4822 209 10576 LA7910 4822 209 10892 LN524RAP 4822 130 90388 L7812CV 5322 209 86176 TDA3562A/N5 4822 209 71751 TDA8190 4822 209 70872 TEA1039/N4 4822 209 83104 TMP47C432AP 4822 209 72038 mask 8188 TMP47C432AP 4822 209 73665 mask 8189	 5108 4822 157 53064 5109 4822 157 53064 5259 4822 157 52287 5260 4822 157 53065 5260 4822 157 52265 for amtsblatt 5261 4822 157 52807 5262 4822 157 53093 5270 4822 157 52808 5271 4822 157 53252 5300 4822 157 51462 5608 4822 157 53069 5611 4822 150 50073 line output 5620 4822 140 10325 line driver 5629 4822 140 10324 5630 4822 157 5631 4822 157 53308 5653 4822 157 53068 5654 4822 148 60165 SOPS 5655 4822 157 51195 5656 4822 157 51157 5658 4822 157 51195 5659 4822 157 5660 4822 157 51195 5661 4822 157 51195 5662 4822 157 51195 5663 4822 157 51195 5665 4822 157 52223 5666 4822 157
 BC328 4822 130 44104 BC337 4822 130 40855 BC337-40 4822 130 41344 BC368 5322 130 44647 BC547C 4822 130 44503 BC548 4822 130 40938 BC548B 4822 130 40937 BC548C 4822 130 44196 BC558 4822 130 40941 BD234 4822 130 40917 BD437 4822 130 40982 BD438 4822 130 40995 BUT11AF 4822 130 42679 BU508A 4822 130 60263 PH2369 4822 130 41594	 5666 4822 157 5663 4822 157 51195 5665 4822 157 52223 5666 4822 157
 BYD33D 4822 130 42488 BYD33G 4822 130 42489 BYD33J 4822 130 42606 BYV95A 4822 130 41601 BYV95B 4822 130 41486 BY228/20 4822 130 81099 BZX79-C3V9 4822 130 31981 BZX79-C4V7 4822 130 34174 BZX79-C5V6 4822 130 34173 BZX79-C6V2 4822 130 80303 CQS51-4 4822 130 80309 ZTK33B 4822 130 30959 1N4148-75 4822 130 33939 1N5061 4822 130 31933	 3102 4822 111 30499 4.7 Ω 0.33W 3280 4822 100 20148 1 kΩ potm. 3283 4822 111 30593 3.3 Ω 0.33W 3570 4822 116 51166 8.2 kΩ 2.5W 3571 4822 111 30821 3.9 Ω 0.5W 3576 4822 101 10818 100 Ω potm. 3610 4822 116 30323 150 kΩ NTC 3628 4822 111 30504 6.8 Ω 0.33W 3653 4822 116 40065 PTC 3656 4822 116 80288 100 kΩ 2W 3657 4822 116 81761 1.5 kΩ 7W 3660 4822 113 80429 0.1 Ω 2W 3667 5322 116 54272 1.5 kΩ 2.5W 3670 4822 100 10361 100 Ω potm. 3672 4822 111 30483 1 Ω 0.33W 3875 4822 111 30593 3.3 Ω 0.33W 3909 4822 116 52204 1 kΩ 0,125 W 3944 4822 101 10819 50 kΩ potm.

CARRIER PANEL

					
2113	4822 124 41334	470 µF 35 V	10J	4822 290 60626	2P
2123	4822 124 40435	10 µF 50 V	11B	4822 267 40653	2P
2267	4822 125 50045	20 pF trimm.	12G	4822 265 30273	3P
2521	4822 124 40434	22 µF 35V	13R	4822 267 30546	6P
2526	4822 124 40434	22 µF 35V	14R	4822 267 30546	6P
2571	4822 122 30099	3.3 nF 100V	15G	4822 265 40252	7P
2610	5322 121 44357	7.5 nF 2kV	16R	4822 267 40653	2P
2611	4822 121 40479	390 nF 250V	17	4822 264 50177	10P for coil cable
2612	4822 124 22417	470 nF 160V	18G	4822 266 30276	4P
2619	4822 121 41339	2.2 nF 2kV	19G	4822 265 40503	5P
2620	4822 121 40516	22 nF 250V	20G	4822 265 40469	6P
2621	4822 124 22257	22 µF 250V	21G	4822 265 40471	8P
2638	4822 121 51252	470 nF 63V	Various		
2652	4822 121 51424	330 nF 250V			
2656	4822 124 22172	150 µF 385V	1000	4822 212 22746	IR receiver
2663	4822 121 41531	1000 pF 250V	1001	4822 212 22739	SYNC/IF-B/G
2668	4822 124 40724	1000 µF 35V	1001	4822 212 22771	SYNC/IF-I
2670	4822 124 22257	22 µF 250V	1001	4822 212 22769	SYNC/IF-Multi Fr
2672	4822 124 40724	1000 µF 35V	1001	4822 212 22885	SYNC/IF-Multi Eur
2673	4822 124 40201	1000 µF 16V	1001	4822 212 22886	SYNC/IF K-B/G
2735	4822 124 40723	2200 µF 16V	1002	4822 210 40273	UV617
2934	4822 122 32149	27 pF 100V	1002	4822 210 40279	UV617/E
2935	4822 122 32149	27 pF 100V	1002	4822 210 10299	UV627
			1002	4822 210 50118	U743
1652	4822 253 30024	T1.6A	1030	4822 276 12422	mains-switch (SK1)
1653	4822 253 10046	T1.6A	1059	4822 212 22738	keyboard foil assy.
1654	4822 253 10046	T1.6A	1059	4822 276 80317	keyboard foil assy. multi
			1103	4822 242 71841	filter SFE6.0 MA
10J	4822 265 40596	2P	1104	4822 242 70714	filter SFE5.5 MA
11B	4822 265 30389	2P	1104	4822 242 72059	filter SFT6.5 MA
12G	4822 265 30407	3P	1104	4822 242 71841	filter SFT6.0 MA
13R	4822 267 40722	6P	1262	4822 157 51056	delay line DL330
14R	4822 267 40722	6P	1267	4822 242 70626	crystal 8.867238 MHz
15G	4822 290 40295	7P	1270	4822 320 40096	delay line DL701
16R	4822 267 40665	3P	1566	4822 273 50296	switch 3P
18G	4822 417 50217	4P	1901	4822 138 10229	battery 2.5V
19G	4822 267 40648	5P	1934	4822 242 70831	filter 4 MHz
20G	4822 267 50591	6P		4822 256 30274	fuse holder
21G	4822 264 50148	8P		4822 462 10281	headphone socket
				4822 267 60243	scart socket
				4822 492 63733	slide spring fix.transistor
				4822 492 63731	spring fix. transistor

PICTURE TUBE PANEL



BC337	4822 130 40855
BC548B	4822 130 40937
BC556	4822 130 40989
BC558	4822 130 40941
BF422	4822 130 41782
BF423/01	4822 130 60703
BF819	4822 130 42159
BF869	4822 130 41773



BAV21	4822 130 30842
BYD33G	4822 130 42489
1N4148-75	4822 130 33939



5401	4822 157 53941
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3403	5322 116 53741	5.1	kΩ	0.5 W
3426	4822 116 80327	137	kΩ	0.5 W
3427	4822 116 80327	137	kΩ	5 W
3428	4822 116 80327	137	kΩ	0.5 W
3439	4822 116 52399	1.5	kΩ	0.5 W
3440	4822 116 52399	1.5	kΩ	0.5 W
3444	4822 116 52399	1.5	kΩ	0.5 W
3445	5322 116 80275	470	Ω	0.5 W
3460	4822 111 50518	1.5	kΩ	0.5 W
3591	4822 100 10051	22	kΩ	potm.
3592	4822 100 10052	100	kΩ	potm.
3599	5322 116 80277	47	Ω	0.5W



2407	4822 122 33376	7,5 nF 1kV
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22G	4822 290 40295	7P
23R	4822 267 40722	6P



22G	4822 265 40252	7P
23R	4822 267 30546	6P
	4822 255 70216	socket PT

MUTE PANEL



BC548B	4822 130 40937
BC558B	4822 130 44197



1N4148-30	4822 130 33941
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OVERVOLTAGE PANEL



