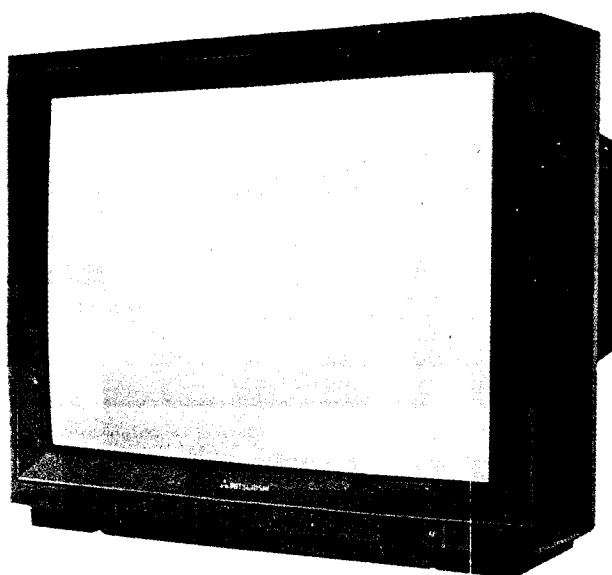


MITSUBISHI

Service Manual

AUG. 1990



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MODEL
CT-2965STX



MITSUBISHI ELECTRIC (U.K.) LTD.

TRAVELLERS LANE HATFIELD, HERTS AL10 8XB
PHONE: (07072) 76100 TELEX: 939070 MEUK G

SPECIFICATIONS

Reception System	CCIR-I		] via Video in only	• TV/VTR Common use Remote Control Hand Unit • Infra-red 40 Programme Direct Access and Multifunction Remote Control System • A Red LED Standby and on Indicator and 3 Green LED's for AV1/AV2/S-Indication. • 90/60/30 minutes Selectable OFF TIMER • On-Screen Indications as follows: - Programme Name - AV1, AV2, Optimum, Colour, Picture, Brightness, Bass, Treble, Balance, wide, Off-Timer (Remaining Time), Volume, Sound Mute, Stereo, Dual mode
Colour System	PAL, SECAM			
	3.58 NTSC			
	4.43 NTSC			
Sound System	NICAM & FM			• Channel Position Number, Programme Name, (Presetable), AFT Status, Rough Tuning Indication • Last Programme, Volume and Power On/Off Memory • AV Input/Output Facility via with Peri-TV Connectors (SCART 1,2), and RGB input Facility (via SCART 1 only). • Y/C, Audio Input for S-VHS VTR. • Spatial Sound Function • Teletext Reception • Automatic switch off after 30 minutes if no signal reception • 110° Deflection Picture Tube with Hi-Bi Potential Focus System, Black Matrix/Anti-reflective External coating and TINT Glass. • PAL, SECAM, 3.58 NTSC and 4.43 NTSC (NTSC via Video in only), Multi Colour System with CTI (Colour Transient Improvement) • Facility for external loudspeakers (8Ω) for 20W+20W Stereo Sound System (25W+25W Music Power)
Channels	UHF 21~69			
Mains Input	AC240V 50Hz			
Power Consumption	128W			• With Tuning Switch OFF • With Tuning Switch ON
Aerial Input	75Ω			
Intermediate Frequency	Video	39.5MHz		
	Sound	33.5MHz, 32.948MHz		
	Colour	35.07MHz		
Intercarrier Frequency	6.0MHz/6.552MHz			
Audio Output	10W+10W (13W+13W Music Power)			
Speaker	4"(10cm)×6"(15cm) Oval type 2 pcs			
Chassis	EURO 8F			
Picture Tube	A68EAU27X01 29" 110° Deflection			
Semiconductors				
Integrated Circuit....	43			
Transistors.....	100			
Diodes	124			
Positive Thermistor	1			
Cabinet Dimensions (Approx.)	25-31/32"(W)	22-1/16"(H)	18-11/16"(D)	
	660mm	560.5mm	475mm	
Weight (Approx.)	37.5 kg (82.8 lbs)			
Special Features	• 40 Programme Selection and Channel Position Number, or Name Display System • Push Button Voltage Synthesizer Tuning System with Automatic Fine Tuning Function			

SAFETY PRECAUTIONS

NOTICE: Observe all cautions and safety related notes located inside the receiver cabinet and on the receiver chassis.

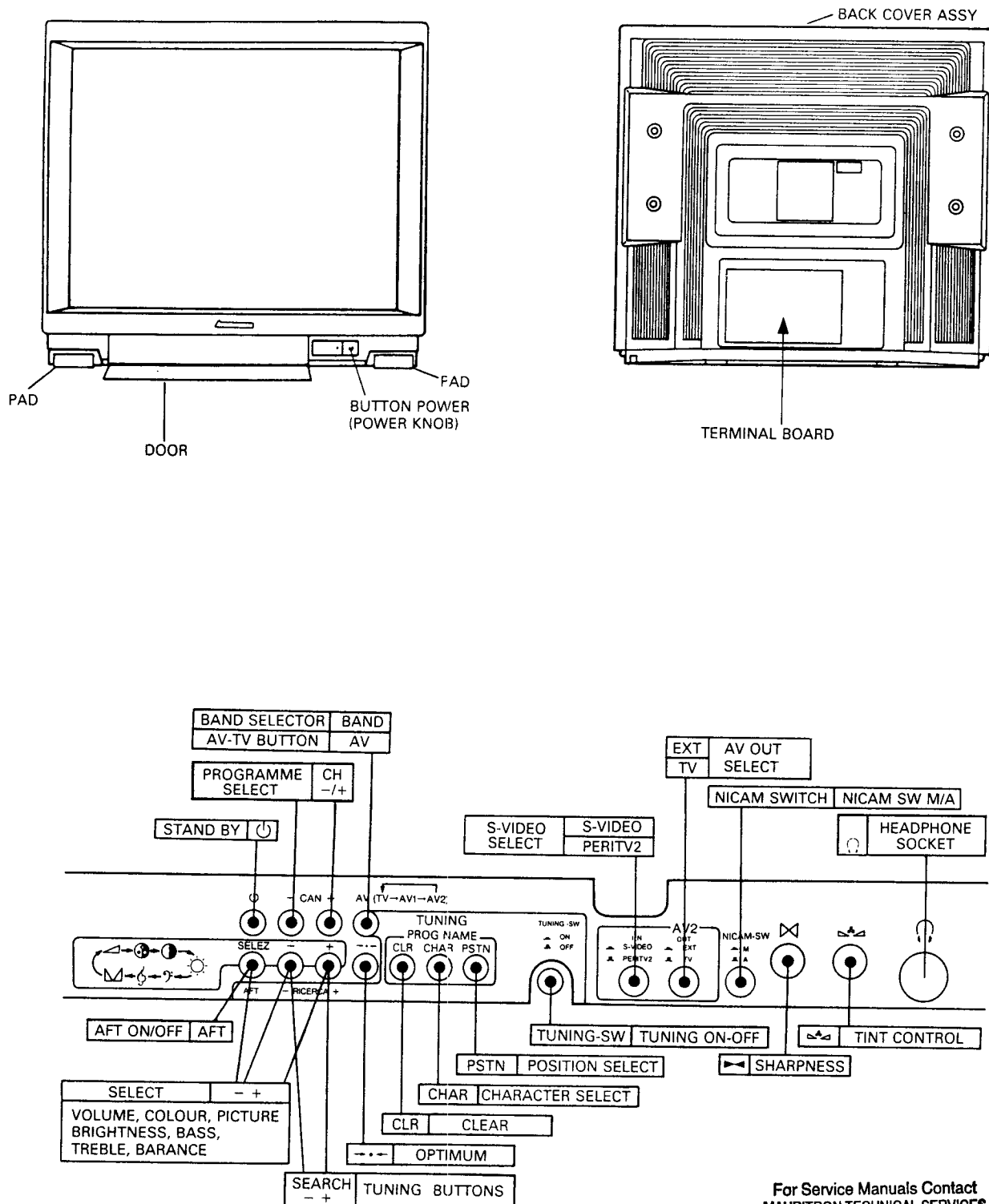
WARNING

1. Operation of these receivers outside the cabinet or with the cover removed, involves a shock hazard from the receiver power supplies. Work on the receiver should not be attempted by anyone who is not thoroughly familiar with precautions necessary when working on high voltage equipment.
2. Do not install, remove or handle the picture tube in any manner unless shatter-proof goggles are worn. People not so equipped should be kept away while the picture tube is being handled. Keep the picture tube away from the body while handling.
3. When service is required, observe the original lead dressing. Extra precaution should be given to ensure correct lead dressing in the high voltage area. Where a short-circuit has occurred, replace those components that indicate evidence of overheating.

LEAKAGE CURRENT COLD CHECK

Before returning the receiver to the customer, it is recommended that the leakage current be measured according to the following methods.

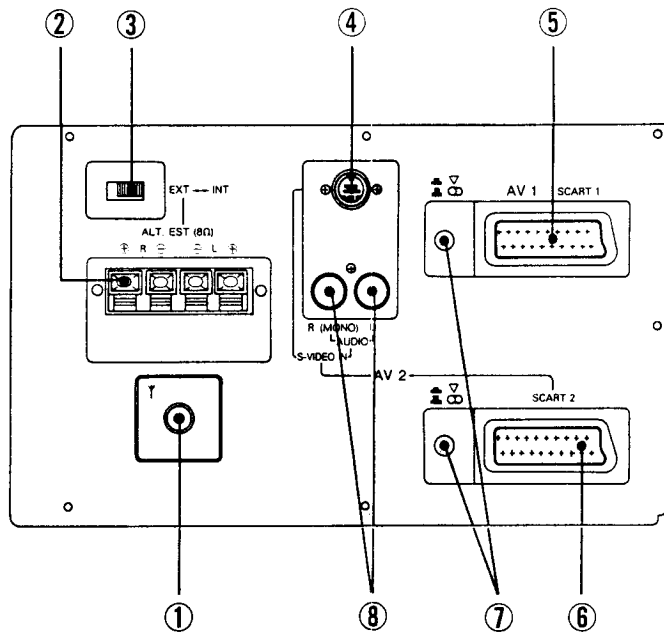
With the AC plug removed from the 240V AC source, place a jumper across the two AC plug prongs. Turn the receiver AC switch on. Using an OHM-METER, connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (antennas, screwheads, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistance reading of 1 megohm. Any resistance below this value indicates an abnormality which requires corrective action.



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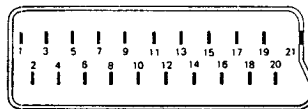
Fig. 1. Control and Cabinet Parts

CONNECTORS



- ① AERIAL SOCKET
- ② EXTERNAL SPEAKER CONNECTIONS
- ③ EXTERNAL/INTERNAL SPEAKER SWITCH
- ④ S-VIDEO INPUT
- ⑤ AV1 SCART SOCKET
- ⑥ AV2 SCART SOCKET
- ⑦ STEREO/MONO SWITCHES
- ⑧ S-VIDEO AUDIO INPUTS

SCART SOCKET CONNECTIONS



MODE PIN	AV1	AV2
1	AUDIO OUT R	
2	AUDIO IN R	
3	AUDIO OUT L	
4	AUDIO EARTH	
5	BLUE EARTH	NOT CONNECTED
6	AUDIO IN L	
7	BLUE IN	NOT CONNECTED
8	FUNCTION SWITCH	
9	GREEN EARTH	NOT CONNECTED
10	NOT CONNECTED	
11	GREEN IN	NOT CONNECTED

MODE PIN	AV1	AV2
12	NOT CONNECTED	
13	RED EARTH	NOT CONNECTED
14	BLANKING EARTH	NOT CONNECTED
15	RED IN	NOT CONNECTED
16	RGB STATUS (BLANKING)	NOT CONNECTED
17	VIDEO OUT EARTH	
18	VIDEO IN EARTH	
19	VIDEO OUT	
20	VIDEO IN	
21	SOCKET EARTH	

Fig. 2. Rear View

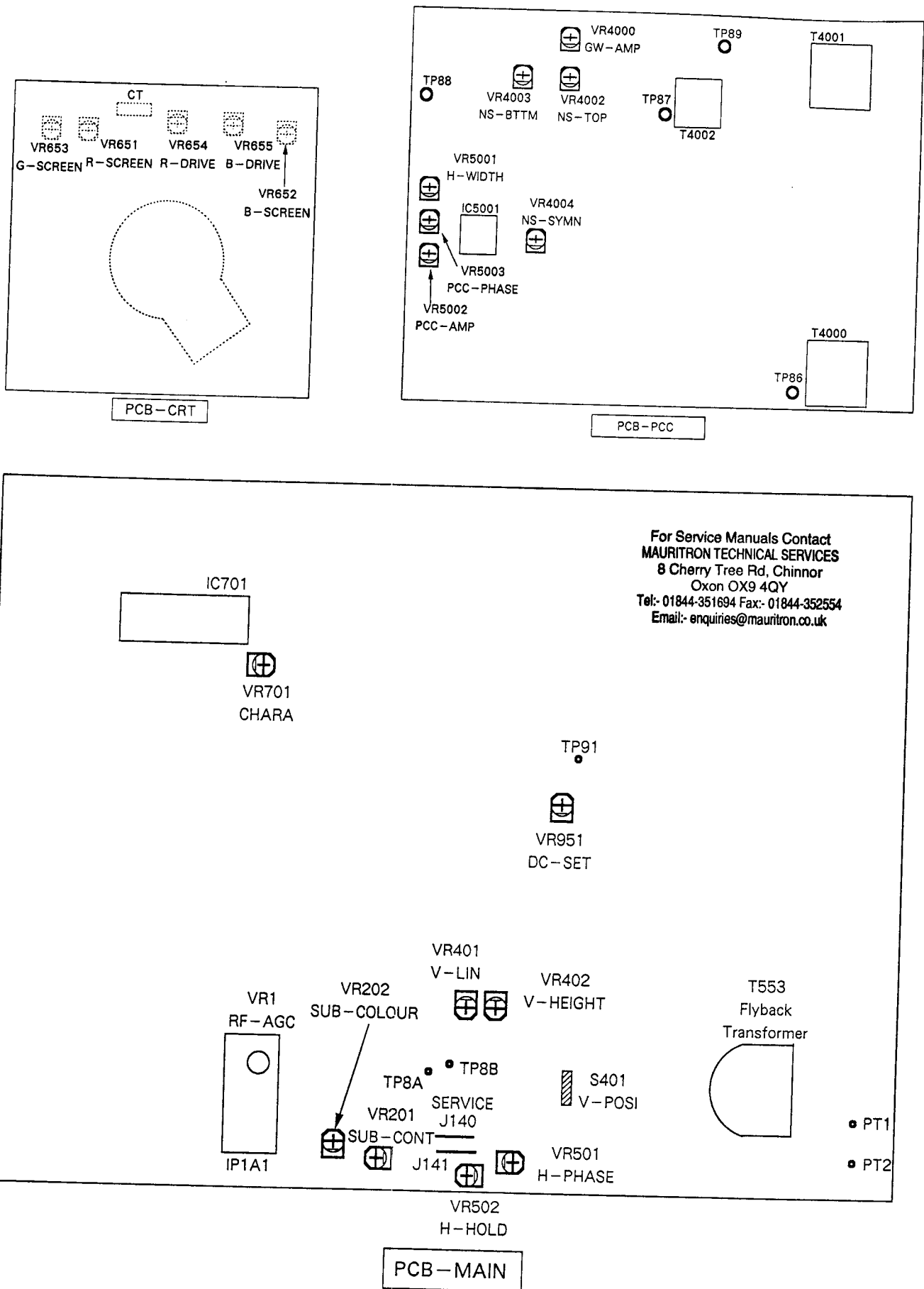
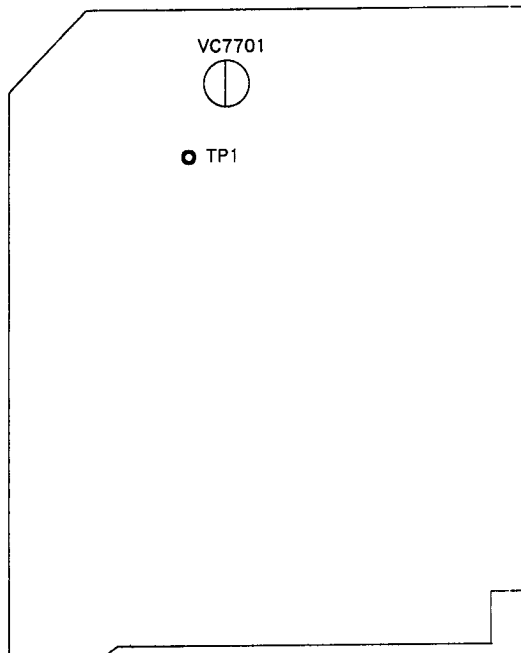
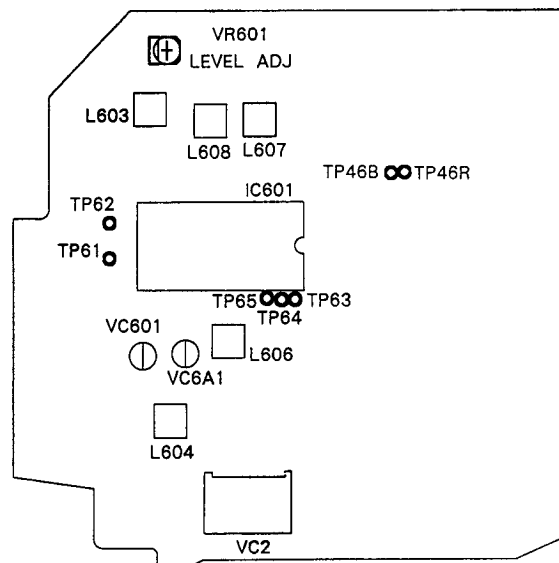


Fig. 3. Location of Controls on PCB

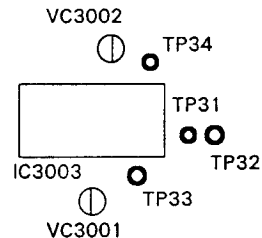


PCB - FASTEXT



PCB - VC/RGB - CTI

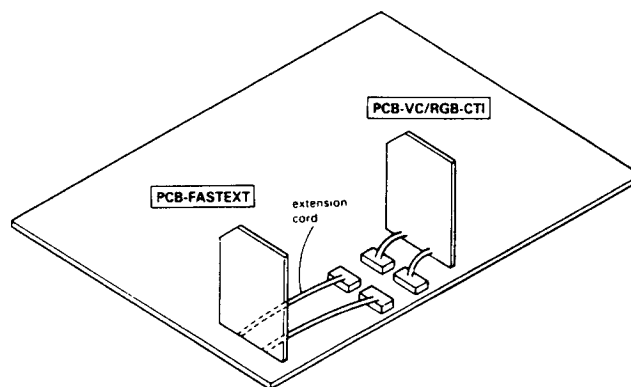
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PCB - NICAM

CHECK OF PCB-FASTEXT AND ADJUSTMENT OF PCB-VC/RGB-CTI

- Check the PCB-FASTEXT by drawing it out with the extension cord. (parts No. 859C343080)
- Adjust the PCB-VC/RGB-CTI by drawing out with the extension cord. (Parts No. 859C343080)



SERVICE ADJUSTMENTS

RF AGC (VR1)

- (1) Turn AFT on.
- (2) Set channel selector to a channel where crossmodulation or overload exists.
- (3) Turn RF AGC control VR1 in VIF-pack slowly counterclockwise until the noise disappears.
- (4) Check all channels available and make sure no noise or cross-modulation is observed.

SUB CONT (VR201)

- (1) Tune receiver into G-card signal.
- (2) Set SHARPNESS control at click-stop position and press "OPTIMUM" button.
Set COLOUR control to minimum position.
- (3) Make sure dark and blue points does not brighten.
- (4) Finely adjust CRT-BIAS (SCREEN) control on flyback transformer so that blue bar does not brighten and red bar is at normal condition.
- (5) Reset G-card signal change to colour bar signal.
- (6) Connect a DC ammeter with 1mA full scale between the testpoint PT1(+) and PT2(-).
- (7) Adjust SUB CONT control VR201 for beam current of $700 \pm 20 \mu A$ on the meter.

HEIGHT AND LINEARITY (VR402, VR401)

Make sure the AC power supply voltage is at the specified value (240V).

- (1) Tune receiver into a programme.
- (2) Adjust HEIGHT control VR402 for approx 90% vertical size of raster.
- (3) Adjust V. LIN control VR401 for symmetry of vertical linearity.
- (4) Set SHARPNESS control at click-stop position and press "OPTIMUM" button.
- (5) Adjust HEIGHT control VR402 for normal vertical size.
- (6) Repeat steps above, if necessary.

HORIZONTAL FREQ CONTROL (VR502)

If there is difficulty in maintaining horizontal sync, adjust VR502.

- (1) Tune receiver into a programme.
- (2) Short circuit the test points TP8A and TP8B.

- (3) Adjust H-HOLD control VR502 for near synchronization.
- (4) Remove the shorting lead from TP8A and TP8B.

HORIZONTAL CENTERING (VR501)

- (1) Tune receiver into a programme.
- (2) Adjust H-HOLD control VR502 as described above.
- (3) Adjust H-PHASE control VR501 to centre the picture.

V-POSITION (S401)

- (1) Tune receiver into a programme.
- (2) Set V-POSITION switch S401 for optimum raster position.

FOCUS

- (1) Tune receiver into a monochrome signal.
- (2) Set SHARPNESS control at click-stop position and press "OPTIMUM" button.
- (3) Adjust FOCUS control for best overall focus.

TEXT FREE RUN FREQUENCY ADJUSTMENT (6MHz)

Run the decoder for over 5 minutes for stabilization.

- (1) Disconnect Antenna Cable from Antenna Terminal to display a snow noise on the screen.
- (2) Connect Frequency Counter to test point TP1 on PCB-FASTEXT.
- (3) Adjust VC7701 for $6000.2 \pm 0.2 \text{ kHz}$.

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DISPLAY POSITION (VR701)

This adjustment shall be conducted after the H-PHASE control VR501 adjustment have been completed.

- (1) Tune receiver to a G-Card signal.
- (2) Press "OPTIMUM" button and adjust DISPLAY POSITION control VR701 so that the optimum display shall be in the middle of the horizontal width of the picture. (Fig. 4).

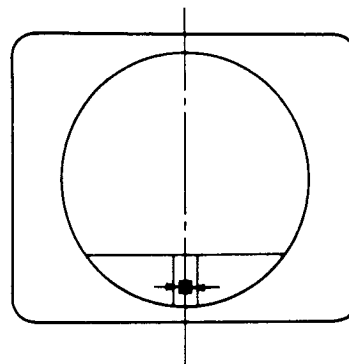


Fig. 4. DISPLAY POSITION

CHROMA CIRCUITS

FREE RUN FREQUENCY (VC6A1)

- (1) Tune receiver into NTSC colour bar signal in the AV mode.
- (2) Connect TP65 and Vcc via the resistor 220 Ω (1/4W).
- (3) Connect TP61 and TP62.
- (4) Adjust free run frequency control VC6A1 for almost colour synchronization.
- (5) Remove the shorting-lead and the resistor.

PAL CIRCUIT

FREE RUN FREQUENCY (VC601)

- (1) Tune receiver into PAL colour bar signal in TV mode.
- (2) Connect TP63 and Vcc via the resistor 220 Ω (1/4W).
- (3) Connect TP61 and TP62.
- (4) Adjust free run frequency control VC601 for almost colour synchronization.
- (5) Remove the shorting-lead and the resistor.

VECTOR (L603, VR601)

- (1) Tune receiver into G-card signal.
- (2) Turn AFT on and confirm the AFT operation.
- (3) Press "OPTIMUM" button.
- (4) Set the oscilloscope to the X-Y mode and connect TP46B to the horizontal axis(X) and TP46R to the vertical axis(Y).
- (5) Adjust TRANS DL OUT control L603 so that outward double dots draw together.
- (6) Adjust LEVEL-ADJ control VR601 so that two points on the Xaxis shall be merged. (refer to Fig. 5)

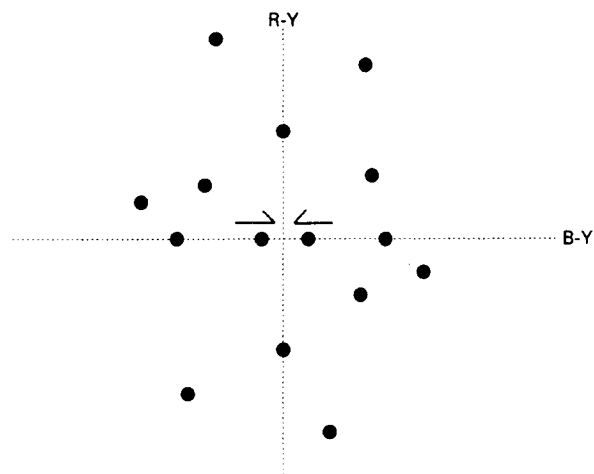


Fig. 5. Vector Pattern of G-card Signal

COLOUR OUTPUT (VR202)

This adjustment shall be conducted after the VECTOR, Grey Scale and SUB-CONT adjustments have been completed.

- (1) Tune receiver to PAL colour bar signal.
- (2) Connect the oscilloscope to pin ③ of the connector **CT**.
- (3) Set SHARPNESS control at click stop position and press "OPTIMUM" button.
- (4) Adjust SUB-COLOUR control VR202 so that the tops of the waveforms shall be flat as shown in Fig. 6.

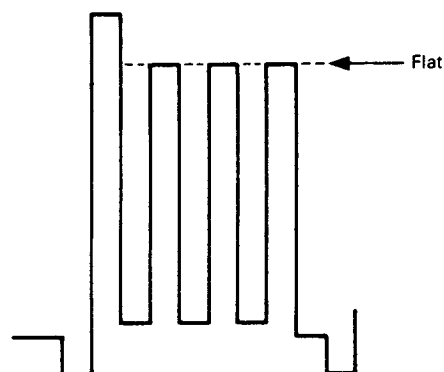


Fig. 6. Wave form of colour output

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SECAM CIRCUIT

When adjust the SECAM circuits, tune receiver into SECAM colour bar signal.

SECAM BELL FILTER (L604)

- (1) Connect TP64 and Vcc via the resistor 220 Ω .
- (2) Connect the oscilloscope to pin ⑮ of IC601.
- (3) Adjust L604 so that the widths of the adjoining colour bar signals of the horizontal sync, signal shall be nearly equal.
- (4) Remove the resistor.

