

Recommended Safety Parts

Item	Part No.	Description
4822 276 12597		MAIN SWITCH
4822 258 30274		FUSE HOLDER
4822 255 40955		LED HOLDER
4822 267 60243		EURO CONN.
4822 265 30389		2P FOR M1
4822 265 40596		2P FOR M2
1500 1540	4822 070 32002	FUSE 2A
2015	4822 124 40199	FUSE 630MA
2157	4822 124 41525	680uF 20% 16V
2160	4822 124 41525	100uF 20% 25V
2161	4822 124 41525	100uF 20% 25V
2270	4822 124 41525	100uF 20% 25V
2443	4822 124 40196	220uF 20% 16V
2445	4822 122 33467	1.5nF 10% 2KV
2448	4822 124 80096	47uF 200V
2450	4822 121 51612	330nF 5% 250V
2500	4822 124 41531	470nF 10% 250V
2506	4822 126 11137	3.3nF 20% 400V
2524	4822 126 11382	1nF 10% 1KV
2526	4822 122 32442	10nF 50V
2530	4822 124 80096	47uF 200V
2534	4822 126 11524	1.5nF 10% 1KV
2666	4822 124 41525	100uF 20% 25V
2685	4822 124 41525	100uF 20% 25V
3001	4822 052 10229	220hm 5% 0.33W
3015	4822 052 10109	10hm 5% 0.33W
3015	4822 052 10159	150hm 5% 0.33W
3124	4822 052 10229	220hm 5% 0.33W
3157	4822 052 21003	10k 1% 0.6W
3159	4822 052 11208	20hm 5% 0.5W
3163	4822 052 11208	20hm 5% 0.5W
3171	4822 116 52283	4k7 5% 0.5W
3296	4822 052 10109	100hm 5% 0.33W
3370	4822 052 11471	470hm 5% 0.5W
3402	4822 050 23901	390hm 1% 0.6W
3403	4822 116 52266	3k 5% 0.5W
3403	4822 116 52269	3k3 5% 0.5W
3404	4822 051 10242	2k4 2% 0.25W
3408	4822 053 10681	680hm 2.5% 1W
3411	4822 052 11208	20hm 5% 0.5W
3412	4822 052 10278	20hm 7% 0.33W
3440	4822 116 52199	680hm 5% 0.5W
3444	4822 117 10037	4k7 5% 3W
3448	4822 052 10108	10hm 5% 0.33W
3449	4822 052 10108	10hm 5% 0.33W
3452	4822 052 10109	100hm 5% 0.33W
3452	4822 052 10159	150hm 5% 0.33W
3452	4822 052 10478	40hm 7.5% 0.33W
3454	4822 052 11102	1k 5% 0.5W
3470	4822 052 10478	40hm 7.5% 0.33W
3470	4822 052 10828	80hm 2.5% 0.33W
3503	4822 052 21475	4M7 5% 0.5W
3504	4822 053 21475	4M7 5% 0.5W
3544	4822 052 10108	10hm 5% 0.33W
3557	4822 053 11271	270hm 5% 2W
3561	4822 116 52219	330hm 5% 0.5W
3564	4822 052 10109	100hm 5% 0.33W
3571	4822 050 24701	470hm 1% 0.6W
3572	4822 116 52202	820hm 5% 0.5W
5258	4822 157 51462	10uH
5296	4822 157 51462	10uH
5443	4822 157 51462	10uH
5445	4822 140 10406	LOT AT2079/40
5453	4822 157 51462	10uH
5470	4822 157 51462	10uH
5560	4822 157 51462	10uH
5601	4822 157 51462	10uH
5652	4822 157 51462	10uH
5653	4822 157 51462	10uH
6522	4822 130 30621	1N4148
6663	4822 209 30563	TLXR5400
6849	4822 130 30621	1N4148
6865	4822 130 30621	1N4148
7157	4822 209 60956	TDA7052/N1
7514	4822 130 82034	CNX83A
1235	4822 255 70251	CRT SOCKET
3208	4822 051 10242	FUSE 630MA
3221	4822 051 10242	2k4 2% 0.25W
3231	4822 051 10242	2k4 2% 0.25W
3235	4822 052 10108	10hm 5% 0.33W
1710	4822 071 52501	FUSE 250MA
3700	4822 116 52219	330hm 5% 0.5W
3701	4822 116 52219	330hm 5% 0.5W
3765	4822 116 52202	820hm 5% 0.5W
3766	4822 116 52202	820hm 5% 0.5W
3767	4822 116 52202	820hm 5% 0.5W
7710	5322 130 41982	BC848B
7711	5322 130 41982	BC848B
7715	5322 130 41982	BC848B
7732	5322 130 41982	BC848B
7754	5322 130 41982	BC848B
7755	5322 130 41982	BC848B
7765	5322 130 41982	BC848B
7766	5322 130 41982	BC848B
7767	5322 130 41982	BC848B
2244	4822 124 41525	100uF 20% 25V
2161	4822 124 41525	100uF 20% 25V
3136	4822 053 11181	180ohm 5% 2W
3154	4822 051 10472	4k 2% 0.25W
3155	4822 051 10103	10k 2% 0.25W
7156	5322 130 41982	BC848B
7158	5322 130 41982	BC848B
3255	4822 051 10103	10k 2% 0.25W
2351	4822 124 40246	4.7uF 20% 63V