BT135	4822 130 20248
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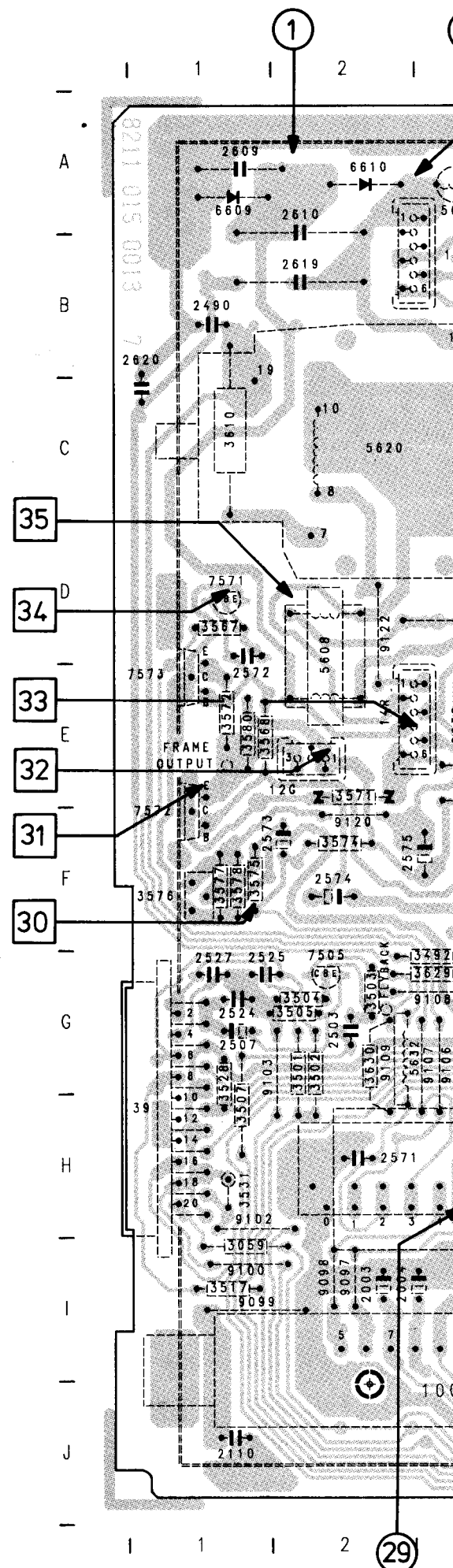
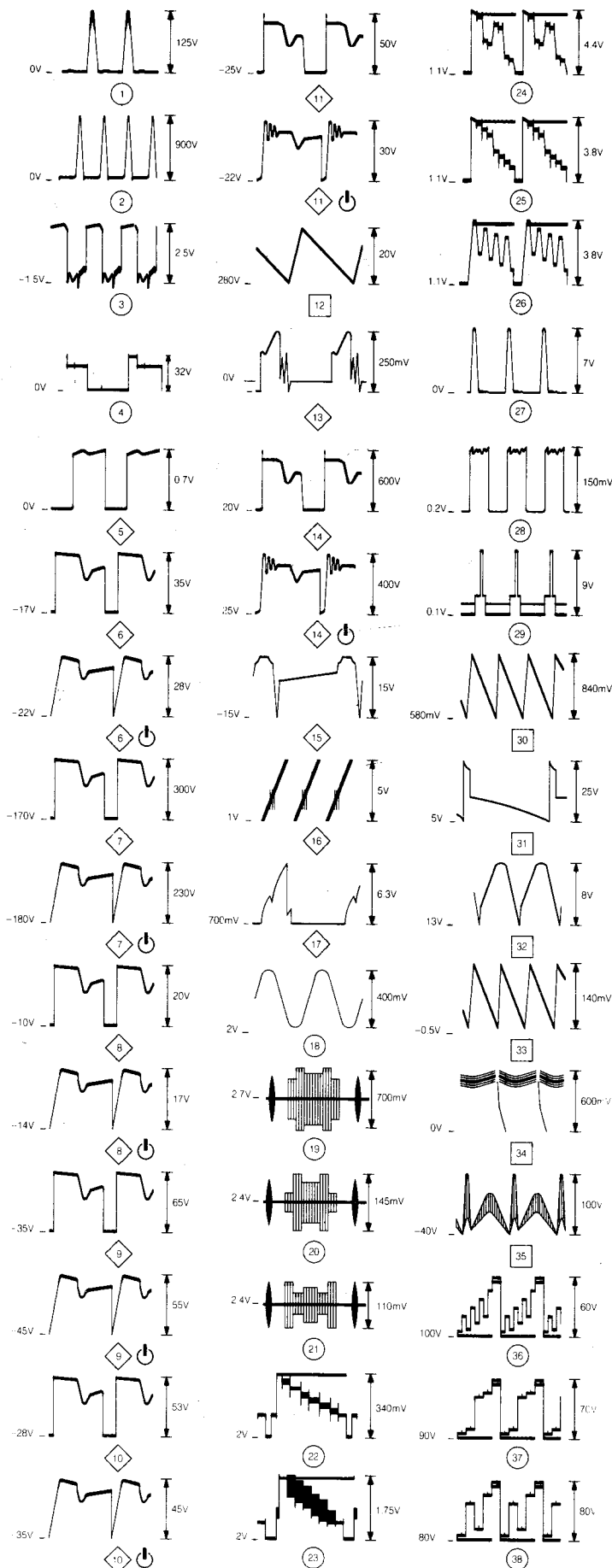
BYV95A	4822 130 41601
BZX79-B15	4822 130 34281
BZX79-B13	4822 130 34195



3000	4822 111 90178	220 Ω 0,125 W
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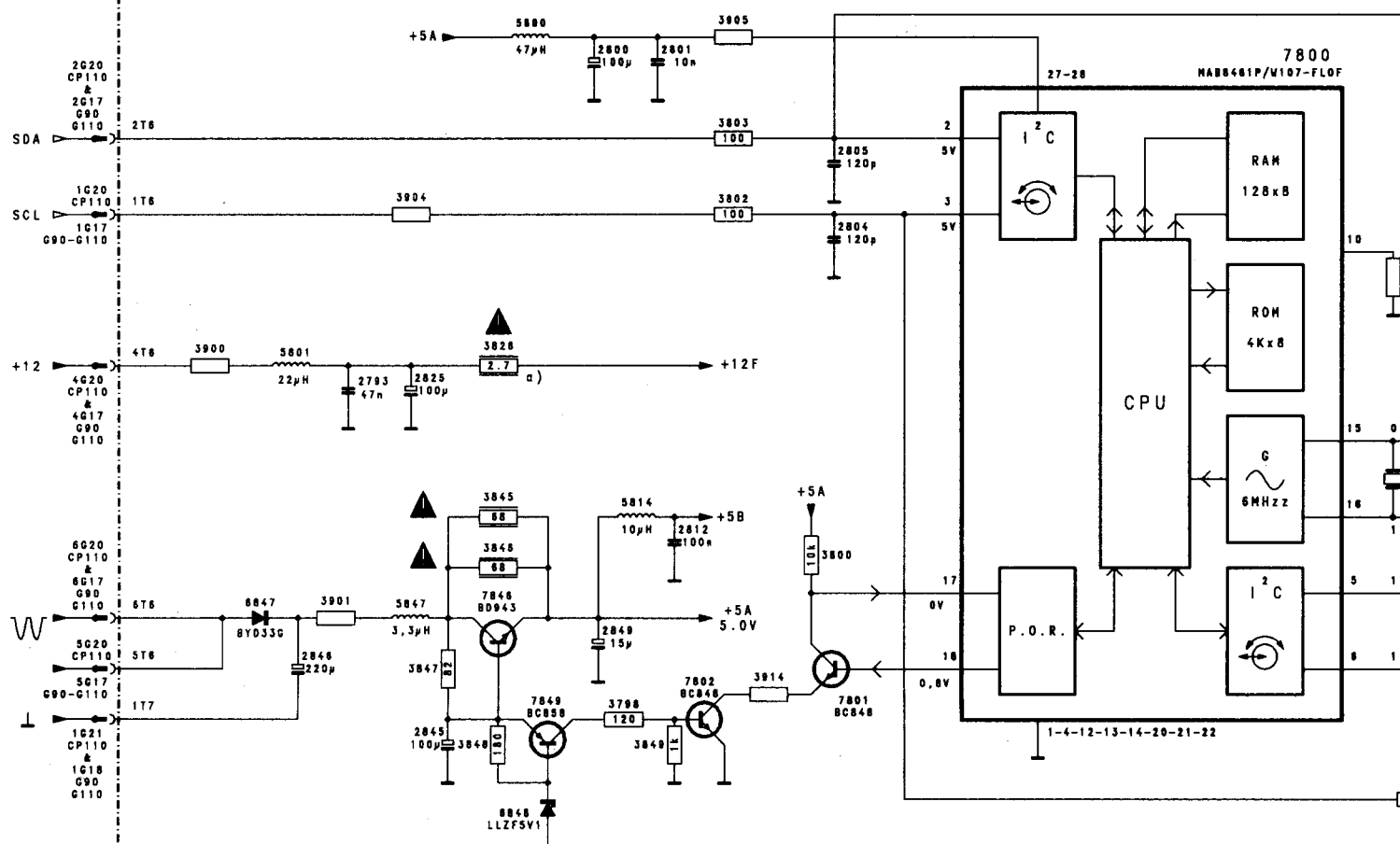


2000	4822 121 41815	100 nF 100 V
2001	4822 122 31211	100 pF 500 V
2677	4822 122 10174	1,5 nF 50 V