SECAM IDENTIFICATION (L606)

- (1) Connect pin ② of IC601 to Vcc via the resistor 220 Ω .
- (2) Connect the oscilloscope to pin ② of IC601.
- (3) Adjust L606 so that the DC level shall be maximum.
- (4) Remove the resistor.

SECAM DEMODULATOR (L607, L608)

- (1) Set the oscilloscope to the X-Y mode and connect TP46B to the horizontal axis(X) and TR46R to the vertical axis(Y).
- (2) Adjust L607 and L608 so that the middle bright point corresponding to the white of vector and the bright point corresponding to the black shall be merged. (refer to Fig. 8).

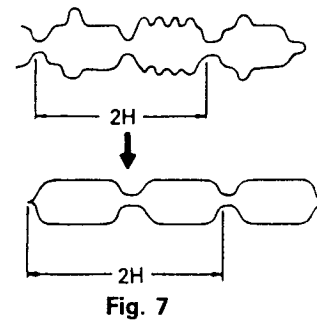
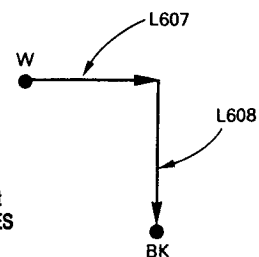
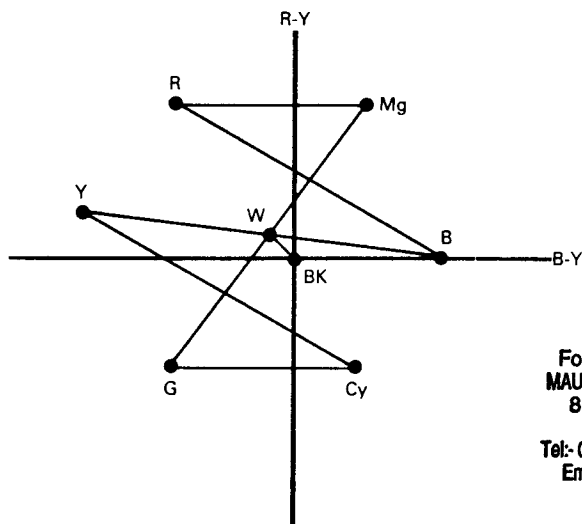


Fig. 7



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Fig. 8. SECAM Demodulator pattern of SECAM colour bar signal.

HORIZONTAL WIDTH AND EAST-WEST PCC (VR5001, VR5002, VR5003)

- (1) Tune receiver into crosshatch signal.
- (2) Set SHARPNESS control at click-stop position and push "OPTIMUM" button.
- (3) Observing the second line (d), (e) from both ends on the screen, adjust PCC PHASE control VR5003 for optimum EAST-WEST PCC phase.
- (4) Observing the second line (d), (e) from both ends on the screen, adjust PCC AMP control VR5002 or optimum EAST-WEST PCC distortion. (refer to Fig. 10).
- (5) Tune receiver into a standard signal.
- (6) Adjust H-WIDTH control VR5001 normal horizontal size.
- (7) Repeat steps above, if necessary.

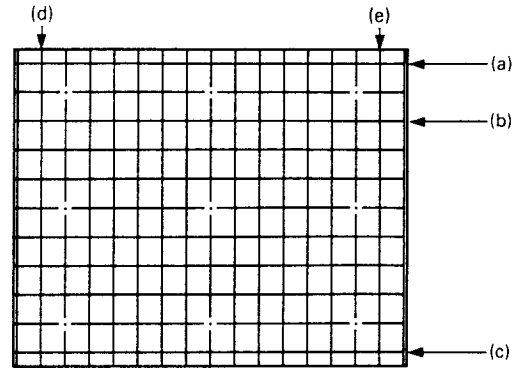


Fig. 10. Crosshatch Signal

NORTH SOUTH PCC

- (1) Tune receiver into crosshatch signal.
- (2) Set SHARPNESS control at click-stop position and push "OPTIMUM" button.
- (3) Set the following VR4000, VR4002 and VR4003 variable resistors to the specified positions. Fully clockwise position (on the parts side)
- (4) Connect an oscilloscope between TP86(+) and TP88(-).
- (5) Adjust T4000 for voltage of 45 Vp-p.
- (6) Observing the top line (a) on the screen, adjust T4001 for optimum NORTH-SOUTH phase PCC as shown in Fig. 11.

V. scale: 1V/DIV
H. scale: 10msec/DIV
probe 10:1

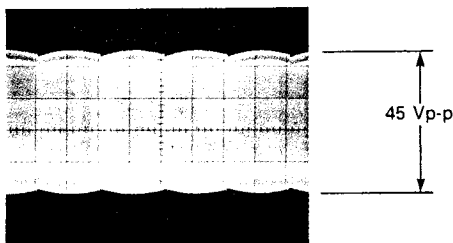


Fig. 9. Waveform of PCC

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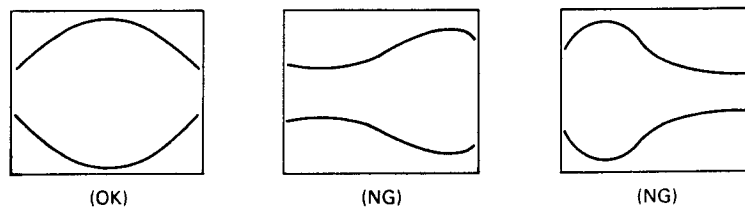


Fig. 11. NORTH-SOUTH Phase PCC

- (7) Connect an oscilloscope to TP89.
- (8) Adjust VR4004 so that the waveform balance as shown in Fig. 12.

V. scale: 2V/DIV
H. scale: 5msec/DIV
probe 10:1

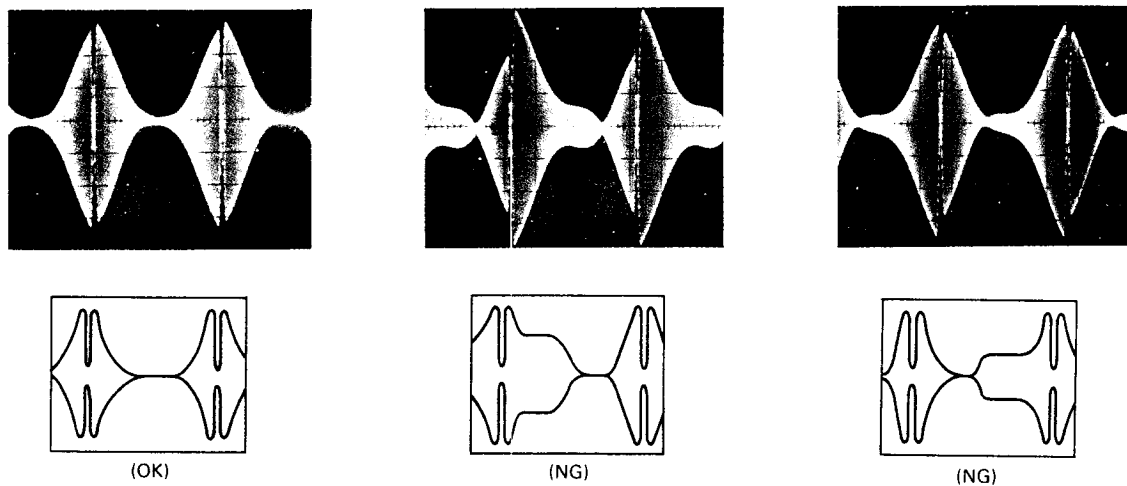


Fig. 12. Waveform of NS-SYMN

- (9) Adjust VR4002 and VR4003 so that the top line (a) and the bottom line (c) are straight on the screen.
- (10) Observing the third line (b) from top, adjust T4002 for optimum phase as shown in Fig. 13.

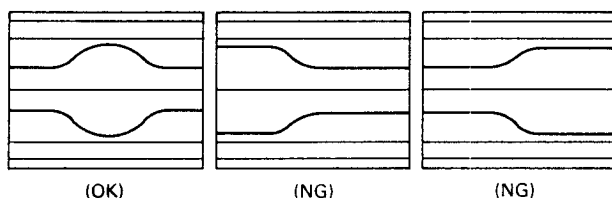


Fig. 13. Third Line (b)

- (11) Adjust VR4000 so that the third line (b) from top are straight on the screen.

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GREY SCALE

Grey scale adjustment procedure described below may be necessary when replacing picture tube or PCB-CRT.

- (1) Set to the no signal condition in the AV mode.
- (2) Set the following variable resistors to the specified positions.

Drive control VR654 and VR655:

At about 45° anticlockwise position from the centre. (on the foil side)

SUB-CONT control VR201:

Nearly in the middle position

Screen control of T553 (Flyback transformer):

Fully counterclockwise position

- (3) Connect the oscilloscope to Q651 and Q653 collector in turn. Connect the ground probe to the pin ② of connector CT.
- (4) Adjust SCREEN control VR651 to VR653 so that the PEDESTAL LEVEL of each collector shall be 150V. (Fig. 14)

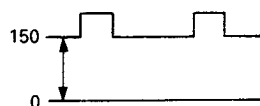


Fig. 14

- (5) Short-circuit the service terminals J-140 and J-141. (The screen shows one horizontal line.)
- (6) Adjust the SCREEN control on the flyback transformer (T553) until the first faint single horizontal coloured line appears.
- (7) Adjust two of the SCREEN controls (PCB-CRT) VR651, VR652 and VR653 so that the horizontal line becomes white, e.g. if the original colour line was blue, adjust VR651 (red) and VR653 (green) to achieve a white line.
- (8) Remove the short circuit from the service terminals.
- (9) Change to the TV mode and tune the receiver into a monochrome signal.
- (10) Adjust the red (VR654) and blue (VR655) Drive controls to obtain a natural black and white picture.
- (11) If may be necessary to repeat items (5), (7), (8), (9) and (10) above.
- (12) Do the adjustment SUB CONT (VR201) on page 8 of this manual.

NICAM DECODER

CARRIER VCX0 (VC3001)

- (1) Tune receiver into a NICAM signal.
- (2) Set the oscilloscope to the X-Y mode and connect TP31 to the horizontal axis (X) and TP32 to the vertical axis (Y). (Probe: 10:1)
- (3) Adjust VC3001 so that a square made by lining up four luminous points will run parallel with a scale line of oscillator.

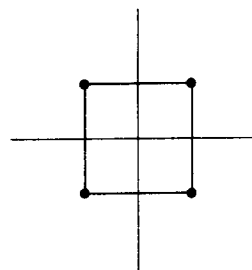
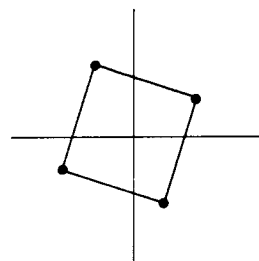


Fig. 15

CLOCK-VCX0 (VC3002)

- (1) Tune receiver into a NICAM signal.
- (2) Adjust VC3002 so that the potential difference at TP33 and TP34 is $0 \pm 30\text{mV}$.

PARTS LIST

MODEL : CT – 2965STX

In order to expedite delivery of replacement part orders.

- Specify :
1. Model number/Serial number
 2. Part number and Description
 3. Quantity

Unless full information is supplied, delay in execution of orders will result.

△ : Critical components ○ : New Parts

MARK	B	C	D	F	G	J	K
TOLERANCE (%)	± 0.1	± 0.25	± 0.5	± 1	± 2	± 5	± 10

MARK	M	N	V	X	Z	P	Q
TOLERANCE (%)	± 20	± 30	+ 10 - 10	+ 40 - 20	+ 80 - 20	+ 100 - 0	+ 30 - 10

MARK	B	C	D	F	G
TOLERANCE (pF)	± 0.1	± 0.25	± 0.5	± 1	± 2

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SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
TUBES							
○△V 271	255P919020	CATHODE RAY TUBE	A68EAU27X01	Q 2J2	260P543050	TRANSISTOR	JC501-Q
INTEGRATED CIRCUITS				Q 2J6	260P544030	TRANSISTOR	JA101-Q
IC251	272P124010	IC	NJM2209S	Q 2J7	260P543030	TRANSISTOR	JC501-R
IC2J0	266P279010	IC	M51321P	Q 2J8	260P543050	TRANSISTOR	JC501-Q
IC2J1	266P064010	IC	M51320P	Q 2J9	260P543050	TRANSISTOR	JC501-Q
IC2P1	266P064010	IC	M51320P	Q 2K0	260P543050	TRANSISTOR	JC501-Q
IC2T0	266P067010	IC	AN5352	Q 2K1	260P544030	TRANSISTOR	JA101-Q
IC3J0	266P064010	IC	M51320P	Q 2K2	260P543050	TRANSISTOR	JC501-Q
○ IC3S1	272P145010	IC	STK4132MK2	Q 2K5	260P543030	TRANSISTOR	JC501-R
IC3001	266P620010	IC	AN608P	Q 2K6	260P544030	TRANSISTOR	JA101-Q
IC3002	266P620010	IC	AN608P	Q 2P1	260P544030	TRANSISTOR	JA101-Q
IC3003	272P283010	IC	TA8662N	Q 2P2	260P543050	TRANSISTOR	JC501-Q
IC3004	263P636010	IC	TC6011N	Q 2P3	260P543050	TRANSISTOR	JC501-Q
IC3005	263P622020	IC	HM6264ALSP10	Q 2P5	260P543050	TRANSISTOR	JC501-Q
IC3006	272P284010	IC	TD6710AN	Q 2P6	260P543050	TRANSISTOR	JC501-Q
IC3007	267P036010	IC	AFL87F-14000A10	Q 2T0	260P544030	TRANSISTOR	JA101-Q
IC3008	267P036010	IC	AFL87F-14000A10	Q 2T1	260P543050	TRANSISTOR	JC501-Q
IC3009	266P744010	IC	TL082CP	Q 2T2	260P543050	TRANSISTOR	JC501-Q
IC3010	272P139010	IC	LA7953	Q 2Z2	260P543050	TRANSISTOR	JC501-Q
IC3011	267P037010	IC	B081-1	Q 2Z3	260P543050	TRANSISTOR	JC501-Q
IC3014	272P200020	IC	M5201L	Q 2Z4	260P543030	TRANSISTOR	JC501-R
IC3015	272P200020	IC	M5201L	Q 3J0	260P544030	TRANSISTOR	JA101-Q
IC401	272P174010	IC	μ PC 1498H	Q 3S1	260P543050	TRANSISTOR	JC501-Q
IC4000	266P744010	IC	TL082C ²	Q 3S2	260P544030	TRANSISTOR	JA101-Q
IC4001	266P744010	IC	TL082C ²	Q 3S3	260P543050	TRANSISTOR	JC501-Q
IC4002	263P066020	IC	TC40663P	Q 3001	260P543050	TRANSISTOR	JC501-Q
IC501	272P147020	IC	TDA2579A	Q 3002	260P416030	TRANSISTOR	2SC2274-F
IC5001	272P406010	IC	TEA2031A	Q 3003	260P543050	TRANSISTOR	JC501-Q
IC601	272P171010	IC	TDA4555 MSD	Q 3004	260P543050	TRANSISTOR	JC501-Q
IC602	272P170010	IC	TDA4565 CTI	Q 3005	260P543050	TRANSISTOR	JC501-Q
IC603	272P169010	IC	TA7676P RGB	Q 3006	260P543050	TRANSISTOR	JC501-Q
○ IC701	263P282010	IC	M50439-564SP	Q 3007	260P543050	TRANSISTOR	JC501-Q
IC702	272P064010	IC	M58630P	Q 3008	260P543050	TRANSISTOR	JC501-Q
IC703	266P130030	IC	PST520E	Q 3009	260P416030	TRANSISTOR	2SC2274-F
IC704	266P010020	IC	UPC574J-K	Q 3011	260P543050	TRANSISTOR	JC501-Q
IC7704	272P193010	IC	MAB8461P	Q 3012	260P543050	TRANSISTOR	JC501-Q
IC7705	272P096020	IC	SAA5231	Q 401	260P544030	TRANSISTOR	JA101-Q
IC7706	272P095050	IC	SAA5243	Q 4000	260P543030	TRANSISTOR	JC501-R
IC7707	263P765010	IC	TC5565APL-10. 12.	Q 4001	260P543030	TRANSISTOR	JC501-R
IC7708	272P192010	IC	PCD8572	Q 4002	260P543050	TRANSISTOR	JC501-Q
IC901	272P411010	IC	TEA2164	Q 4003	260P544030	TRANSISTOR	JA101-Q
IC950	272P412010	IC	TEA5170	Q 4004	260P544030	TRANSISTOR	JA101-Q
IC951	266P922010	IC	μ PC78M05H	Q 4006	260P544030	TRANSISTOR	JA101-Q
IC952	266P922010	IC	μ PC78M05H	Q 4007	260P436010	TRANSISTOR	2SD386A-D, E
IC953	267P076010	IC	SI-3120C	Q 4008	260P543050	TRANSISTOR	JC501-Q
TRANSISTORS				○ Q 551	260P510010	TRANSISTOR	BF419
Q 201	260P544030	TRANSISTOR	JA101-Q	Q 552	260P608030	TRANSISTOR	2SD1879
Q 252	260P543050	TRANSISTOR	JC501-Q	Q 553	260P544030	TRANSISTOR	JA101-Q
Q 253	260P635010	TRANSISTOR	2SC3065F/2SC3065G	Q 5000	260P543050	TRANSISTOR	JC501-Q
Q 254	260P543050	TRANSISTOR	JC501-Q	Q 5002	260P543050	TRANSISTOR	JC501-Q
Q 2J1	260P543050	TRANSISTOR	JC501-Q	Q 5003	260P543050	TRANSISTOR	JC501-Q
				Q 5004	260P543050	TRANSISTOR	JC501-Q
				Q 5005	260P544030	TRANSISTOR	JA101-Q
				Q 601	260P543050	TRANSISTOR	JC501-Q
				Q 602	260P543050	TRANSISTOR	JC501-Q

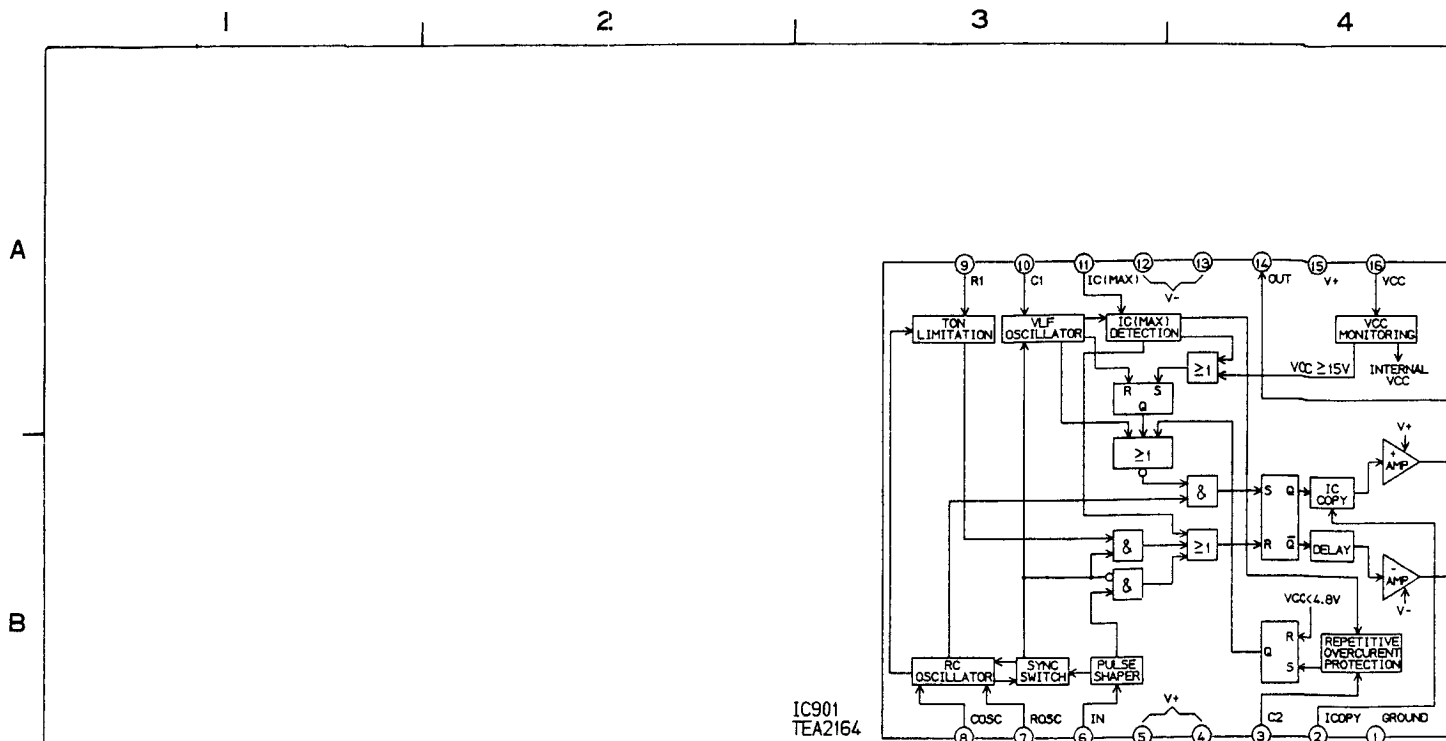
SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 651	260P425040	TRANSISTOR	2SC2688-M, N	D 2K6	264P370010	DIODE	1N4148
Q 652	260P425040	TRANSISTOR	2SC2688-M, N	D 2L0	264P370010	DIODE	1N4148
Q 653	260P425040	TRANSISTOR	2SC2688-M, N	○ D 2L1	264P485070	DIODE	RD7. 5FB3
Q 654	260P544030	TRANSISTOR	JA101-Q	D 2L2	264P459030	DIODE	RD4. 7EB1
Q 6A1	260P543050	TRANSISTOR	JC501-Q	D 2L3	264P459030	DIODE	RD4. 7EB1
Q 6A2	260P543050	TRANSISTOR	JC501-Q	D 2R1	264P483080	DIODE	RD5. 1FB2
Q 6A3	260P543050	TRANSISTOR	JC501-Q	D 2T2	264P370010	DIODE	1N4148
Q 6A5	260P543050	TRANSISTOR	JC501-Q	D 2T4	264P370010	DIODE	1N4148
Q 6A6	260P543050	TRANSISTOR	JC501-Q	D 2T5	264P370010	DIODE	1N4148
Q 6A7	260P544030	TRANSISTOR	JA101-Q	D 2T6	264P501040	DIODE	HZ3ALL
Q 6A8	260P543050	TRANSISTOR	JC501-Q	D 2U0	264P370010	DIODE	1N4148
Q 6P1	260P543050	TRANSISTOR	JC501-Q	D 2U1	264P370010	DIODE	1N4148
Q 6P2	260P543050	TRANSISTOR	JC501-Q	○ D 3J4	264P485070	DIODE	RD7. 5FB3
Q 6P3	260P543050	TRANSISTOR	JC501-Q	D 3J5	264P370010	DIODE	1N4148
Q 6P4	260P543050	TRANSISTOR	JC501-Q	D 3J6	264P370010	DIODE	1N4148
Q 6P5	260P543050	TRANSISTOR	JC501-Q	D 3J7	264P370010	DIODE	1N4148
Q 6P6	260P543050	TRANSISTOR	JC501-Q	○ D 3J9	264P485070	DIODE	RD7. 5FB3
Q 701	260P559060	TRANSISTOR	2SC1740S-S, E	D 3S1	264P370010	DIODE	1N4148
Q 702	260P543050	TRANSISTOR	JC501-Q	D 3S2	264P370010	DIODE	1N4148
Q 703	260P543050	TRANSISTOR	JC501-Q	D 3S3	264P374010	DIODE	1N4003G
Q 704	260P543050	TRANSISTOR	JC501-Q	D 3Y1	264P546010	LIGHT EMITTING DIODE	TLUG163
Q 705	260P543050	TRANSISTOR	JC501-Q	D 3Y2	264P546010	LIGHT EMITTING DIODE	TLUG163
Q 706	260P544030	TRANSISTOR	JA101-Q	D 3Y3	264P546010	LIGHT EMITTING DIODE	TLUG163
Q 707	260P544030	TRANSISTOR	JA101-Q	D 3001	264P487030	DIODE	RD11FB1
Q 7A1	260P543050	TRANSISTOR	JC501-Q	D 3002	264P370010	DIODE	1N4148
Q 7A2	260P543050	TRANSISTOR	JC501-Q	D 3003	264P370010	DIODE	1N4148
Q 7A3	260P543050	TRANSISTOR	JC501-Q	D 3004	264P465080	DIODE	EQA02-13A/RD13EB3
Q 7A4	260P543050	TRANSISTOR	JC501-Q	D 401	264P374010	DIODE	1N4003G
Q 7A5	260P544030	TRANSISTOR	JA101-Q	D 4000	264P374010	DIODE	1N4003G
Q 7B0	260P544030	TRANSISTOR	JA101-Q	D 4001	264P370010	DIODE	1N4148
Q 7B1	260P544030	TRANSISTOR	JA101-Q	D 4002	264P463010	DIODE	EQA02-08B/RD8. 2EB1
Q 7B2	260P543050	TRANSISTOR	JC501-Q	D 4006	264P463020	DIODE	EQA02-08C
Q 7701	260P543050	TRANSISTOR	JC501-Q	D 4007	264P370010	DIODE	1N4148
Q 7702	260P543050	TRANSISTOR	JC501-Q	D 4009	264P370010	DIODE	1N4148
Q 7703	260P543050	TRANSISTOR	JC501-Q	D 501	264P370010	DIODE	1N4148
Q 7705	260P543050	TRANSISTOR	JC501-Q	D 502	264P370010	DIODE	1N4148
Q 7706	260P543050	TRANSISTOR	JC501-Q	D 551	264P375010	DIODE	BY228
Q 901	260P663010	TRANSISTOR	2SD1887	D 552	264P378010	DIODE	BYW96E
Q 950	260P255040	TRANSISTOR	2SA950-Y	D 553	264P377010	DIODE	BYW95B
Q 951	260P543050	TRANSISTOR	JC501-Q	D 554	264P371010	DIODE	BYD33G
DIODES				D 555	264P374010	DIODE	1N4003G
D 207	264P370010	DIODE	1N4148	D 559	264P370010	DIODE	1N4148
D 251	264P460010	DIODE	EQA02-05AB/RD4. 7EB2	D 560	264P370010	DIODE	1N4148
D 252	264P370010	DIODE	1N4148	D 561	264P487080	DIODE	RD12FB2
D 254	264P370010	DIODE	1N4148	D 5000	264P370010	DIODE	1N4148
D 255	264P501060	DIODE	HZ3CLL	D 5001	264P370010	DIODE	1N4148
D 256	264P370010	DIODE	1N4148	D 5004	264P370010	DIODE	1N4148
D 257	264P370010	DIODE	1N4148	D 5005	264P370010	DIODE	1N4148
D 258	264P370010	DIODE	1N4148	D 601	264P488020	DIODE	RD13ED1
D 2J8	264P460030	DIODE	EQA02-05EF/RD5. 1EB3	D 603	264P488020	DIODE	RD13ED1
D 2K0	264P460030	DIODE	EQA02-05EF/RD5. 1EB3	D 606	264P488020	DIODE	RD13ED1
D 2K1	264P460030	DIODE	EQA02-05EF/RD5. 1EB3	D 610	264P370010	DIODE	1N4148
D 2K2	264P460030	DIODE	EQA02-05EF/RD5. 1EB3	D 612	264P501050	DIODE	HZ3BLI
				D 6A1	264P370010	DIODE	1N4148
				D 6A2	264P370010	DIODE	1N4148

