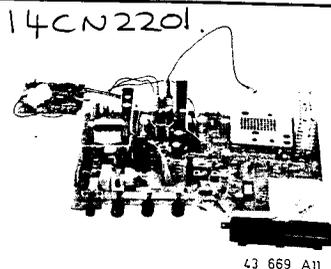


Service
Service
Service



Service Manual

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GB TECHNICAL SPECIFICATION

Mains voltage	: 240 V ~ ± 20 V
Mains frequency	: 50 Hz ± 1 Hz
Power consumption	: 60 Watt
EHT	: 23 kVolt
Aerial input impedance	: 75 Ω - coax
Minimum aerial input	: 20 μV
Maximum aerial input	: 250 mV
Pull-in range colour sync.	: +300 Hz / -300 Hz
Pull-in range horizontal sync.	: +600 Hz / -600 Hz
Loudspeaker impedance	: 25 Ω
LF output power	: ≥ 1 Watt

System	: PAL B/G U.K. PAL I Irl. PAL II
IF-sound	: 33.4 MHz 33.5 MHz 32.9 MHz
FM-sound	: 5.5 MHz 6 MHz 6 MHz
IF-luminance	: 38.9 MHz 39.5 MHz 38.9 MHz
IF-chrominance	: 34.47 MHz 35.07 MHz 35.07 MHz
Subcarrier	: 4.43 MHz 4.43 MHz 4.43 MHz
Pull-in range AFT	: +500 kHz/-500 kHz
Picture tube	: A34EAE-01x

Tuners:

U411-IEC	UV411-IEC	UV417-IEC
UHF : 470-854MHz	VHFa : 44- 88 MHz VHFb : 162-230 MHz UHF : 470-860 MHz	VHFa : 47-111 MHz VHFb : 111-293 MHz UHF : 470-860 MHz

SAFETY PRECAUTIONS

1. Safety regulations demand that the set be restored to its original condition and that components identical to the original types be used. Safety components are marked by the symbol Δ .
2. In order to preclude damage to IC's and transistors flashover of the EHT should be avoided. To prevent damage of the picture tube, the method indicated in Fig. 1 has to be applied when discharging the picture tube. Make use of a high-voltage probe and a universal meter (position DC-V). Discharge until the deflection on the meter has become 0 Volt (after about 30 s).

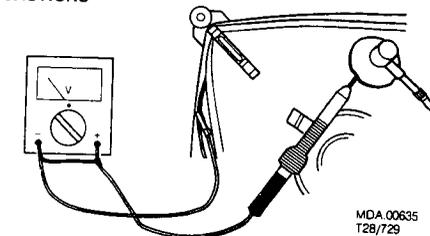


Fig. 1

Picture Tube Replacement

The primary source of X-radiation in this television receiver is the picture tube. The picture tube utilized in this chassis is specially constructed to limit X-radiation emissions. For continued X-radiation protection, the replacement tube must be the same type as the original.

Safety goggles must be worn when the picture tube is replaced.

Parts Replacement

Many electrical and mechanical parts in this television sets have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. The use of a substitute part which does not have the same safety characteristics as the recommended replacement parts shown in this service manual may create shock, fire or other hazards.

GENERAL

Description

The Main Chassis Board Panel is mounted horizontally on the cabinet bottom with support rails on both sides. This panel consists of IF, chroma-luminance, sync processing circuitry and a "self oscillating" power supply system. The potentiometers for the focus and Vg2 adjustment are integrated in the line output transformer (see Fig. 1a). The upper one is for focus and the lower for Vg2.

The CRT Socket Board Module mounts directly onto the base of the picture tube and contains RGB driver circuits and the black level circuitry. Colour drive and cut-off controls are located on this module

Servicing The Chassis

For improved serviceability a slide-out feature has been incorporated in this chassis. To place the Main Chassis Board Panel into a more accessible position (placed so that the chassis leans on its heatsinks) pull the panel back.

ESD



All IC's and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

A set to be repaired should always be connected to the mains via a suitable isolating transformer.

Never replace any modules or other parts while the set is switched on.

Be careful when measuring the EHT-section and the picture tube.

Use plastic instead of metal tools for adjusting. This is necessary to avoid a short-circuit or to avoid causing a circuit to become unstable.

Never replace components when the set is being switched on.

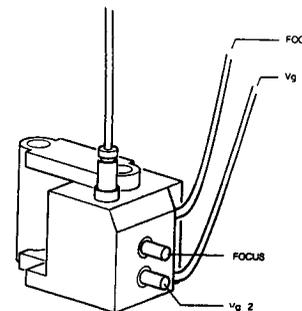


Fig. 1a

MDA 00633
CP90
T28/729

ADJUSTMENTS, Fig. 2**+100 Vdc Adjustment**

1. With the line voltage maintained at 220 V~ via an isolation transformer, turn set on.
2. Connect a 1% Digital Volt Meter from junction R3505/C2421 to chassis ground.
3. Adjust R3433 for +100 Vdc +/- 1 V.

RF AGC

1. This circuit operates only if the aerial signals are very strong.
If the picture of a local transmitter is shown in a distorted way R3237 must be so adjusted that the picture is no longer distorted.

AFT

Connect a DC voltmeter to pin 18 of IC7220. Measure without input signal the voltage. Connect signal generator as shown in Fig. 3 and select a channel in the UHF band so that the tuning voltage (pin 7 of U4100) equals 17.5 V. Set signal generator to 39.5 MHz and adjust L5222 for reading the same value as without input signal.

Focus

1. Tune in a local station and adjust the Focus Control on the line output transformer for best picture detail.

Horizontal synchronization

1. Supply an aerial signal. Interconnect pin 25 of IC7220 to pin 7 of IC7220.
2. Adjust R3234 until the picture stands straight.
3. Remove the interconnection.

Horizontal centring

1. Adjust R3225 for a picture of horizontal centre position.

Vertical height

1. Adjust the Vertical Height Control R3558 to obtain correct vertical height.

Chroma oscillator

1. Apply a PAL color bar pattern RF signal to the antenna terminal.
2. Adjust Contrast, Colour and Brightness to nominal position.
3. Connect pin 5 of IC7600 to pin 1 of IC7600.
4. Adjust R3635 for a stationary (zero beat) display on the screen.
5. Remove the interconnections.

PAL delay line

Apply a generator signal from a PM5519. Set the generator to "DEM". Set contrast and brightness to normal and set the saturation control to 3/4 of its range. Adjust R3662 so that the venetian-blinds effect in the 3rd bar is minimal. Subsequently, adjust L5661 until the venetian-blinds effect in the 1st and the 4th bar is also minimal. Readjust R3662 if necessary.

Audio Preset

1. Apply a RF with 1 kHz sound signal to tuner.
2. Connect an oscilloscope parallel to the loudspeaker via a low pass filter (Fig. 4a).
3. Adjust 3341 so that the output voltage is 1.4 Vpp when the set is switched on.

Sound discriminator

1. Select an active channel and adjust the Sound Discriminator L5221 for maximum output.

IF Alignment set up

1. Select a channel in the UHF band so that the tuning voltage (pin 7 of U4100) equals 17.5 V.
2. Apply a DC voltage of 5 V to pin 19 of IC7220.
3. Inject a sweep signal of 27-44 MHz to the IF injection point of the tuner via a matching pad, see Fig. 3.
4. Connect an oscilloscope to pin 17 of IC7220 via a matching pad, see Fig. 4.

IF Alignment

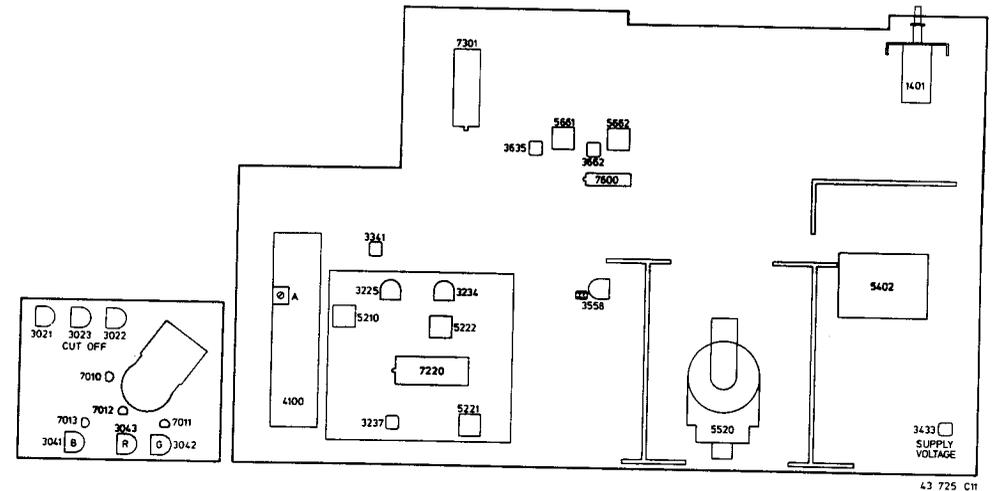
1. Adjust L5210 for maximum output at 38.9 MHz (PAL B/G/I1) or 39.5 MHz (PAL I).
2. Adjust the tuner coil A to obtain a symmetrical IF response curve as shown in Fig. 5.
3. Remove the connections.
4. Readjust the RF AGC.

Cut-off point of CRT

1. Apply a white pattern signal to the antenna terminal.
2. Adjust the Contrast and Brightness controls to minimum.
3. Adjust R3041/R3042/R3043 to minimum.
4. Adjust R3021/R3022/R3023 for a collector voltage of 125 Vdc on TS7010/TS7011/TS7012.
5. Adjust Vg2 (lower potentiometer on the line output transformer) until the gun that first emits is just no longer visible.
6. Adjust the two other guns with their associated controls (R3021, R3022 or R3023) until just no light is visible.

Grey scale

1. Apply a grey scale test pattern signal and set the controls to their normal settings.
2. Allow the set to warm up for about 10 minutes.
3. Adjust R3041, R3042 and R3043 until the desired grey scale is obtained.



43 725 C11

Fig. 2

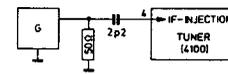


Fig. 3

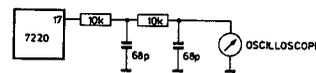


Fig. 4

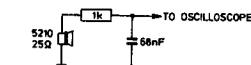
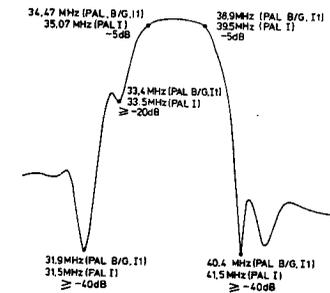


Fig. 4a



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Fig. 5

ADJUSTING THE PICTURE

Note:

The colour purity and convergence adjustments described hereafter need only be carried out if a completely new adjustment is called for or if a new picture tube has been fitted. Otherwise, for instance after replacing the deflection unit, it will not be necessary to remove the rubber wedges (G in Fig. 6). Corrections by means of the multi-pole unit will then suffice.

I. Colour purity, see Fig. 6

- Loosen fixing screw "F" of the deflection unit a few turns.
- Move the deflection unit and remove the three rubber wedges "G".
- Slide the deflection unit forward as far as possible against the glass of the picture tube cone and tighten fixing screw "F" in such a manner that the deflection unit can be moved with some friction.
- Place the multi-pole unit in the position shown, turn screw "A" and turn securing ring "B" counter clockwise.
- Let the apparatus face East or West and switch on the set.
Supply a cross-hatch pattern and set brightness control to maximum. Allow for a warming-up time of 10 minutes.
- Adjust the static convergence, using tabs "C" and "D" (if necessary, see procedure II).
- Switch off the green and the blue gun by disconnecting the resistors R3007 and R3008.
- By turning the colour purity rings with tabs "E", the vertical red bar is adjusted nearest to the centre of the screen, while the central horizontal line should be as straight as possible.
- Supply a white pattern signal and check that the red bar is in the center of the screen. If not, switch on the cross-hatch pattern again and move the red bar in the right direction, taking care that the picture does not move too much in vertical direction.
- Supply the white pattern signal and move the deflection unit until the whole picture surface is uniformly red.
- Switch on the green and the blue guns by reconnecting R3007 and R3008. No colour patches should occur in the white picture now obtained. If necessary a minor correction can be made by slightly turning the color purity rings "E" and/or slightly moving the deflection unit.
- Tighten screw "F" tightly.
- Proceed to the static and dynamic convergence adjustments.