PRS 02626
T-26/721

G90-G110-CP90-CP110 EUROPE & NORDIQUE TXT-DECODER-DECODIFICATORE TELETETO-DECODEUR TELETEXTE-DECODIFI



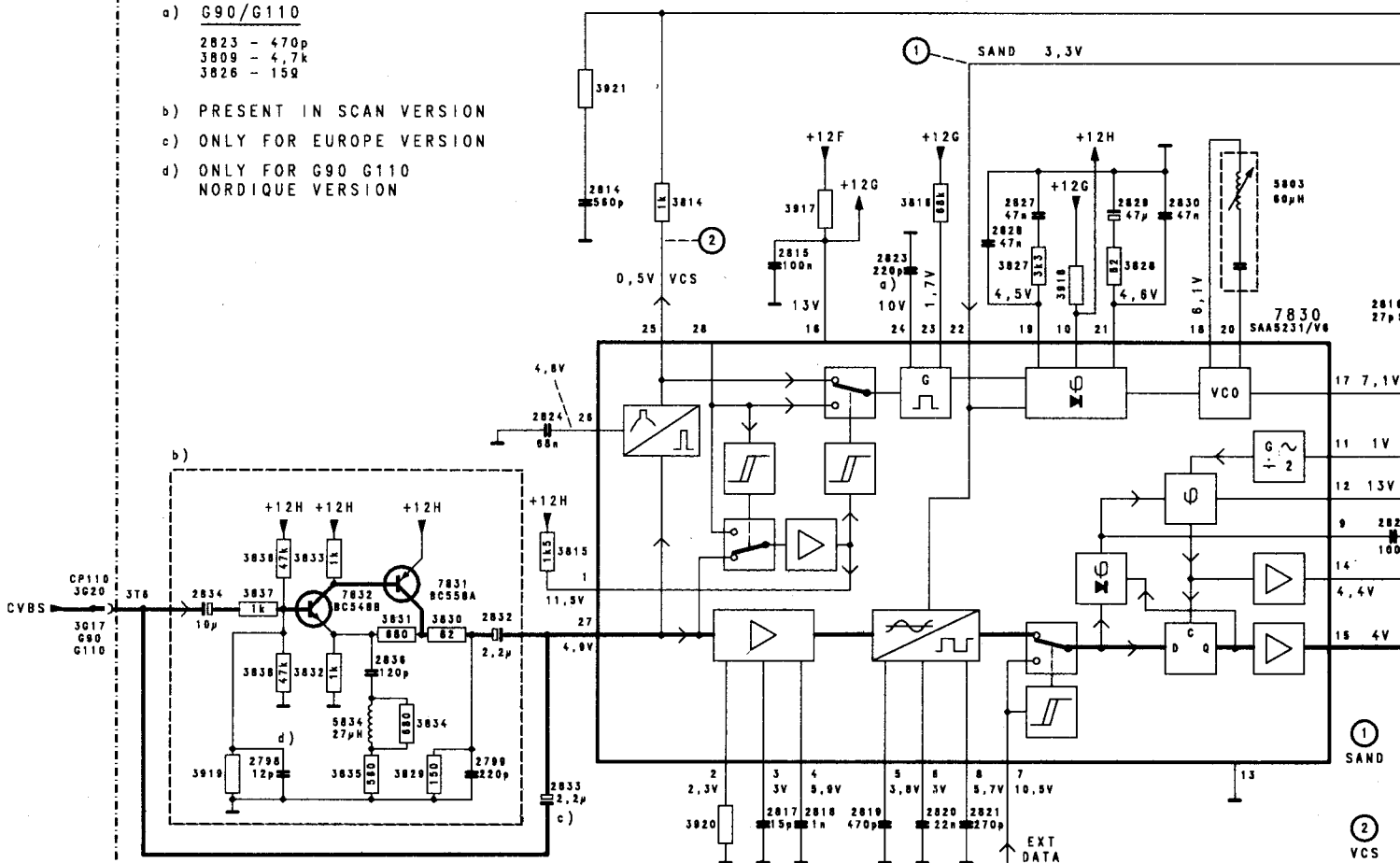
a) G90/G110

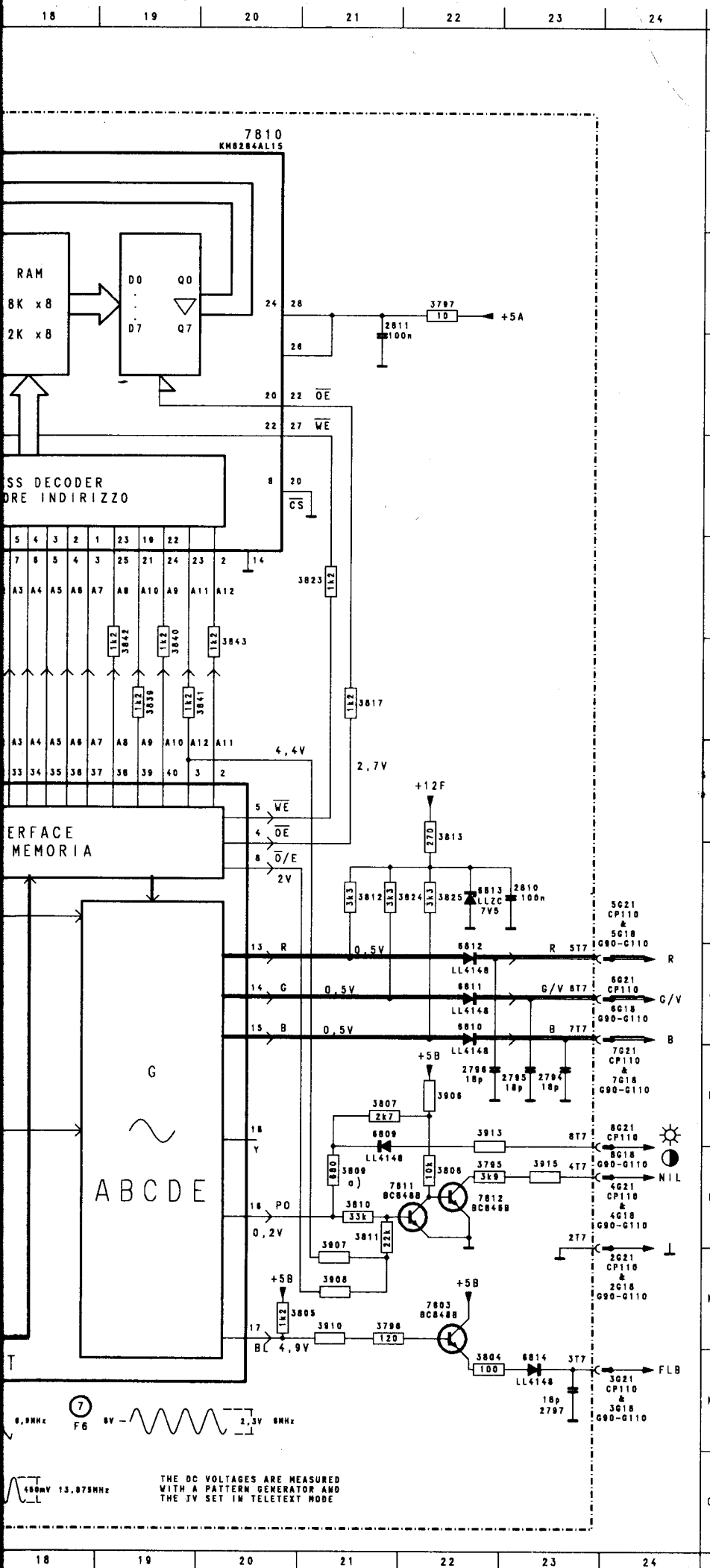
2823 - 470p
3809 - 4,7k
3826 - 159

b) PRESENT IN SCAN VERSION

c) ONLY FOR EUROPE VERSION

d) ONLY FOR G90 G110 NORDIQUE VERSION





1801	13M	3904	4C
1802	12E	3905	6B
2793	4D	3906	22K
2797	23N	3907	21L
2798	3N	3908	21M
2799	4N	3910	21M
2800	5B	3913	22K
2801	6B	3914	7G
2802	12E	3915	23L
2803	12E	3917	7J
2804	7C	3918	9K
2805	7C	3919	2N
2810	23I	3920	6O
2811	21C	3921	5I
2812	6F	3922	12D
2813	12M	5800	5B
2814	5J	5801	3D
2815	7J	5803	10I
2816	12K	5814	6E
2817	7O	5816	12K
2818	7O	5834	3N
2819	7O	5847	4F
2820	8O	6809	21K
2821	8O	6810	22J
2822	12L	6811	22J
2823	8J	6812	22J
2824	5L	6813	22I
2825	4D	6814	23N
2826	13L	6847	3F
2827	9J	6848	5H
2828	9J	7800	11B
2829	10J	7801	7G
2830	10J	7802	6G
2832	5M	7803	22M
2833	5O	7810	20B
2834	2M	7811	22L
2836	4N	7812	22L
2845	4G	7820	14H
2846	3G	7830	11K
2849	5F	7831	4M
3795	22L	7832	3M
3796	21M	7846	5F
3797	22C	7849	5G
3798	6G		
3800	7F		
3801	12E		
3802	6C		
3803	6B		
3804	22N		
3805	21M		
3807	21K		
3808	22L		
3809	21L		
3810	21L		
3811	21L		
3812	21I		
3813	22H		
3814	6J		
3815	5M		
3816	8J		
3817	21G		
3818	14G		
3819	14G		
3820	15G		
3821	15G		
3822	15F		
3824	22I		
3825	22I		
3826	5D		
3827	9J		
3828	10J		
3829	4N		
3830	4M		
3831	4M		
3832	3N		
3833	3M		
3834	4N		
3835	3N		
3836	3M		
3837	3M		
3838	3N		
3839	19G		
3840	19G		
3841	20G		
3842	19G		
3843	20G		
3845	5E		
3846	5F		
3847	4G		
3848	4G		
3849	6G		
3900	2D		
3901	3F		
3902	13F		
3903	12H		