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
D 6A3	264P460050	DIODE	EQA02-05B/4. 7EB3	D 958	264P370010	DIODE	1N4148
D 6A4	264P460050	DIODE	EQA02-05B/4. 7EB3	D 959	264P370010	DIODE	1N4148
D 701	264P370010	DIODE	1N4148	OTHER SEMICONDUCTORS			
D 702	264P370010	DIODE	1N4148	RP901	265P071060	POSITIVE THERMISTOR	PTH451C1618G180N
D 709	264P370010	DIODE	1N4148	FILTERS			
D 721	264P487080	DIODE	RD12FB2	CF701	299P046010	CERAMIC RESONATOR	
D 722	264P487080	DIODE	RD12FB2	LC3001	409P453010	BAND PASS FILTER	
D 723	264P487080	DIODE	RD12FB2	DELAY LINES			
D 724	264P487080	DIODE	RD12FB2	DL601	337P027050	DELAY LINE	
D 725	264P370010	DIODE	1N4148	COILS			
D 726	264P370010	DIODE	1N4148	○△	409P564010	DEGAUSSING COIL	
D 727	264P370010	DIODE	1N4148	L 251	325C167030	PEAKING COIL	68 μH-J
D 729	264P370010	DIODE	1N4148	L 252	325C121010	PEAKING COIL	6.8 μH-K
D 730	264P501050	DIODE	HZ38LL	L 253	325C121010	PEAKING COIL	6.8 μH-K
D 732	264P370010	DIODE	1N4148	L 254	325C121010	PEAKING COIL	6.8 μH-K
D 733	264P370010	DIODE	1N4148	L 2A2	321C031040	RF COIL	10 μH-K
D 734	264P370010	DIODE	1N4148	L 2J3	325C111030	PEAKING COIL	10 μH-K
D 735	264P370010	DIODE	1N4148	L 2J4	325C111030	PEAKING COIL	10 μH-K
D 736	264P370010	DIODE	1N4148	L 3K0	411P001070	FERRITE LEAD	
D 7A1	264P370010	DIODE	1N4148	L 3K1	411P001070	FERRITE LEAD	
D 7A2	264P370010	DIODE	1N4148	L 3001	325C108060	PEAKING COIL	820 μH-J
D 7A6	264P370010	DIODE	1N4148	L 3002	325C108060	PEAKING COIL	820 μH-J
D 7A7	264P370010	DIODE	1N4148	L 3003	325C122050	PEAKING COIL	100 μH-K
D 7B0	264P370010	DIODE	1N4148	L 3004	325C122050	PEAKING COIL	100 μH-K
D 7B1	264P370010	DIODE	1N4148	L 3005	325C122050	PEAKING COIL	100 μH-K
D 7Y1	264P393010	LIGHT EMITTING DIODE	SLC-26VR5F	L 551	321C030010	RF COIL	1 μH-K
D 7Y2	264P370010	DIODE	1N4148	L 553	411D009020	FERRITE CORE FILTER	
D 7Y3	264P370010	DIODE	1N4148	L 555	409P006080	FILTER COIL	
D 7Y4	264P370010	DIODE	1N4148	L 556	333P012090	H-LIN. COIL	
D 7Y5	264P370010	DIODE	1N4148	L 557	325C121030	PEAKING COIL	10 μH-K
D 7Y6	264P370010	DIODE	1N4148	L 5001	409P408010	PCC COIL	
D 7Y7	264P370010	DIODE	1N4148	L 5002	409P407010	BRIDGE COIL	
D 7701	264P370010	DIODE	1N4148	L 601	321C031040	RF COIL	10 μH-K
D 7702	264P370010	DIODE	1N4148	L 602	325C166040	PEAKING COIL	12 μH-J
D 7703	264P370010	DIODE	1N4148	L 603	349P185010	DL OUT COIL	
D 7705	264P370010	DIODE	1N4148	○ L 604	349P172010	BELL FILTER	
D 7706	264P370010	DIODE	1N4148	○ L 606	349P174010	IDENT COIL	
D 7707	264P483080	DIODE	RD5. 1FB2	L 607	349P173010	DEMODULATOR COIL	
D 7708	264P370010	DIODE	1N4148	L 608	349P173010	DEMODULATOR COIL	
D 901	264P376010	DIODE	BYW56	L 701	325C122010	PEAKING COIL	47 μH-K
D 902	264P376010	DIODE	BYW56	L 702	325C122010	PEAKING COIL	47 μH-K
D 903	264P376010	DIODE	BYW56	L 703	325C122010	PEAKING COIL	47 μH-K
D 904	264P376010	DIODE	BYW56	L 704	325C122010	PEAKING COIL	47 μH-K
D 905	264P371010	DIODE	BYD33G	L 705	325C111030	PEAKING COIL	10 μH-K
D 906	264P372010	DIODE	BYV96E	L 706	325C111030	PEAKING COIL	10 μH-K
D 907	264P481060	DIODE	RD3. 0FB2	L 707	325C121030	PEAKING COIL	10 μH-K
D 908	264P370010	DIODE	1N4148	L 708	325C111030	PEAKING COIL	10 μH-K
D 909	264P481060	DIODE	RD3. 0FB2	L 709	325C110010	PEAKING COIL	1 μH-K
D 950	264P378010	DIODE	BYW96E	L 711	325C110010	PEAKING COIL	1 μH-K
D 952	264P377010	DIODE	BYW95B	L 7701	321C031060	RF COIL	15 μH-K
D 953	264P377010	DIODE	BYW95B				
D 954	264P374010	DIODE	1N4003G				
D 955	264P491090	DIODE	RD30FB3				
D 956	264P377010	DIODE	BYW95B				
D 957	264P377010	DIODE	BYW95B				

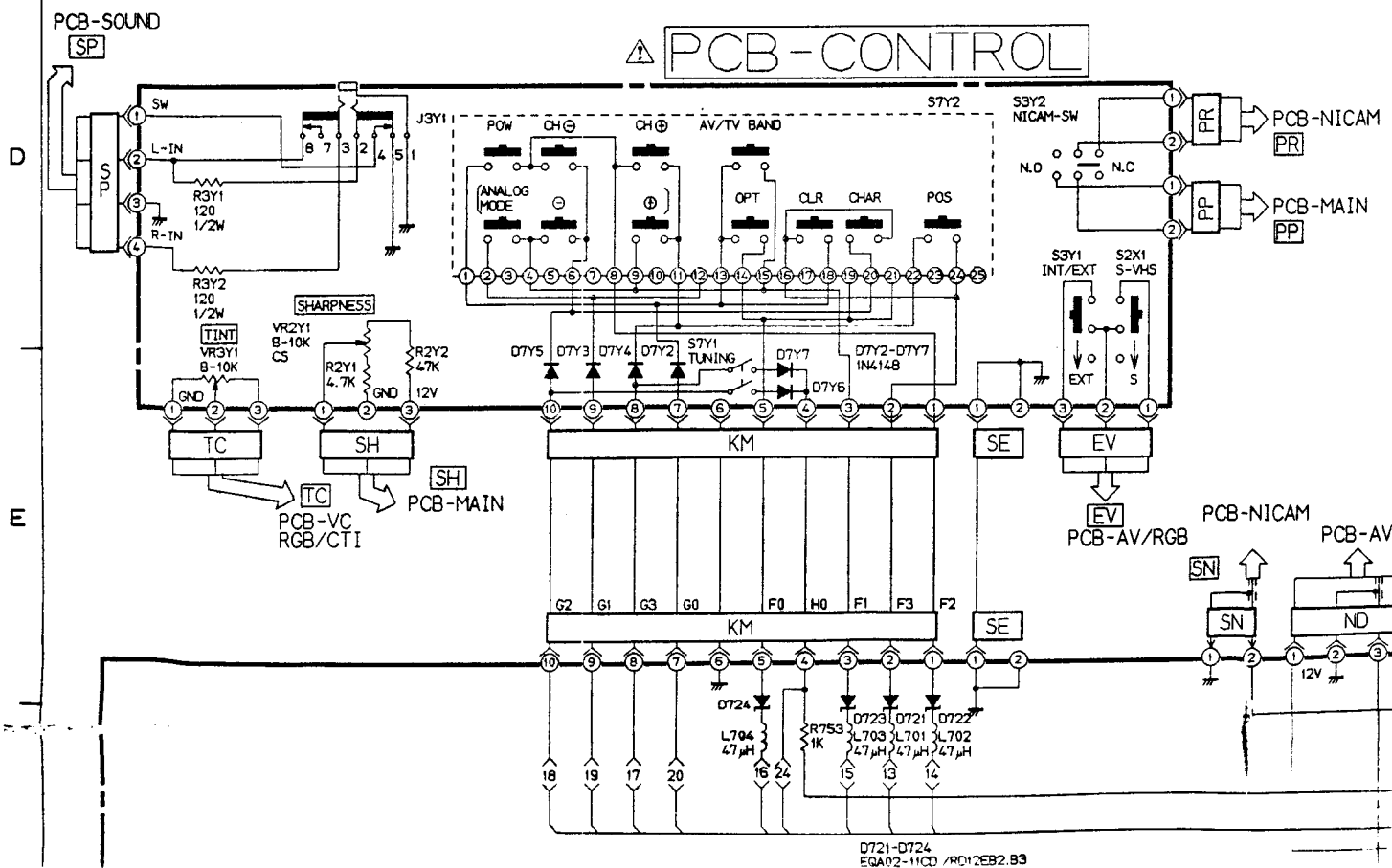
SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
L 7703	325C111030	PEAKING COIL	10 μ H-K	RESISTORS			
L 7704	325C111030	PEAKING COIL	10 μ H-K	Δ R 378	109P052010	FUSE	1/4W 100 Ω -J
L 7705	325C111030	PEAKING COIL	10 μ H-K	Δ R 303	109P052010	FUSE	1/4W 100 Ω -J
L 7706	325C111030	PEAKING COIL	10 μ H-K	Δ R 4036	103P390010	FUSE	1/2W 10 Ω -J
L 901	411P001070	FERRITE LEAD		R 556	109D067050	CEMENT WIRE	10W 8.2 Ω -K
L 903	411P001070	FERRITE LEAD		Δ R 559	103P378040	FUSE	1/4W 2.2 Ω -J
L 904	321C030050	RF COIL	2.2 μ H-K	Δ R 563	103P397090	FUSE	1/2W 0.82 Ω -J
L 951	325D059060	PEAKING COIL	390 μ H-K	Δ R 566	103P442020	FUSE METAL	1W 560 Ω -K/J
L 991	351P011020	LINE FILTER		Δ R 570	103P397090	FUSE	1/2W 0.82 Ω -J
L 994	351P047020	LINE FILTER		Δ R 671	103P438010	FUSE METAL	2W 1.2 Ω -K/J
$\bigcirc$ LC2P1	320P051010	TRAP COIL		R 901	102P087040	CEMENT WIRE	10W 4.7 Ω -K
$\bigcirc$ LC2P2	320P051020	TRAP COIL		Δ R 955	103P397090	FUSE	1/2W 0.82 Ω -J
$\bigcirc$ LC2P3	320P051030	TRAP COIL		Δ R 968	109D021020	COMPOSITION	1/2W 6.8 Ω -K
TRANSFORMERS				Δ R 969	109D021020	COMPOSITION	1/2W 6.8 Ω -K
LC6A1	349P159050	CHROMA-BP		CAPACITORS AND TRIMMERS			
$\bigcirc$ LC6A2	349P159010	CHROMA-BP		$\bigcirc$ C 904	185D056030	ELECTROLYTIC-C	H400V 220 μ F-M
T 4000	350P442010	DYNAMIC		Δ C 913	189P094020	AC CERAMIC	ACT4K E3300P
T 4001	350P443010	N/S		$\bigcirc$ C 966	185D054060	ELECTROLYTIC-C	H35V 4700M
T 4002	350P444010	GULLWING		$\bigcirc$ C 968	185D054060	ELECTROLYTIC-C	H35V 4700M
T 551	336P009010	H. DRIVE		VC3001	202P109030	TRIMMER CAPACITOR	5.5PF-30PF
$\bigcirc$ Δ T 553	334P171080	FLYBACK		VC3002	202P109030	TRIMMER CAPACITOR	5.5PF-30PF
$\bigcirc$ Δ T 901	350P453050	POWER		VC601	202P109030	TRIMMER CAPACITOR	5.5PF-30PF
Δ T 902	336P021010	DRIVE		VC6A1	202P109030	TRIMMER CAPACITOR	5.5PF-30PF
VARIABLE RESISTORS				VC7701	202P109030	TRIMMER CAPACITOR	5.5PF-30PF
$\bigcirc$ S 7Y2	129C129050	VR-BLOCK		SWITCHES			
VR201	127C081020	VR-SEMIFIXED	1/5W B100K Ω -M	S 2X1	432C031010	PUSH SWITCH	
VR202	127C081010	VR-SEMIFIXED	1/5W B50K Ω -M	S 391	431C087010	SLIDE SWITCH	
VR2T0	127C181010	VR-SEMIFIXED	1/5W B50K Ω -M	S 3J1	432P052030	PUSH SWITCH	
VR2T1	127C181010	VR-SEMIFIXED	1/5W B50K Ω -M	S 3J2	432P052030	PUSH SWITCH	
VR2Y1	120C346020	VR-PCB	1/20W B10K Ω -20TM	S 3Y1	432C031010	PUSH SWITCH	
VR3Y1	120C346010	VR-PCB	1/20W B10K Ω -20TM	S 3Y2	432C031010	PUSH SWITCH	
VR401	127C081050	VR-SEMIFIXED	1/10W B500K Ω -N	S 401	434C021010	LEVER SWITCH	
VR402	127C081050	VR-SEMIFIXED	1/10W B500K Ω -N	S 7Y1	432C031010	PUSH SWITCH	
VR4000	127C080090	VR-SEMIFIXED	1/5W B20K Ω -M	Δ S 991	432P076010	PUSH SWITCH	
VR4002	127C080070	VR-SEMIFIXED	1/5W B5K Ω -M	MISCELLANEOUS			
VR4003	127C080070	VR-SEMIFIXED	1/5W B5K Ω -M	$\bigcirc$	242C258020	IF CABLE	
VR4004	127C081020	VR-SEMIFIXED	1/5W B100K Ω -M	Δ	451C092010	JACK AERIAL	
VR501	127C081010	VR-SEMIFIXED	1/5W B50K Ω -M	Δ F 991	449C081090	CRT SOCKET	
VR502	127C080080	VR-SEMIFIXED	1/5W B10K Ω -M	IP1A1	283D047040	FUSE	
VR5001	127C080040	VR-SEMIFIXED	1/5W B1K Ω -M		295P060050	TUNER VIF PACK	VP-5D
VR5002	127C081060	VR-SEMIFIXED	1/5W B1K Ω -M	J 2J1	451C058010	CONNECTOR	
VR5003	127C080070	VR-SEMIFIXED	1/5W B5K Ω -M	J 2J2	451C058010	CONNECTOR	
VR601	127C080010	VR-SEMIFIXED	1/5W B200 Ω -M	J 2P1	449C093010	SOCKET DIN MINI	
VR651	127C020070	VR-SEMIFIXED	1/5W B5K Ω -N	J 391	440C123010	SPEAKER TERMINAL	
VR652	127C020070	VR-SEMIFIXED	1/5W B5K Ω -N	J 3Y1	451C082010	MICROPHONE JACK	
VR653	127C020070	VR-SEMIFIXED	1/5W B5K Ω -N	$\bigcirc$ K 3S1	287P052010	POWER RELAY	
VR654	127C020040	VR-SEMIFIXED	1/5W B1K Ω -N	$\bigcirc$ SP391	480P642050	SPEAKER	
VR655	127C020040	VR-SEMIFIXED	1/5W B1K Ω -N	$\bigcirc$ SP392	480P642050	SPEAKER	
VR701	127C080070	VR-SEMIFIXED	1/5W B5K Ω -M	X 3001	285P091010	CRYSTAL RESONATOR	
VR951	127C080080	VR-SEMIFIXED	1/5W B10K Ω -M	X 3002	285P093010	CRYSTAL RESONATOR	
				X 3003	285P081010	CRYSTAL RESONATOR	

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
X 601	285P068020	CRYSTAL RESONATOR	8. 8MHz				
○ X 6A1	285P073020	CRYSTAL RESONATOR					
X 7701	285P062020	CRYSTAL RESONATOR	13. 875MHz				
X 7702	285P064020	CRYSTAL RESONATOR	6. 000MHz				
X 7703	285P064020	CRYSTAL RESONATOR	6. 000MHz				
Z 701	939P226010	PREAMP UNIT					
○△Z 950	299P087080	PROTECTOR					
△Z 951	299P087010	PROTECTOR					
○△Z 952	299P132010	PROTECTOR					
○△Z 953	299P132010	PROTECTOR					
PRINTED CIRCUIT BOARD ASSY'S							
○△	920D256040	AV PCB ASSY					
○△	920D264040	CONTROL PCB ASSY					
△	930C266030	CRT PCB ASSY					
○△	920A375070	MAIN PCB ASSY					
○△	930C262090	NICAM PCB ASSY					
○△	930C337010	SOUND-P PCB ASSY					
○△	920D260060	VC/RGB PCB ASSY					
MECHANICAL PARTS							
	669D221020	SCREW	SCREW-TB(10P)				
	669D221040	SCREW	SCREW-TB(10P)				
	669D221060	SCREW	SCREW-TB(10P)				
	669D212040	SCREW	(10P)				
	669D221080	SCREW	4X25(10P)				
	669D212030	SCREW	D=3 L=16				
	669D222060	SCREW	3X16(10P)				
COSMETIC PARTS							
△	246C022020	AC POWER CORD					
○△	700C108070	BACK COVER ASSY					
○	700A514010	CABINET FRONT ASSY					
○	704C374060	BUTTON POWER					
	641D173010	CLIP	(A40R)				
	761C273010	DOOR CATCH					
○	702C827000	DOOR					
	734D283010	PUSH KNOB					
	704D867010	PUSH-P KNOB					
○	761A075020	TERMINAL BOARD					
J 3P1	451C114010	PIN JACK(2P)					
PACKING PARTS AND ACCESSORY							
	803B619010	PACKING CUSHION					
○	803D216010	PACKING CUSHION					
	831D222030	PACKING BAG					
○	801C042010	PACKING CASE					
	829D138060	PACKING SHEET					
○	871C382030	SERVICE MANUAL					
△	939P212070	REMOTE HAND UNIT					

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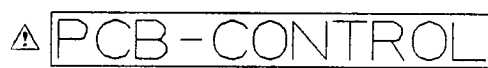
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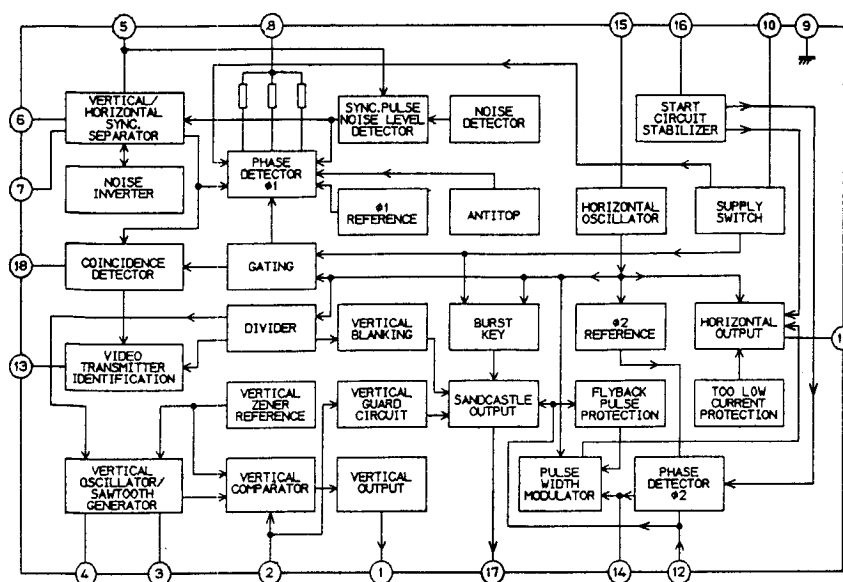
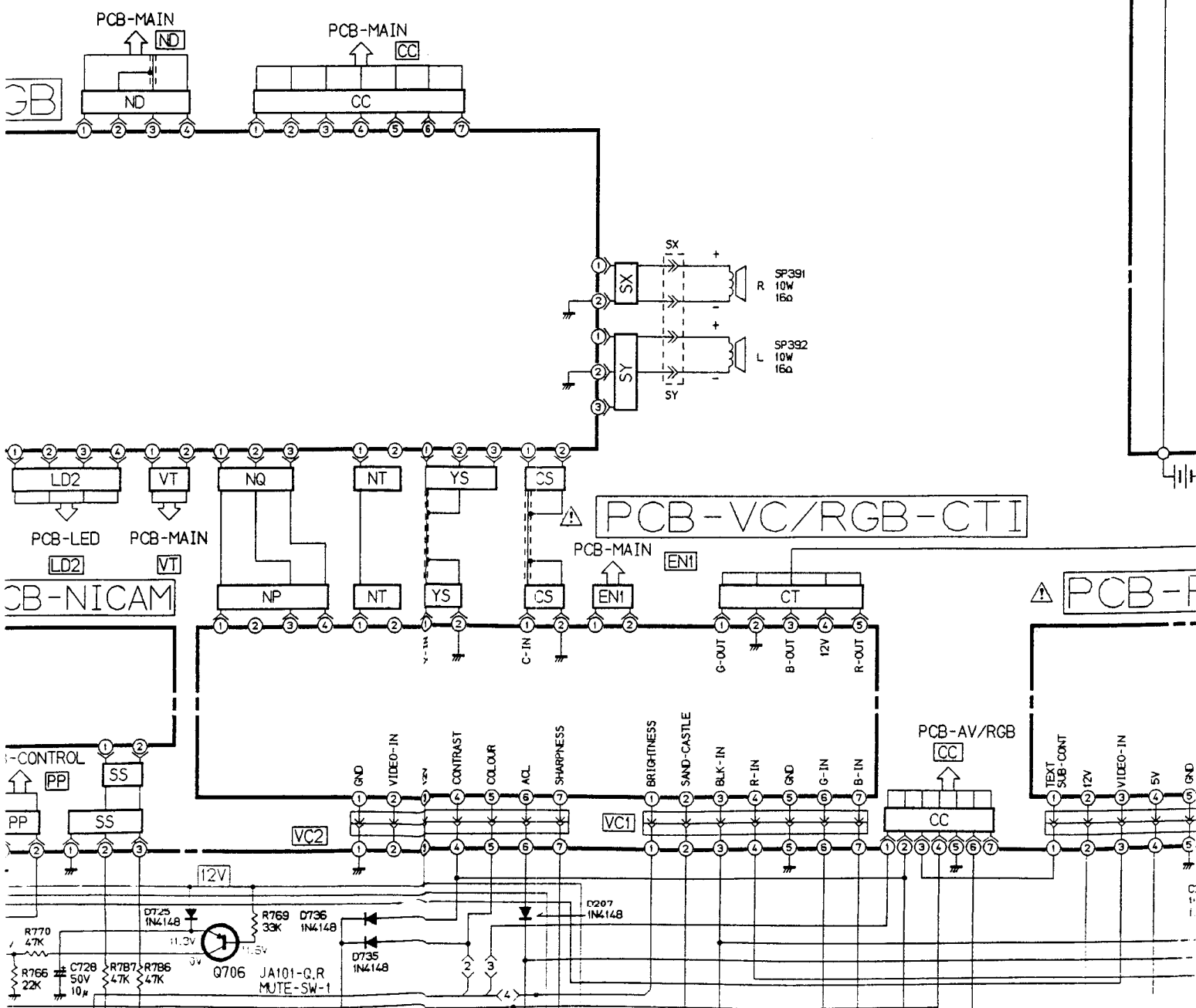
SCHEMATIC D



IC953
SI-3120

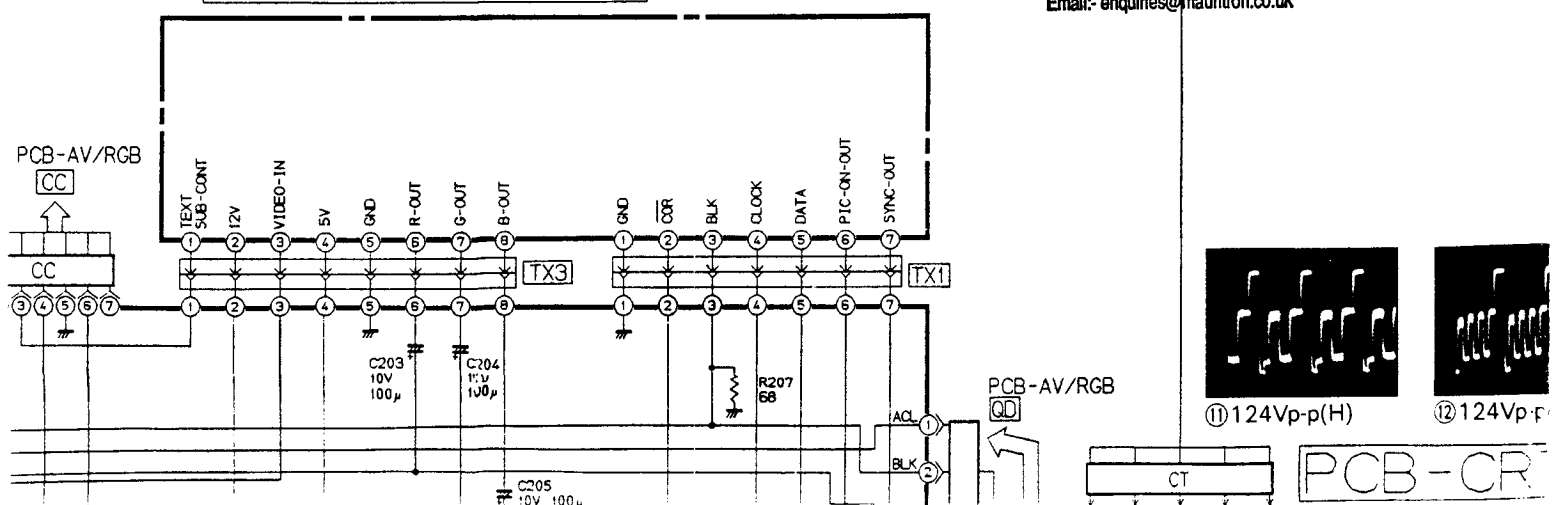


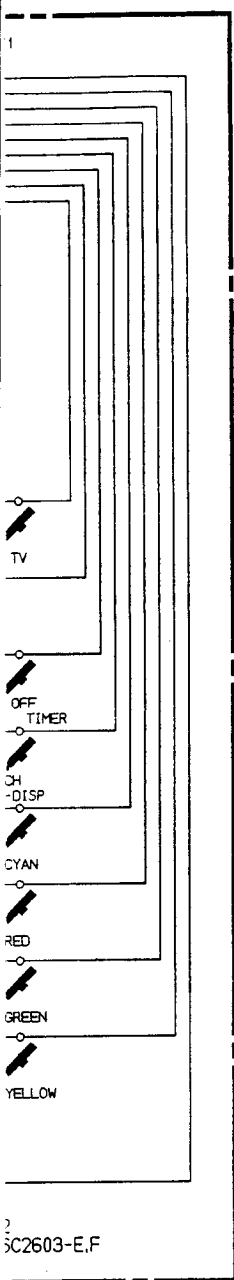
65STX

IC501
TDA2579Q1
2SA1282



⚠ PCB-FASTEXT





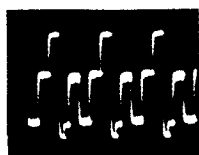
SERVICING PRECAUTION

SYMBOLS INDICATE COMPONENTS HAVING SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY AND PERFORMANCE. THEREFORE REPLACEMENT OF ANY SAFETY PARTS SHOULD BE IDENTICAL IN VALUE AND CHARACTERISTICS. FOR ACCURACY OF THE REPLACEMENT REFER TO THE PARTS LIST OF SERVICE MANUAL.