II. Static convergence, see Fig. 6

- Supply a cross-hatch pattern and allow for a warming-up time of 10 minutes.
- Switch off the green gun by disconnecting resistor R3007 and turn locking ring "B" anticlockwise.
- By turning the four-pole rings with tabs "C", the red and blue cross-hatch patterns in the center of the screen are placed on top of each other.
- Switch on the green gun by reconnecting R3007 and switch-off the blue gun by disconnecting resistor R3008.
- By turning the six-pole rings with tabs "D" the red and green cross-hatch patterns in the center of the screen are placed on top of each other.
- Switch-on the blue gun again and tighten ring "B" again.

III. Dynamic convergence, see Fig. 7 and 8

Remark:

The dynamic convergence is achieved by vertical and horizontal tilting of the deflection unit. To secure the right position of the deflection unit, three rubber wedges are fitted between the glass of the picture tube and the deflection unit, as shown in Figs. 7d or 8d.

- First check the colour purity and the static convergence.
- Supply a cross-hatch pattern and switch off the green gun by disconnecting resistor R3007.
- Eliminate the crossing of the central horizontal blue and red line and the crossing of the central vertical blue and red line, by vertical tilting of the deflection unit. If the position of the deflection unit is correct, then place rubber wedge ①, paper strip not removed, at the top (Fig. 7a) or at the bottom (Fig. 8a). Fig. 7a is applicable if the deflection unit is tilted upwards and Fig. 8a if the unit is tilted downwards.
- By horizontal tilting of the deflection unit, now both the horizontal blue and red lines in the upper and lower halves of the picture and the vertical blue and red lines on the left and right hand side of the picture are placed on top of the other. If the position of the deflection unit is correct, then place wedges ② and ③ with paper strips removed, as shown in Fig. 7b or 8b. Firmly press the adhesive sides of these wedges against the glass of the picture tube.
- Now place wedge ④ as shown in Fig. 7c or 8c and press on the adhesive side firmly.
- Remove wedge ①, to obtain the condition shown in Fig. 7d or 8d.
- Switch on the green gun by reconnecting R3007.

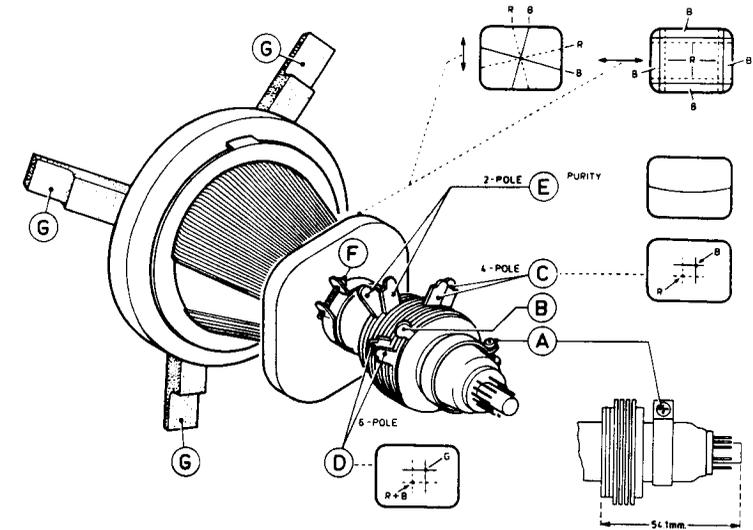
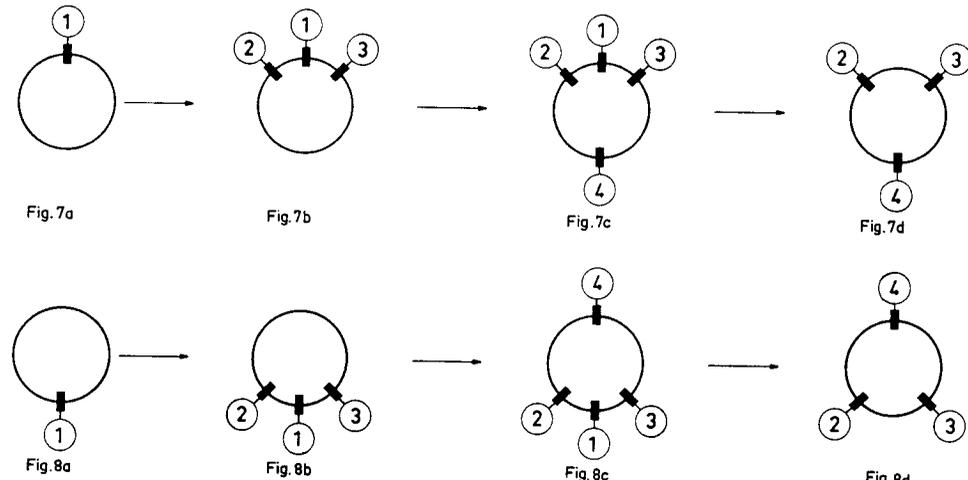


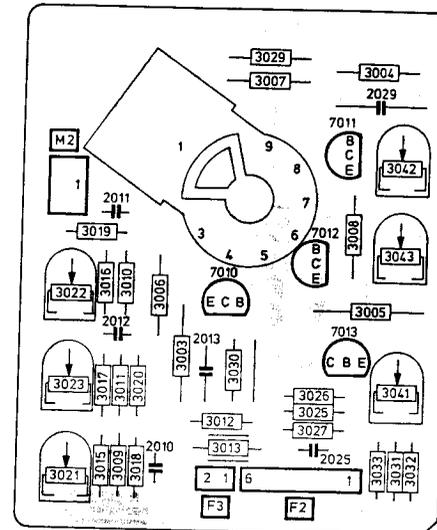
Fig. 6



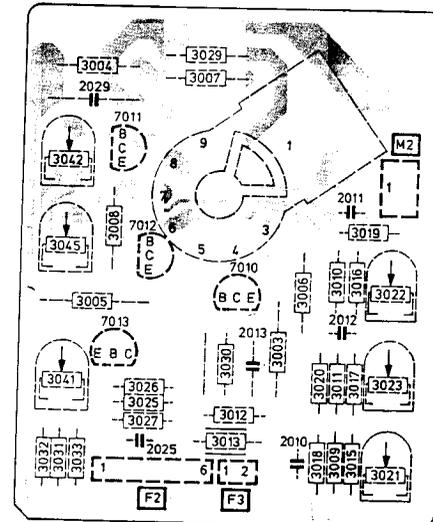
SCHEMATIC NOTES

1. DC voltages and wave forms should be measured with respect to a ground as close as possible to the point to be measured.
2. DC voltages have been measured as follows:
 - a. Line voltage maintained at 220 V~, 50 Hz via an isolation transformer.
 - b. Customer controls set as follows:
 - Volume to minimum.
 - Set brightness control to minimum.
 - Set contrast and colour control to maximum.
 - c. No signal to the antenna terminal.
 - d. With multimeter which has an impedance of 10 k Ω /V.
3. Wave forms have been measured under the following conditions:
 - a. Line voltage maintained at 220 V~, 50 Hz via an isolation transformer.
 - b. Using a color bar pattern as input signal (E.G. PM5515).
 - c. - Volume to minimum.
 - Colour control R3623 set for 2.5 Vdc at pin 6 of IC7600.
 - Contrast control R3622 set for 4.05 Vdc at pin 5 of IC7600.
 - Brightness control R3625 set for 1.4 Vdc at pin 9 of IC7600.
4. All voltages are positive DC with respect to ground and may vary due to normal production tolerances. Voltage sources are also nominal, with the exception of the +100 Vdc source which is set at the factory to be within ± 1 Vdc (with a 1% digital voltmeter, at exactly 100 Vdc).
5. Numbers within circles are waveforms measured with line time base. Numbers within squares are waveforms measured with frame time base.
6. For voltage, wattage or tolerance ratings of capacitors or resistors, refer to the electrical replacement parts list.
7. During manufacture alternative semiconductors may be used. However the semiconductors specified in the parts list and circuit diagram can always be used as replacements.

CRT P.C. BOARD

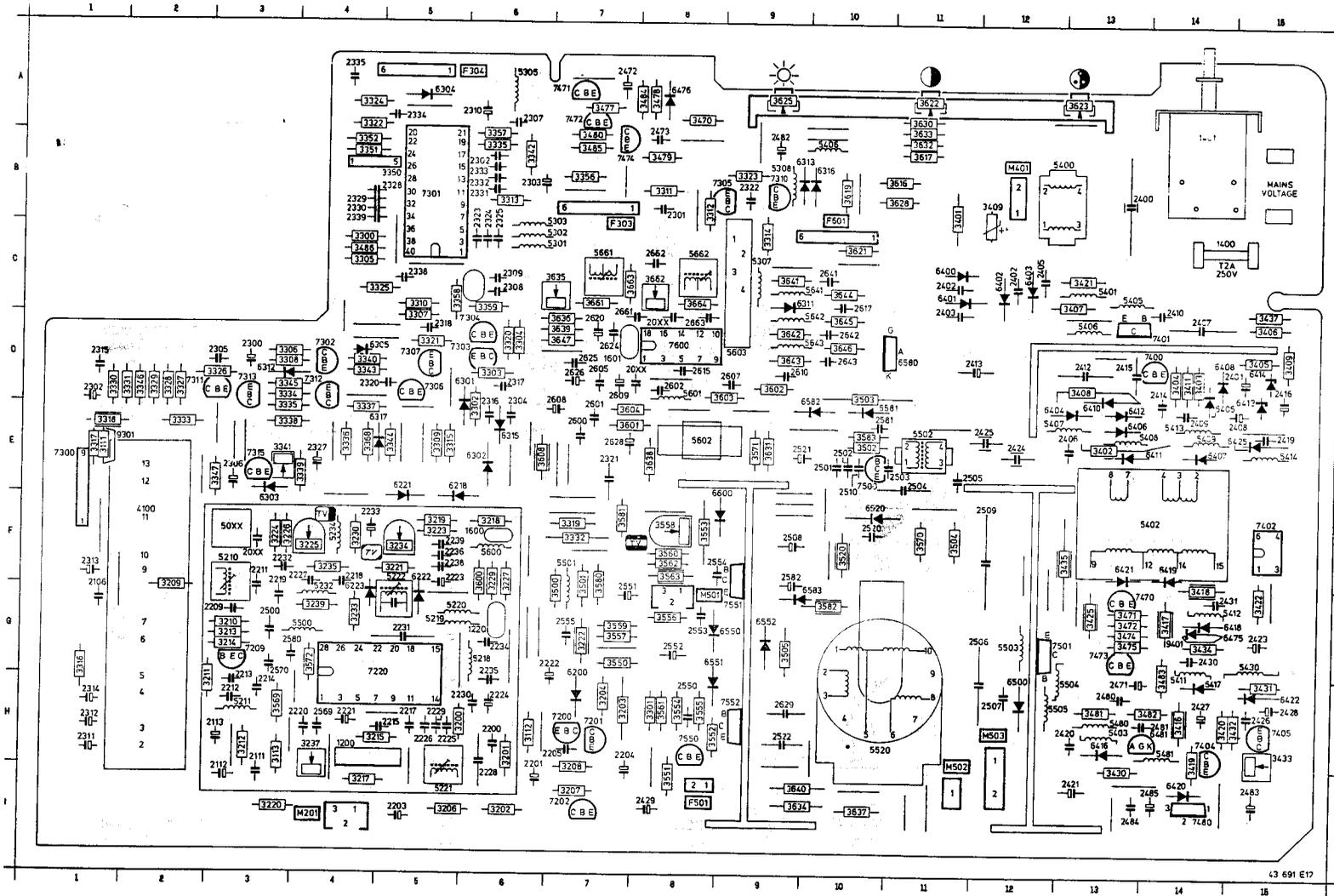


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MAIN CHASSIS P.C BOARD
(component side)