1005 TXT FLOF MODULE

REMARKS					
1) only for NORDIC sets					
2) not for NORDIC sets					
Mechanical parts					
21	4822 265 40469	6p female gold plated			
22	4822 265 40471	8p female gold plated			
Various parts					
1801	4822 242 71417	crystal 13.875 MHz			
1802	4822 242 71508	filter 6.0 MHz			
2793	4822 122 32542	47nF 10% 50V			
2794	4822 122 31769	18pF 5% 50V			
2795	4822 122 31769	18pF 5% 50V			
2796	4822 122 31769	18pF 5% 50V			
2797	4822 122 31769	18pF 5% 50V			
2799 1)	4822 122 33637	220pF 10% 50V			
2800	4822 124 41584	100µF 20% 10V			
2801	4822 122 33478	10nF 20%			
2802	4822 122 31972	39pF 5% 50V			
2803	4822 122 31972	39pF 5% 50V			
2804	4822 122 31766	120pF 5% 50V			
2805	4822 122 31766	120pF 5% 50V			
2810	4822 122 33496	100nF 10% 63V			
2811	4822 122 33496	100nF 10% 63V			
2812	4822 122 33496	100nF 10% 63V			
2813	4822 122 33478	10nF 20%			
2814	4822 122 31773	560pF 5% 50V			
2815	4822 122 33496	100nF 10% 63V			
2816	4822 122 31825	27pF 5% 50V			
2817	4822 122 32504	15pF 5% 50V			
2818	5322 122 31647	1nF 10% 50V			
2819	4822 122 31727	470pF 5%			
2820	4822 122 31797	22nF 10% 63V			
2821	4822 122 32142	270pF 5% 63V			
2822	4822 122 31765	100pF 5% 50V			
2823	4822 122 33637	220pF 10%			
2824	4822 122 32891	68nF 20% 50V			
2825	4822 124 41568	100µF 20% 16V			
2826	4822 122 32504	15pF 5% 50V			
2827	4822 122 32542	47nF 10% 50V			
2828	4822 122 32542	47nF 10% 50V			
2829	4822 124 41506	47µF 20% 16V			
2830	4822 122 32542	47nF 10% 50V			
2832 1)	4822 124 41585	2.2µF 20% 50V			
2833 2)	4822 124 41585	2.2µF 20% 50V			
2834 1)	4822 124 41626	10 µF 20% 16V			
2836 1)	4822 122 31766	120pF 5% 50V			
2845	4822 124 41584	100µF 20% 10V			
2846	4822 124 41554	220µF 20% 10V			
2849	4822 124 41586	15 µF 20% 16V			
3795	4822 111 90571	3k9 2% 0.125W			
3796	4822 111 90339	120R 2% 0.125W			
3797	4822 116 52176	10R 5% 0.5W			
3798	4822 111 90339	120R 2% 0.125W			



3800	4822 111 90249	10k 2% 0.125W
3801	5322 111 90094	1M 5% 0.125W
3802	5322 111 90091	100R 2% 0.125W
3803	5322 111 90091	100R 2% 0.125W
3804	4822 111 90091	100R 2% 0.125W
3805	5322 111 90096	1k2 2% 0.125W
3807	4822 111 90569	2k7 2% 0.125W
3808	4822 111 90249	10k 2% 0.125W
3809	4822 111 90162	680R 2% 0.125W
3810	5322 111 90267	33k 2% 0.125W
3811	4822 111 90251	22k 2% 0.125W
3812	4822 111 90157	3k3 2% 0.125W
3813	4822 111 90154	270R 2% 0.125W
3814	4822 116 52204	1k 5% 0.5W
3815	4822 111 90151	1k5 2% 0.125W
3816	4822 111 90202	68k 2% 0.125W
3817	5322 111 90096	1k2 2% 0.125W
3818	5322 111 90096	1k2 2% 0.125W
3819	5322 111 90096	1k2 2% 0.125W
3820	5322 111 90096	1k2 2% 0.125W
3821	5322 111 90096	1k2 2% 0.125W
3822	5322 111 90096	1k2 2% 0.125W
3823	5322 111 90096	1k2 2% 0.125W
3824	4822 111 90157	3k3 2% 0.125W
3825	4822 111 90157	3k3 2% 0.125W
3826	4822 111 30494	2R7 5% 0.33W
3827	4822 111 90157	3k3 2% 0.125W
3828	4822 111 90124	82R 2% 0.125W
3829 1)	4822 116 52211	150R 5% 0.5W
3830 1)	4822 116 52379	82R 5% 0.5W
3831 1)	4822 111 90162	680R 2% 0.125W
3832 1)	5322 111 90092	1k 2% 0.125W
3833 1)	5322 111 90092	1k 2% 0.125W
3834 1)	4822 111 90162	680R 2% 0.125W
3835 1)	5322 111 90113	560R 2% 0.125W
3836 1)	4822 111 90543	47k 2% 0.125W
3837 1)	5322 111 90092	1k 2% 0.125W
3838 1)	4822 111 90543	47k 2% 0.125W
3839	5322 111 90096	1k2 2% 0.125W
3840	5322 111 90096	1k2 2% 0.125W
3841	5322 111 90096	1k2 2% 0.125W
3842	5322 111 90096	1k2 2% 0.125W
3843	5322 111 90096	1k2 2% 0.125W
3845	4822 111 30531	68R 5% 0.33W
3846	4822 111 30531	68R 5% 0.33W
3847	4822 111 90124	82R 2% 0.125W
3848	5322 111 90242	180R 2% 0.125W
3849	5322 111 90092	1k 2% 0.125W
3900	4822 111 90163	jumper
3901	4822 111 90163	jumper
3904	4822 111 90163	jumper
3905	4822 111 90163	jumper
3906	4822 111 90163	jumper
3908	4822 111 90163	jumper
3910	4822 111 90163	jumper
3913	4822 111 90163	jumper
3914	4822 111 90163	jumper
3915	4822 111 90163	jumper
3917	4822 111 90163	jumper
3918	4822 111 90163	jumper
3919	4822 111 90163	jumper
3921	4822 111 90163	jumper
3922	4822 111 90163	jumper

1005 TXT FLOF MODULE



5800	4822 156 20966	47μH 10%
5801	4822 157 53252	22μH 5%
5803	4822 157 52825	60μH
5814	4822 157 53608	10μH 10%
5816	4822 157 52224	15μH 10%
5834 1)	4822 157 53001	27μH 10%
5847	4822 157 51157	3.3μH 10%



6809	4822 130 80446	LL4148
6810	4822 130 80446	LL4148
6811	4822 130 80446	LL4148
6812	4822 130 80446	LL4148
6813	4822 130 80906	LLZ-C7V5
6814	4822 130 80446	LL4148
6847	4822 130 42489	BYD33G
6848	4822 130 80905	LLZ-F5V1



7800	4822 209 72355	MAB8461P/W107
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848
7803	5322 130 41982	BC848B
7810	4822 209 73584	KM6264AL-15
7811	5322 130 41982	BC848B
7812	5322 130 60159	BC846B
7820	4822 209 73879	SAA5243P/E/M2
7830	4822 209 72972	SAA5231/V6
7831 1)	4822 130 40962	BC558A
7832 1)	4822 130 40937	BC548B
7846	5322 130 44921	BD943
7849	5322 130 42012	BC858

Service
Service
Service

CP110

91.01

Service Information

(GB)

From serial numbers AG03... and QG13... onwards sets with chassis CP110 are also equipped with a peak-voltage protection PCB. This PCB (U1071) is connected in front of the mains switch, see fig. 1.

On the monocarrier the mains fuse 1652 and the mains coil 5653 have been replaced by bridge wires and C2652 has been removed. PCB 1071 can also be incorporated in older sets. The fixing bracket and connection cables are supplied together with the complete PCB. The fixing bracket should be mounted on the right next to the monocarrier on the base of the cabinet. See also fig. 2. The fuse 1652 and the mains coil 5653 should then be shorted and C2652 removed.

(F)

A partir des numéros de série AG03... et QG13..., les appareils pourvus d'un châssis CP110 ont été équipés d'une carte de protection contre les tensions de crête. Cette carte (U1071) est raccordée avant l'interrupteur-secteur (fig. 1). Sur la monoporteuse le fusible secteur 1652 et la bobine secteur 5653 ont été remplacés par des cavaliers et C2652 a été enlevé. La carte 1071 peut également être mise en place dans les appareils moins récents. Le collier de fixation et câbles de raccordement nécessaires sont livrés avec la carte complète. Il convient de monter le collier de fixation à droite, près de la monoporteuse, sur le fond du boîtier (fig. 2). Le fusible 1652 et la bobine secteur 5653 doivent ensuite être mis en court-circuit sur la monoporteuse et C2652 doit être enlevé.

(NL)

In apparaten met chassis CP110 is vanaf de serienummers AG03... en QG13... een piekspanningbeveiligings paneel toegevoegd. Dit paneel (U1071) is voor de netschakelaar aangesloten, zie fig. 1.

Op de monocarrier zijn de netzekering 1652 en de netspoel 5653 vervangen door brugdraden.

Het paneel 1071 kan ook in oudere apparaten worden ingebouwd. De benodigde bevestigingsbeugel en verbindingskabels worden tegelijk met het complete paneel geleverd. De bevestigingsbeugel dient rechts naast de monocarrier op de bodem van de kast gemonteerd te worden. Zie ook fig. 2. Op de monocarrier dienen dan de zekering 1652 en de netspoel 5653 te worden kortgesloten.

(D)

Bei allen Geräten mit Chassis CP110, deren Seriennummern mit AG03... und OG13... (und aufwärts) anfangen, wurde eine zusätzliche Spitzenspannungsschutz-Platine eingebaut. Diese Platine (U1071) wurde vor den Netzschalter geschaltet (siehe Abb. 1).

Auf der Monocarrier-Platine wurden die Netzsicherung 1652 und die Netzspule 5653 gegen Drahtbrücken ausgetauscht; C2652 wurde entfernt.

Die Platine U1071 läßt sich auch in ältere Geräte einbauen. Der dazu benötigte Befestigungsbügel und die Verbindungskabel werden mit der kompletten Platine geliefert.