Electrical Adjustments

1. Adjustments on the main panel (Fig. 7)

1.1 +100V power supply voltage

Connect a voltmeter (DC) between pin 6 of connector M5 and ground. Adjust potentiometer 3535 for a voltage of +100V (14"-17") or +92.5V (21").

1.2 Horizontal synchronization

Interconnect pins 8 and 28 of IC7015. Apply an aerial signal and tune the set. Adjust potentiometer 3356 until the picture is straight. Remove the interconnection.

1.3 Horizontal centring

Is adjusted with potentiometer 3354.

1.4 Vertical centring

Can be adjusted by eventually mounting one of the resistors 3401 or 3408.

1.5 Picture height

Is adjusted with potentiometer 3410.

1.6 Focussing

Is adjusted with the focussing potentiometer in the line output transformer (see Fig. 8).

1.7 IF filter for PAL/SECAM BGLL'- or PAL/SECAM BGLL'I sets

Connect pin 3 of IC7125 to a fixed voltage level of +2V by means of an adjustable power supply. Connect a signal generator (e.g. PM 5326) via a condensator 5p6 to pin 17 of the tuner and adjust the frequency for 32.4 MHz. Modulate (AM) the signal with 1 kHz. Tune the set in the UHF band and select system France.

First adjust 5106 for maximum sound output. Next adjust 5104 for maximum sound output. Adjust the frequency of the signal generator for 30.9 MHz. and modulate (AM) the signal with 1 kHz. Adjust 5102 for minimum sound output. Remove the power supply connection.

2. Adjustments on the picture tube panel (Fig. 9)

a. Alignments for PAL/SECAM BGLL'- or PAL/SECAM BGLL'I sets

Connect a signal generator (e.g. PM 5326) as indicated in point 1.7 and adjust the frequency for 33.4 MHz. Tune the set in the VHF1 band at a tuning voltage of approx. 5V on pin 11 of the tuner. Select system France via the system button on the set. Connect a voltmeter to pin 21 of IC7015. Adjust 5040 for 6V (DC). Next adjust the frequency of the signal generator for 38.9 MHz. Select system Europe on the set. Adjust 5043 for 6V (DC).

b. Alignment for PAL BG-, PAL/SECAM BG-, PAL/SECAM BGDK- or PAL I sets

Connect a signal generator (e.g. PM 5326) as indicated in point 1.7 and adjust the frequency for 38.9 MHz (PAL I: 39.5MHz). Connect a voltmeter to pin 21 of IC7015. Adjust 5040 for 6V (DC).

1.9 RFAGC

If the picture of a strong local transmitter is reproduced distorted, adjust potentiometer 3021 until the picture is undistorted.

1.10 Chroma band-pass filter for PAL/SECAM sets

Connect a signal generator (e.g. PM5326) to pin 20 of the euro connector and adjust it for a frequency of 4,286 MHz. Connect pin 8 of the euro connector and pin 27 of IC7250 to pin 13 of IC7250 (+12V). Connect an oscilloscope to pin 15 of IC7250. Adjust 5259 for a maximum amplitude. Remove the interconnections.

1.11 Chroma subcarrier oscillator

Apply a PAL colour-bar pattern. Interconnect pin 11 of IC7260 (TDA4510) or pin 17 of IC7250 (TDA4650) to ground. Adjust 2265 so that colour

pattern on the screen is practically stationary. Remove the interconnection.

1.12 SECAM demodulators for PAL/SECAM sets

Apply a SECAM black pattern. Connect an oscilloscope to pin 1 of IC7250. Adjust 5320 for 0 reading. Connect the oscilloscope to pin 3 of IC7250. Adjust 3320 for 0 reading.

1.13 The FM sound section

a. General adjustments

Apply a PAL BG (PAL I for PAL I sets) generator signal whose sound carrier is (FM) modulated with a frequency of 1 kHz. Set the generator to the mono mode. Tune the set and select, if possible, system Europe. Adjust 5138 for maximum sound output.

b. Additional adjustment for PAL/SECAM BGDK sets

After the general adjustment (see point a.) put the generator in SECAM DK position. Adjust 5139 for maximum sound output.