DON'T DEGRADE THE SAFETY OF THE RECEIVERS THROUGH IMPROPER SERVICING.

NOTE 1:

- The unit of resistance is "ohm" with no symbol.
Accordingly, K = 1000 ohms
M = 1000K ohms.
- The wattage of resistors, if not specifically designated, is less than 1/4 watt.
- Resistors, if not specifically designated, are carbon resistors.
- The marks of resistors are as follows:
 - CE : Cemented resistor
 - MB : Metal oxide film resistor (type B)
 - MPC : Metal plate cement resistor.
 - ML : Metal linear resistor.
 - S : Fixed composition resistor
 - W : Wire wound resistor
 - M : Metal film resistor
- The tolerance of resistor value, if not specifically designated, is:
 - $\pm 5\%$, K = $\pm 10\%$ M = $\pm 20\%$
- The unit of capacitance, if not specifically designated, is:
 - a) μF , for numbers less than 1
 - b) PF, for numbers more than 1
- Capacitors, if not specifically designated are Ceramic capacitors except electrolytic capacitors.
- The marks of capacitors are as follows:
 - ALM : Aluminus electrolytic capacitor
 - MF : Polyester capacitor
 - PP : Polypropylene film capacitor
 - TANT : Tantalum capacitor
 - TF : Twin film capacitor.
 - MFPP : Polyester polypropylene film capacitor.



⑪ 124Vp-p(H)

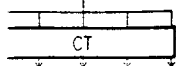


⑫ 124Vp-p(H)



⑬ 124Vp-p(H)

B



PCB-CRT ⚠

F

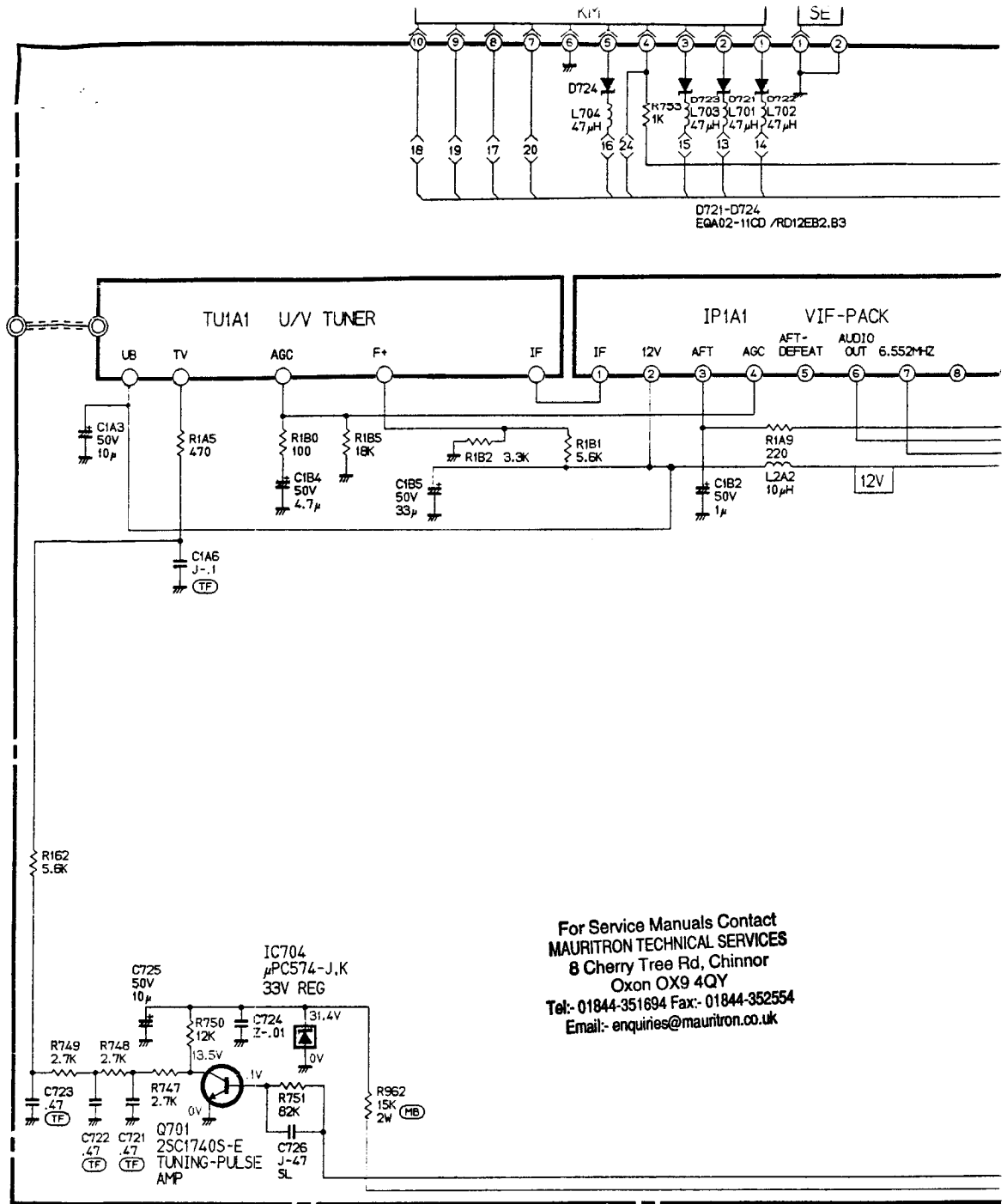
G

H

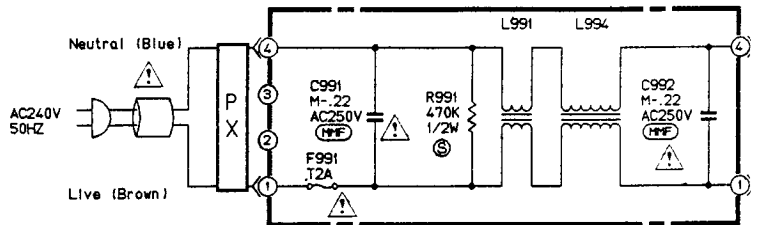
I

J

K



⚠ PCB-MAIN



⚠ PCB-POWER-SUB

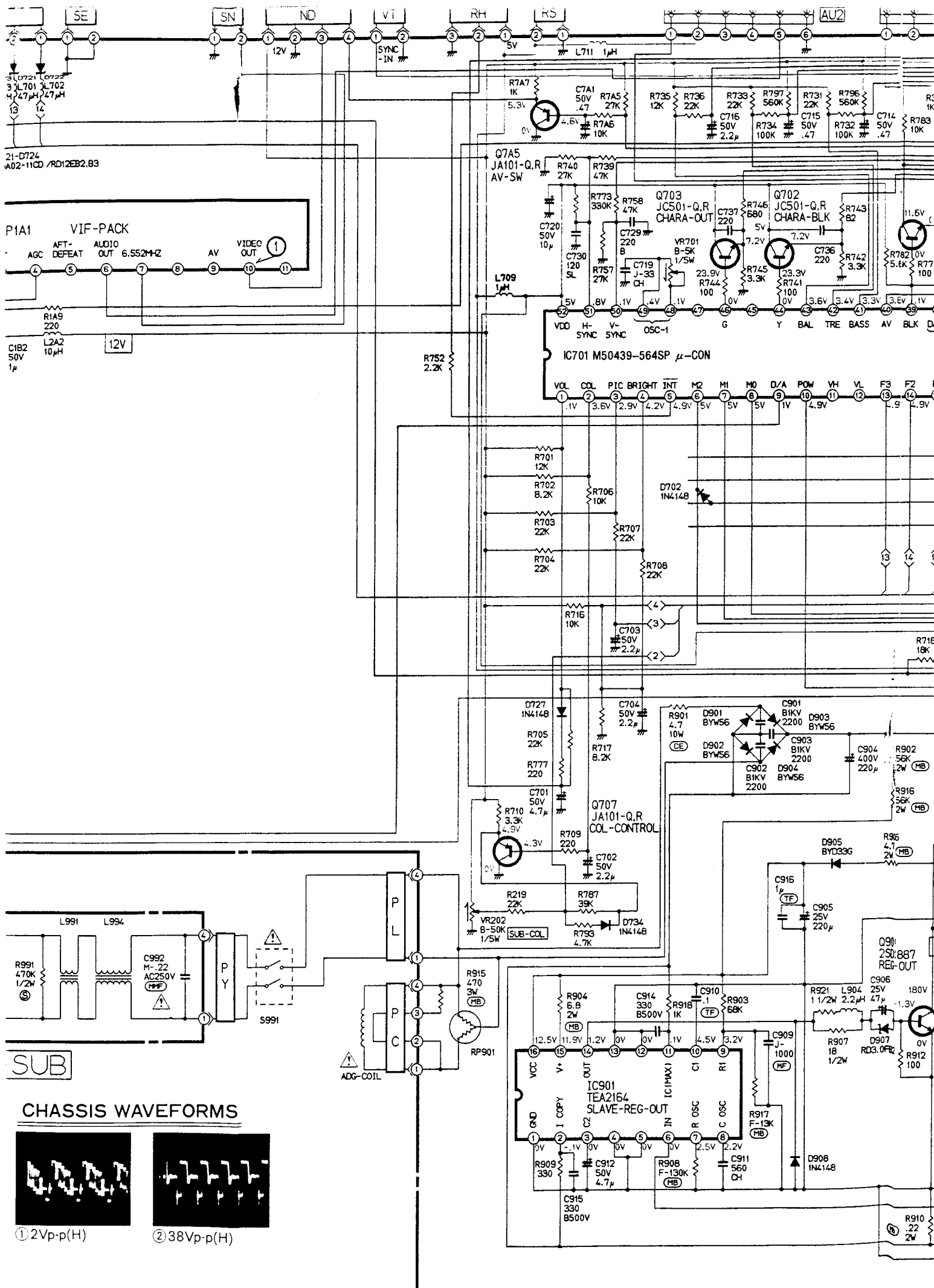
CHASSIS WAVEFORM

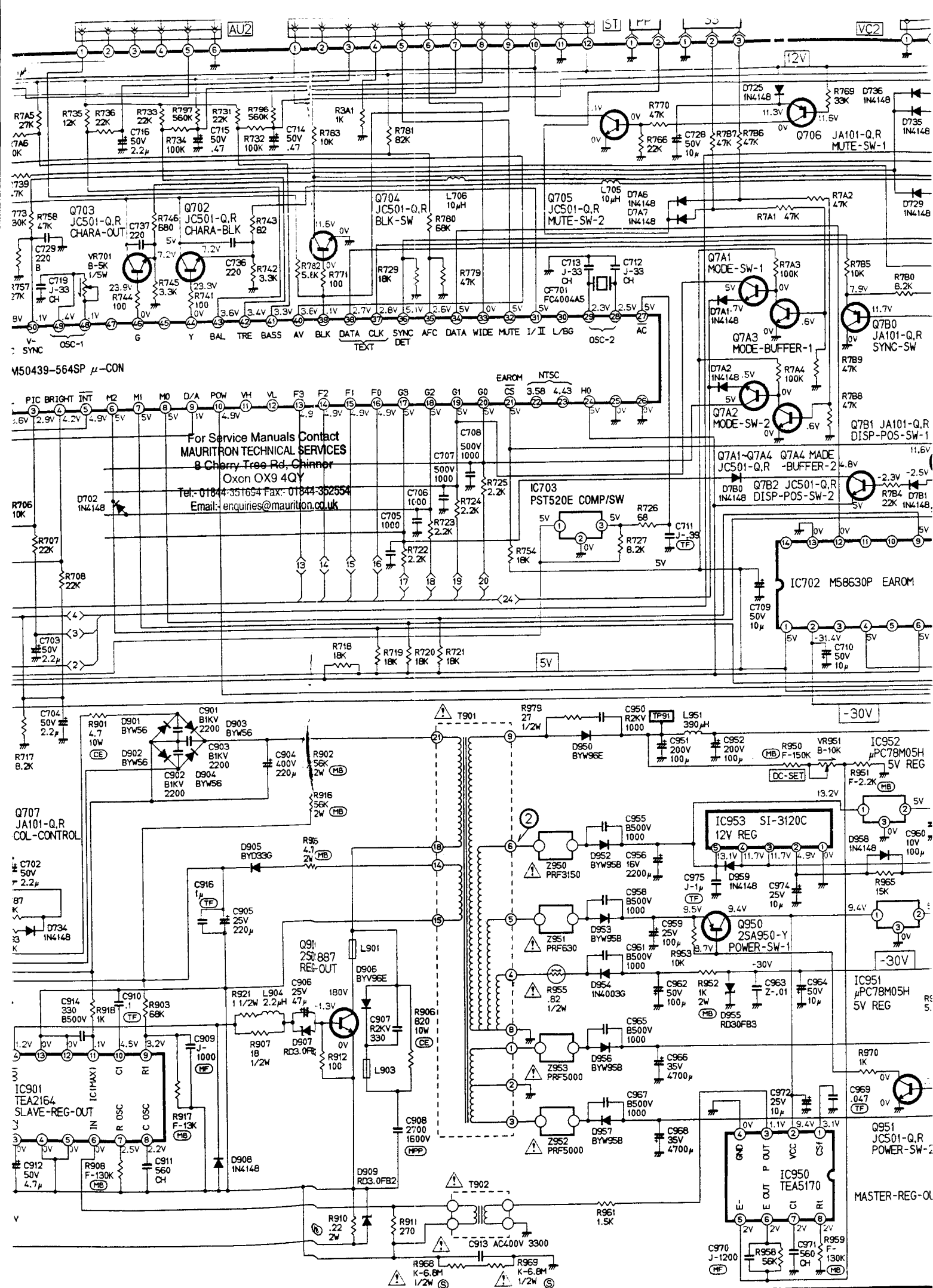


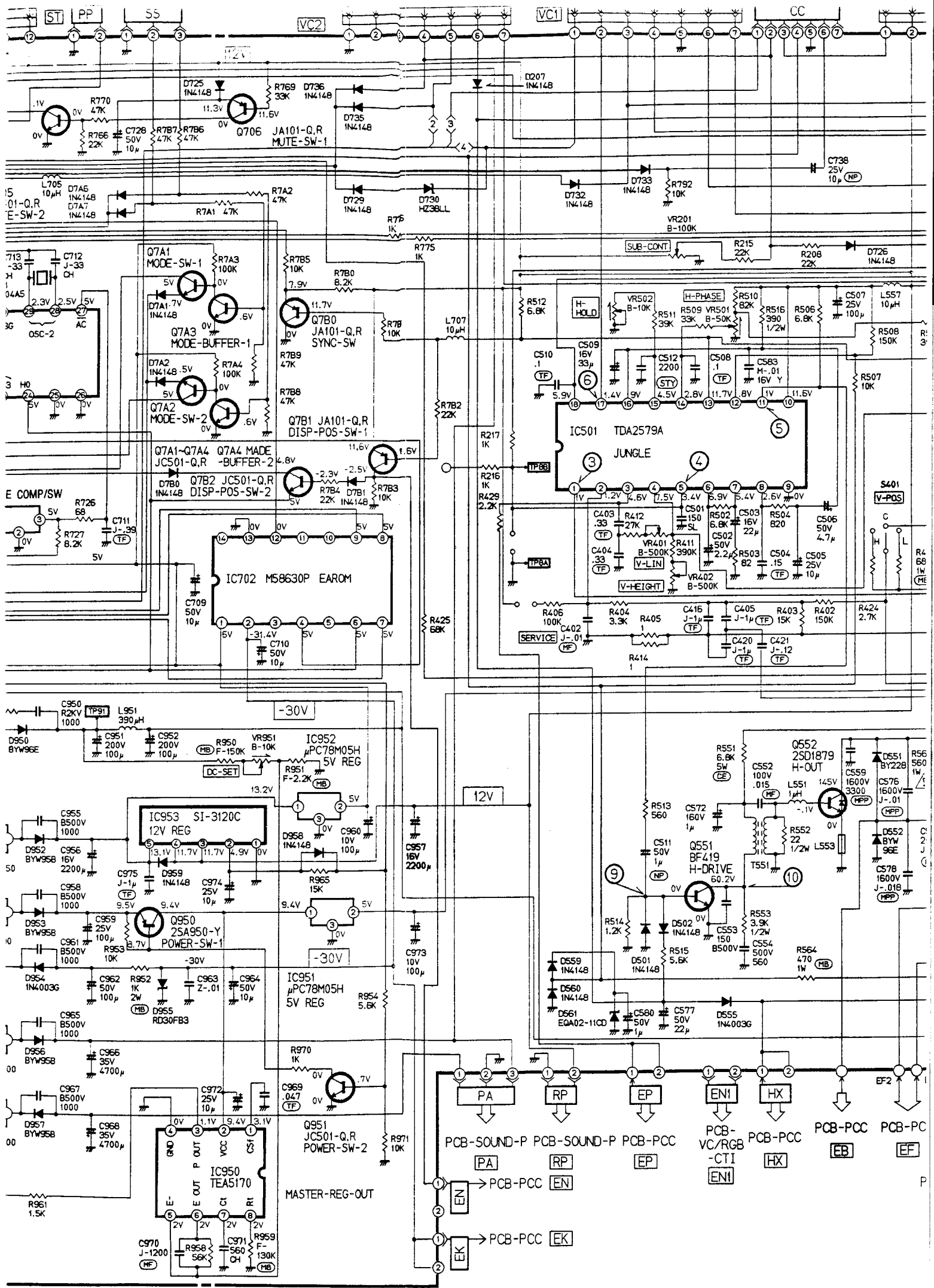
① 2Vp-p(H)

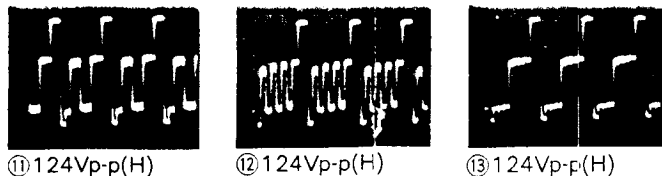


② 38Vp-p

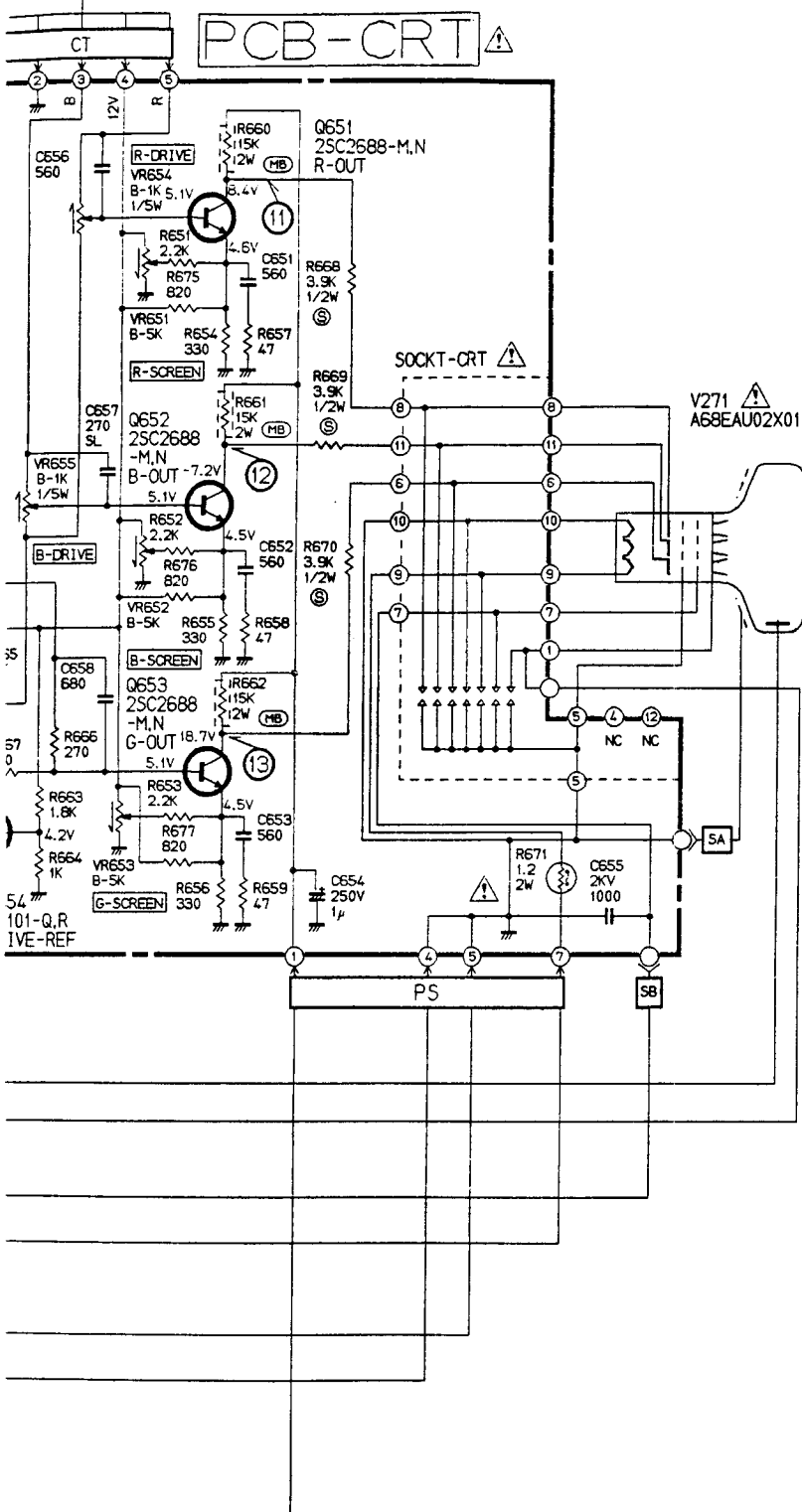








⑬ 124Vp-p(H)

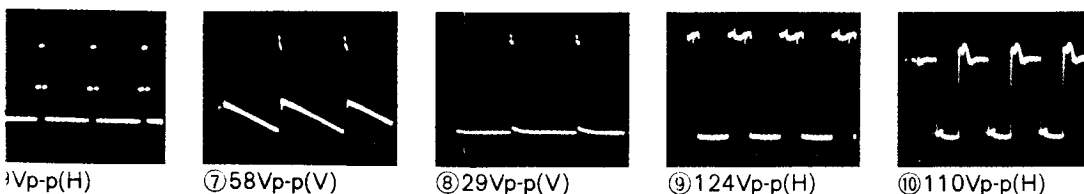


7. Capacitors, if not specifically designated are Ceramic capacitors except electrolytic capacitors.
8. The marks of capacitors are as follows:
- | | |
|----------|---|
| ALM | : Aluminum electrolytic capacitor |
| MF | : Polyester capacitor |
| PP | : Polypropylene film capacitor |
| TANT | : Tantalum capacitor |
| TF | : Twin film capacitor. |
| MF,PP | : Polyester polypropylene film capacitor. |
| MPP | : Metallized plastic film capacitor. |
| NP | : Non polarized electrolytic capacitor. |
| PS | : Styrol capacitor. |
| SC | : Semi conductor capacitor. |
| $\equiv$ | : Electrolytic capacitor |
9. The DC working voltage of capacitor, if not specifically designated is: 50V
10. The tolerance of capacitor value, if not specifically designated is:
- | | |
|------------|-------------------------|
| $\pm 10\%$ | for polyester capacitor |
| $\pm 5\%$ | for ceramic capacitor |
- and $J = \pm 5\%$ $K = \pm 10\%$ $M = \pm 20\%$ $P = \pm 100\%$
- $C = \pm 0.25PF$ $D = \pm 0.5PF$ $F = \pm 1PF$ $Z = \pm 80\%$ $N = \pm 30\%$

SPECIFIC SYMBOL	
	Zener Diode
	Varicap
	Posistor
	Thermistor
	Fusible Resistor
	Varistor
	Crystal unit
	Air Gap
	Part (resistor) attached on the copper-foil side of PCB
	Ceramic filter

NOTE 2:

1. DC voltages were measured from points indicated to the circuit ground with a high-Z voltmeter.
2. Waveforms were taken with offset PAL / SECAM colour bar signal.
3. This is a basic schematic diagram. Some sets may be subject to modification according to engineering improvement.