Der Befestigungsbügel ist rechts neben dem Monocarrier am Gehäuseboden zu montieren (siehe Abb. 2). Auf der Monocarrier-Platine müssen die Sicherung 1652 und die Netzspule 5653 kurzgeschlossen und C2652 entfernt werden.

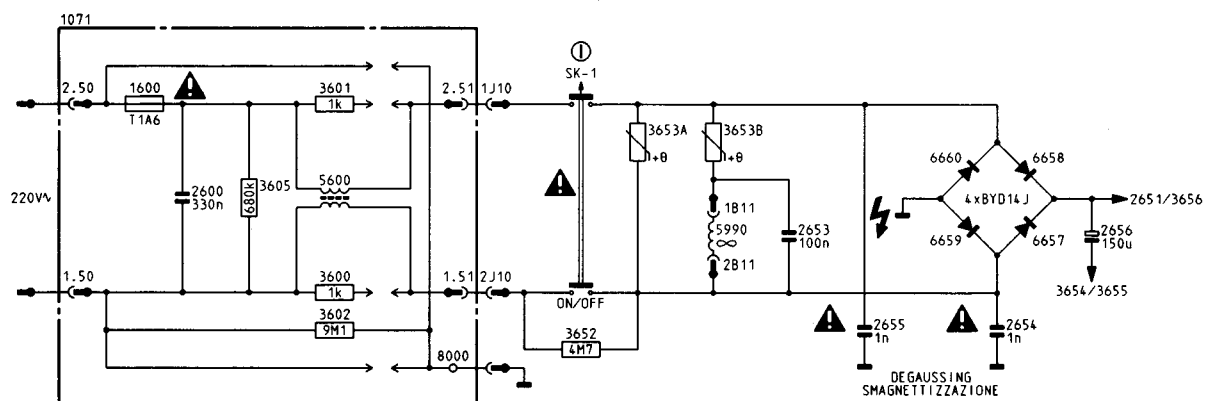


Fig. 1

CP 110-91/01

CL 16532026/011,X001
020791

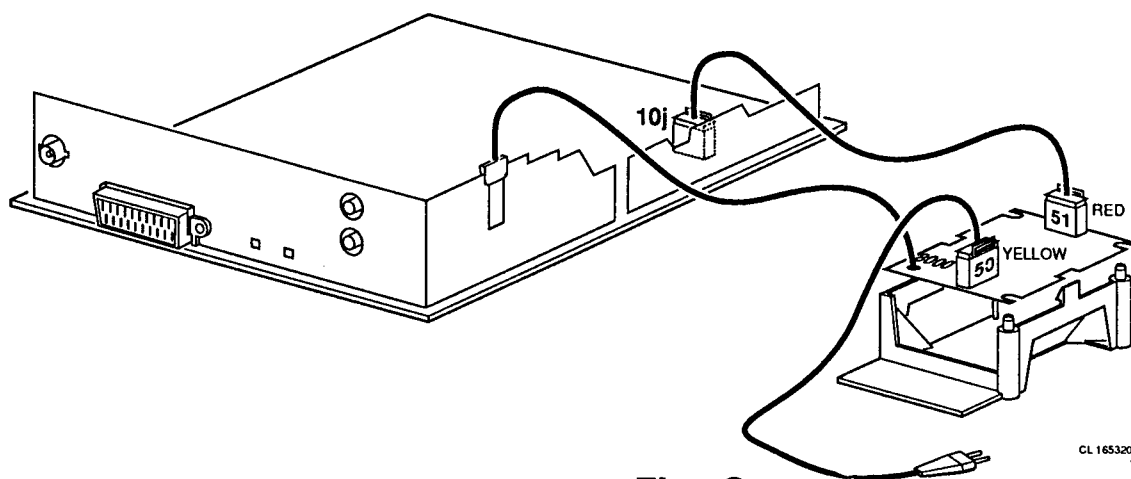


Fig. 2

CL 16532026/012
120691

Spare parts list / Nomenclature / Stückliste

1071	complete	4822 212 23808
1071	version GB, complete	4822 212 23809
1600	T 1.6A	4822 253 30024
2600	330nF 250V	5322 121 44222
3600	1 k ohm	4822 116 23809
3601	1 k ohm	4822 116 23809
3602	9.1 M ohm	4822 053 21915
3605	680 k ohm 0.5W	4822 053 21684
5600		4822 157 53068

Service Information

1989-04-13

CHASSIS CP 110

CT89-02

GB

In the course of production, the carrier panel and the picture tube panel have been modified. These modified panels have been applied in sets whose serial numbers start with QGII, AGII or higher.

Also in sets with serial numbers starting with QG09, AG09, the FLOF teletext has been introduced together with a mask change of the microprocessor:

TMP47C432 – 8188 for TXT CEEFAX

TMP47C432 – 8189 for TXT FLOF

So this means that, depending on the microprocessor, either a TXT CEEFAX or a TXT FLOF can be built into a non-teletext set.

This service information gives the modified and new circuit diagrams, the print layouts of the modified and the new printed boards and the parts lists.

F

En cours de production, la platine porteuse et celle du tube image ont été modifiées. Ces platines sont montées dans des appareils dont le n° de série commence par QGII, AGII et suivants.

Dans les appareils dont le n° de série commence par QG09, AG09 et suivants il y a également eu l'introduction du télétexte FLOF. Ceci a été de pair avec un changement du masque du microprocesseur.

A savoir:

TMP47C432 – 8188 pour le TXT CEEFAX

TMP47C432 – 8189 pour le TXT FLOF

Ceci signifie donc que dans des appareils ne présentant pas de télétexte, il y a moyen de monter soit un TXT CEEFAX, soit un TXT FLOF, ceci indépendamment de la version du microprocesseur.

Cette Info Service comporte les nouveaux schémas de principe modifiés, les dessins de platines des platines nouvelle et ancienne version et, la liste de pièces.

NL

Tijdens productie zijn het dragerpaneel en het beeldbuispaneel gewijzigd. Deze gewijzigde panelen zijn toegepast in apparaten waarvan het serienummer begint met QGII, AGII of hoger.

Tevens is in apparaten waarvan het serienummer begint met QG09, AG09 of hoger de FLOF teletekst ingevoerd. Dit is samen gegaan met een masker wijziging van de microprocessor:

TMP47C432 – 8188 voor TXT CEEFAX

TMP47C432 – 8189 voor TXT FLOF

Dit betekent dus dat in niet teletekst apparaten afhankelijk van de microprocessor versie een TXT CEEFAX of een TXT FLOF ingebouwd kan worden.

In deze service informatie worden de gewijzigde en nieuwe principe schema's, de print lay-outs van de gewijzigde en nieuwe panelen en de stuklijst gegeven.

D

Während der Produktion wurden die Trägerplatte und die Bildröhreplatte geändert. Diese geänderten Platten sind in Geräten, deren Seriennummer mit QGII, AGII oder höher anfängt, angewandt.

Gleichzeitig wurde in Geräten, deren Seriennummer mit QG09, AG09 oder höher anfängt, der FLOF-Videotext eingeführt. Dies war verbunden mit einer Maskenänderung des Mikroprozessors. Nämlich:

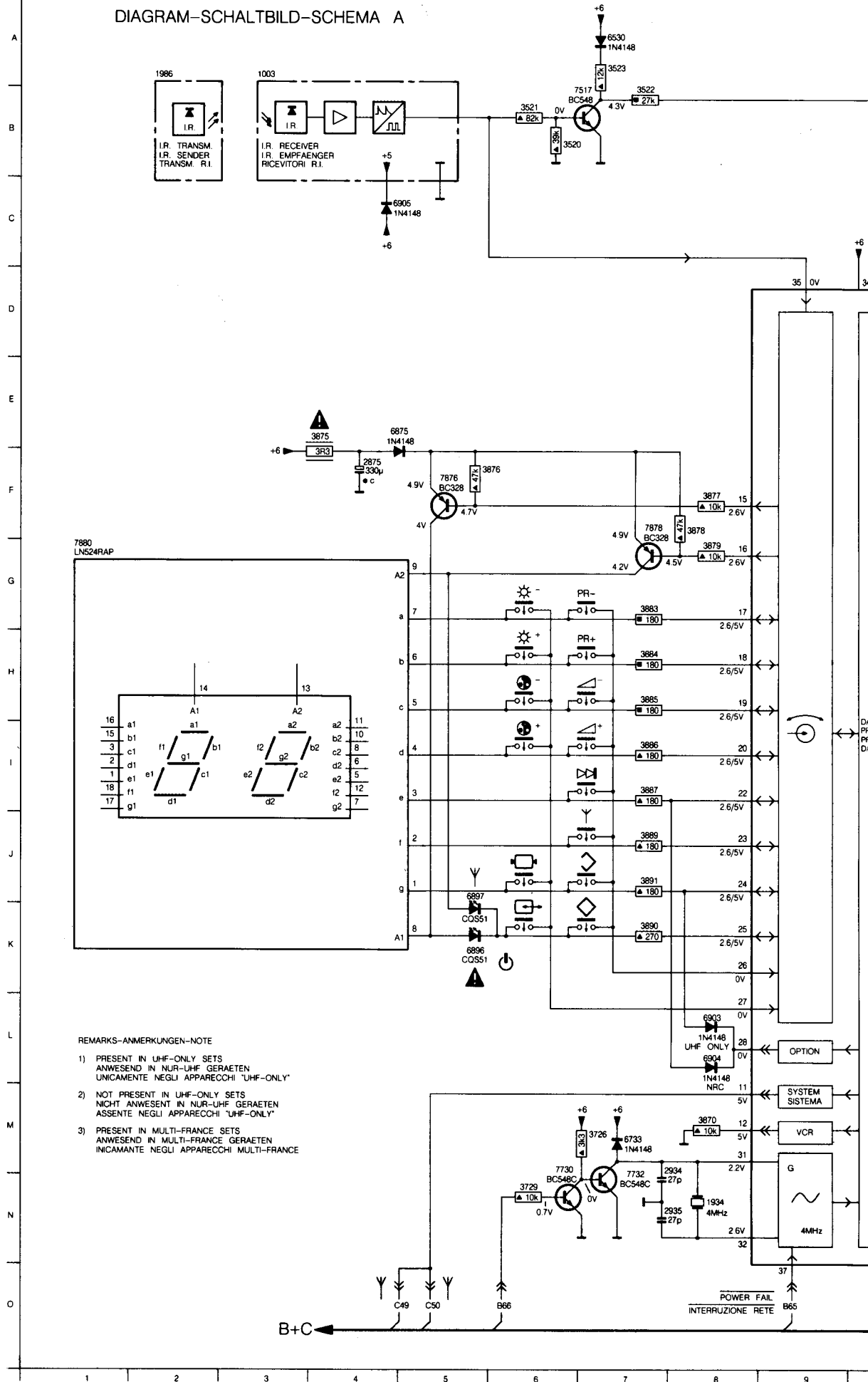
TMP47C432 – 8188 für TXT CEEFAX

TMP47C432 – 8189 für TXT FLOF

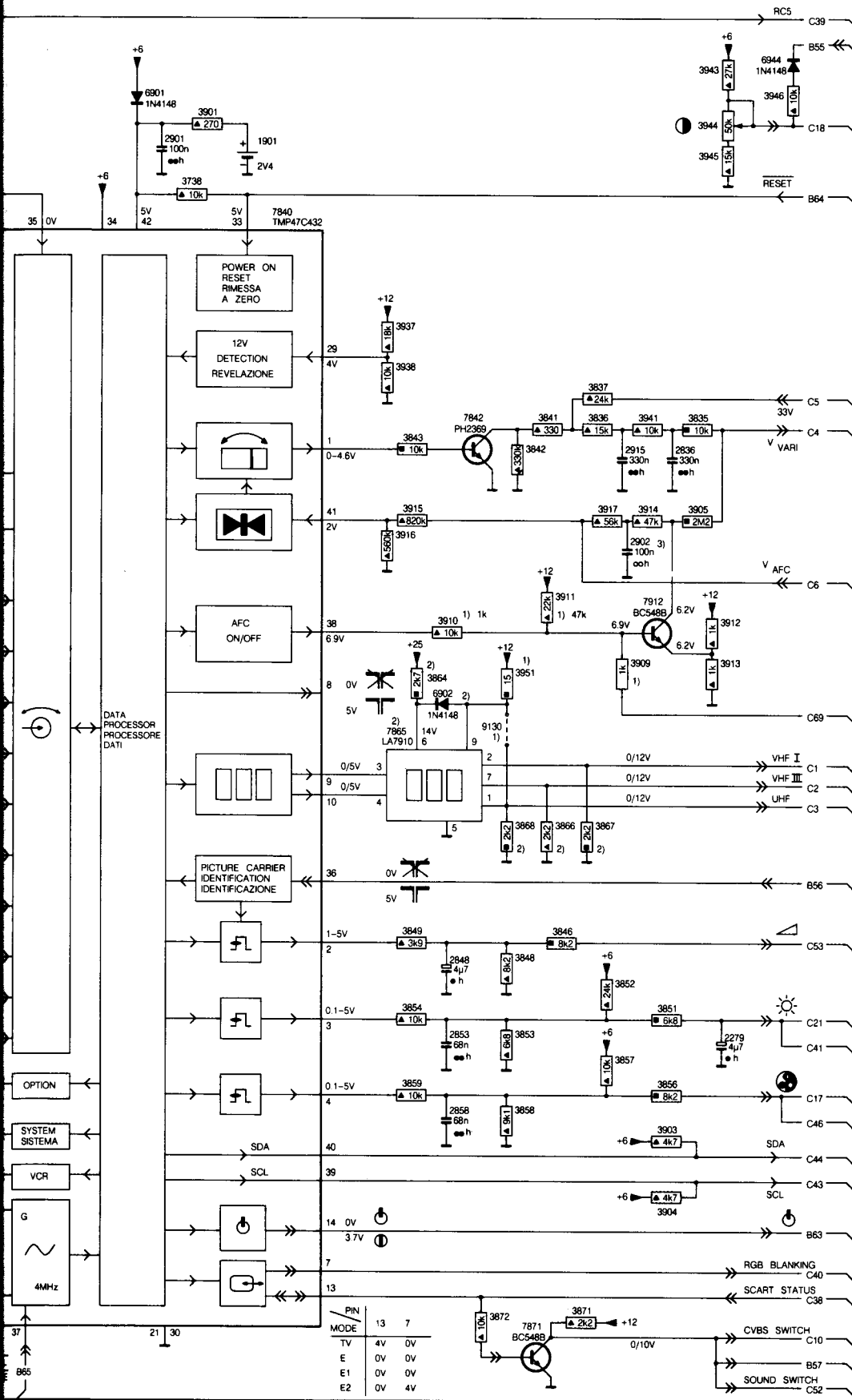
Das bedeutet also, dass in Nicht-Videotext-Geräte je nach Mikroprozessor-Ausführung ein TXT CEEFAX oder ein TXT FLOF eingebaut werden kann.

In dieser Service-Information sind die geänderten und neuen Prinzipschaltbilder, die Printplattenauslegungen der geänderten und neuen Platten und die Stückliste enthalten.