1.14 The AM sound section for PAL/SECAM BGLL'- or PAL/SECAM BGLL'I sets

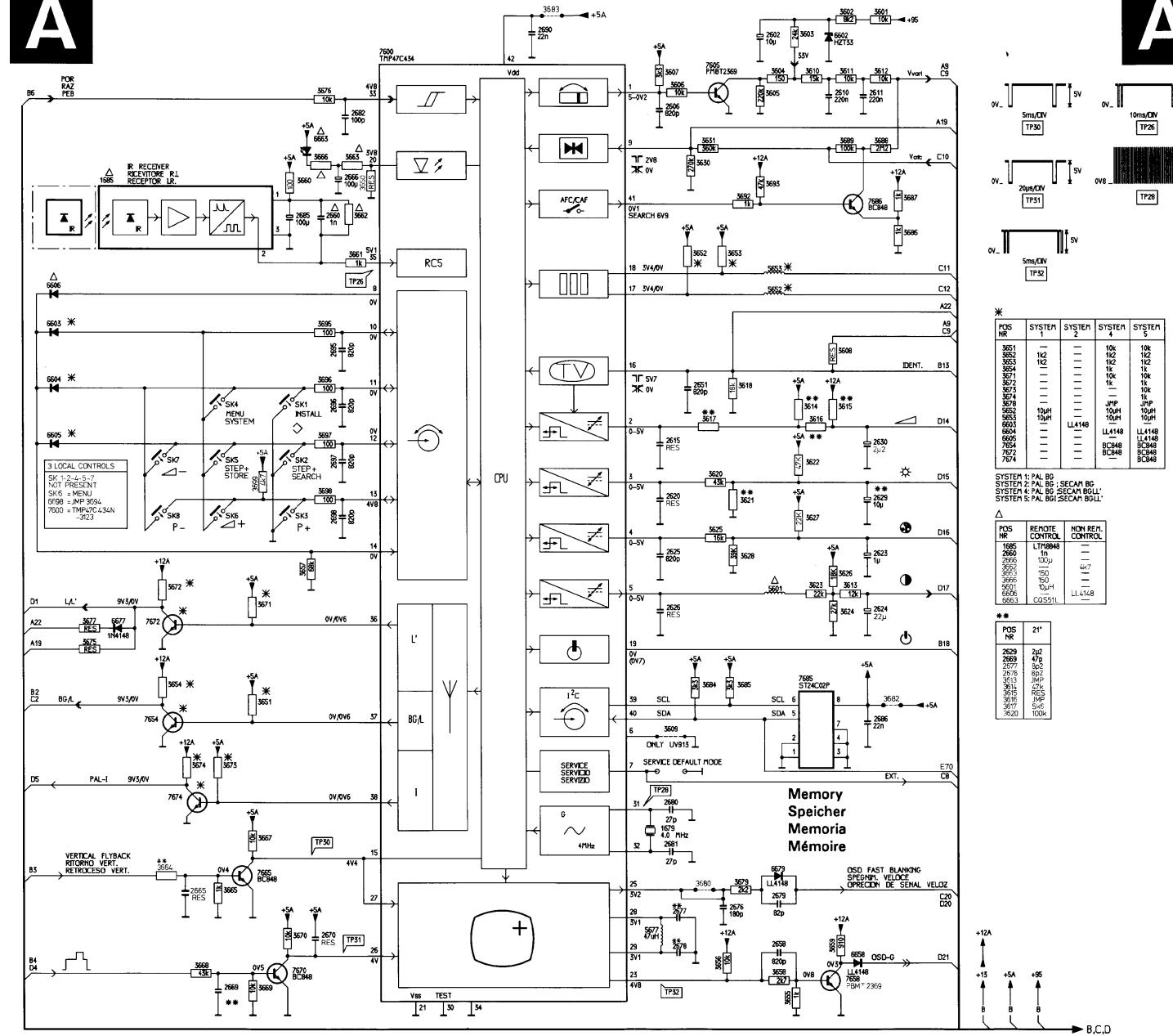
Connect pin 3 of IC7125 to a fixed voltage level of +2V by means of an adjustable power supply. Connect a signal generator (e.g. PM 5326) via a condensator 5p6 to pin 17 of the tuner and adjust the frequency for 32.4 MHz. Modulate (AM) the signal with 1 kHz. Tune the set in the UHF band and select system France. First adjust 5106 for maximum sound output. Next adjust 5104 for maximum sound output. Adjust the frequency of the signal generator for 30.9 MHz. and modulate (AM) the signal with 1 kHz. Adjust 5102 for minimum sound output. Remove the power supply connection.