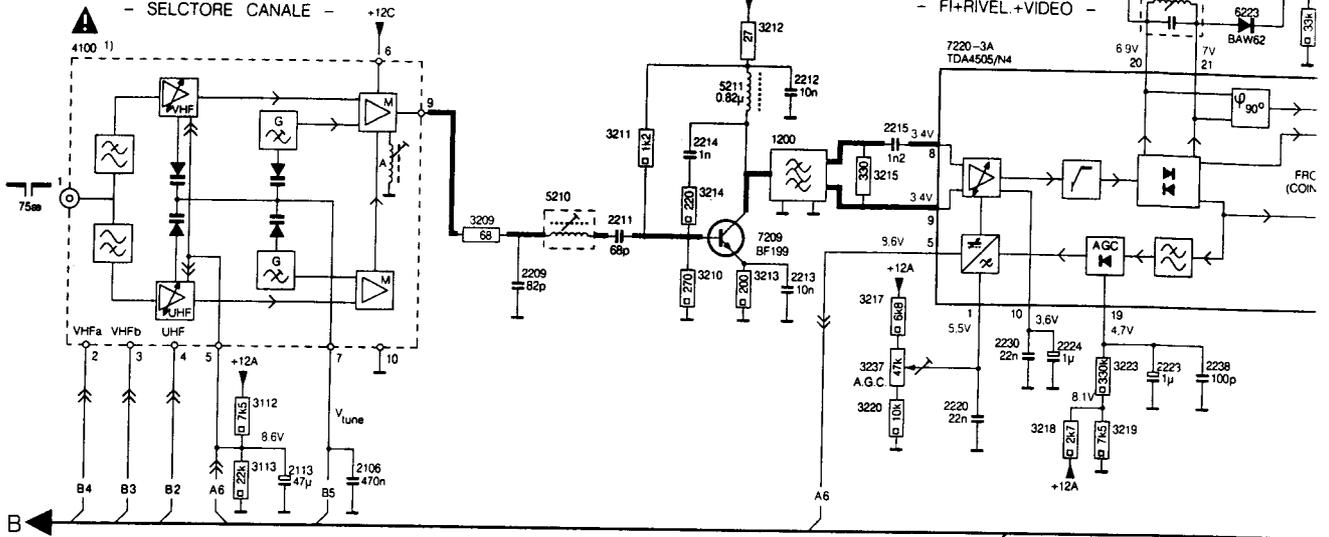
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1205	G 6	2414	D11	3220	F 7	3433	H15	5234	F 7	7201	H 7
1400	C14	2415	D14	3221	F 8	3434	H15	5235	F 7	7202	G 3
1401	H14	2416	D13	3222	F 7	3435	F13	5302	F 7	7205	H 7
1405	F 14	2417	D15	3223	F 8	3437	F15	5303	C 6	7206	H 7
1406	F 14	2418	D15	3224	F 8	3438	F15	5304	C 6	7207	H 7
1407	F 14	2419	D15	3225	F 8	3439	F15	5305	C 6	7208	H 7
1408	F 14	2420	H13	3226	F 4	3441	C13	5307	C 9	7209	H 7
1409	F 14	2421	H13	3227	F 4	3442	C13	5308	C 9	7210	H 7
1410	F 14	2422	H12	3228	F 4	3443	C13	5309	C 9	7211	H 7
1411	F 14	2423	H12	3229	F 4	3444	C13	5310	C 9	7212	H 7
1412	F 14	2424	H12	3230	F 4	3445	C13	5311	C 9	7213	H 7
1413	F 14	2425	H12	3231	F 4	3446	C13	5312	C 9	7214	H 7
1414	F 14	2426	H12	3232	F 4	3447	C13	5313	C 9	7215	H 7
1415	F 14	2427	H12	3233	F 4	3448	C13	5314	C 9	7216	H 7
1416	F 14	2428	H12	3234	F 4	3449	C13	5315	C 9	7217	H 7
1417	F 14	2429	H12	3235	F 4	3450	C13	5316	C 9	7218	H 7
1418	F 14	2430	H12	3236	F 4	3451	C13	5317	C 9	7219	H 7
1419	F 14	2431	H12	3237	F 4	3452	C13	5318	C 9	7220	H 7
1420	F 14	2432	H12	3238	F 4	3453	C13	5319	C 9	7221	H 7
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1424	F 14	2436	H12	3242	F 4	3457	C13	5323	C 9	7225	H 7
1425	F 14	2437	H12	3243	F 4	3458	C13	5324	C 9	7226	H 7
1426	F 14	2438	H12	3244	F 4	3459	C13	5325	C 9	7227	H 7
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1435	F 14	2447	H12	3253	F 4	3468	C13	5334	C 9	7236	H 7
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1437	F 14	2449	H12	3255	F 4	3470	C13	5336	C 9	7238	H 7
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1444	F 14	2456	H12	3262	F 4	3477	C13	5343	C 9	7245	H 7
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1454	F 14	2466	H12	3272	F 4	3487	C13	5353	C 9	7255	H 7
1455	F 14	2467	H12	3273	F 4	3488	C13	5354	C 9	7256	H 7
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1473	F 14	2485	H14	3291	H 8	3506	H 8	5372	C 9	7274	H 7
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1477	F 14	2489	H14	3295	H 8	3510	H 8	5376	C 9	7278	H 7
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1481	F 14	2493	H14	3299	H 8	3514	H 8	5380	C 9	7282	H 7
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1483	F 14	2495	H14	3301	H 8	3516	H 8	5382	C 9	7284	H 7
1484	F 14	2496	H14	3302	H 8	3517	H 8	5383	C 9	7285	H 7
1485	F 14	2497	H14	3303	H 8	3518	H 8	5384	C 9	7286	H 7
1486	F 14	2498	H14	3304	H 8	3519	H 8	5385	C 9	7287	H 7
1487	F 14	2499	H14	3305	H 8	3520	H 8	5386	C 9	7288	H 7
1488	F 14	2500	H14	3306	H 8	3521	H 8	5387	C 9	7289	H 7
1489	F 14	2501	H14	3307	H 8	3522	H 8	5388	C 9	7290	H 7
1490	F 14	2502	H14	3308	H 8	3523	H 8	5389	C 9	7291	H 7
1491	F 14	2503	H14	3309	H 8	3524	H 8	5390	C 9	7292	H 7
1492	F 14	2504	H14	3310	H 8	3525	H 8	5391	C 9	7293	H 7
1493	F 14	2505	H14	3311	H 8	3526	H 8	5392	C 9	7294	H 7
1494	F 14	2506	H14	3312	H 8	3527	H 8	5393	C 9	7295	H 7
1495	F 14	2507	H14	3313	H 8	3528	H 8	5394	C 9	7296	H 7
1496	F 14	2508	H14	3314	H 8	3529	H 8	5395	C 9	7297	H 7
1497	F 14	2509	H14	3315	H 8	3530	H 8	5396	C 9	7298	H 7
1498	F 14	2510	H14	3316	H 8	3531	H 8	5397	C 9	7299	H 7
1499	F 14	2511	H14	3317	H 8	3532	H 8	5398	C 9	7300	H 7
1500	F 14	2512	H14	3318	H 8	3533	H 8	5399	C 9	7301	H 7
1501	F 14	2513	H14	3319	H 8	3534	H 8	5400	C 9	7302	H 7
1502	F 14	2514	H14	3320	H 8	3535	H 8	5401	C 9	7303	H 7
1503	F 14	2515	H14	3321	H 8	3536	H 8	5402	C 9	7304	H 7

CIRCUIT DIAGRAM

DIAGRAM-SCHALTBILD-SCHEMA A

- CHANNEL SELECTOR -
- KANALWAELHLER -
- SELCTORE CANALE -

- IF+AGC+VIDEO -
- ZF+DEM+VIDEO -
- FI+RIVEL.+VIDEO -

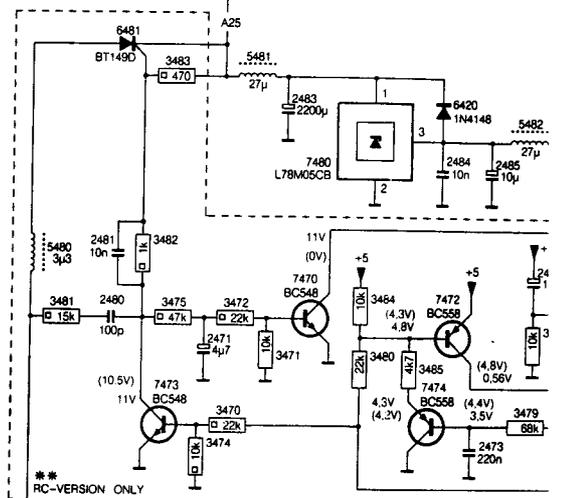


** RC - REMOTE CONTROL
NRC - NON REMOTE CONTROL

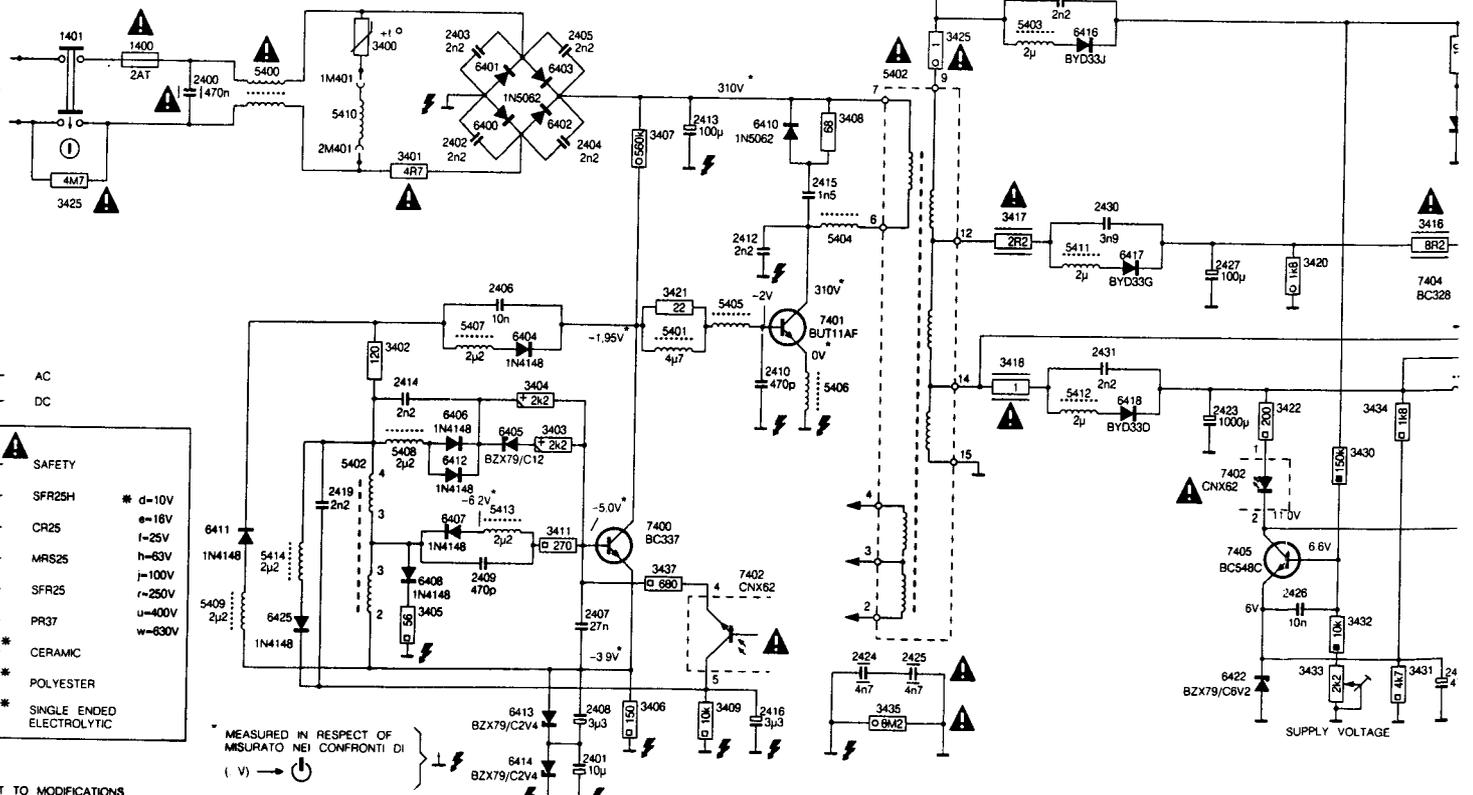
ITEM	RC	NRC	
2471	+	-	1) FOR /05
2472	+	-	4100 → U411/EC
2473	+	-	3111 → DELETED
2480	+	-	9301 → ADDED
2481	+	-	1800 → 6MHz
3400	+	-	1220 → 6MHz
3470	+	-	
3471	+	-	
3472	+	-	
3474	+	-	
3475	+	-	
3476	+	-	
3477	+	-	
3478	+	-	
3481	+	-	
3482	+	-	
3483	+	-	
3484	+	-	
3478	+	-	
5480	+	-	
6475	+	-	
6476	+	-	
6481	+	-	
7470	+	-	
7471	+	-	
7472	+	-	
7473	+	-	
7474	+	-	
9401	+	-	