A

B

C

D

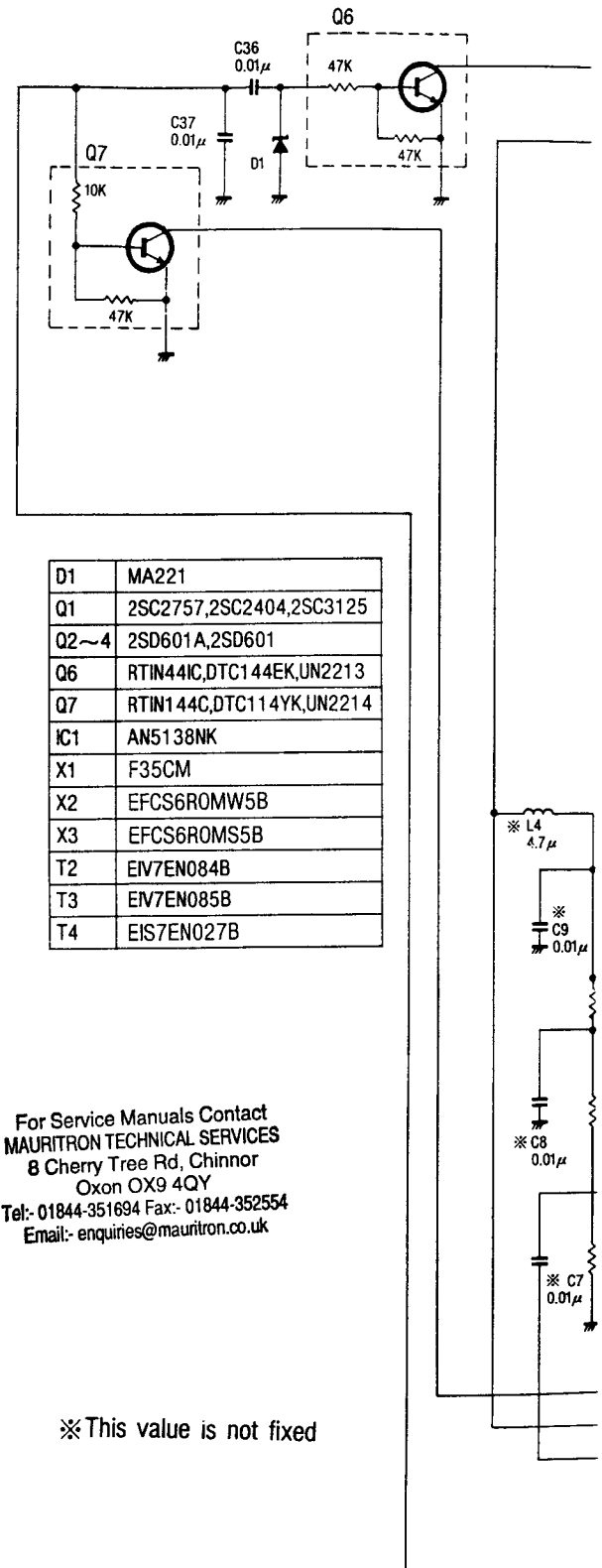
E

F

1

2

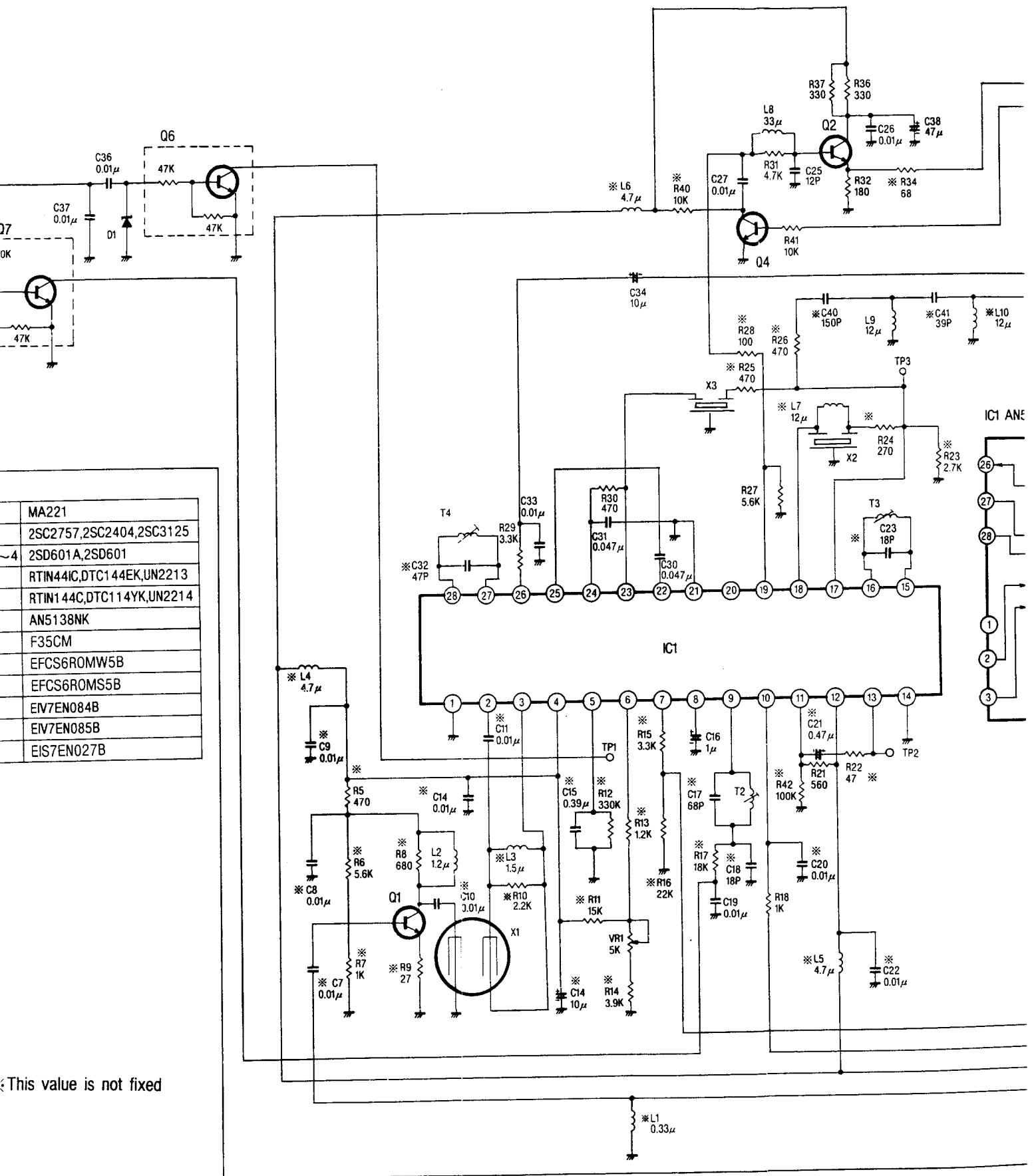
3



PCB-AV/RGB

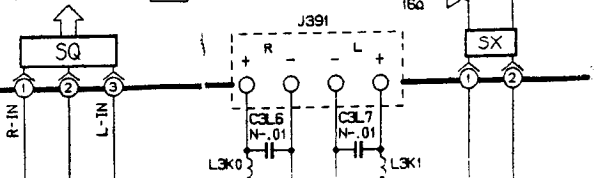
D3J7
1N4148

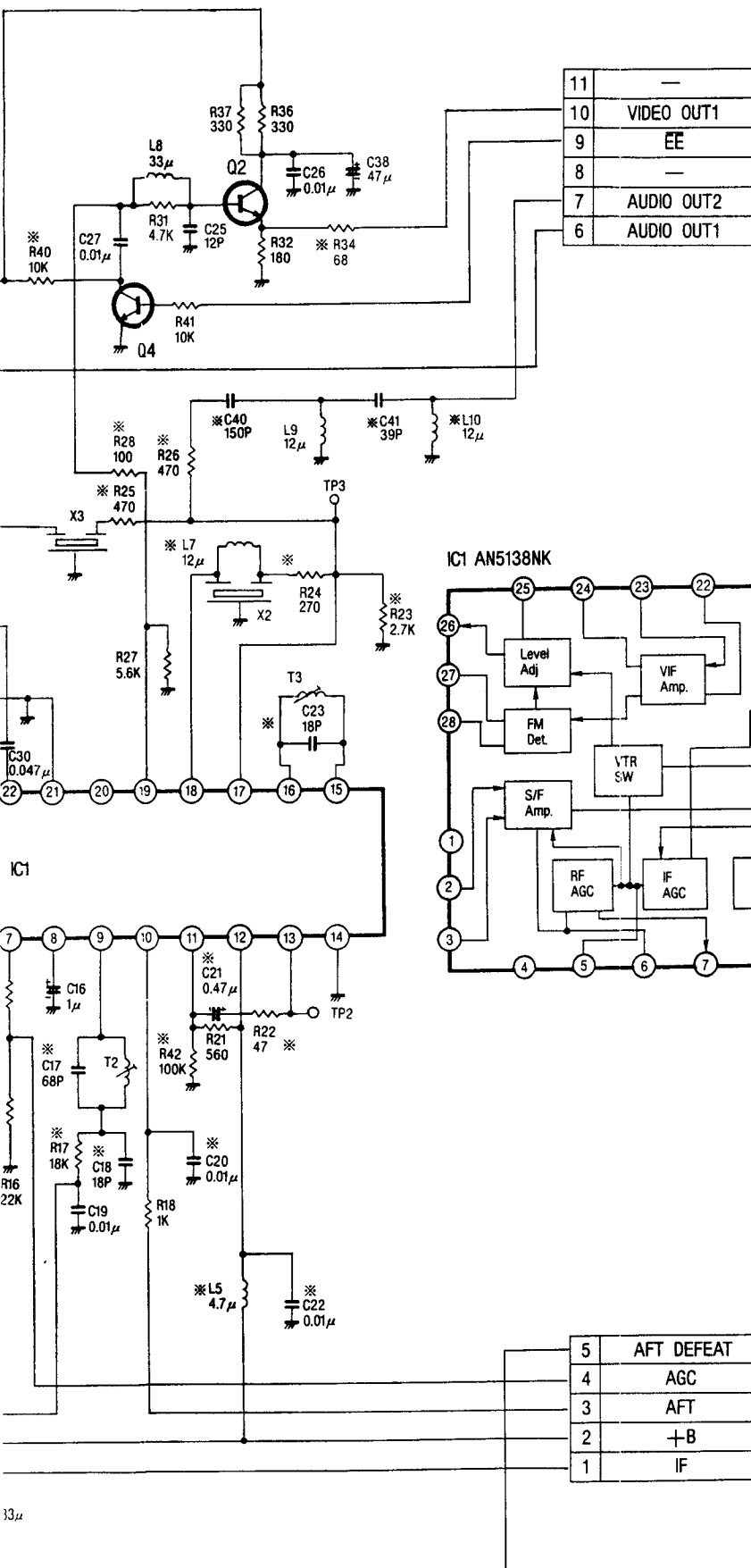
IP1A1 VIF-PACK



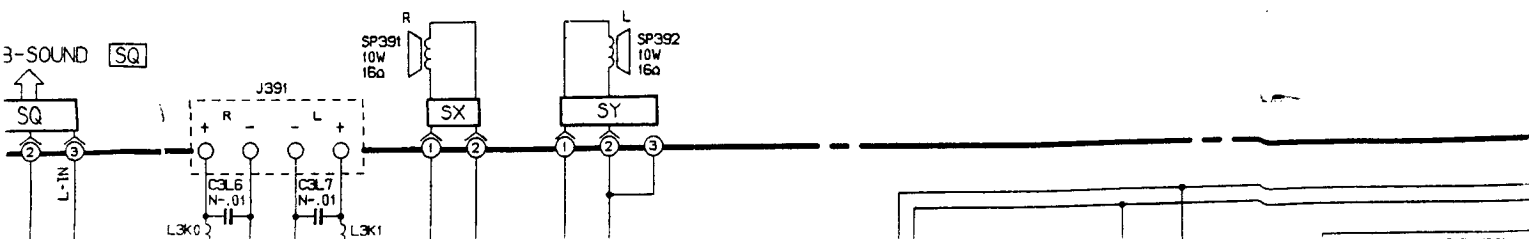
PCB-AV/RGB

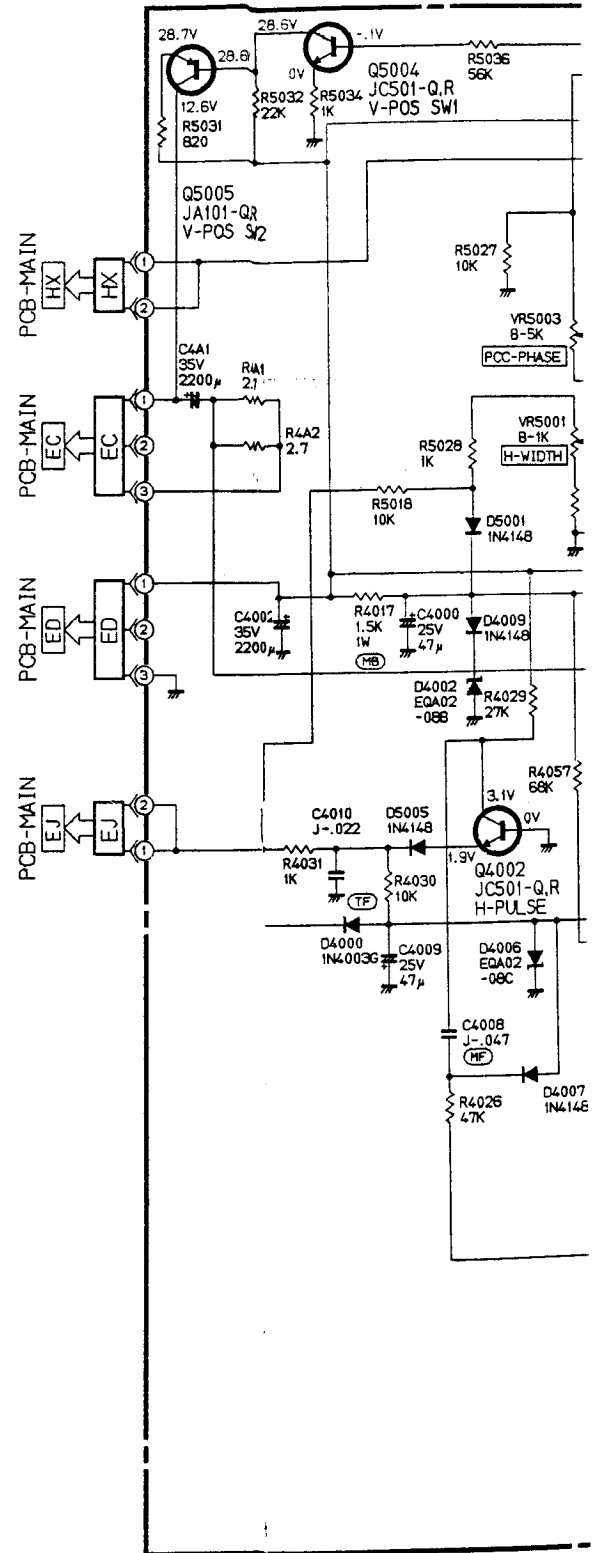
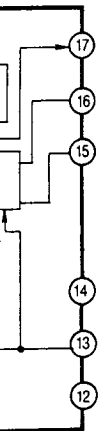
PCB-SOUND SQ