2.2 Grey scale

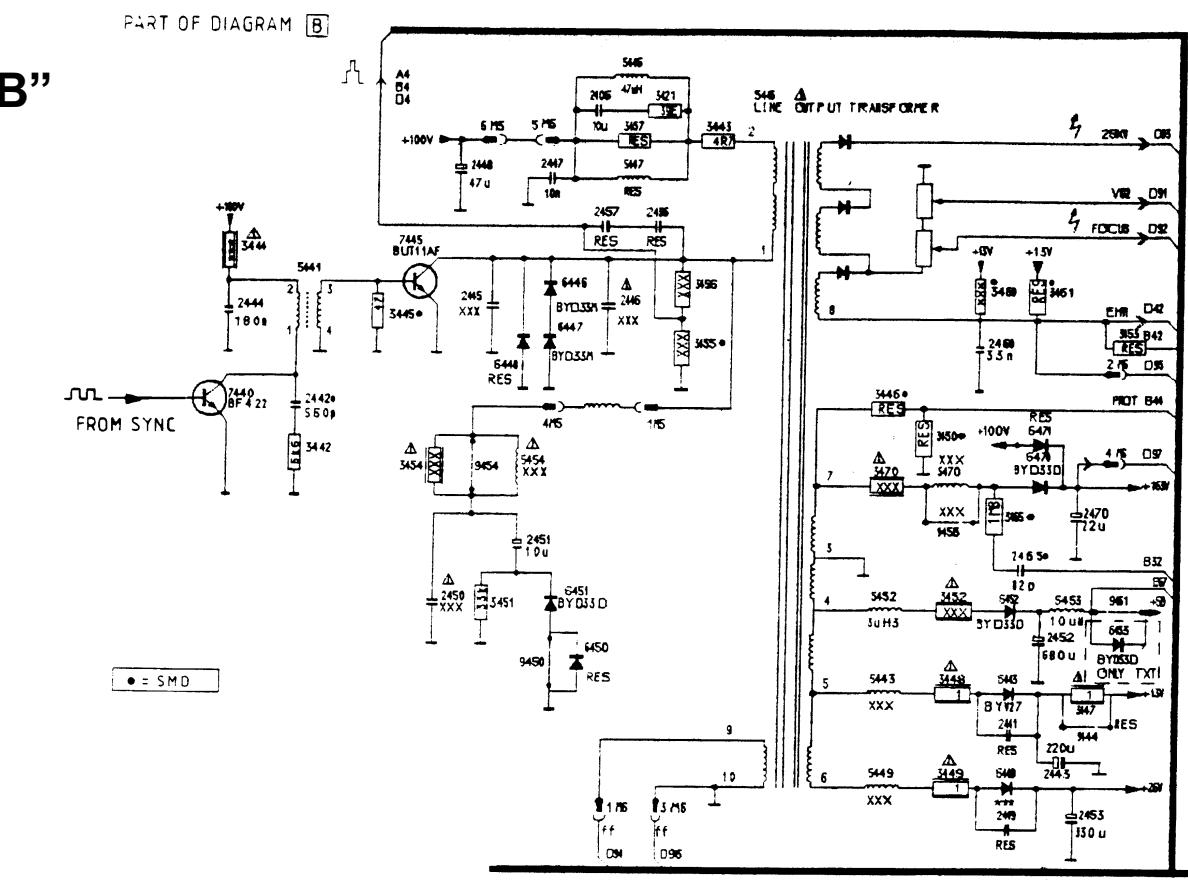
Apply a test pattern signal and adjust the set for normal operation. Allow the set to warm up for about 10 minutes. Adjust 3213 and 3214 until the desired grey scale has been obtained.

Control PCB Diagram

A



A



Part of Diagram “D”