+ - PRESENT
- - NOT PRESENT

- POWER SUPPLY -
- SPEISUNG -
- ALIMENTAZIONE -



** RC-VERSION ONLY



AC
DC

SAFETY

SFR25H * d=10V
e=16V
f=25V

CR25
h=63V
j=100V
r=250V
u=400V
w=630V

SFR25

PR37

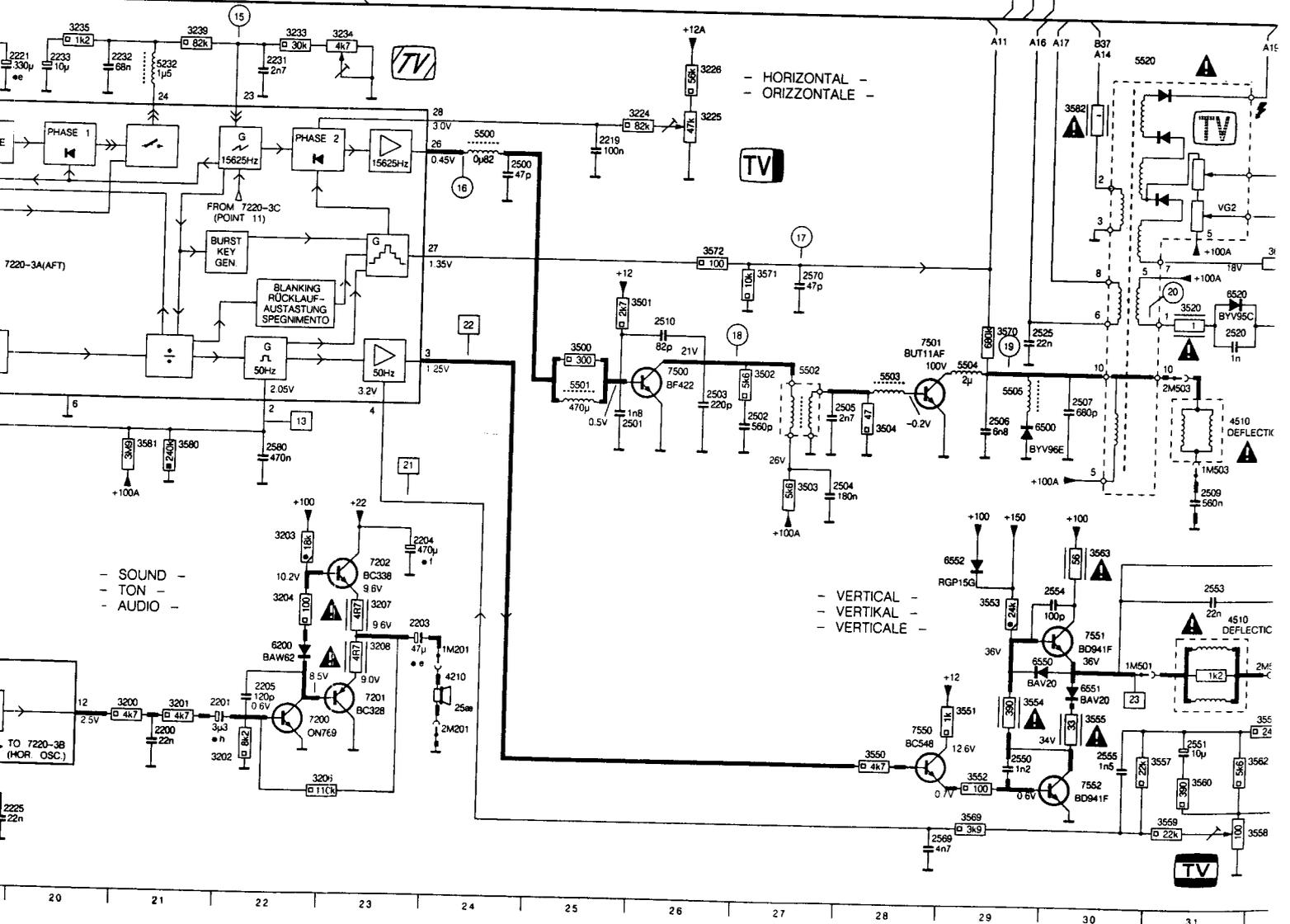
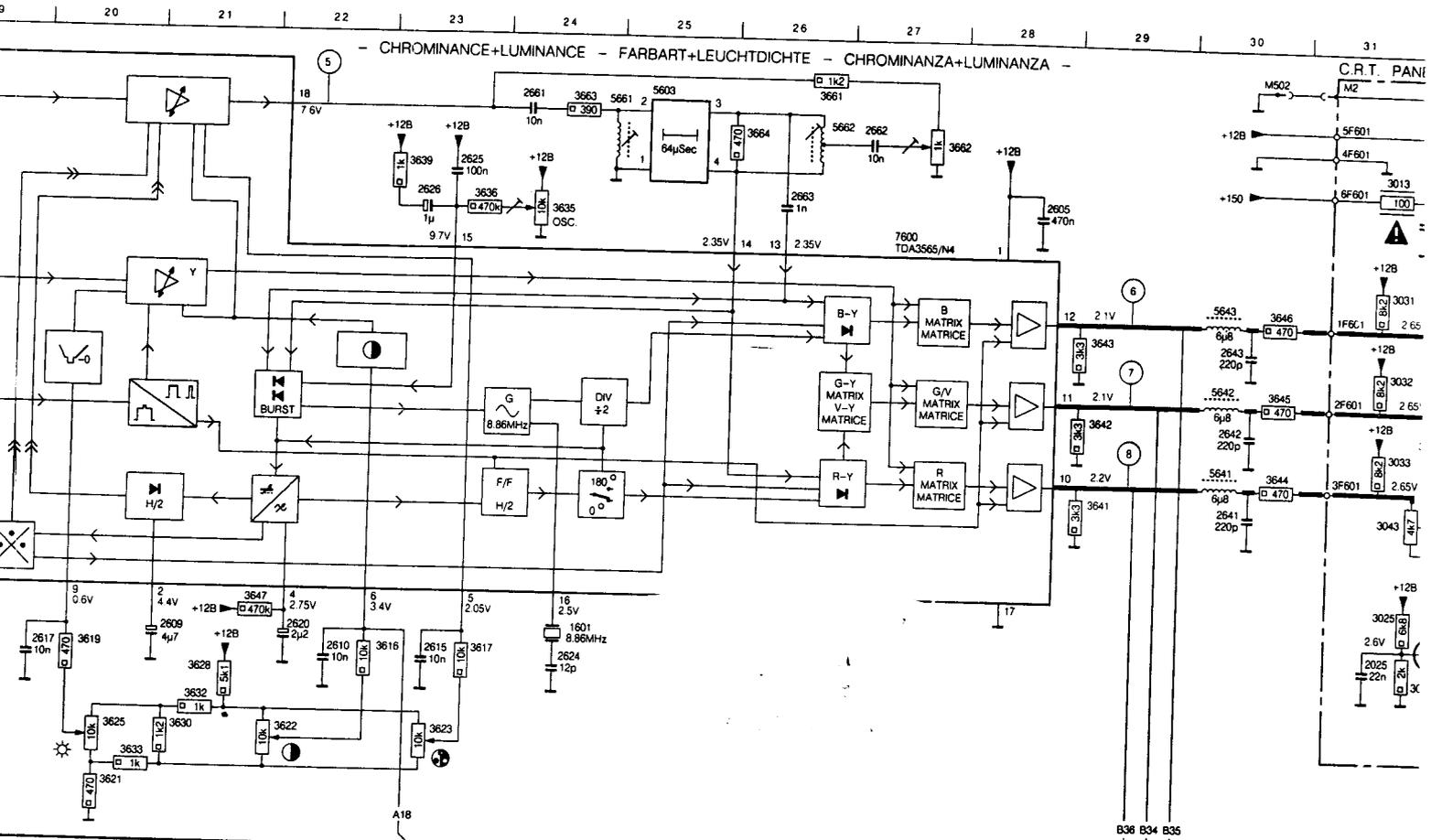
CERAMIC

POLYESTER

SINGLE ENDED ELECTROLYTIC

MEASURED IN RESPECT OF MISURATO NEI CONFRONTI DI (V)

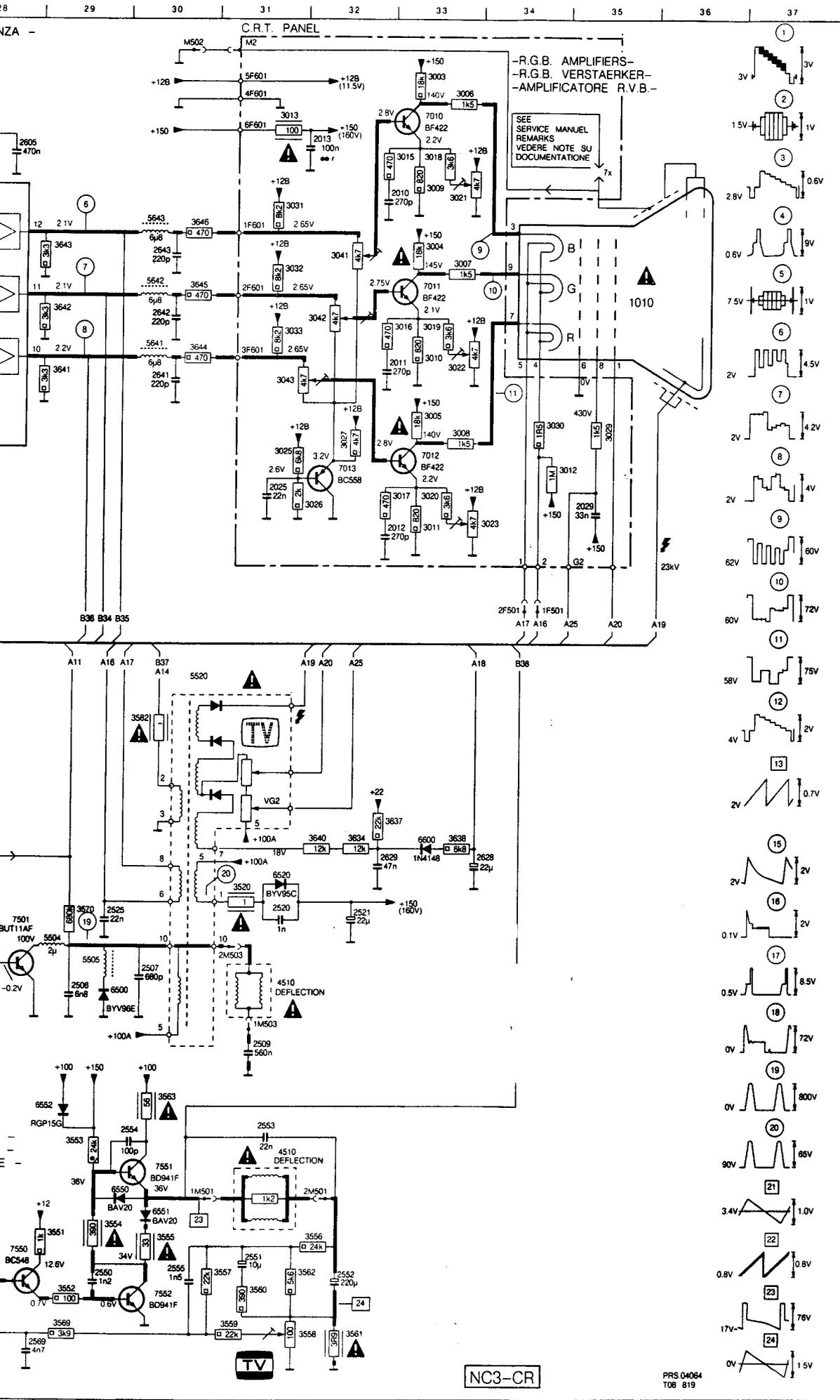
SUBJECT TO MODIFICATIONS



- SOUND -
- TON -
- AUDIO -

TO 7220-3B
(HOR. OSC.)