DIAGRAM-SCHALTBILD-SCHEMA A



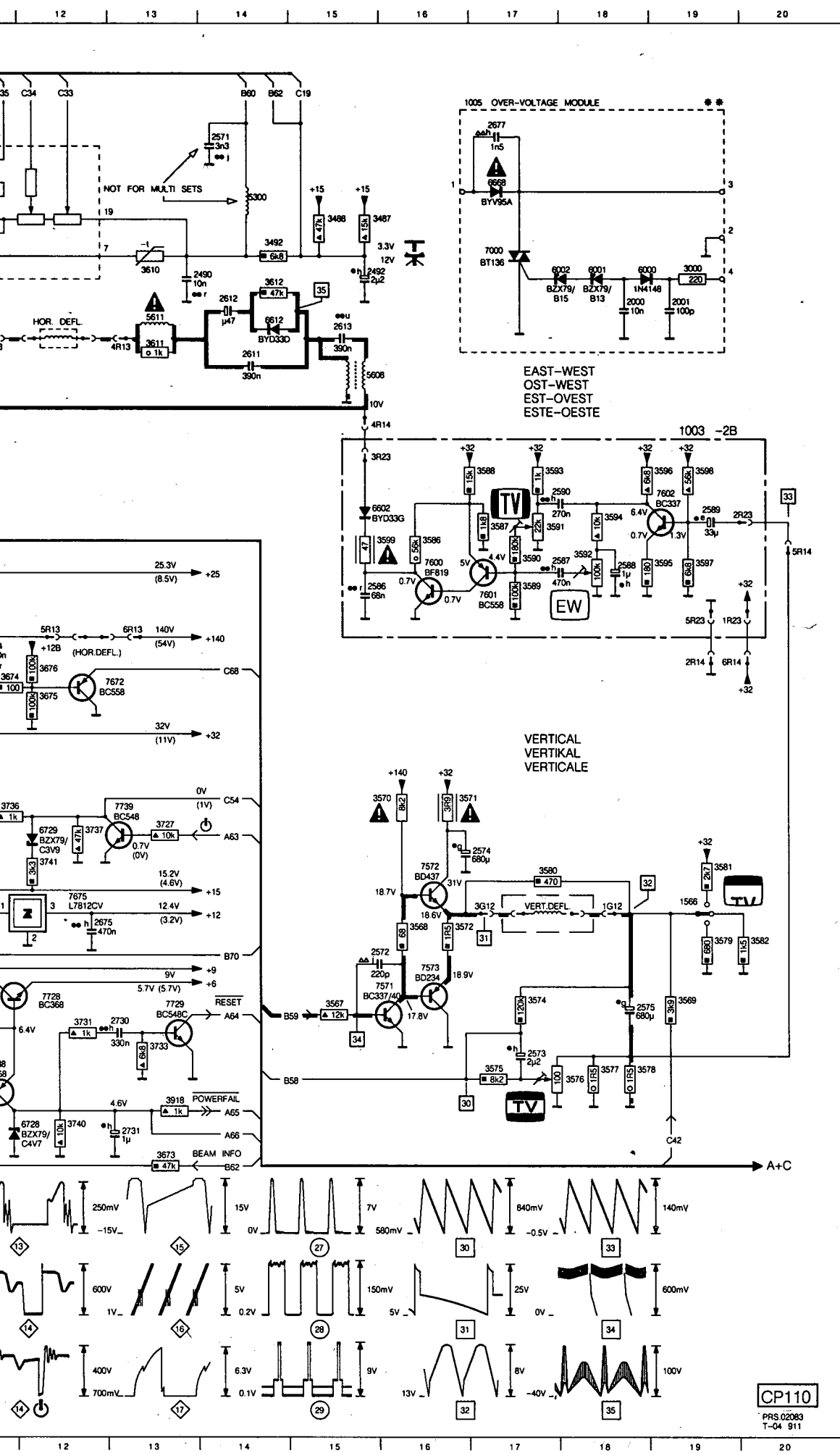
VST2 SYSTEM SISTEMA VST2



CP110

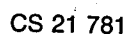
PRS 02082
T-02 903

1003 A 3
1901 C11
1934 N 8
1986 A 2
2279 L16
2836 F15
2848 K13
2853 L13
2858 L13
2875 F 4
2901 C10
2902 G15
2915 F15
2934 M 8
2935 N 8
3520 B 6
3521 B 6
3522 B 7
3523 A 7
3726 M 7
3729 N 6
3738 C11
3835 F16
3836 F15
3837 F15
3841 F14
3842 F14
3843 F13
3846 K14
3848 K13
3849 K15
3851 K15
3852 K15
3853 L14
3854 K13
3856 L15
3857 L15
3858 L14
3859 L13
3864 H13
3866 J14
3867 J15
3868 J14
3870 M 8
3871 N14
3872 N14
3875 E 4
3876 F 6
3877 F 8
3878 F 8
3879 G 8
3883 G 7
3884 H 7
3885 H 7
3886 I 7
3887 I 7
3889 J 7
3890 K 7
3891 J 7
3901 C11
3903 M15
3904 M15
3905 F16
3909 H15
3910 H13
3911 G14
3912 H16
3913 H16
3914 F15
3915 F13
3916 G13
3917 F15
3937 E13
3938 E13
3941 F15
3943 B16
3944 C16
3945 C16
3946 B16
3951 H14
6530 A 7
6733 M 7
6875 E 5
6896 K 5
6897 J 5
6901 B10
6902 H13
6903 L 8
6904 L 8
6905 C 5
6944 B16
7517 B 7
7730 M 6
7732 M 7
7840 D11
7842 F13
7865 I13
7871 N14
7876 F 5
7878 F 7
7880 G 1
7912 G15
9130 I14



1001	A 1	3918	L13
1003	E19	3947	E 8
1005	I 9	5300	B14
1005	A17	5608	D16
1566	J19	5611	D13
1562	G 2	5620	B11
1553	J 8	5629	D 8
1554	K 9	5630	D 8
2000	C18	5631	D 9
2001	C19	5653	G 2
2490	C14	5654	F 8
2492	C18	5655	H 7
2571	B14	5656	I 6
2572	J16	5658	G 8
2573	K17	5659	G10
2574	I17	5660	G 9
2575	K19	5661	G 9
2586	F18	5662	F 8
2587	F18	5663	H 8
2588	F18	5665	I 5
2589	F19	5666	H 8
2590	E18	5990	G 3
2609	E10	6000	C18
2610	D10	6001	C18
2611	D14	6002	C18
2612	C14	6531	E 1
2613	D15	6602	F16
2614	G11	6609	E10
2619	C 9	6610	D10
2620	C 9	6612	D14
2621	G11	6661	D 7
2632	E 8	6638	C10
2633	D 7	6657	G 5
2635	D 7	6658	G 5
2636	C10	6659	H 4
2638	C10	6660	G 4
2651	G 7	6661	G 7
2652	G 2	6662	F 9
2653	G 4	6663	G10
2654	F 4	6664	G10
2655	F 5	6665	K 5
2656	G 5	6667	K 6
2657	I 7	6668	B17
2659	H 6	6670	K 7
2660	I 7	6671	J 7
2661	K 6	6672	H 9
2662	I 6	6673	K 8
2663	J 2	6674	K 9
2664	J 6	6676	K11
2665	J 5	6726	K10
2666	K 7	6727	L11
2667	K 7	6728	L12
2668	F10	6729	I12
2669	G 9	6731	H10
2670	G10	6732	H10
2671	J10	6860	E 2
2672	H 9	7000	C17
2673	K 9	7571	K16
2675	J12	7572	I16
2676	J 8	7573	K16
2677	A17	7600	F16
2730	K13	7601	G17
2731	L13	7602	E19
2733	H10	7619	D 9
2735	K10	7630	E 7
3000	C19	7655	I 7
3038	E 4	7666	I 6
3055	A 2	7669	I 3
3487	B16	7670	L 8
3488	B15	7671	K 6
3492	C14	7672	G13
3506	E 2	7675	J12
3567	K15	7726	I11
3568	J16	7727	H10
3569	K19	7728	K12
3570	I16	7729	K13
3571	I17	7738	L11
3572	J16	7739	I13
3574	K17	SK1	F 1
3575	L17		
3576	L18		
3577	L18		
3578	L18		
3579	J19		
3580	I17		
3581	I19		
3582	J20		
3586	F16		
3587	F17		
3588	E17		
3589	F17		
3590	F17		
3591	F18		
3592	F18		
3593	E17		
3594	F18		
3595	F19		
3596	E19		
3597	F19		
3598	E19		
3599	F19		
3600	C19		
3611	D13		
3612	C14		
3627	E 7		
3628	C 7		
3629	C 8		
3630	C 8		
3631	E 6		
3632	H 1		
3653	G 3		
3653	G 4		
3654	H 6		
3655	H 6		
3656	G 6		
3657	H 7		
3658	I 7		
3659	I 7		
3660	J 7		
3661	K 7		
3662	J 6		
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3666	I 5		
3667	H10		
3668	J11		
3669	L10		
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3675	H12		
3676	G12		
3727	I13		
3728	I13		
3730	K10		
3731	K12		
3732	K11		
3733	K13		
3735	H10		
3736	I11		
3737	I12		
3739	K11		
3740	L12		
3741	I12		

1001 -2B SYNCHRONISATION-SINCRONIZZAZIONE-SYNCRONISMO



11	12	13	14	15	16	17	18	19	20	21	22
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CARRIER PANEL

 CNX62A 4822 130 80908 HCF4053BE 4822 209 10576 LA7910 4822 209 10892 LN524RAP 4822 130 90388 L7812CV 5322 209 86176 TDA3562A/N5 4822 209 71751 TDA8190 4822 209 70872 TEA1039/N4 4822 209 83104 TMP47C432AP 4822 209 72038 mask 8188 TMP47C432AP 4822 209 73665 mask 8189	 5108 4822 157 53064 5109 4822 157 53064 5259 4822 157 52287 5260 4822 157 53065 5260 4822 157 52265 for amtsblatt 5261 4822 157 52807 5262 4822 157 53093 5270 4822 157 52808 5271 4822 157 53252 5300 4822 157 51462 5608 4822 157 53069 5611 4822 150 50073 line output 5620 4822 140 10325 line driver 5629 4822 140 10324 5630 4822 157 60258 5631 4822 157 53308 5653 4822 157 53068 5654 4822 148 60165 SOPS 5655 4822 157 51195 5656 4822 157 51157 5658 4822 157 51195 5659 4822 157 60286 5660 4822 157 51195 5661 4822 157 51195 5662 4822 157 51195 5663 4822 157 51195 5665 4822 157 52223 5666 4822 157 60285
 BC328 4822 130 44104 BC337 4822 130 40855 BC337-40 4822 130 41344 BC368 5322 130 44647 BC547C 4822 130 44503 BC548 4822 130 40938 BC548B 4822 130 40937 BC548C 4822 130 44196 BC558 4822 130 40941 BD234 4822 130 40917 BD437 4822 130 40982 BD438 4822 130 40995 BUT11AF 4822 130 42679 BU508A 4822 130 60263 PH2369 4822 130 41594	 3102 4822 111 30499 4.7 Ω 0.33W 3280 4822 100 20148 1 kΩ potm. 3283 4822 111 30593 3.3 Ω 0.33W 3570 4822 116 51166 8.2 kΩ 2.5W 3571 4822 111 30821 3.9 Ω 0.5W 3576 4822 101 10818 100 Ω potm. 3610 4822 116 30323 150 kΩ NTC 3628 4822 111 30504 6.8 Ω 0.33W 3653 4822 116 40065 PTC 3656 4822 116 80208 100 kΩ 2W 3657 4822 116 81761 1.5 kΩ 7W 3660 4822 113 80429 0.1 Ω 2W 3667 5322 116 54272 1.5 kΩ 2.5W 3670 4822 100 10361 100 Ω potm. 3672 4822 111 30483 1 Ω 0.33W 3875 4822 111 30593 3.3 Ω 0.33W 3909 4822 116 52204 1 kΩ 0.125 W 3944 4822 101 10819 50 kΩ potm.