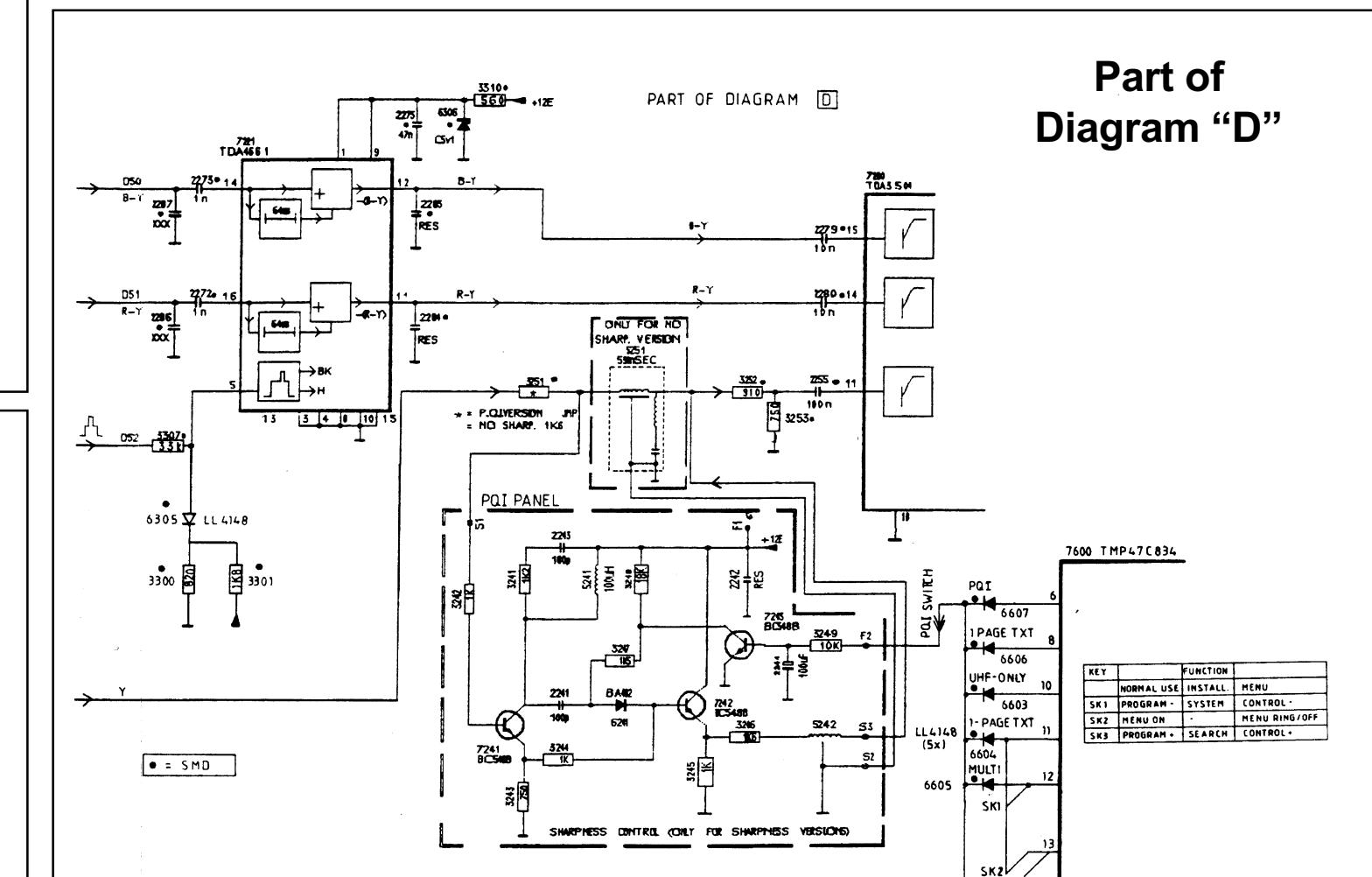
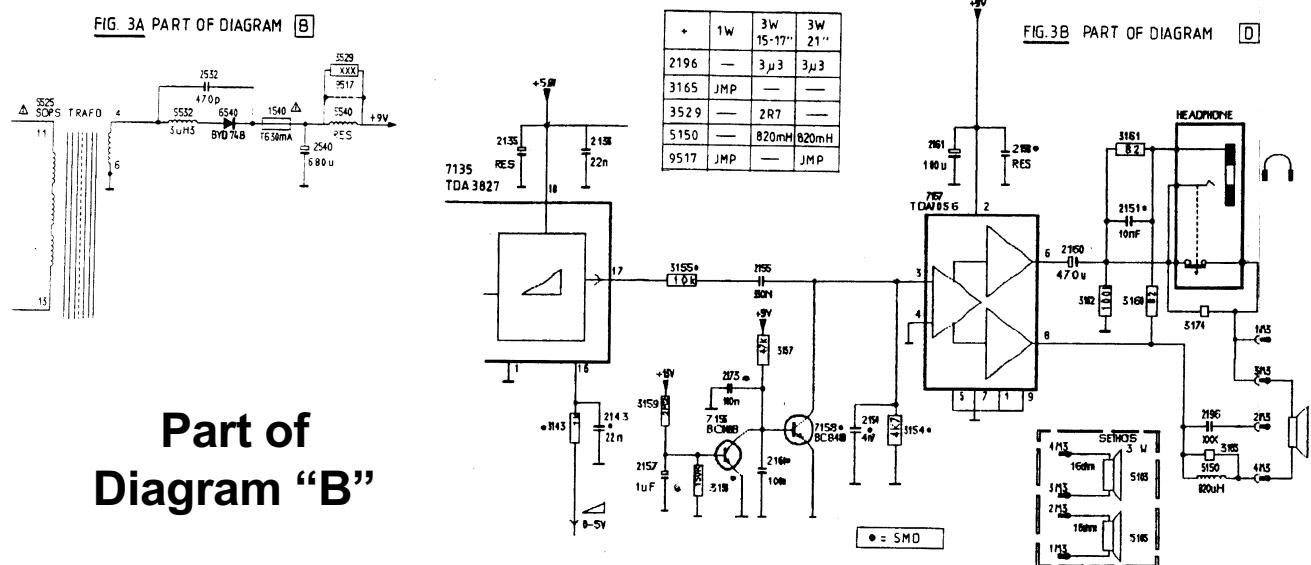