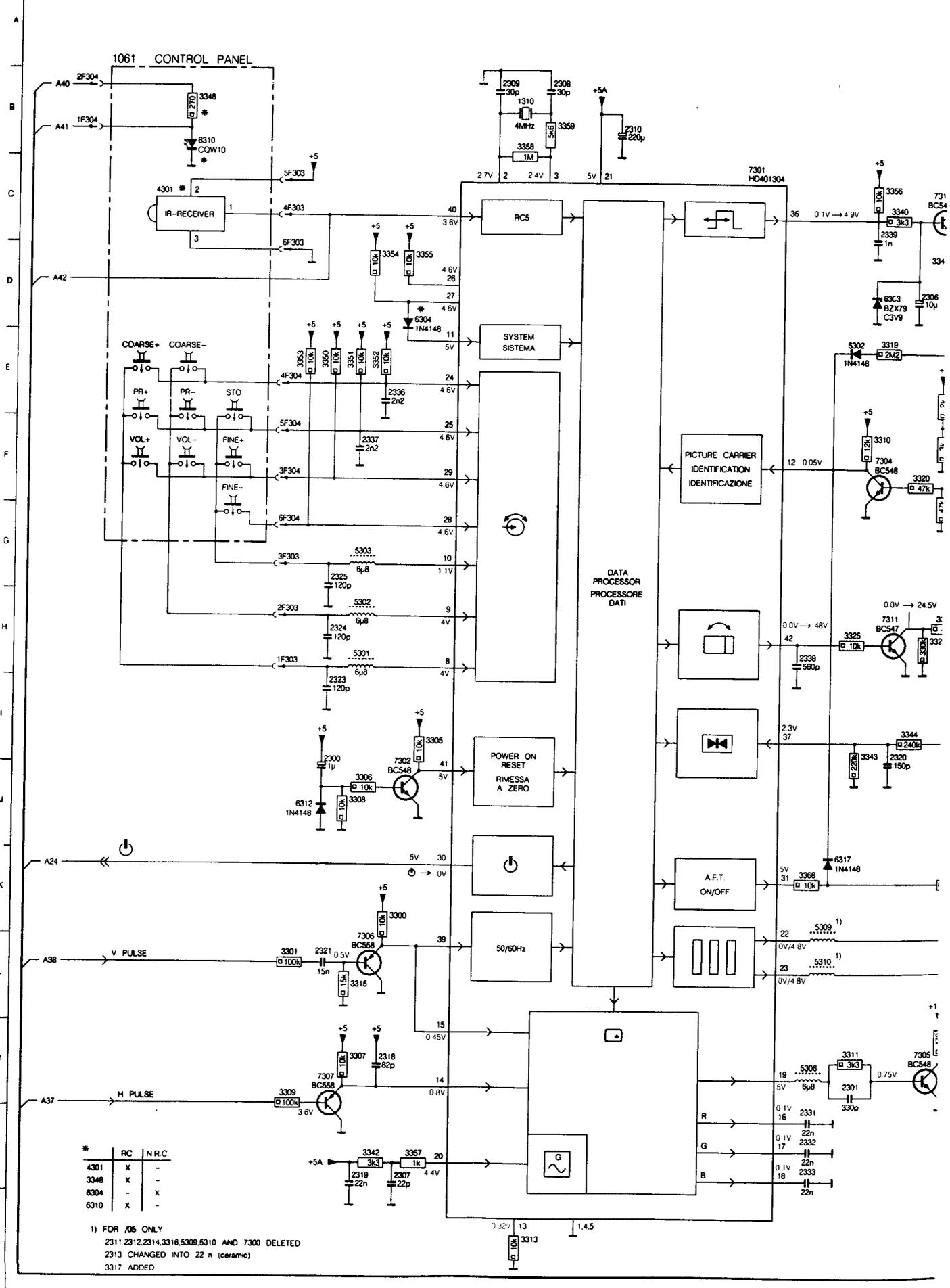


1010	C35	3017	F33	3640	I 32
1200	B 8	3018	B33	3641	D29
1220	N17	3019	D33	3642	D29
1400	J 2	3020	F33	3643	C29
1401	J 1	3021	B33	3644	D30
1600	C17	3022	H33	3645	C30
A 1601	E24	3023	F34	3646	C30
2010	B33	3025	E31	3647	E21
2011	D33	3026	F32	3648	A26
2012	F33	3027	E32	3662	A27
2013	B32	3029	E35	3663	A24
2020	E31	3030	E31	3664	A26
2029	F35	3031	B31	4100	A 9
2106	E 5	3032	C31	4210	N24
2111	O14	3033	D31	4510	K31
B 2112	O14	3041	C32	4510	M31
2113	E 4	3042	D32	5210	B 6
2200	H21	3043	D31	5211	B 9
2201	N22	3111	O14	5218	N17
2203	M23	3112	D 4	5219	C14
2204	L24	3113	E 4	5220	B14
2205	N22	3200	N21	5221	O19
2209	C 6	3201	N21	5222	A11
C 2211	C 7	3202	H22	5232	H21
2212	A 8	3203	L22	5231	F17
C 2213	C 8	3204	M22	5305	I13
2214	B 8	3206	O23	5400	J 3
2215	B 9	3207	M23	5401	L 6
2217	H19	3208	M23	5402	J 8
2218	I11	3209	M14	5414	M 4
D 2219	H25	3210	C 6	5403	J 9
2220	D10	3211	B 7	5404	K 8
2221	H19	3212	A 8	5405	L 7
2222	M14	3213	C 8	5406	L 8
2223	O11	3214	B 8	5407	L 5
2224	O10	3215	B 9	5413	M 4
D 2225	C20	3217	O 7	5409	N 3
2226	O19	3218	D10	5410	J 4
2227	H17	3219	D11	5411	K10
2228	O18	3220	D 9	5412	L10
2229	O18	3221	A13	5413	M 5
2230	H18	3222	M14	5414	N 3
2231	H22	3223	D11	5430	L11
2232	H20	3224	H25	5480	G 9
E 2233	H20	3225	H26	5481	F10
2234	N17	3226	H26	5482	F12
2235	O18	3227	C14	5900	H24
2236	B14	3228	C15	5501	K25
2238	D12	3230	H17	5502	K27
2239	B14	3233	H22	5503	K28
2302	O14	3234	H23	5504	K29
2400	J 3	3235	H20	5505	K29
2401	O 8	3237	D 9	5520	H30
F 2402	J 5	3239	H24	5600	B17
2403	J 5	3238	H18	5601	A18
2404	J 6	3400	J 4	5602	B18
2405	J 6	3401	K 4	5603	A25
2406	L 5	3402	L 4	5641	D30
2407	N 6	3403	M 5	5642	C30
2408	O 6	3404	L 5	5643	C30
2409	N 6	3405	N 4	5651	A24
2410	L 7	3406	O 6	6200	M22
2412	K 7	3407	J 6	6218	D15
G 2413	J 7	3408	J 8	6221	C15
2414	L 4	3409	O 7	6222	A12
2415	K10	3410	O 7	6223	A12
2416	O 7	3416	K12	6400	J 5
2419	M 4	3417	K 9	6401	J 5
2420	I 9	3418	L 9	6402	J 5
2421	J13	3419	K13	6403	J 5
2423	L11	3420	K11	6404	L 5
2424	N 8	3421	D 8	6405	M 5
2425	N 8	3422	L11	6406	M 5
H 2426	N11	3425	J 9	6407	M 5
2427	K11	3425	K 1	6408	N 4
2428	O13	3430	M12	6410	J 7
2429	L13	3431	N12	6411	M 3
2430	K10	3432	O11	6412	C 8
2431	L10	3433	O11	6414	O 5
2471	H10	3434	L12	6416	J10
2472	G13	3435	O 8	6417	K10
2473	I12	3437	N 6	6418	L10
2474	G 9	3470	H10	6419	K15
I 2481	G 9	3471	H10	6420	L12
2482	F13	3472	G10	6421	K15
2483	F11	3474	I10	6422	O11
2484	F12	3475	G 9	6425	N 3
2485	F12	3477	G13	6475	L15
2500	I24	3478	H13	6476	H13
2501	K06	3479	H12	6478	E 9
2502	K27	3480	H11	6500	K29
J 2503	K26	3481	G 9	6520	J31
2504	L28	3482	G 9	6550	M29
2505	K28	3483	F 9	6551	N30
2506	K28	3484	G11	6552	L29
2507	K30	3485	H12	6553	L13
2508	J13	3500	J25	6581	J13
2509	L31	3501	J26	6582	J14
2510	J26	3502	K27	6583	J15
2520	J31	3503	L27	6600	I33
2521	J32	3504	K28	7010	A33
2525	J29	3505	J13	7011	C33
K 2550	N29	3520	J31	7012	E33
2551	N31	3550	N28	7013	E32
2552	N32	3551	N29	7200	N23
2553	M31	3552	N29	7201	N23
2554	M30	3553	M29	7202	M23
2555	N30	3554	N29	7209	C 8
2569	O29	3555	N30	7220	A10
2570	J27	3558	N32	7220	M18
2580	K22	3557	N31	7220	M18
L 2581	J13	3558	O32	7400	H 6
2582	K15	3559	O31	7401	L 8
2600	A17	3560	N31	7402	N 7
2601	A18	3561	O32	7402	M11
2602	A19	3562	N32	7404	K12
2605	B28	3563	L30	7405	N11
2607	B19	3568	O29	7470	G11
2608	N14	3570	J29	7471	G14
2609	E21	3571	J27	7472	G12
2610	F22	3572	I26	7473	H 9
M 2615	F23	3580	K21	7474	H12
2617	F20	3581	K21	7480	F11
2620	E22	3582	H20	7500	K26
2624	F24	3583	K13	7501	J28
2625	A23	3600	B15	7550	N28
2626	B23	3601	B17	7551	M00
2628	J34	3602	B18	7552	N30
2629	J33	3603	C18	7600	B27
2641	D30	3608	N14	9301	O11
N 2642	D30	3616	F23	9401	L15
2643	C30	3617	F23		
2661	A24	3619	F20		
2662	A27	3621	G20		
2663	B28	3622	F22		
3003	A33	3623	F23		
3004	C33	3625	F20		
3005	E33	3628	F21		
3006	A33	3630	F21		
3007	C33	3631	C17		
3008	E33	3632	F21		
O 3009	B33	3633	F20		
3010	D33	3634	I32		
3011	F33	3635	B24		
3012	E35	3636	B23		
3013	A31	3637	I33		
3015	B33	3638	B33		
3016	D33	3639	A23		