CARRIER PANEL

					
2113	4822 124 41334	470 μ F 35 V	10J	4822 290 60626	2P
2123	4822 124 40435	10 μ F 50 V	11B	4822 267 40653	2P
2267	4822 125 50045	20 pF trimm.	12G	4822 265 30273	3P
2521	4822 124 40434	22 μ F 35V	13R	4822 267 30546	6P
2526	4822 124 40434	22 μ F 35V	14R	4822 267 30546	6P
2571	4822 122 30099	3.3 nF 100V	15G	4822 265 40252	7P
2610	5322 121 44357	7.5 nF 2kV	16R	4822 267 40653	2P
2611	4822 121 40479	390 nF 250V	17	4822 264 50177	10P for coil cable
2612	4822 124 22417	470 nF 160V	18G	4822 266 30276	4P
2619	4822 121 41339	2.2 nF 2kV	19G	4822 265 40503	5P
2620	4822 121 40516	22 nF 250V	20G	4822 265 40469	6P
2621	4822 124 22257	22 μ F 250V	21G	4822 265 40471	8P
2638	4822 121 51252	470 nF 63V	Various		
2652	4822 121 51424	330 nF 250V			
2656	4822 124 22172	150 μ F 385V	1000	4822 212 22746	IR receiver
2663	4822 121 41531	1000 pF 250V	1001	4822 212 22739	SYNC/IF-B/G
2668	4822 124 40724	1000 μ F 35V	1001	4822 212 22771	SYNC/IF-I
2670	4822 124 22257	22 μ F 250V	1001	4822 212 22769	SYNC/IF-Multi Fr
2672	4822 124 40724	1000 μ F 35V	1001	4822 212 22885	SYNC/IF-Multi Eur
2673	4822 124 40201	1000 μ F 16V	1001	4822 212 22886	SYNC/IF K-B/G
2735	4822 124 40723	2200 μ F 16V	1002	4822 210 40273	UV617
2934	4822 122 32149	27 pF 100V	1002	4822 210 40279	UV617/E
2935	4822 122 32149	27 pF 100V	1002	4822 210 10299	UV627
			1002	4822 210 50118	U743
1652	4822 253 30024	T1.6A	1030	4822 276 12422	mains-switch (SK1)
1653	4822 253 10046	T1.6A	1059	4822 212 22738	keyboard foil assy.
1654	4822 253 10046	T1.6A	1059	4822 276 80317	keyboard foil assy. multi
			1103	4822 242 71841	filter SFE6.0 MA
10J	4822 265 40596	2P	1104	4822 242 70714	filter SFE5.5 MA
11B	4822 265 30389	2P	1104	4822 242 72059	filter SFT6.5 MA
12G	4822 265 30407	3P	1104	4822 242 71841	filter SFT6.0 MA
13R	4822 267 40722	6P	1262	4822 157 51056	delay line DL330
14R	4822 267 40722	6P	1267	4822 242 70626	crystal 8.867238 MHz
15G	4822 290 40295	7P	1270	4822 320 40096	delay line DL701
16R	4822 267 40665	3P	1566	4822 273 50296	switch 3P
18G	4822 417 50217	4P	1901	4822 138 10229	battery 2.5V
19G	4822 267 40648	5P	1934	4822 242 70831	filter 4 MHz
20G	4822 267 50591	6P		4822 256 30274	fuse holder
21G	4822 264 50148	8P		4822 462 10281	headphone socket
				4822 267 60243	scart socket
				4822 492 63733	slide spring fix.transistor
				4822 492 63731	spring fix. transistor

PICTURE TUBE PANEL

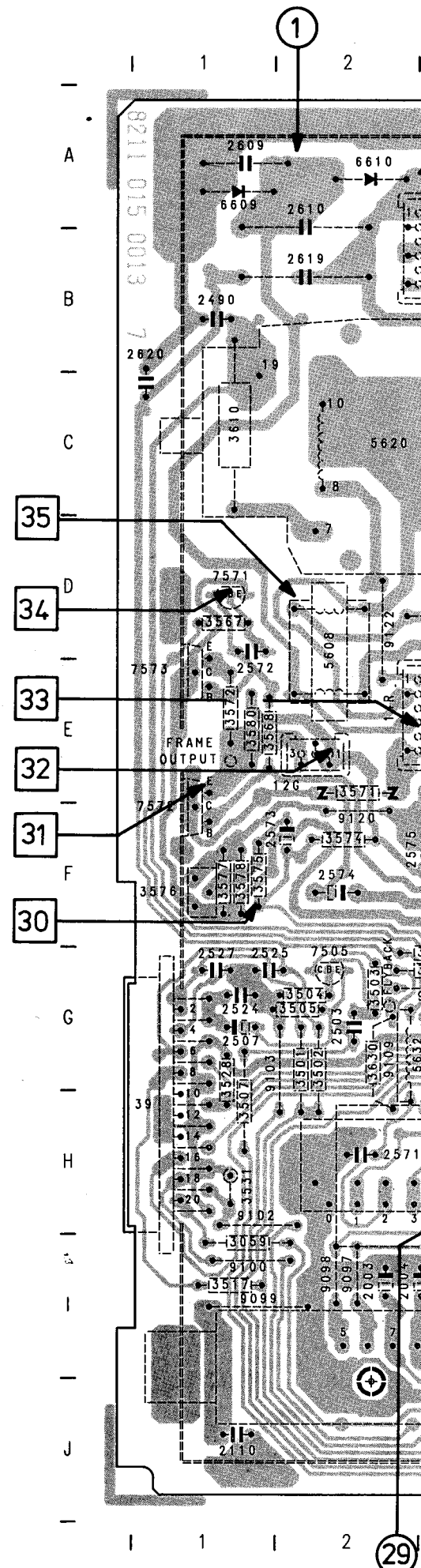
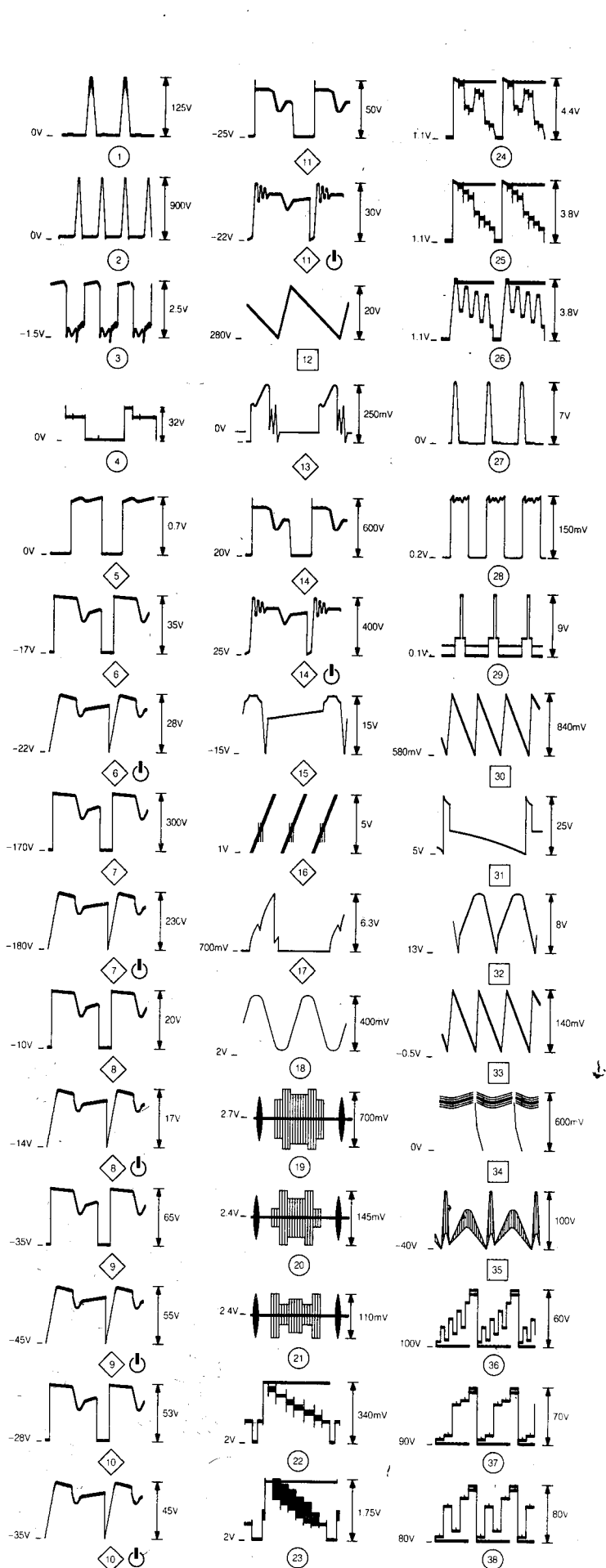
			
BC337	4822 130 40855		
BC548B	4822 130 40937		
BC556	4822 130 40989		
BC558	4822 130 40941		
BF422	4822 130 41782		
BF423/01	4822 130 60703		
BF819	4822 130 42159		
BF869	4822 130 41773		
			
BAV21	4822 130 30842		
BYD33G	4822 130 42489		
1N4148-75	4822 130 33939		
			
5401	4822 157 53941		
			
3403	5322 116 53741	5.1 kΩ	0.5 W
3426	4822 116 80327	137 kΩ	0.5 W
3427	4822 116 80327	137 kΩ	5 W
3428	4822 116 80327	137 kΩ	0.5 W
3439	4822 116 52399	1.5 kΩ	0.5 W
3440	4822 116 52399	1.5 kΩ	0.5 W
3444	4822 116 52399	1.5 kΩ	0.5 W
3445	5322 116 80275	470 Ω	0.5 W
3460	4822 111 50518	1.5 kΩ	0.5 W
3591	4822 100 10051	22 kΩ	potm.
3592	4822 100 10052	100 kΩ	potm.
3599	5322 116 80277	47 Ω	0.5W
			
2407	4822 122 33376	7,5 nF	1kV
			
22G	4822 290 40295	7P	
23R	4822 267 40722	6P	
			
22G	4822 265 40252	7P	
23R	4822 267 30546	6P	
	4822 255 70216	socket	PT

MUTE PANEL

	
BC548B	4822 130 40937
BC558B	4822 130 44197
	
1N4148-30	4822 130 33941

OVERVOLTAGE PANEL

		
BT135	4822 130 20248	
		
BYV95A	4822 130 41601	
BZX79-B15	4822 130 34281	
BZX79-B13	4822 130 34195	
		
3000	4822 111 90178	220 Ω 0,125 W
		
2000	4822 121 41815	100 nF 100 V
2001	4822 122 31211	100 pF 500 V
2677	4822 122 10174	1,5 nF 50 V



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