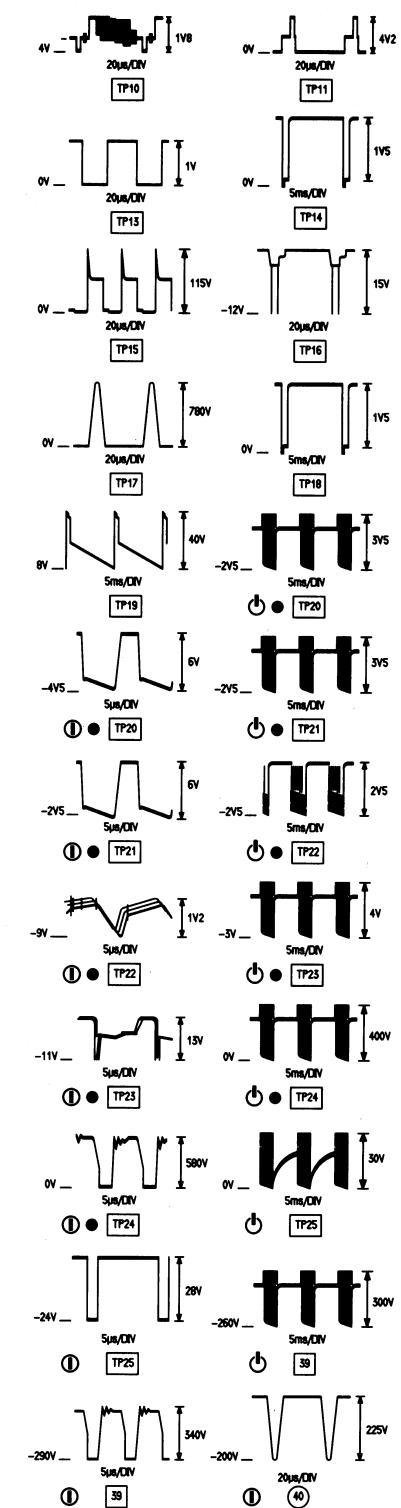
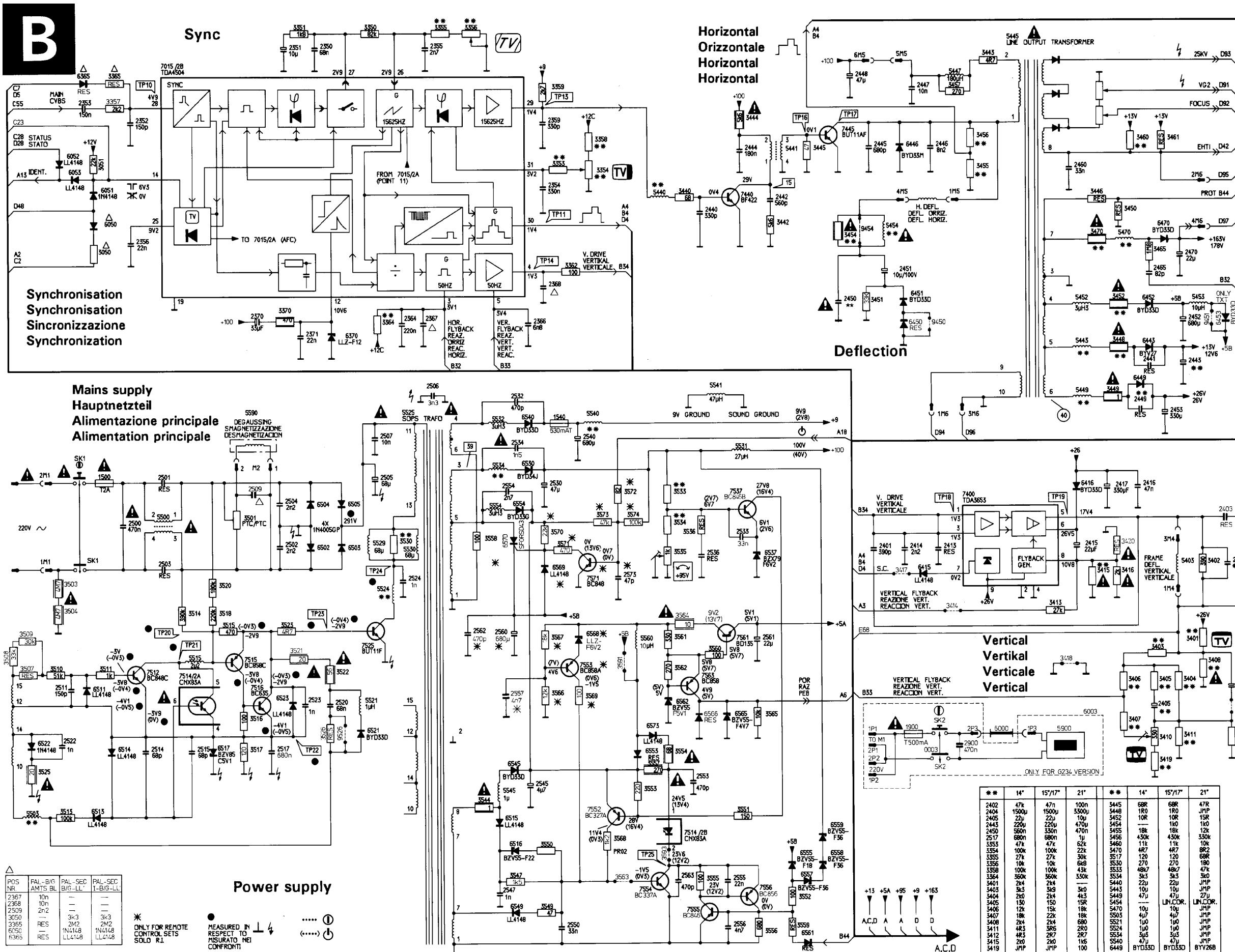