NC3-CR

PRS 04064
T08 819

DIAGRAM-SCHALTBIKD-SCHEMA B

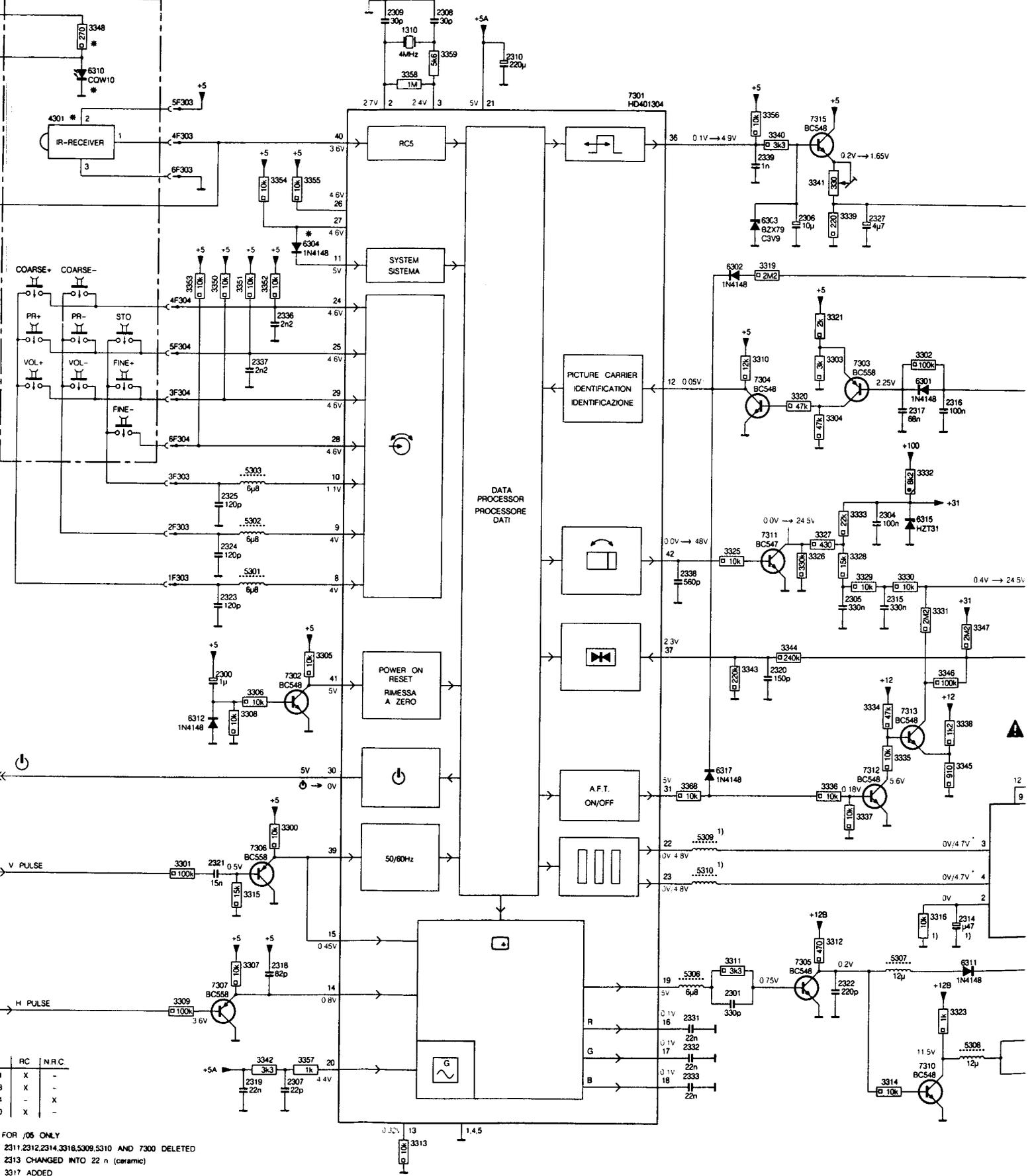


*	RC	NRC
4301	X	-
3348	X	-
6304	-	X
6310	X	-

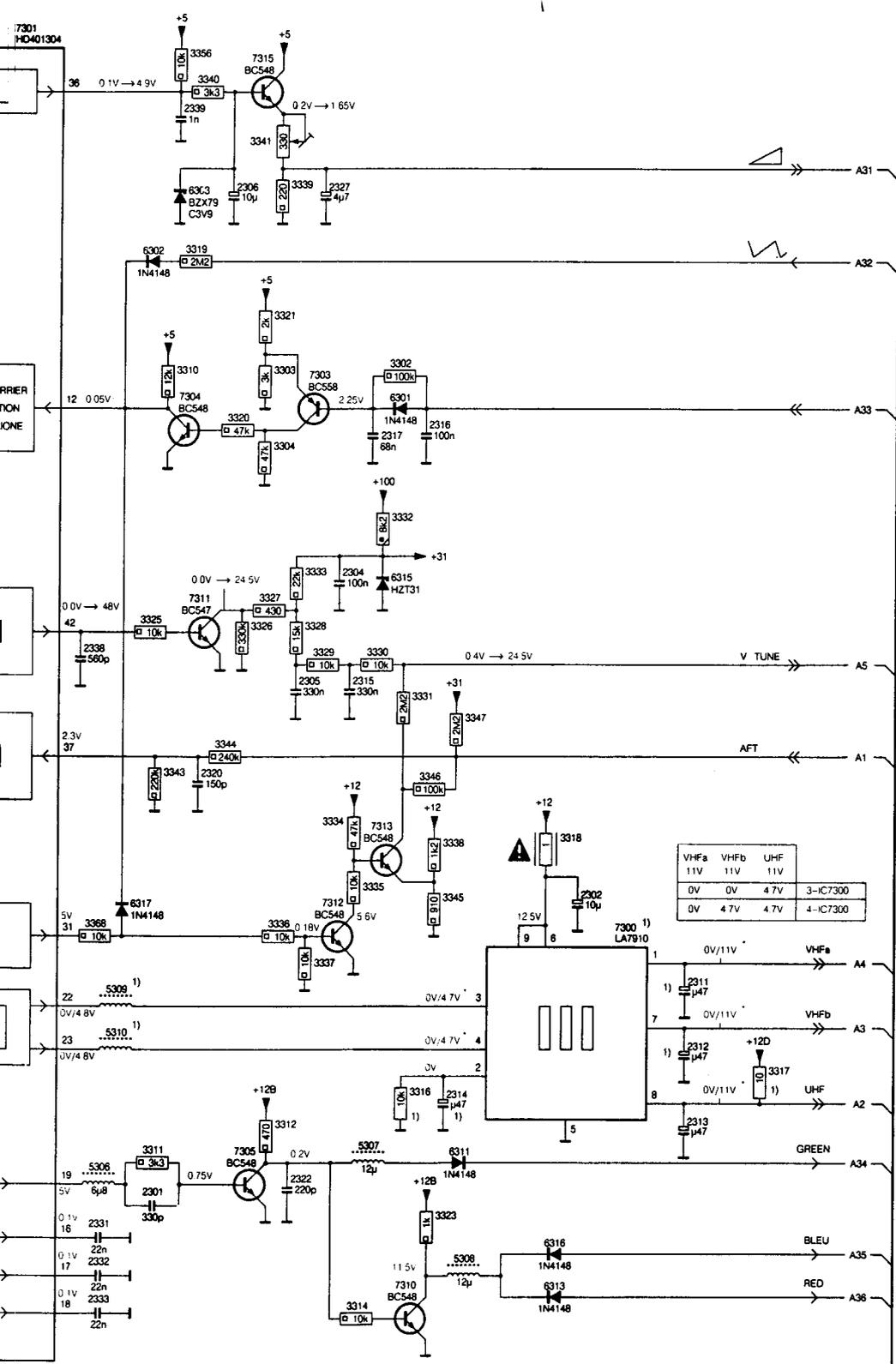
1) FOR /05 ONLY
 2311, 2312, 2314, 3316, 5308, 5310 AND 7300 DELETED
 2313 CHANGED INTO 22 n (ceramic)
 3317 ADDED

AM-SCHALTBILD-SCHEMA B

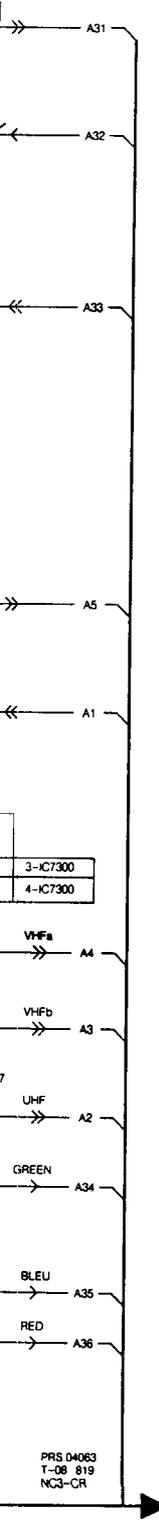
1061 CONTROL PANEL



FOR /05 ONLY
 2311,2312,2314,3316,5309,5310 AND 7300 DELETED
 2313 CHANGED INTO 22 n (ceramic)
 3317 ADDED



- 1061 A 2
- 1310 B 6
- 2300 I 4
- 2301 M10
- 2302 J14
- 2304 H12
- A 2305 I12
- 2306 D11
- 2307 N 5
- 2308 B 7
- 2309 B 6
- 2310 B 8
- 2311 K15
- 2312 L15
- 2313 M15
- 2314 L13
- 2315 I12
- B 2316 F13
- 2317 F12
- 2318 M 5
- 2319 N 4
- 2320 I11
- 2321 L 4
- 2322 M12
- 2323 I 4
- C 2324 H 4
- 2325 G 4
- 2327 D12
- 2331 N10
- 2332 N10
- 2333 N10
- 2336 E 5
- 2337 F 4
- 2338 H10
- 2339 C11
- D 3300 K 5
- 3301 L 4
- 3302 F12
- 3303 F11
- 3304 F11
- 3305 I 5
- 3306 J 4
- 3307 M 4
- 3308 J 4
- E 3309 M 4
- 3310 F10
- 3311 M10
- 3312 M11
- 3313 O 6
- 3314 N12
- 3315 L 4
- 3316 L13
- 3317 L18
- 3318 J14
- 3319 E11
- 3320 F11
- 3321 E11
- 3323 M13
- 3325 H10
- 3326 H11
- 3327 H11
- 3328 H12
- 3329 H12
- 3330 H12
- 3331 I13
- 3332 G12
- 3333 H12
- 3334 J12
- 3335 J12
- 3336 K11
- 3337 K12
- 3338 J13
- 3339 D12
- H 3340 C11
- 3341 D11
- 3342 N 5
- 3343 I10
- 3344 I11
- 3345 K13
- 3346 I13
- 3347 I13
- 3348 B 3
- 3350 E 4
- I 3351 E 4
- 3352 E 4
- 3353 E 4
- 3354 D 5
- 3355 D 5
- 3356 C11
- 3357 N 5
- 3358 B 6
- 3359 B 7
- J 3368 K10
- 4301 C 2
- 5301 H 4
- 5302 H 4
- 5303 G 4
- 5306 M10
- 5307 M12
- 5308 N13
- 5309 K10
- 5310 L10
- K 6301 F12
- 6302 E10
- 6303 D11
- 6304 D 5
- 6310 B 3
- 6311 M13
- 6312 J 4
- 6313 N14
- 6315 H12
- 6316 N14
- L 6317 K10
- 7300 K15
- 7301 C 9
- 7302 I 5
- 7303 F12
- 7304 F10
- 7305 M11
- 7306 L 4
- M 7307 M 4
- 7310 N13
- 7311 H11
- 7312 K12
- 7313 J12
- 7315 C11

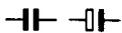


- 1061 A 2
- 1310 B 6
- 2300 I 4
- 2301 MI0
- 2302 J14
- 2304 HI2
- A 2305 I 12
- 2306 DI1
- 2307 N 5
- 2308 B 7
- 2309 B 6
- 2310 B 8
- 2311 K15
- 2312 L15
- 2313 MI5
- B 2314 L13
- 2315 I12
- 2316 F13
- 2317 F12
- 2318 M 5
- 2319 N 4
- 2320 I11
- 2321 L 4
- 2322 MI2
- C 2323 I 4
- 2324 H 4
- 2325 G 4
- 2327 DI2
- 2331 NI0
- 2332 NI0
- 2333 NI0
- 2336 E 5
- 2337 F 4
- 2338 HI0
- D 2339 C11
- 3300 K 5
- 3301 L 4
- 3302 F12
- 3303 F11
- 3304 F11
- 3305 I 5
- 3306 J 4
- 3307 M 4
- 3308 J 4
- E 3309 M 4
- 3310 F10
- 3311 MI0
- 3312 MI1
- 3313 O 6
- 3314 N12
- 3315 L 4
- 3316 L13
- 3317 L16
- F 3318 J14
- 3319 E11
- 3320 F11
- 3321 E11
- 3323 MI3
- 3325 HI0
- 3326 HI1
- 3327 HI1
- 3328 HI2
- 3329 HI2
- 3330 HI2
- G 3331 I13
- 3332 GI2
- 3333 HI2
- 3334 J12
- 3335 J12
- 3336 K11
- 3337 K12
- 3338 J13
- H 3339 DI2
- 3340 C11
- 3341 DI1
- 3342 N 5
- 3343 I10
- 3344 I11
- 3345 K13
- 3346 I13
- 3347 I13
- 3348 B 3
- I 3350 E 4
- 3351 E 4
- 3352 E 4
- 3353 E 4
- 3354 D 5
- 3355 D 5
- 3356 C11
- 3357 N 5
- 3358 B 6
- J 3359 B 7
- 3368 K10
- 4301 C 2
- 5301 H 4
- 5302 H 4
- 5303 G 4
- 5306 MI0
- 5307 MI2
- 5308 NI3
- 5309 K10
- K 5310 L10
- 6301 F12
- 6302 E10
- 6303 DI1
- 6304 D 5
- 6310 B 3
- 6311 MI3
- 6312 J 4
- 6313 N14
- 6315 HI2
- L 6316 N14
- 6317 K10
- 7300 K15
- 7301 C 9
- 7302 I 5
- 7303 F12
- 7304 F10
- 7305 MI1
- 7306 L 4
- M 7307 M 4
- 7310 NI3
- 7311 HI1
- 7312 K12
- 7313 J12
- 7315 C11
- N
- O