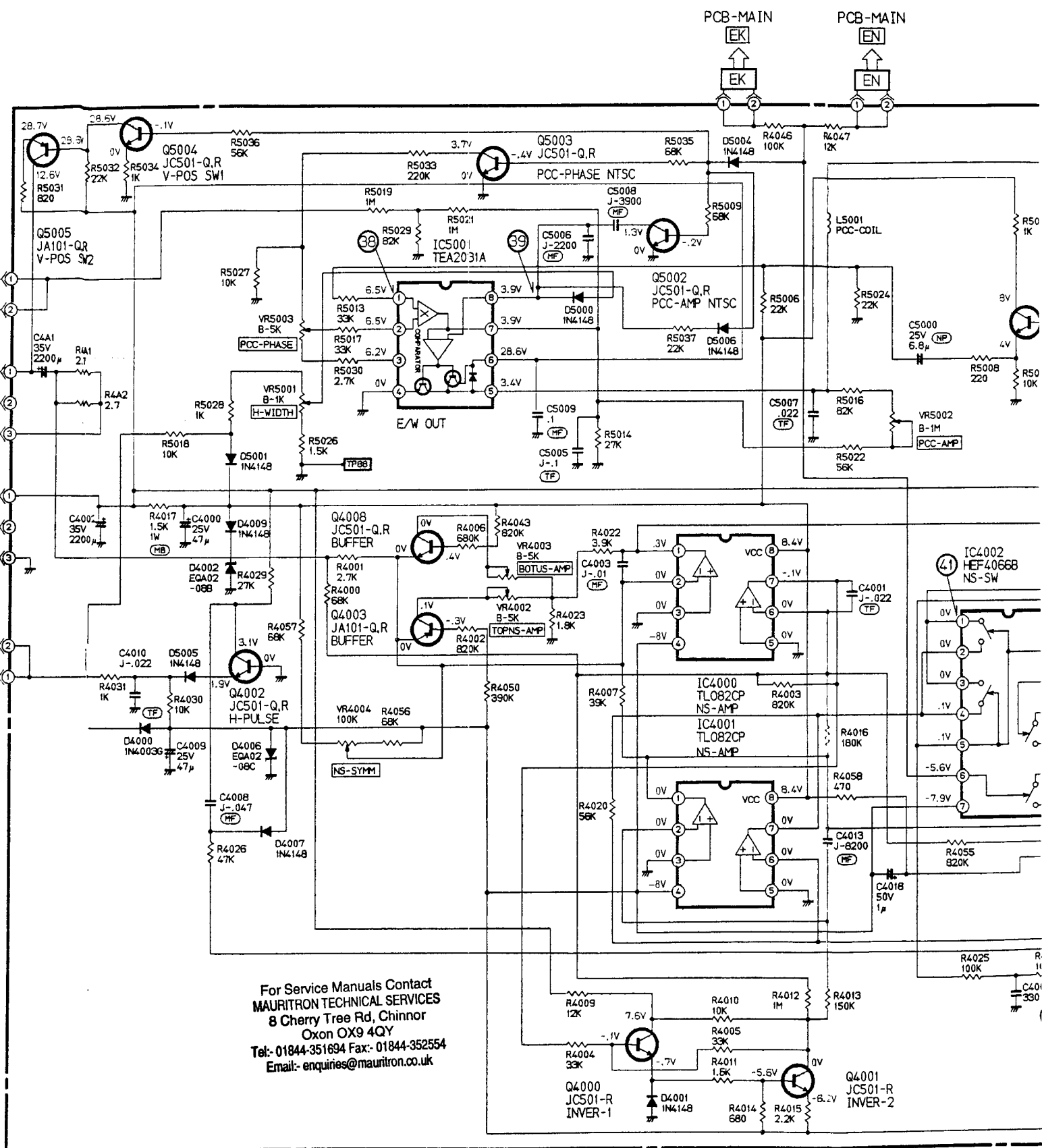


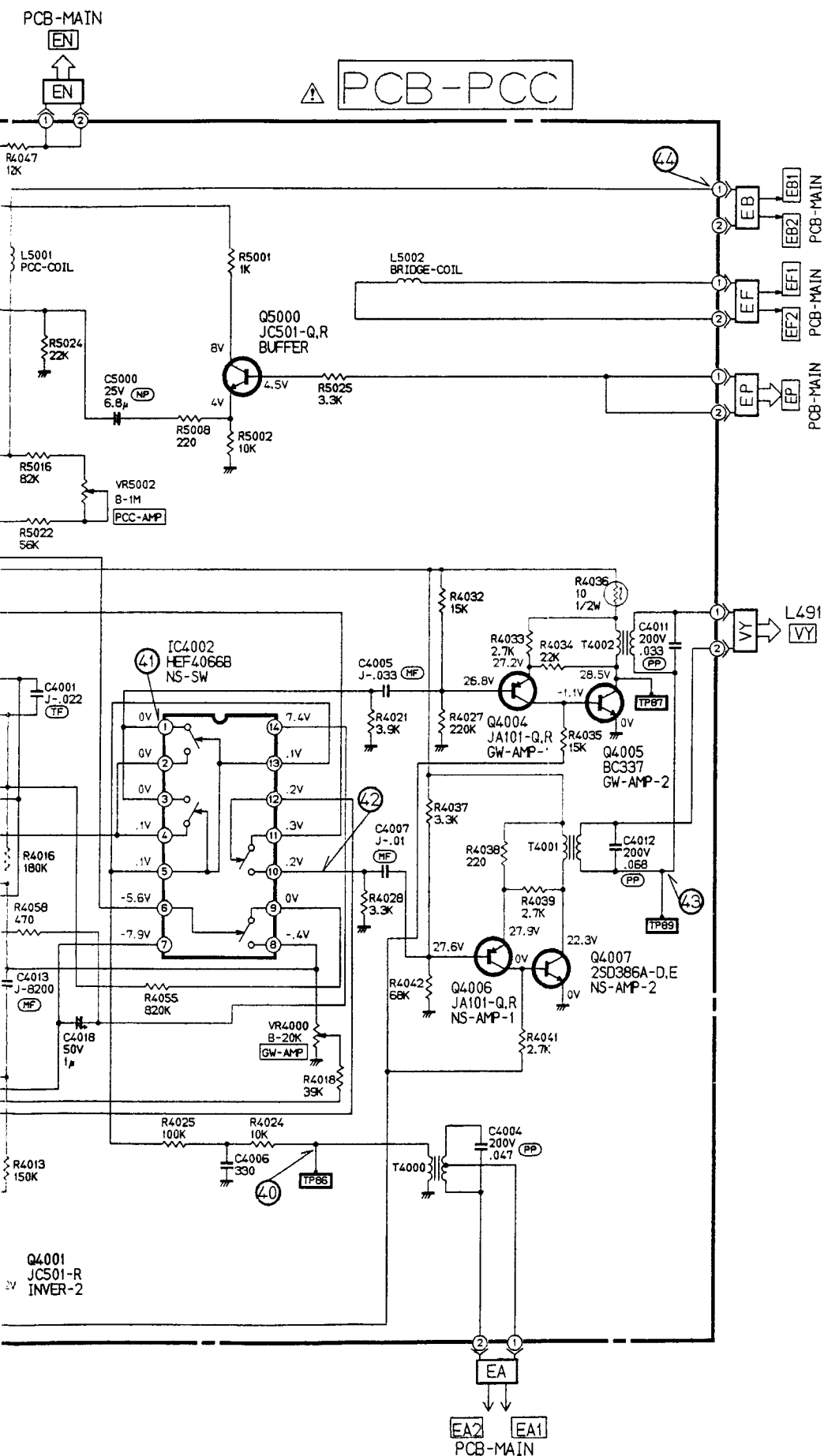


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PCB-AV/RGB

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F

G

H

J

PCB-LED
LD2

PCB-MAIN
VT

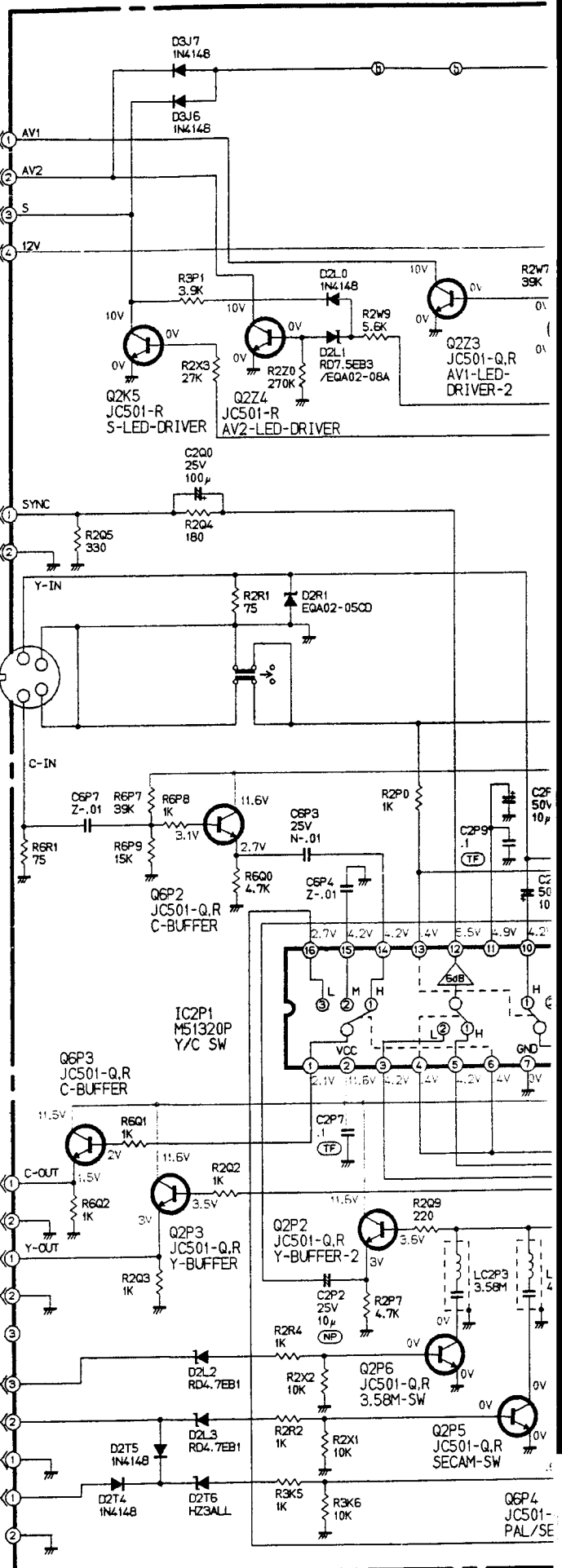
Y/C IN
J2P1

PCB-VC/RGB-CT1
CS

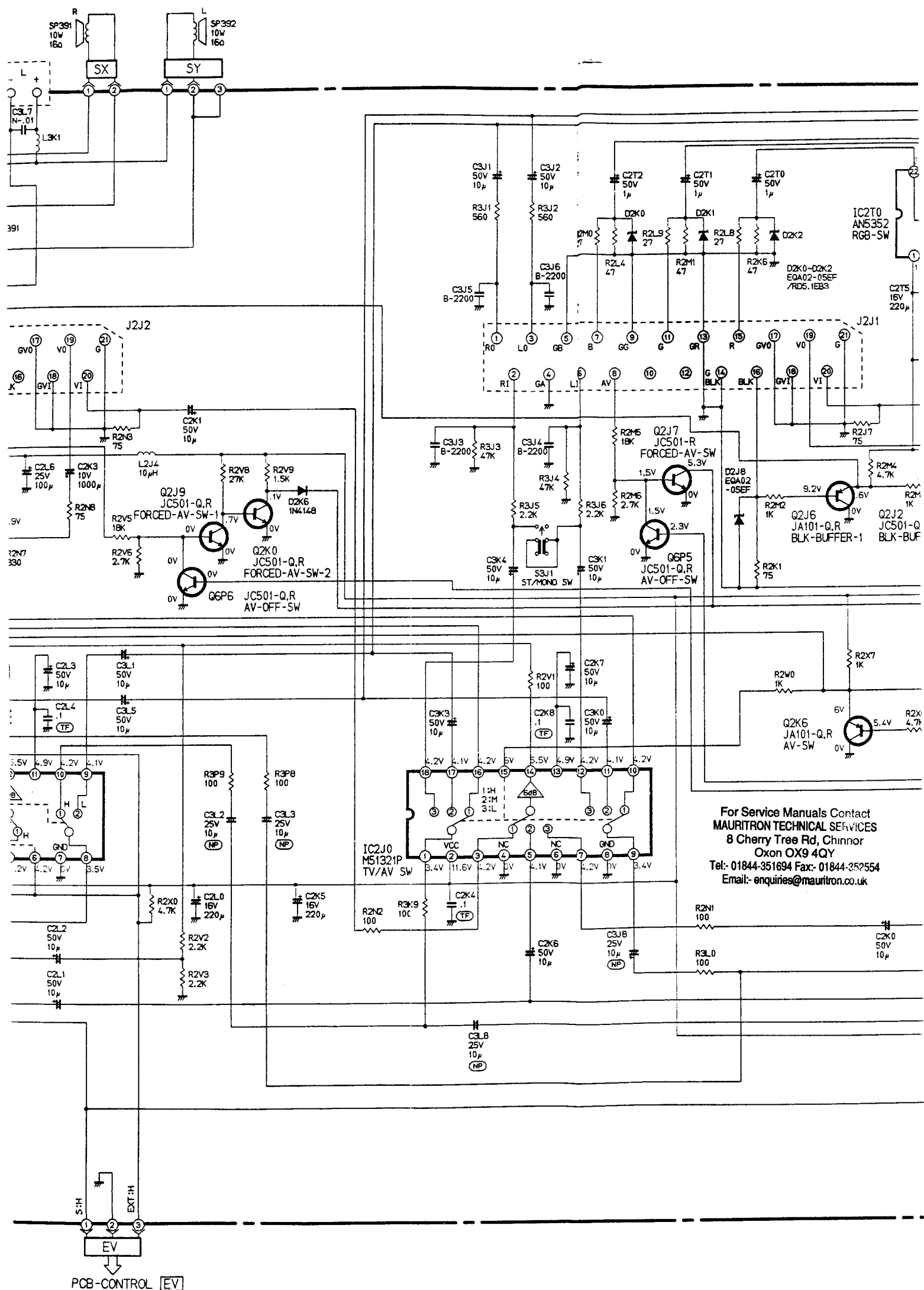
PCB-VC/RGB-CT1
YS

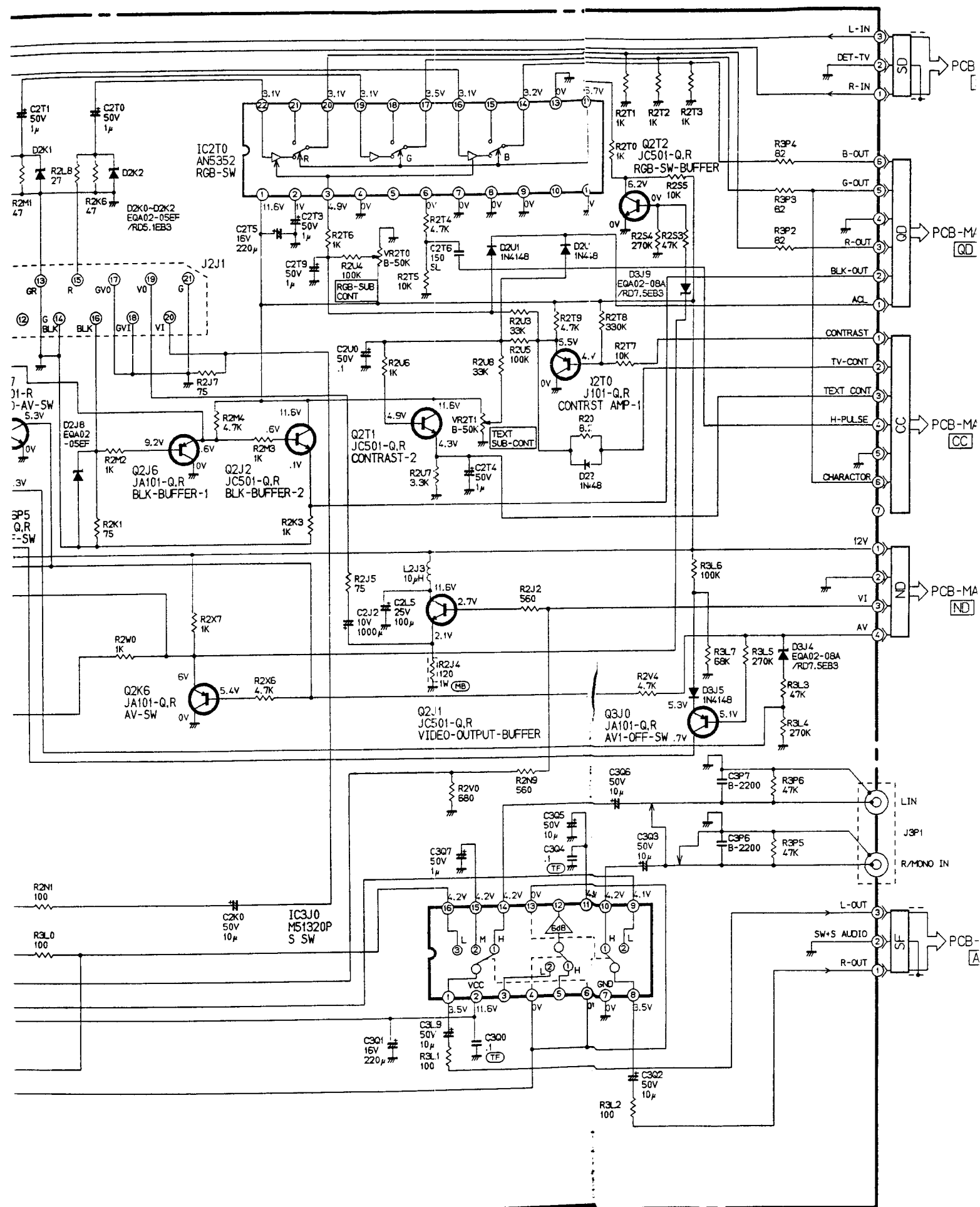
PCB-VC/RGB-CT1
NP

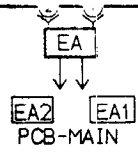
PCB-VC/RGB-CT1
NT



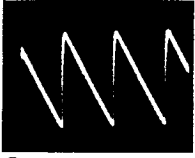








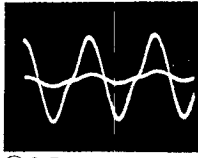
3(V)



39 2.8Vp-p(H)



40 45Vp-p(V)



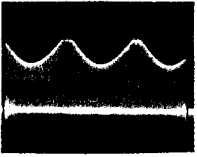
41 9.5Vp-p(V)



42(V)

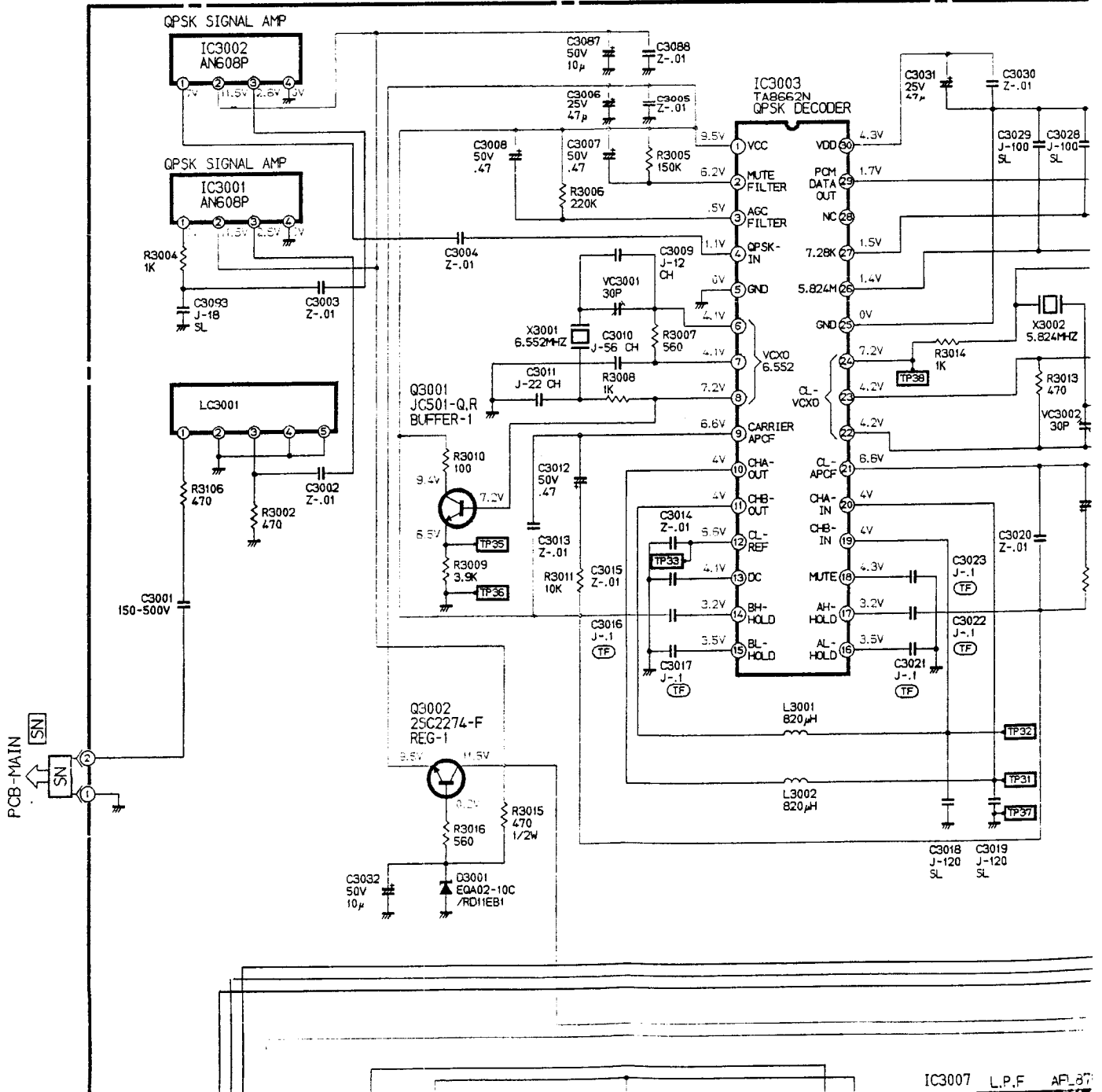
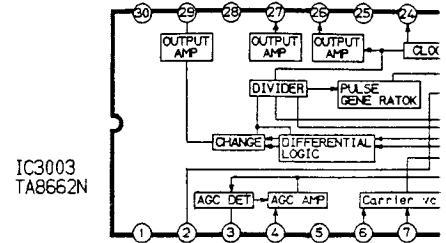
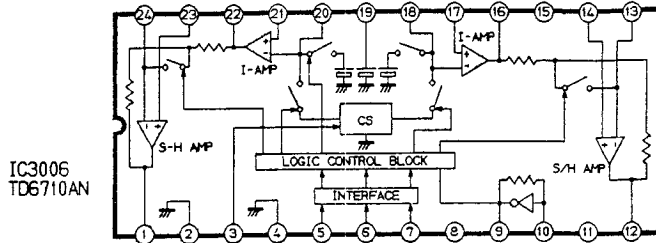


43 130Vp-p(V)

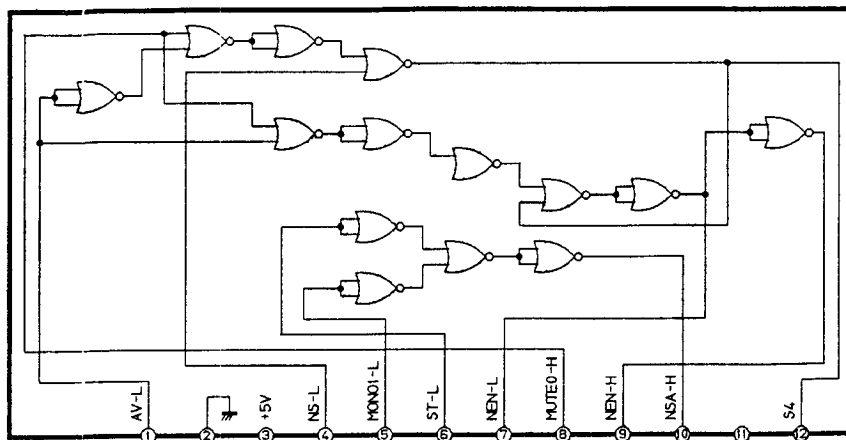


44 220Vp-p(V)

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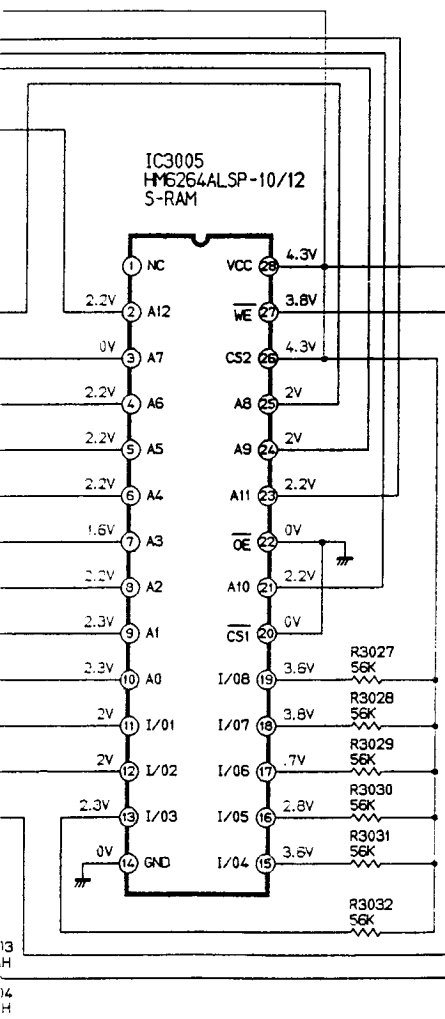


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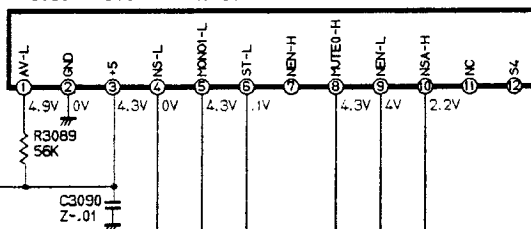
PCB-MAIN

SS

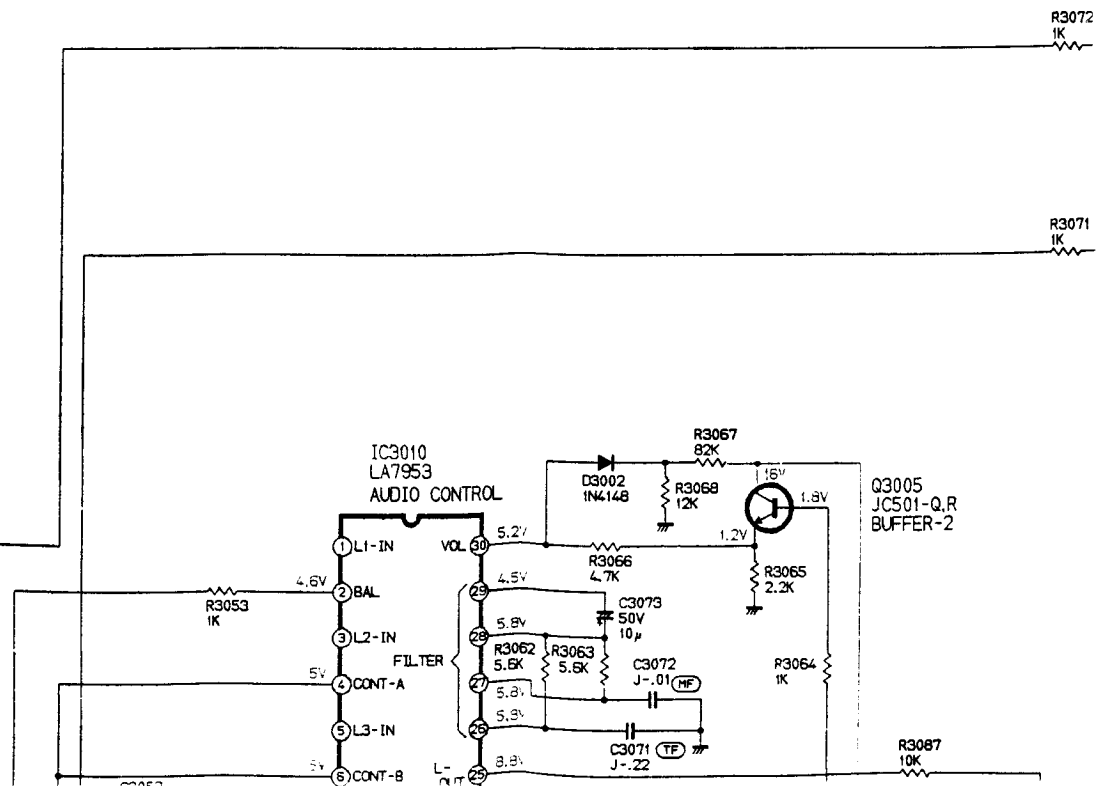
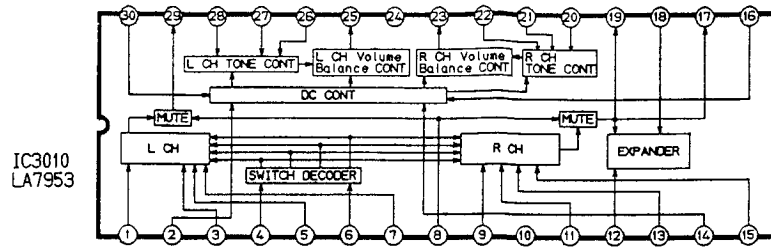
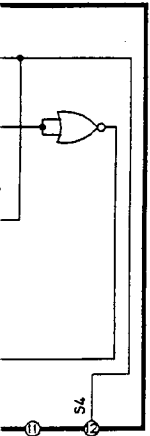
SS



IC3011 B081-1 LOGIC PROCESS

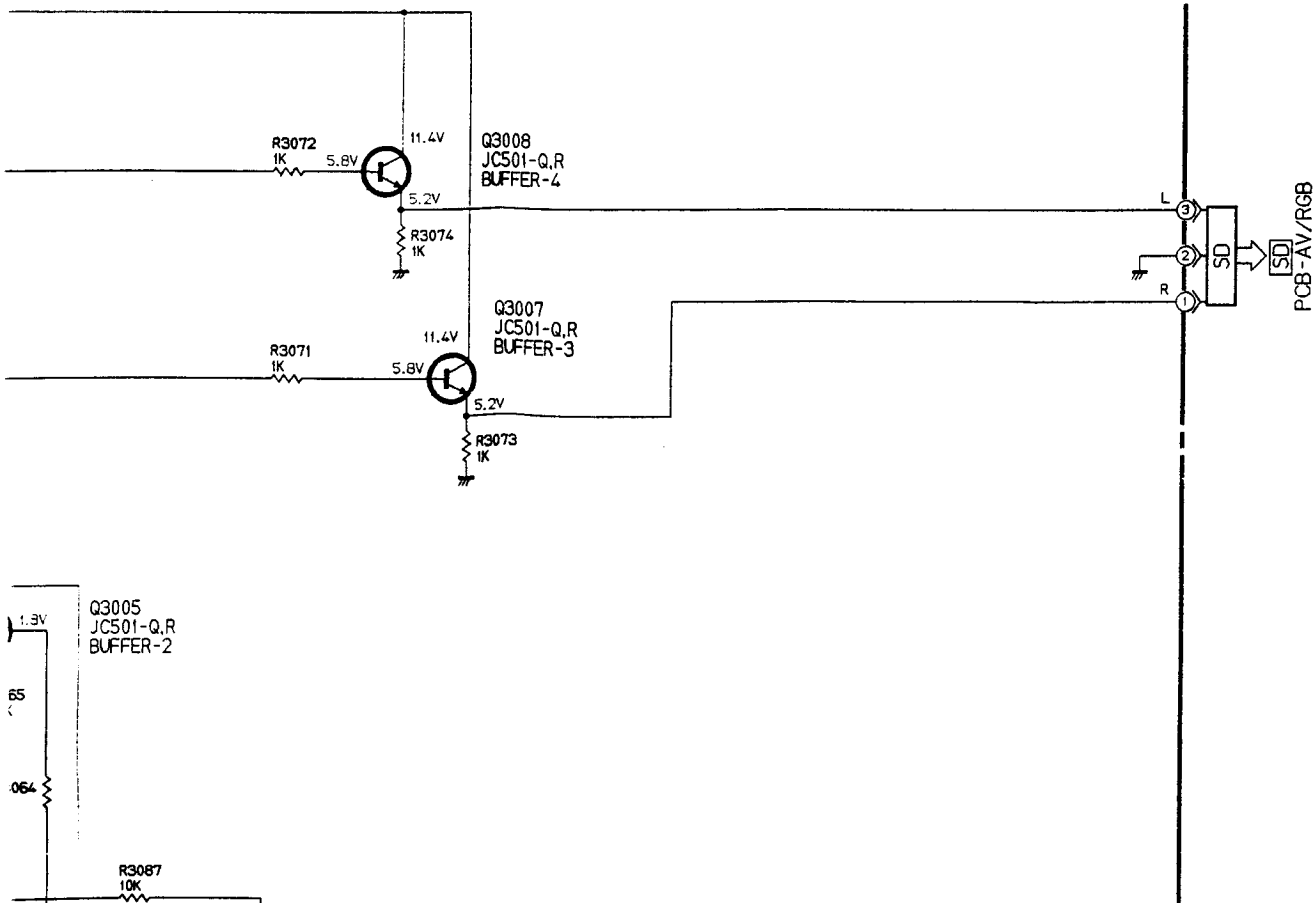


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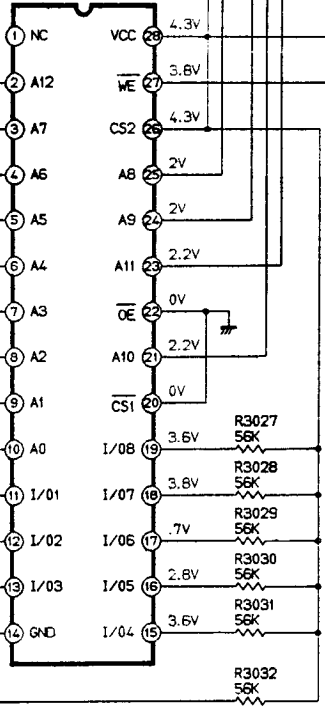


⚠ PCB-NICAM

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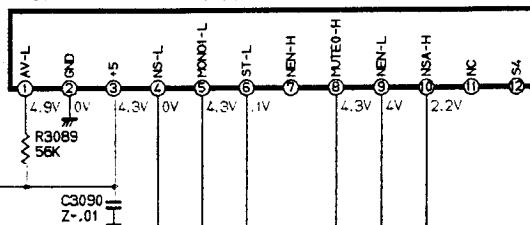
IC3005
HM6264ALSP-10/12
S-RAM



L3003
100μH

L3004
100μH

IC3011 B081-1 LOGIC PROCESS



R3089
56K

C3090
Z= .01

R3027
56K

R3028
56K

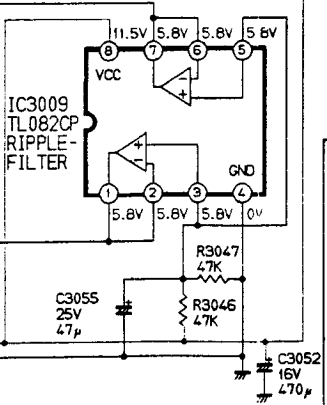
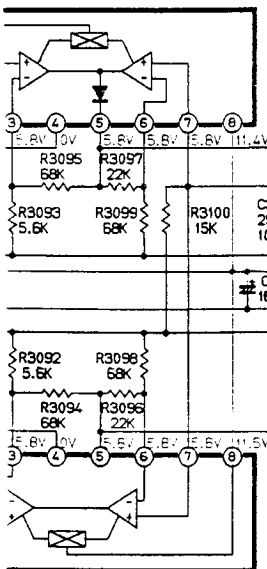
R3029
56K