FIG. 3A PART OF DIAGRAM 8

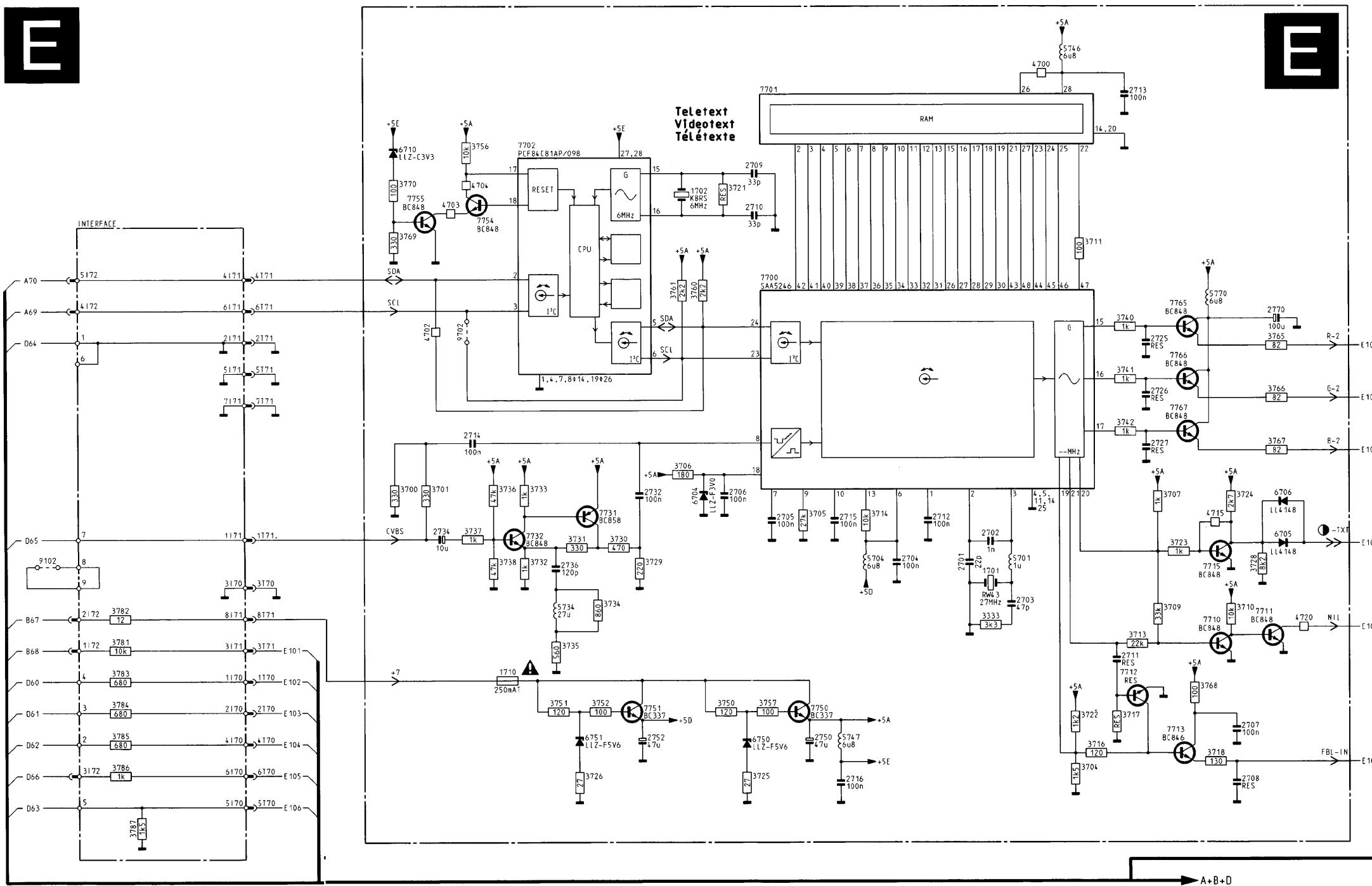


Power Supply Diagram

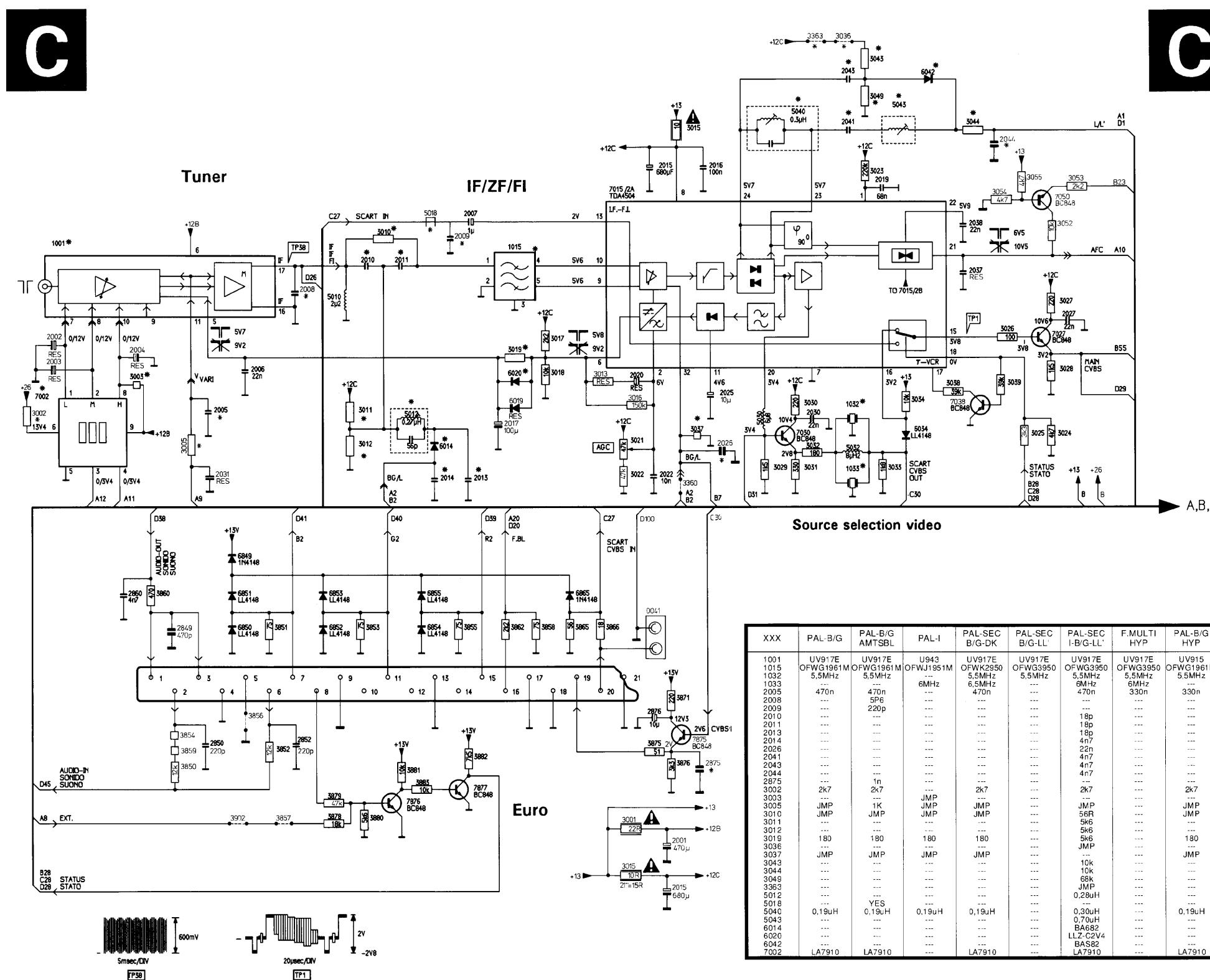


SOPS REPAIR KIT
SBC 7021
4822 310 20491

Teletext Diagram



Tuner IF Diagram



Video Audio Diagram