PARTSLIST

VARIOUS

1200	4822 242 72241	filter OFWJ1953
1200	4822 209 73407	filter OFWG1962
1220	4822 242 72187	cer.filter SFE 6.0MHz
1220	4822 242 72239	cer.filter 5.5MHz
1310	4822 242 70831	cer.filter CSA4.00MHz
1400	4822 253 30025	fuse T2A
1600	4822 153 30025	filter TPS6.0MHz
1600	4822 242 70713	cer.filter 5.5MHz
1601	4822 242 70304	crystal 8.860 MHz
4100	4822 212 22293	U411/IEC
4100	4822 212 22294	UV417/IEC
4301	4822 212 22986	RC5-RECIEVER



2112	4822 124 22056	47µF 20% 16V
2113	4822 124 22056	47µF 20% 16V
2201	4822 124 40749	3.3µF 20% 63V
2203	4822 124 22056	47µF 20% 16V
2204	5322 124 40718	470µF 20% 25V
2205	4822 122 40454	120pF 10% 50V
2218	4822 122 32834	150µF 50V
2219	4822 121 50994	100nF 100V 20%
2221	4822 124 40197	330µF 20% 16V
2222	4822 124 40201	1000µF 20% 16V
2223	4822 124 40242	1µF 20% 63V
2224	4822 124 40242	1µF 20% 63V
2228	5322 121 54072	820pF 1% 250V
2228	4822 122 10257	1nF 50V
2231	5322 121 50935	2700pF 5% 160V
2232	4822 121 41947	68nF 10% 100V
2233	4822 124 40435	10µF 20% 50V
2236	4822 121 50994	100nF 20% 100V
2300	4822 124 40242	1µF 20% 63V
2304	4822 121 50994	100nF 20% 100V
2305	4822 121 50992	330nF 63V 20%
2308	4822 122 33521	30 pF 50V 3%
2309	4822 122 33521	30 pF 50V 3%
2310	4822 124 22088	220µF 10V
2311	4822 124 40239	0.47µF 63V
2312	4822 124 40239	0.47µF 63V
2313	4822 124 40239	0.47µF 63V
2314	4822 124 40239	0.47µF 63V
2315	4822 121 50992	330nF 63V 20%
2316	4822 121 50994	100nF 20% 100V
2317	4822 121 41947	68nF 10% 100V
2320	4822 122 40485	150pF 5% 50V
2323	4822 122 40454	120pF 10% 50V
2324	4822 122 40454	120pF 10% 50V
2325	4822 122 40454	120pF 10% 50V
2327	4822 124 22359	4.7µF 20% 100V
2335	4822 122 10257	1nF 50V
2400	4822 121 51353	1µF 250V
2401	4822 124 41621	10µF 50V
2402	4822 122 40348	2n2 10% 1kV
2403	4822 122 40348	2n2 10% 1kV
2404	4822 122 40348	2n2 10% 1kV
2405	4822 122 40348	2n2 10% 1kV
2406	4822 121 51293	10nF 10% 100V
2407	4822 121 51035	27nF 1% 63V
2408	4822 124 41621	10µF 20% 50V

2412	4822 121 50966	2.2nF 20% 1kV
2413	4822 124 21722	100µF 50% 400V
2415	4822 121 51351	1.5nF 630V
2416	4822 124 22032	3.3µF 50V
2421	4822 124 41281	47 µF 200V
2423	4822 124 40201	1000µF 20% 16V
2424	4822 122 33535	4.7nF 400V
2425	4822 122 33535	4.7nF 20% 400V
2427	4822 124 40207	100µF 20% 25V
2428	4822 124 40177	47µF 20% 10V
2429	5322 124 40697	470µF 20% 16V
2471	4822 124 22359	4.7µF 20% 100V
2482	4822 124 40207	100µF 20% 25V
2483	4822 124 41619	2200µF 25V
2504	4822 121 42047	180nF 10% 250V
2506	4822 121 43105	6.8nF 5% 2kV
2507	4822 122 10376	680pF 2kV
2508	4822 124 41281	47 µF 200V
2509	4822 121 42634	560nF 5% 250V
2521	4822 124 10533	22µF 20% 250V
2550	4822 122 33534	1.2nF 50V
2551	4822 124 40435	10µF 20% 50V
2552	4822 124 40761	220µF 100 V
2582	4822 124 40242	1µF 20% 63V
2605	4822 121 41681	470nF 10% 40V
2608	4822 124 40201	1000µF 20% 16V
2609	4822 124 41454	4.7µF 50V
2620	4822 124 40244	2.2µF 20% 63V
2625	4822 121 50994	100nF 20% 100V
2626	4822 124 40242	1µF 20% 63V
2628	4822 124 40741	22µF 20% 40V



3111	4822 116 52354	27R 5% 0.33W
3112	4822 116 52442	7k5 5% 0.33W
3113	4822 116 52463	22k 5% 0.5W
3200	4822 116 52426	4k7 5% 0.5W
3201	4822 116 52426	4k7 5% 0.5W
3202	4822 116 52434	8k2 5% 0.5W
3203	4822 116 53349	18k 5% 2W
3204	4822 116 52389	100R 5% 0.5W
3206	4822 116 52455	110k 5% 0.33W
3207	4822 116 52366	4R7 5% 0.33W
3208	4822 116 52366	4R7 5% 0.5W
3209	4822 116 52375	68R 5% 0.5W
3210	4822 116 52412	270R 5% 0.5W
3211	4822 116 52395	1k2 5% 0.5W
3212	4822 116 52354	27R 5% 0.5W
3213	4822 116 52405	200R 5% 0.33W
3214	4822 116 52407	220R 5% 0.5W
3215	4822 116 52416	330R 5% 0.5W
3216	4822 116 52416	330R 5% 0.5W
3217	4822 116 52441	6k8 5% 0.5W
3218	4822 116 52413	2k7 5% 0.5W
3219	4822 116 52442	7k5 5% 0.5W
3220	4822 116 52452	10k 5% 0.5W
3221	4822 116 52467	33k 5% 0.5W
3222	4822 111 30506	8R2 5% 0.33W
3223	4822 116 52518	330k 5% 0.33W
3224	4822 116 52478	82k 5% 0.33W
3225	4822 100 10079	47k CARB LIN 0.1W
3226	4822 116 52474	56k 5% 0.5W
3227	4822 116 52413	2k7 5% 0.5W

			
3229	4822 116 52413	2k7 5% 0.5W	
3230	4822 116 52404	1k8 5% 0.5W	
3233	4822 116 80847	30k 5% 0.5W	
3234	4822 100 10036	4k7 CARB LIN 0.1W	
3235	4822 116 52395	1k2 5% 0.5W	
3237	4822 100 11392	47k LINEAR	
3239	4822 116 52478	82k 5% 0.5W	
3300	4822 116 52452	10k 5% 0.5W	
3301	4822 116 52453	100k 5% 0.5W	
3302	4822 116 52453	100k 5% 0.5W	
3303	4822 116 52415	3k 5% 0.5W	
3304	4822 116 52472	47k 5% 0.5W	
3305	4822 116 52452	10k 5% 0.5W	
3306	4822 116 52452	10k 5% 0.5W	
3307	4822 116 52452	10k 5% 0.5W	
3308	4822 116 52452	10k 5% 0.5W	
3309	4822 116 52453	100k 5% 0.5W	
3310	4822 116 52456	12k 5% 0.5W	
3311	4822 116 52417	3k3 5% 0.5W	
3313	4822 116 52452	10k 5% 0.5W	
3314	4822 116 52452	10k 5% 0.5W	
3315	4822 116 52458	15k 5% 0.5W	
3316	4822 116 52452	10k 5% 0.5W	
3317	4822 116 52332	10R 5% 0.5W	
3318	4822 111 30483	1R 5% 0.33W	
3318	4822 111 30517	22R 5% 0.33W	
3319	4822 116 52511	2M2 5% 0.5W	
3320	4822 116 52472	47k 5% 0.5W	
3321	4822 116 52453	910R 5% 0.33W	
3322	4822 116 52391	1k 5% 0.5W	
3323	4822 116 52391	1k 5% 0.5W	
3324	4822 116 52391	1k 5% 0.5W	
3325	4822 116 52452	10k 5% 0.5W	
3326	4822 116 52518	330k 2% 0.4W	
3327	4822 116 52423	430R 2% 0.4W	
3328	4822 116 52458	15k 5% 0.5W	
3329	4822 116 52452	10k 5% 0.5W	
3330	4822 116 52452	10k 5% 0.5W	
3331	4822 116 52511	2M2 5% 0.5W	
3332	4822 116 80851	8k2 2% 2W	
3333	4822 116 52463	22k 5% 0.5W	
3334	4822 116 52472	47k 5% 0.5W	
3336	4822 116 52452	10k 5% 0.5W	
3337	4822 116 52452	10k 5% 0.5W	
3338	4822 116 52391	1k 5% 0.5W	
3339	4822 116 52407	220R 5% 0.5W	
3340	4822 116 52417	3k3 5% 0.5W	
3341	4822 100 11391	330k LINEAR	
3342	4822 116 52417	3k3 5% 0.5W	
3343	4822 116 52509	220k 5% 0.5W	
3344	4822 116 52509	220k 5% 0.5W	
3345	4822 116 52433	820R 5% 0.5W	
3346	4822 116 52453	100k 5% 0.5W	
3347	4822 116 52511	2M2 5% 0.5W	
3348	4822 116 52412	270R 5% 0.5W	
3350	4822 116 52452	10k 5% 0.5W	
3351	4822 116 52452	10k 5% 0.5W	
3352	4822 116 52452	10k 5% 0.5W	
3353	4822 116 52452	10k 5% 0.5W	
3354	4822 116 52452	10k 5% 0.5W	
3355	4822 116 52452	10k 5% 0.5W	
3356	4822 116 52452	10k 5% 0.5W	
3357	4822 116 52391	1k 5% 0.5W	
3358	4822 116 52493	1M 5% 0.5W	
3359	4822 116 52438	5k6 5% 0.5W	
3368	4822 116 52452	10k 5% 0.5W	
3400	4822 116 40142	p.t.c. 30R	
3401	4822 113 80436	4R7 5W	
3402	4822 116 80852	120R 3W	
3403	4822 116 53025	2k2 1% 0.6W	
3404	4822 116 53025	2k2 1% 0.6W	
3405	4822 116 52372	56R 5% 0.33W	
3406	4822 116 52398	150R 5% 0.5W	
3407	4822 116 52532	560k 5% 0.5W	
3408	4822 116 80849	68R 3W	
3409	4822 116 52452	10k 5% 0.5W	
3410	4822 110 72205	4M7 5% 0.25W	
3411	4822 116 52412	270R 5% 0.5W	
3416	4822 111 30506	8R2 5% 0.33W	
3417	4822 111 30492	2R2 5% 0.33W	
3418	4822 111 30483	1R 5% 0.33W	
3419	4822 116 52353	2R7 5% 0.33W	
3421	4822 116 52349	22R 5% 0.5W	
3422	4822 116 52405	200R 5% 0.5W	
3425	4822 111 30483	1R 5% 0.33W	
3430	4822 116 53547	150k 1% 0.6W	
3431	4822 116 52426	4k7 5% 0.5W	
3432	4822 116 52452	10k 5% 0.5W	
3433	4822 100 11212	potm. 2k2	
3434	4822 116 52404	1k8 5% 0.5W	
3435	4822 116 60048	8M2 10% 1.5W	
3437	4822 116 52431	680R 5% 0.5W	
3470	4822 116 52463	22k 5% 0.5W	
3471	4822 116 52452	10k 5% 0.5W	
3472	4822 116 52463	22k 5% 0.5W	
3474	4822 116 52452	10k 5% 0.5W	
3475	4822 116 52472	47k 5% 0.5W	
3477	4822 116 52452	10k 5% 0.5W	
3478	4822 116 52452	10k 5% 0.5W	
3479	4822 116 52476	68k 5% 0.33W	
3480	4822 116 52463	22k 5% 0.5W	
3481	4822 116 52458	15k 5% 0.5W	
3482	4822 116 52391	1k 5% 0.5W	
3483	4822 116 52425	470R 5% 0.5W	
3484	4822 116 52452	10k 5% 0.5W	
3485	4822 116 52426	4k7 5% 0.5W	
3500	4822 116 52414	300R 5% 0.33W	
3501	4822 116 52413	2k7 5% 0.5W	
3502	4822 116 52438	5k6 5% 0.5W	
3503	4822 116 53354	5k6 5% 3W	
3504	4822 116 52367	47R 5% 0.5W	
3505	4822 113 80445	10R 7W	
3520	4822 111 30483	1R 5% 0.33W	
3534	4822 116 52456	12k 5% 0.5W	
3550	4822 116 52426	4k7 5% 0.5W	
3551	4822 116 52391	1k 5% 0.5W	
3552	4822 116 52389	100R 5% 0.5W	
3553	4822 116 53355	24k 5% 2W	
3554	4822 116 52421	390R 5% 0.5W	
3555	4822 116 52191	33R 5% 0.5W	
3556	4822 116 52464	24k 5% 0.5W	
3557	4822 116 52463	22k 5% 0.5W	
3558	4822 100 10075	100R CARB LIN 0.1W	