R3030
56K

R3031
56K

R3032
56K

15201L AUDIO-SW



R3082
1K

R3081
56K

0V

0V

Q3011
JC501-Q,R
SW-5

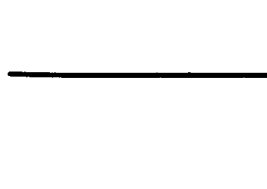
R3083
1K

.7V

R3050
560

R3051
47K

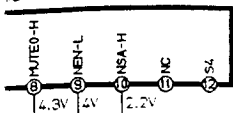
201L AUDIO-SW



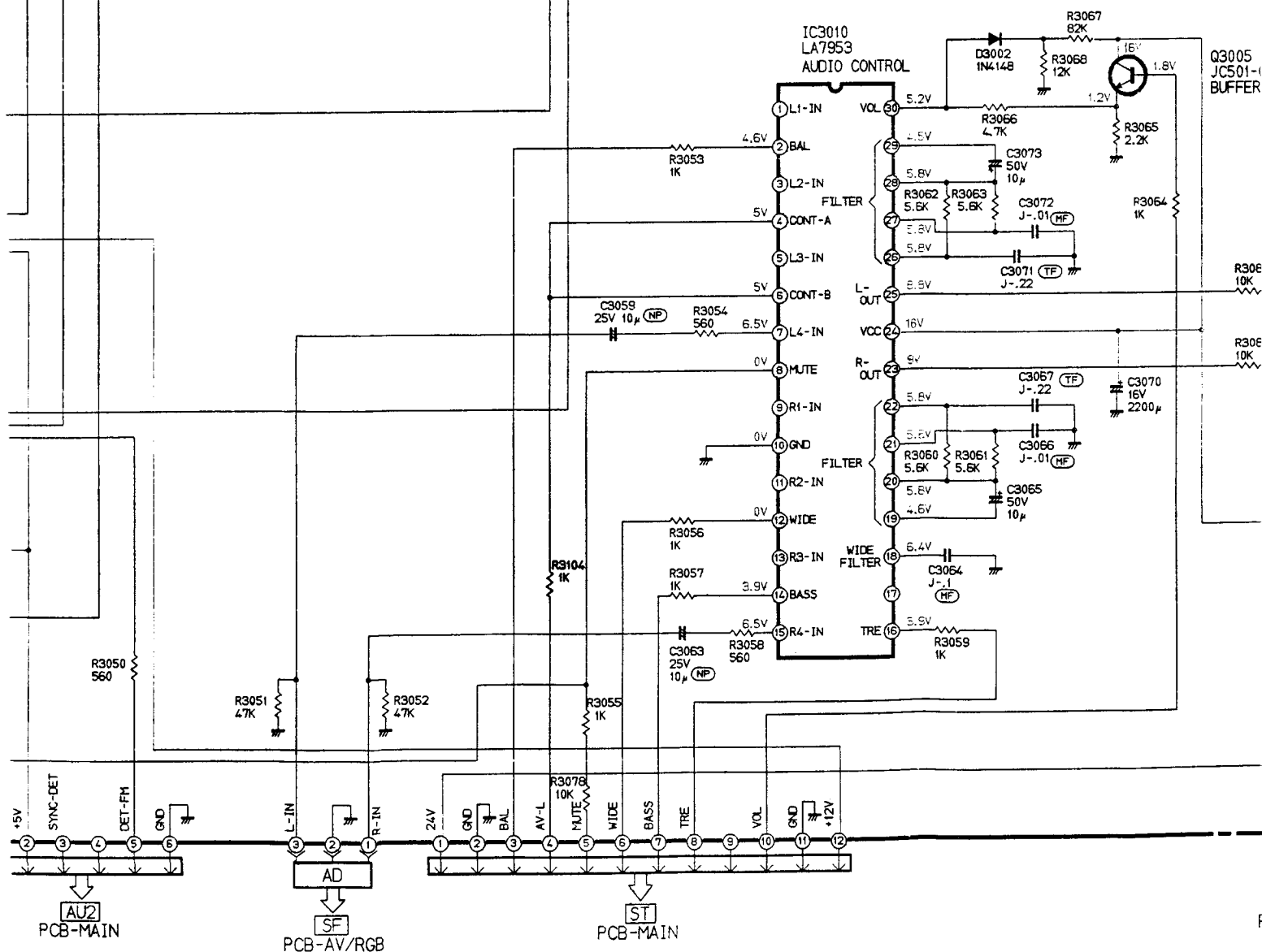
PCB-CONTROL

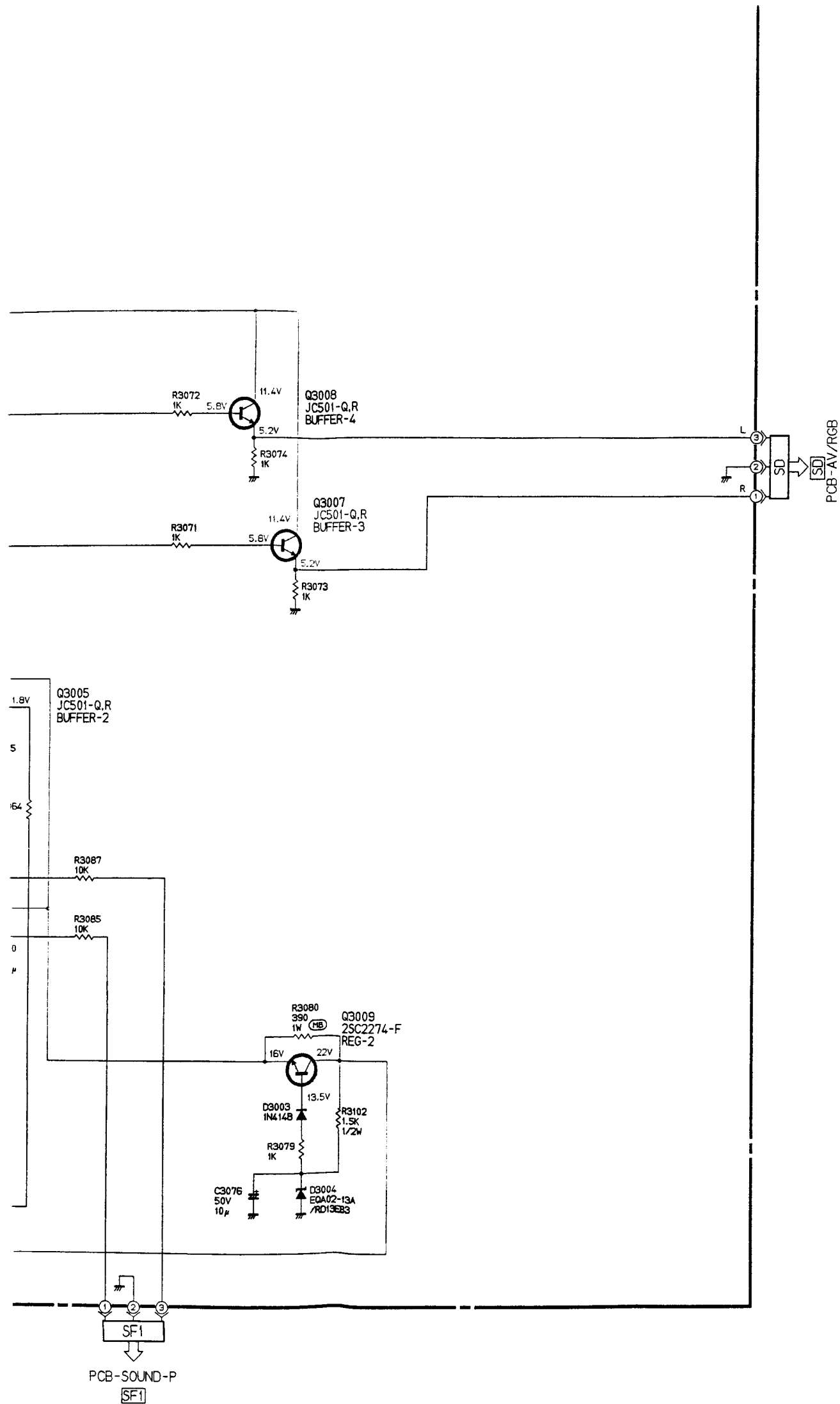
PCB-MAIN

PCB-AV/RGB

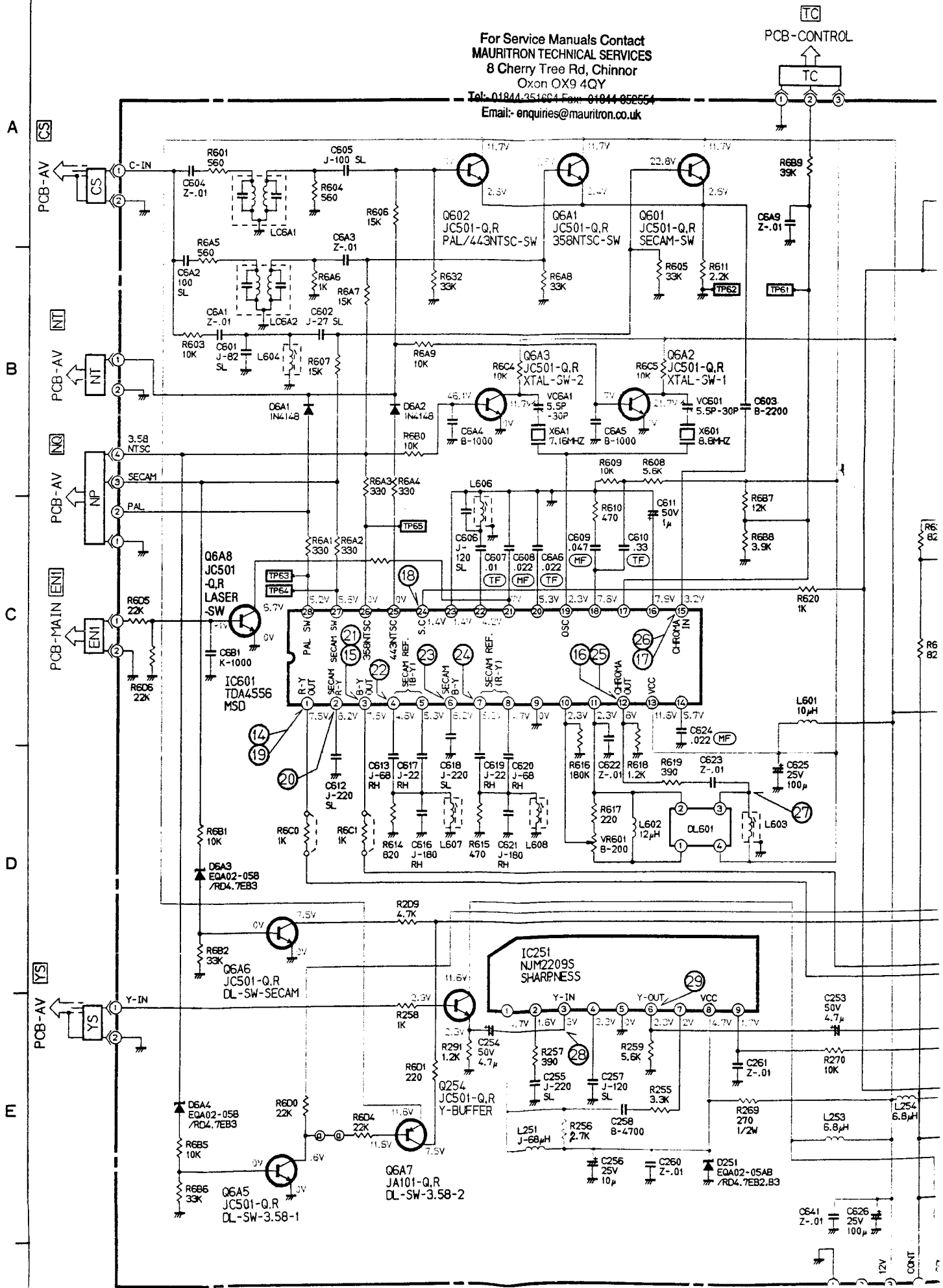


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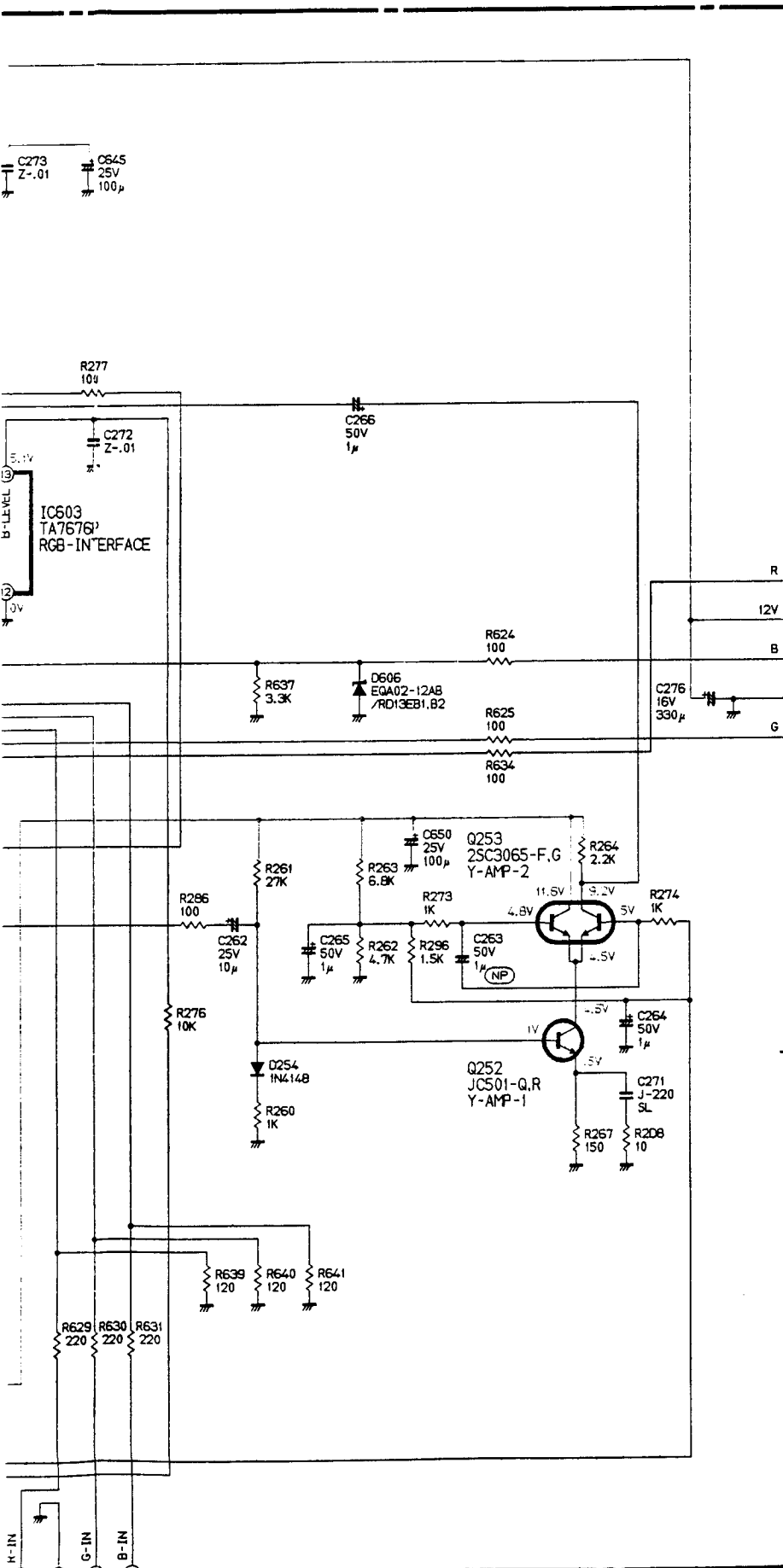




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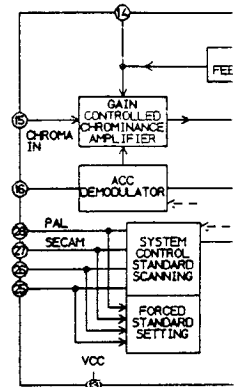


V/C/RGB-CTI

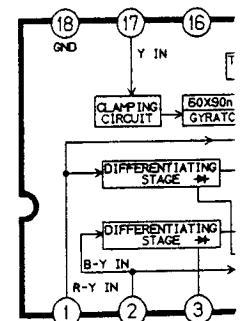


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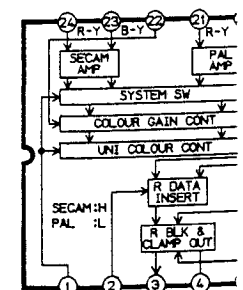
IC601
TDA4556



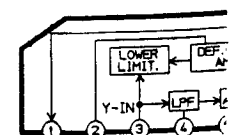
IC602
TDA4565

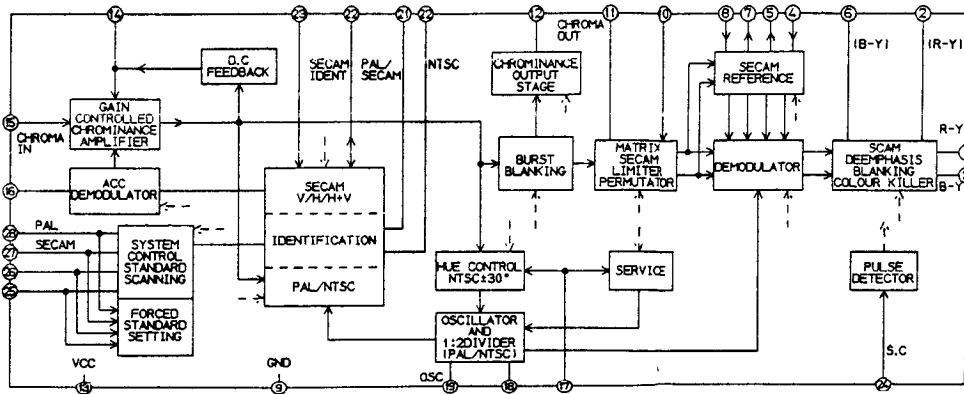
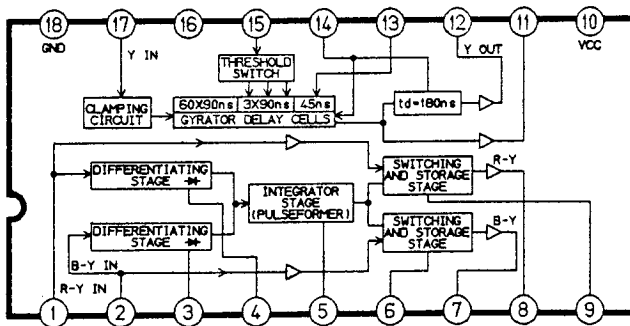
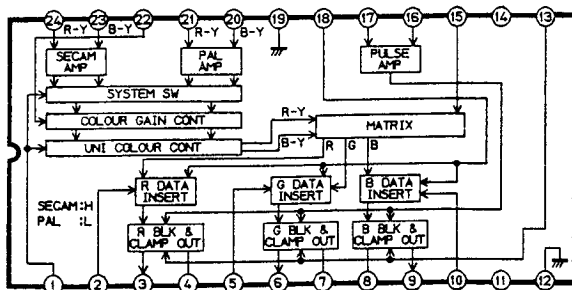
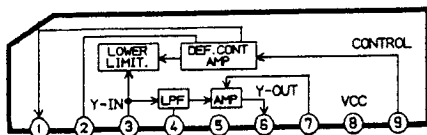


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TA7676P

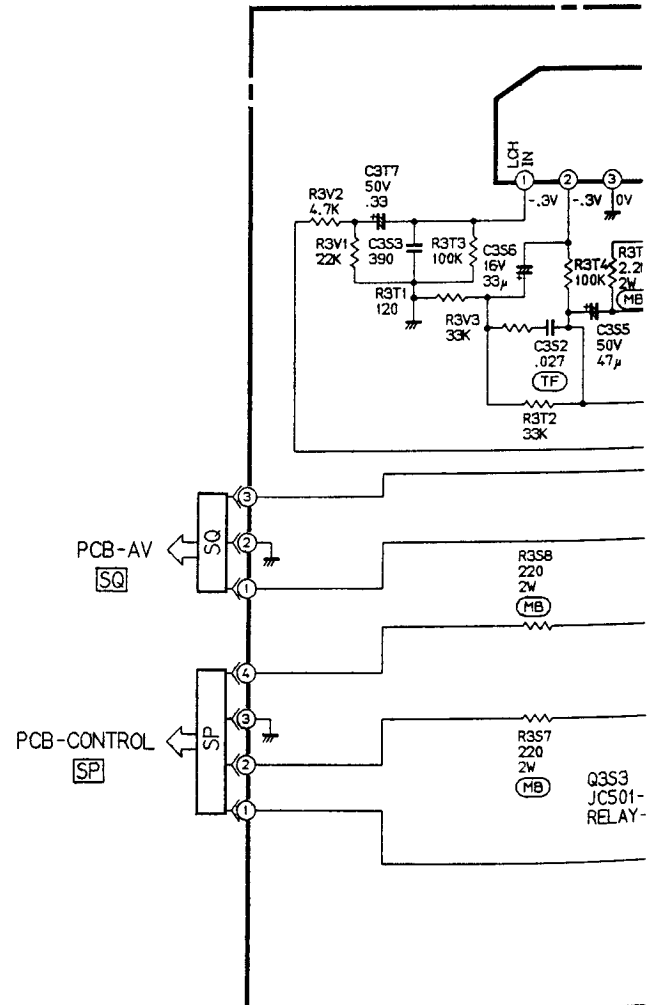


IC251
NJM2209S



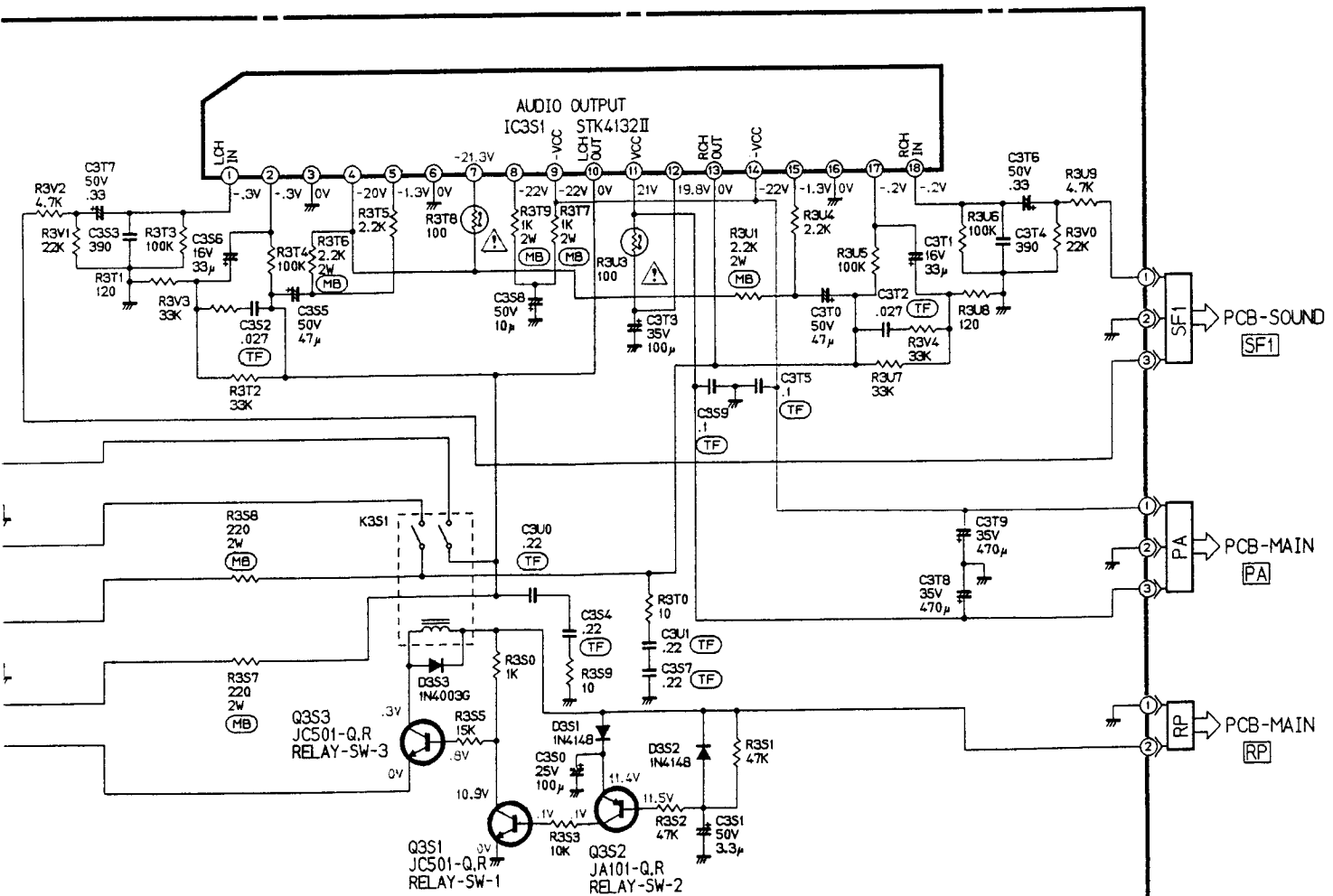
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TDA4556IC602
TDA4565IC603
TA7676PIC251
NJM2209S

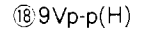
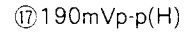
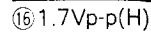
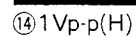
PCB - S



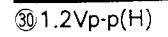
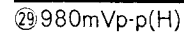
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