3559	4822 116 52463	22k 5% 0.5W
3560	4822 116 52421	390R 5% 0.5W
3561	4822 116 52362	3R9 5% 0.33W
3562	4822 116 52438	5k6 5% 0.5W
3563	4822 111 30528	56R 5% 0.33W
3569	4822 116 52422	3k9 5% 0.5W
3570	4822 111 30663	680k 5% 0.25W
3571	4822 116 52452	10k 5% 0.5W
3572	4822 116 52389	100R 5% 0.5W
3580	4822 116 52512	240k 5% 0.4W
3581	4822 116 52524	3M9 5% 0.33W
3582	4822 111 30483	1R 5% 0.33W
3583	4822 116 52398	150R 5% 0.5W
3600	4822 116 52405	200R 5% 0.5W
3601	4822 116 52391	1k 5% 0.5W
3602	4822 116 52428	560R 5% 0.33W
3603	4822 116 52425	470R 5% 0.5W
3608	4822 111 30511	12R 5% 0.33W
3616	4822 116 52452	10k 5% 0.5W
3617	4822 116 52452	10k 5% 0.5W
3619	4822 116 52425	470R 5% 0.5W
3621	4822 116 52425	470R 5% 0.5W
3622	4822 116 90433	3X10k 20% RESN 0.05W
3628	4822 116 52437	5k1 5% 0.5W
3630	4822 116 52395	1k2 5% 0.5W
3631	4822 116 52426	4k7 5% 0.5W
3632	4822 116 52391	1k 5% 0.5W
3633	4822 116 52391	1k 5% 0.5W
3634	4822 116 52456	12k 5% 0.33W
3635	4822 100 20166	potm.10k lin.
3636	4822 116 52527	470k 5% 0.33W
3637	4822 116 52463	22k 5% 0.5W
3638	4822 116 52441	6k8 5% 0.5W
3639	4822 116 52391	1k 5% 0.5W
3640	4822 116 52456	12k 5% 0.5W
3641	4822 116 52417	3k3 5% 0.5W
3642	4822 116 52417	3k3 5% 0.5W
3643	4822 116 52417	3k3 5% 0.5W
3644	4822 116 52425	470R 5% 0.5W
3645	4822 116 52425	470R 5% 0.5W
3646	4822 116 52425	470R 5% 0.5W
3647	4822 116 52527	470k 5% 0.5W
3661	4822 116 52395	1k2 5% 0.5W
3662	4822 100 11348	potm.1k lin.
3663	4822 116 52421	390R 5% 0.5W
3664	4822 116 52425	470R 5% 0.5W



5210	4822 157 53152	0.68μH
5211	4822 157 52491	0.82μH
5218	4822 157 52497	22μH
5219	4822 157 52494	6.8μH
5220	4822 157 52494	6.8μH
5221	4822 156 10923	sound detection
5222	4822 157 53151	0.17μH
5232	4822 157 52492	15μH
5234	4822 157 52489	0.33μH
5301	4822 157 52494	6.8μH
5302	4822 157 52494	6.8μH
5303	4822 157 52494	6.8μH
5305	4822 157 53587	27μH
5306	4822 157 52494	6.8μH
5307	4822 157 52495	12μH

5308	4822 157 52495	12μH
5400	4822 150 41005	line filter 26mH
5401	4822 152 20596	4.7μH
5402	4822 146 30717	SOPS-TRAFO
5403	4822 242 71344	2mH
5404	4822 157 53588	
5405	4822 157 53202	
5406	4822 157 53202	
5407	4822 157 53598	2.2μH
5408	4822 157 53598	2.2μH
5409	4822 157 53598	2.2μH
5411	4822 242 71344	2μH
5412	4822 242 71344	2μH
5413	4822 157 53598	2.2μH
5414	4822 157 53598	2.2μH
5430	4822 156 10852	12μH
5480	4822 157 53595	3.3μH
5481	4822 157 53587	27μH
5482	4822 157 53587	27μH
5500	4822 157 52491	0.82μH
5501	4822 157 52498	470μH
5502	4822 146 21116	trans.driver
5503	4822 157 52661	BF45T-3.5X4.5X0.8k
5504	4822 158 10096	2.0μH
5505	4822 157 52661	BF45T-3.5X4.5X0.8k
5520	4822 140 10328	transformer
5600	4822 157 52496	15μH
5601	4822 157 52495	12μH
5602	4822 320 40179	line delay
5603	4822 320 40096	DL 701
5641	4822 157 52494	6.8μH
5642	4822 157 52494	6.8μH
5643	4822 157 52494	6.8μH
5661	4822 157 53153	11μH
5662	4822 156 31022	11μH



6200	4822 130 30613	BAW62
6218	4822 130 33939	1N4148-75
6221	4822 130 80227	BZX79-C9V1
6222	4822 130 30613	BAW62
6223	4822 130 30613	BAW62
6301	4822 130 33939	1N4148-75
6302	4822 130 33939	1N4148-75
6303	4822 130 31981	BZX79-C3V9
6304	4822 130 33939	1N4148-75
6310	4822 130 80944	LTL307PN
6311	4822 130 33939	1N4148-75
6312	4822 130 33939	1N4148-75
6313	4822 130 33939	1N4148-75
6315	4822 209 83931	HZT31
6316	4822 130 33939	1N4148-75
6317	4822 130 33939	1N4148-75
6400	4822 130 80216	1N5062
6401	4822 130 80216	1N5062
6402	4822 130 80216	1N5062
6403	4822 130 80216	1N5062
6404	4822 130 33939	1N4148-75
6405	4822 130 80233	BZX79-C12
6406	4822 130 33939	1N4148-75
6407	4822 130 33939	1N4148-75
6408	4822 130 33939	1N4148-75

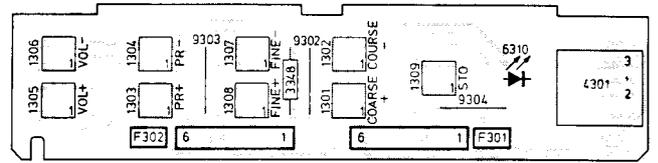


6410	4822 130 80216	1N5062
6411	4822 130 33939	1N4148-75
6412	4822 130 33939	1N4148-75
6413	4822 130 31253	BZX79-C2V4
6414	4822 130 31253	BZX79-C2V4
6416	4822 130 42606	BYD33J
6417	4822 130 42489	BYD33G
6418	4822 130 42488	BYD33D
6419	4822 130 33939	1N4148-75
6420	4822 130 33939	1N4148-75
6421	4822 130 34278	BZX79-C6V8
6422	4822 130 34167	BZX79-F6V2
6425	4822 130 33939	1N4148-75
6475	4822 130 42489	BYD33G
6476	4822 130 33939	1N4148-75
6481	4822 130 20202	BT149D
6500	5322 130 34979	BYV96E
6520	4822 130 41487	BYV95C
6550	4822 130 34189	BAV20
6551	4822 130 34189	BAV20
6552	4822 130 42489	BYD33G
6580	5322 130 24081	BT151-500R
6581	4822 130 80223	BZX79-C8V2
6582	4822 130 80303	BZX79-C6V2
6583	4822 130 33939	1N4148-75
6600	4822 130 33939	1N4148-75



7200	4822 130 41436	ON769
7201	4822 130 44104	BC328
7202	4822 130 44121	BC338
7209	4822 130 44154	BF199
7220	4822 209 72045	TDA4505/N4
7300	4822 209 10892	LA7910
7301	4822 209 73362	HD401304
7302	4822 130 40938	BC548
7303	4822 130 40941	BC558
7304	4822 130 40938	BC548
7305	4822 130 40938	BC548
7306	4822 130 40941	BC558
7307	4822 130 40941	BC558
7310	4822 130 40938	BC548
7311	4822 130 40959	BC547B
7312	4822 130 40938	BC548
7313	4822 130 40938	BC548
7315	4822 130 40938	BC548
7400	4822 130 40855	BC337
7401	4822 130 42679	BUT11AF
7402	4822 130 90121	CNX62
7404	4822 130 44104	BC328
7405	4822 130 44196	BC548C
7470	4822 130 40938	BC548
7471	4822 130 40938	BC548
7472	4822 130 40938	BC548
7473	4822 130 40938	BC548
7474	4822 130 40941	BC558
7480	5322 209 84841	L78M05CV
7500	4822 130 43525	BF422
7501	4822 130 42679	BUT11AF
7550	4822 130 40938	BC548
7551	4822 130 43526	BD941F
7552	4822 130 43526	BD941F
7600	4822 209 73363	TDA3565/N6

CONTROL PANEL



43 695 A12



4822 267 40802 Connector, male 3p
4822 267 40646 Socket 2 pole



4822 276 12445 Power switch
4822 276 11709 Keyboard switch

Picture tube panel



2013 4822 121 41689 100nF10% 250V
2029 4822 121 41926 33nF 5% 630V



3003	4822 116 53349	18k 5% 2W
3004	4822 116 53349	18k 5% 2W
3005	4822 116 53349	18k 5% 2W
3006	4822 111 30678	1.5k 10% 0.5W
3007	4822 111 30678	1.5k 10% 0.5W
3008	4822 111 30678	1.5k 10% 0.5W
3009	4822 116 52433	820R 5% 0.5W
3010	4822 116 52433	820R 5% 0.5W
3011	4822 116 52433	820R 5% 0.5W
3013	4822 111 30535	100R 5% 0.33W
3015	4822 116 52425	470R 5% 0.5W
3016	4822 116 52425	470R 5% 0.5W
3017	4822 116 52425	470R 5% 0.5W
3018	4822 116 52419	3k6 5% 0.33W
3019	4822 116 52419	3k6 5% 0.5W
3020	4822 116 52419	3k6 5% 0.5W
3021	4822 100 10036	4k7 CARB LIN 0.1W
3022	4822 100 10036	4k7 CARB LIN 0.1W
3023	4822 100 10036	4k7 CARB LIN 0.1W
3025	4822 116 52441	6k8 5% 0.5W
3026	4822 116 52406	2k 5% 0.5W
3027	4822 116 52426	4k7 5% 0.5W
3029	4822 111 30678	1.5k 10% 0.5W
3030	4822 116 52339	1R5 5% 0.5W
3031	4822 116 52434	8k2 5% 0.5W
3032	4822 116 52434	8k2 5% 0.5W
3033	4822 116 52434	8k2 5% 0.5W
3041	4822 100 10036	4k7 CARB LIN 0.1W
3042	4822 100 10036	4k7 CARB LIN 0.1W
3043	4822 100 10036	4k7 CARB LIN 0.1W



7010	4822 130 41782	BF422
7011	4822 130 41782	BF422
7012	4822 130 41782	BF422
7013	4822 130 40941	BC558

LIST OF SYMBOLS

	Changer, general		Band-stop filter		Amplifier, general
	Interference separator		Band-pass filter		Stand-by
	Synchronisation separator		Pulse-width modulator		On/off
	Divider		90° phase shifter		Output stage
	Rectifier		Electronic switch		Controlled amplifier
	Automatic Gain Control		Variable impedance		Differential amplifier
	Flip-flop on half line frequency		Display		Amplifier with limiter
	Square wave generator		Delay element		Positive peak clipper
	Sawtooth generator		Detector		Black level restorer
	Sinewave generator		Phase detector		Coaxial aerial input
	Adjustable sinewave generator		Voltage stabilizer		RC network (integrator)
	Rejection filter		FM detector		Decoding matrix
	Low-pass filter		Phase discriminator		Infra red transmitter
	High-pass filter		Colour killer		Infra red receiver
	Sound mute		Search control		Multi-function switch
	VCR switch		Band selection		Modulator
	Mixer stage		Constant level		Mono I or II sound
	Emitter follower		Variable level		Stereo sound
	Tuning control		Input-control		Spatial stereo
	A.F.C. function		De-emphasis		Schmitt trigger
	A.F.C. control		Shaper		Volume control
	General operating command		AND gate		Balance control
	Search function		OR gate		Bass and treble control