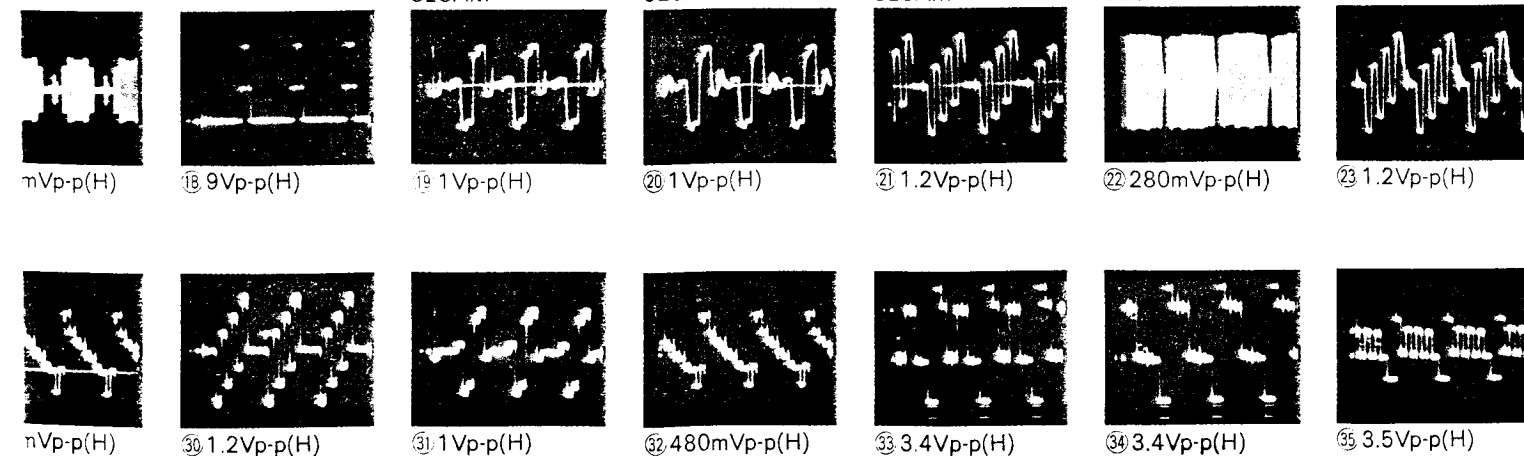
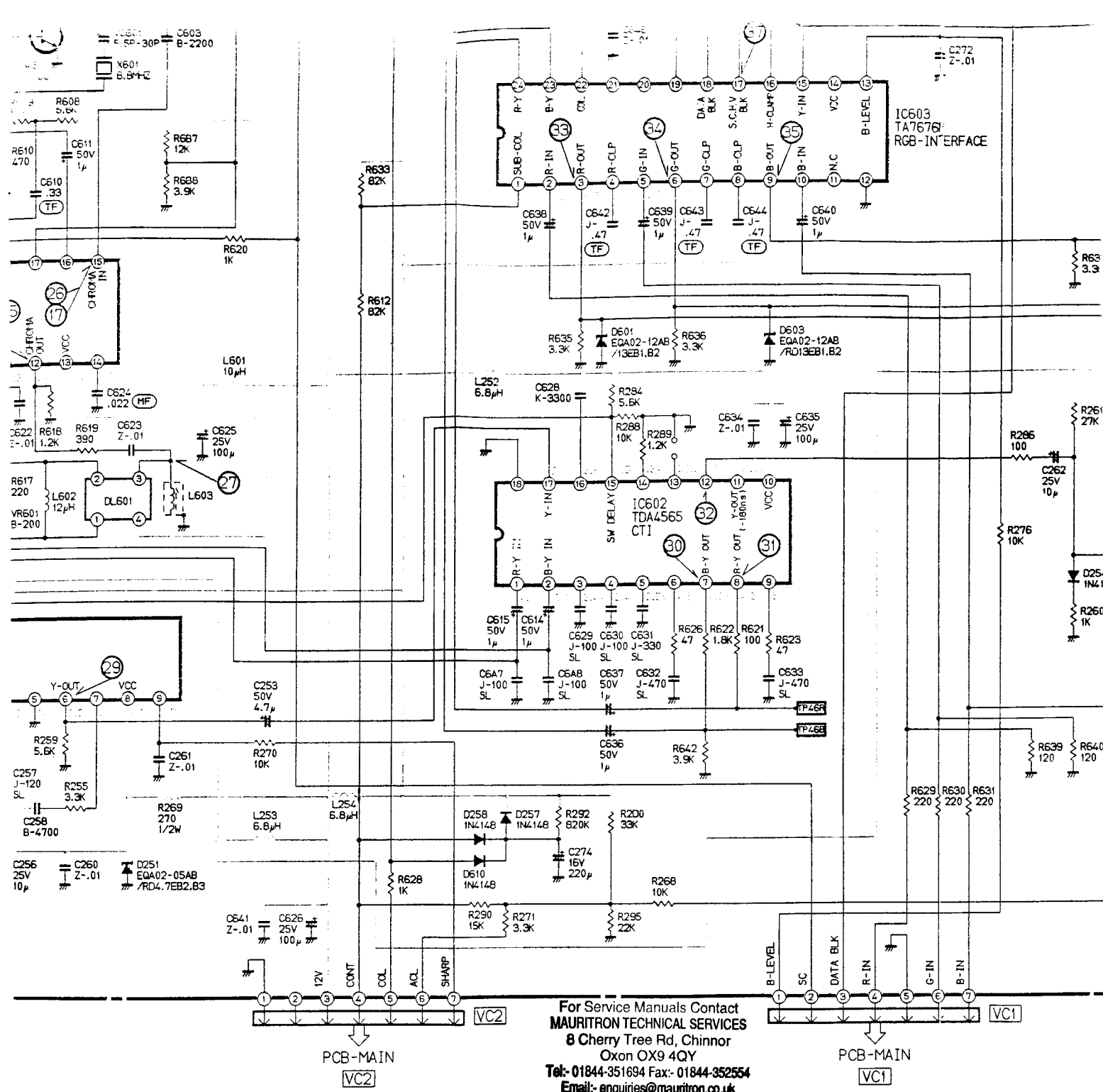
PCB - SOUND - P



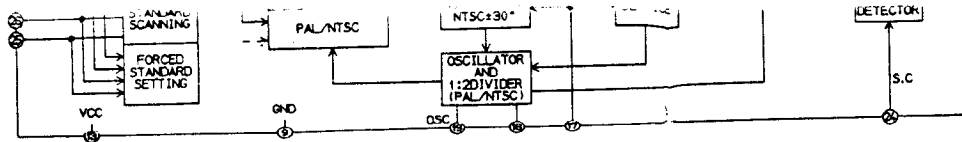


②6 70mVp-p(H)

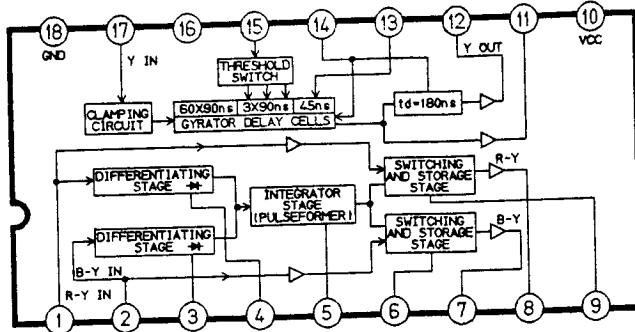




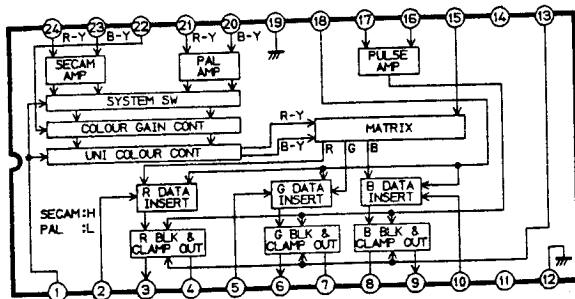
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TDA4556



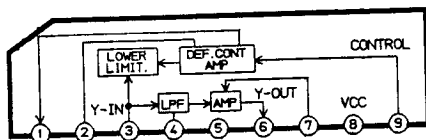
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TDA4565



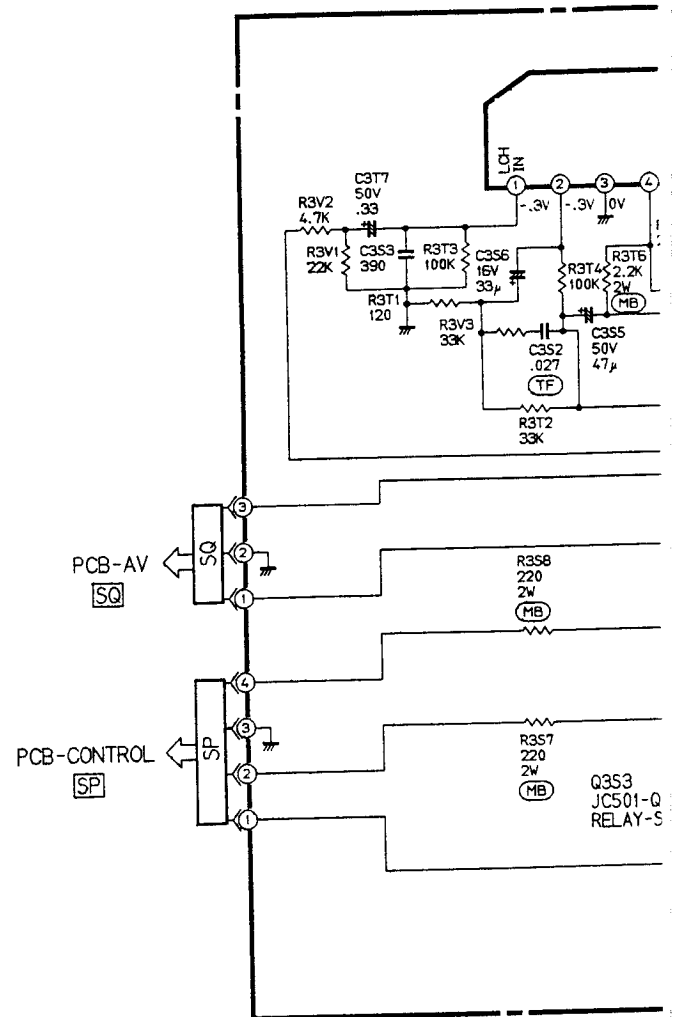
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IC251
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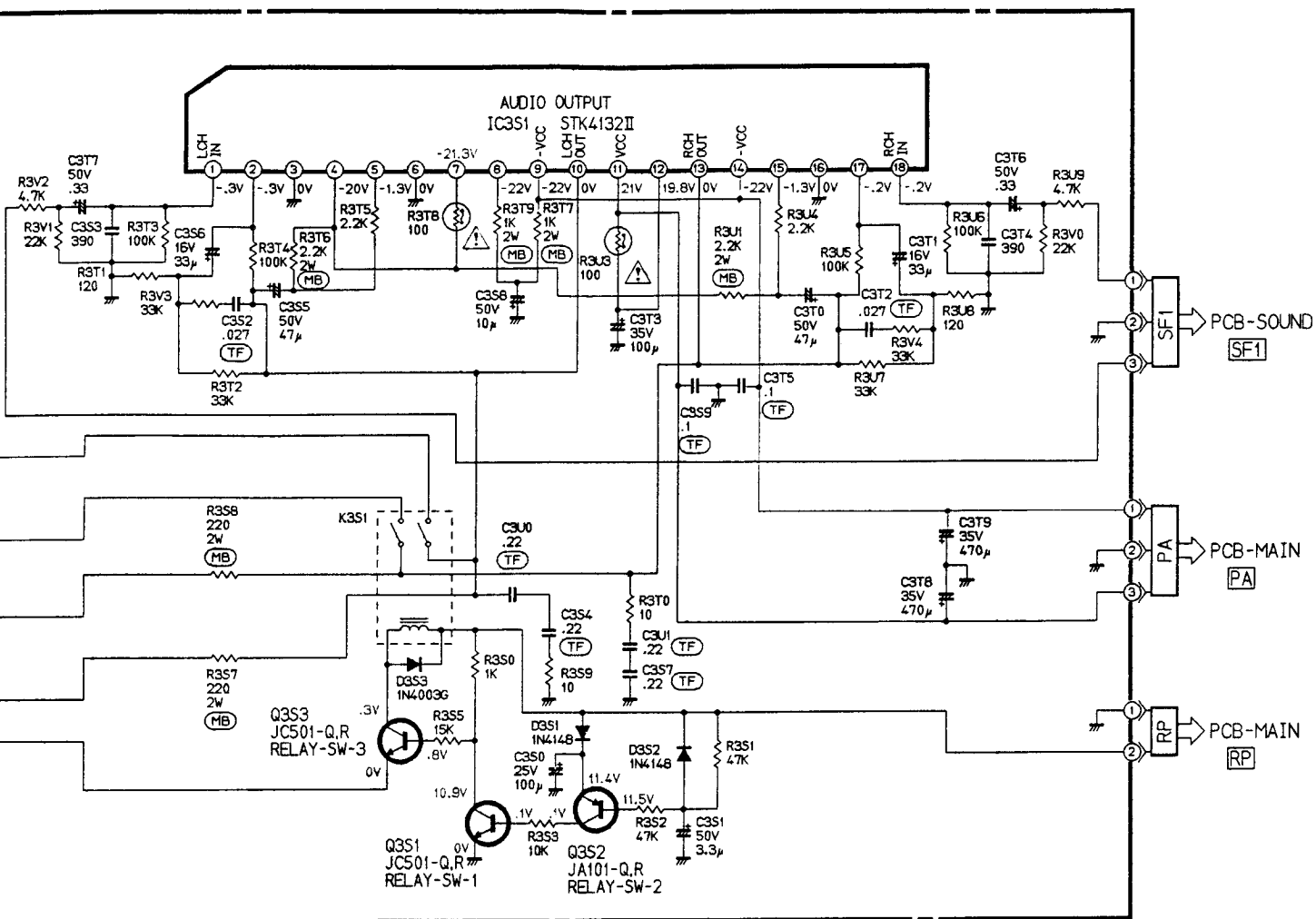


PCB-SC



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Oxon OX9 4QY
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PCB - SOUND - P



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 Oxon OX9 4QY
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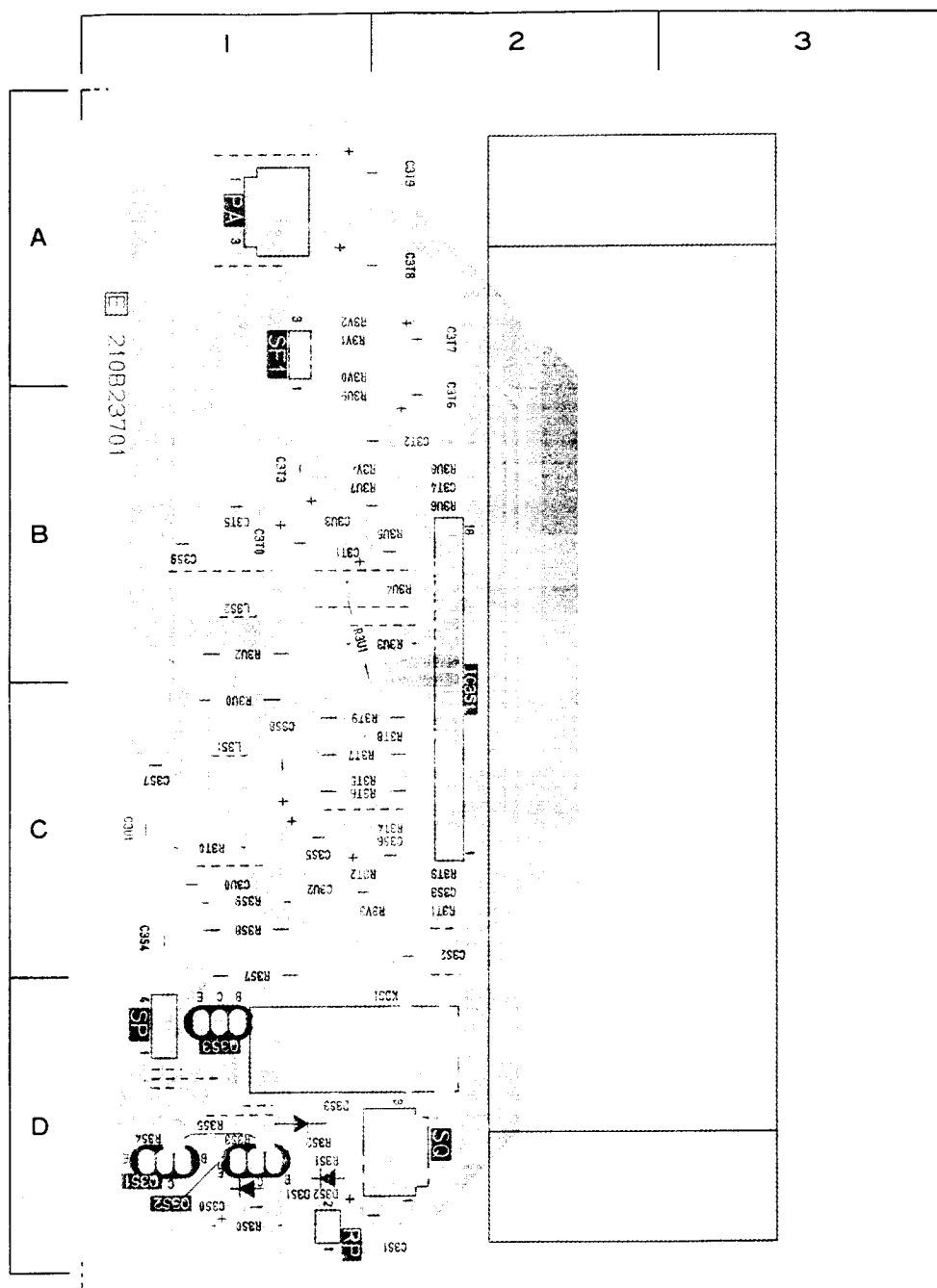
F 240A66701

CMK-140X57A

PCB-MAIN

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8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel: 01844-351694 Fax: 01844-352554
Email: enquiries@mauritron.co.uk**

SYMBOL NO.	ADDRESS
Q553	E- 4
Q701	A- 6
Q702	B- 5
Q703	B- 5
Q704	B- 5
Q705	C- 6
Q706	C- 6
Q707	B- 4
Q7A1	A- 6
Q7A2	A- 7
Q7A3	A- 6
Q7A4	A- 7
Q7A5	B- 7
Q7B0	B- 6
Q7B1	A- 4
Q7B2	A- 4
Q901	B- 1
Q950	A- 3
Q951	A- 3
TP11	D- 5
TP1M	D- 6
TP1N	D- 6
TP8A	E- 4
TP8B	D- 4
TP91	C- 3
VR1D0	C- 5
VR201	E- 4
VR202	E- 5
VR401	D- 4
VR402	D- 3
VR501	E- 3
VR502	E- 4
VR701	B- 5
VR901	C- 2
VR951	C- 3
VR952	A- 3
1	A- 5
2	D- 4



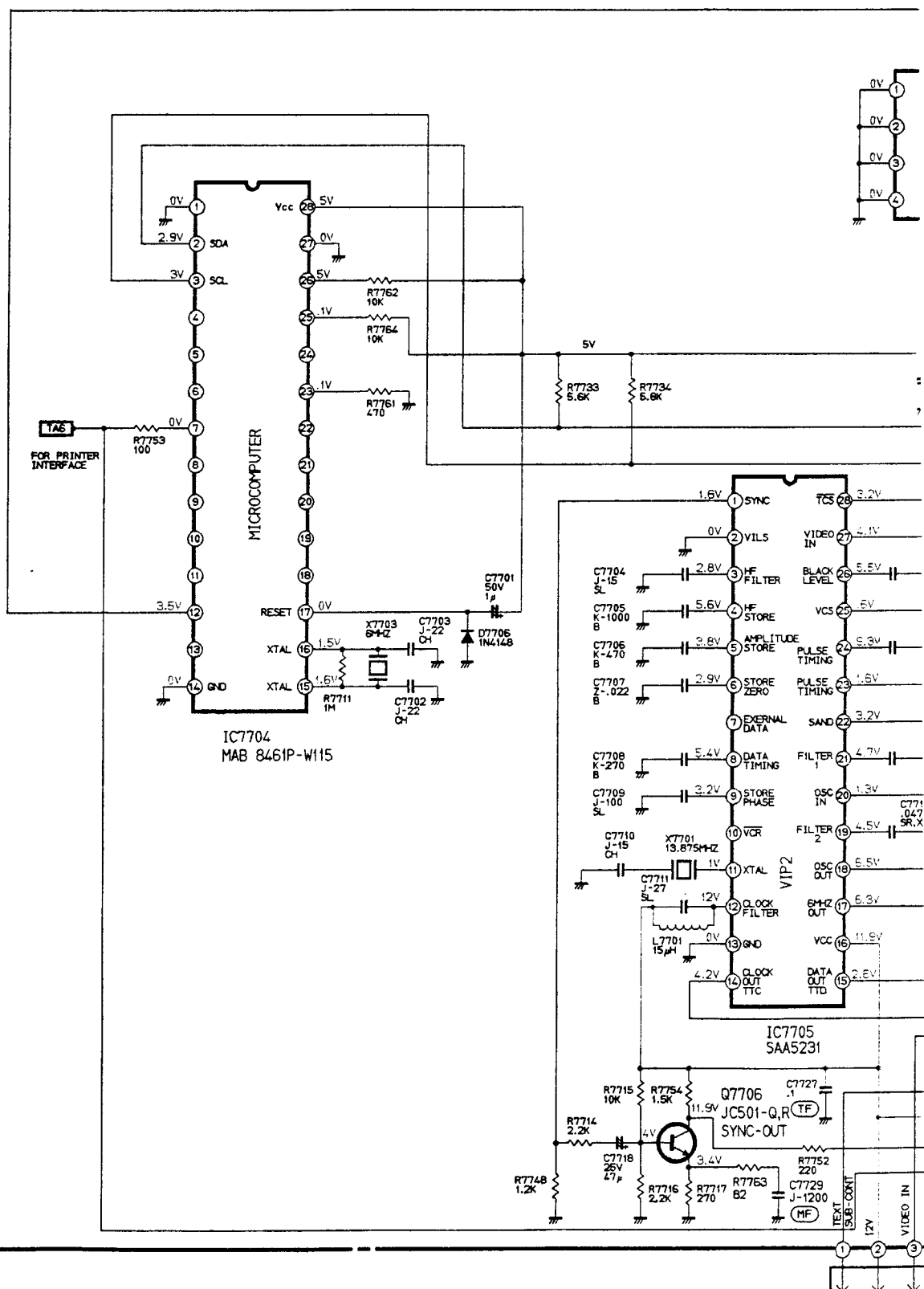
PCB-SOUND-P

PCB – SOUND – P

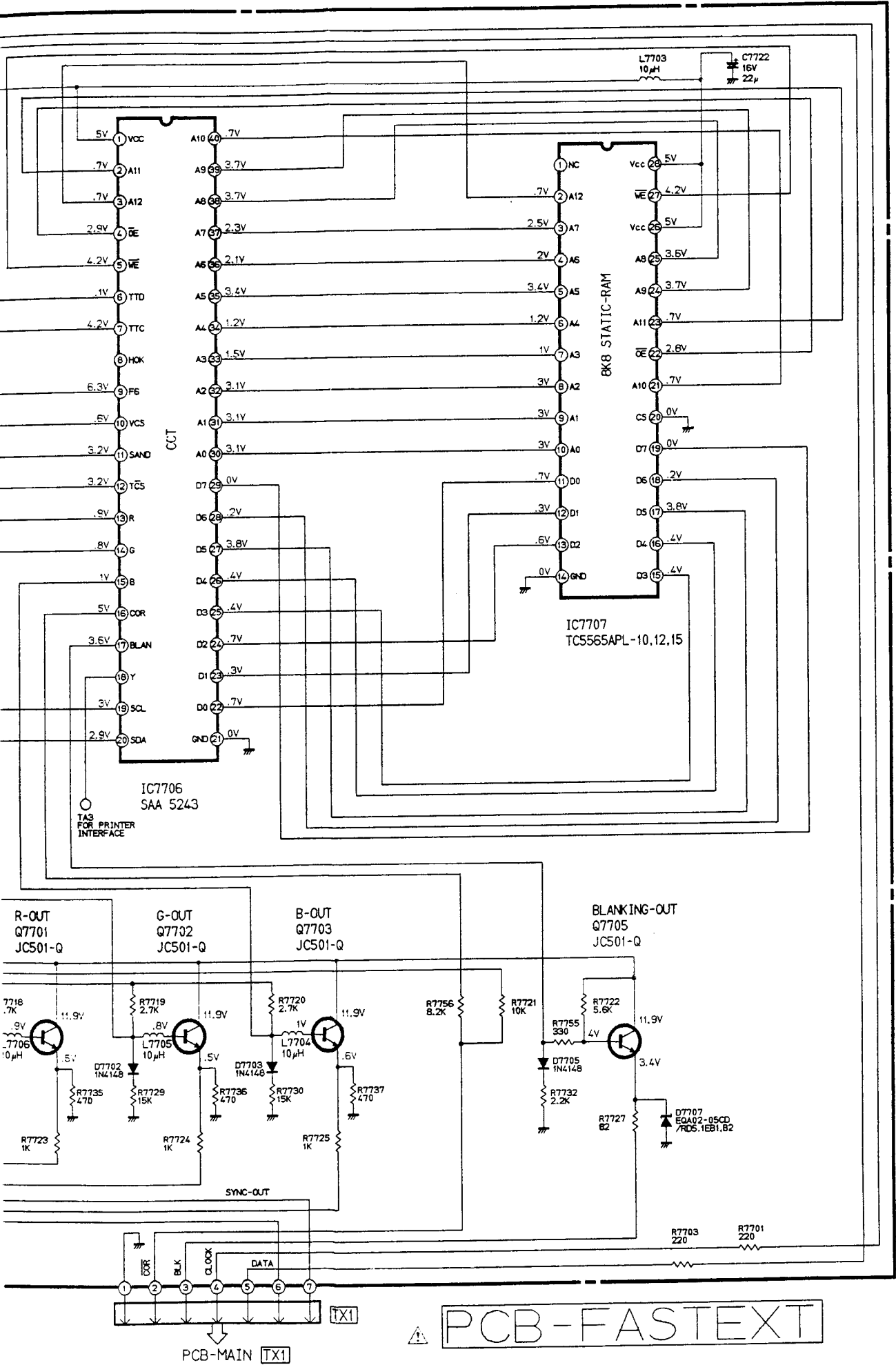
SYMBOL NO.	ADDRESS
D3S1	D- 1
D3S2	D- 1
D3S3	D- 1
IC3S1	C- 2
L3S1	C- 1
L3S2	B- 1
Q3S1	D- 1
Q3S2	D- 1
Q3S3	D- 1

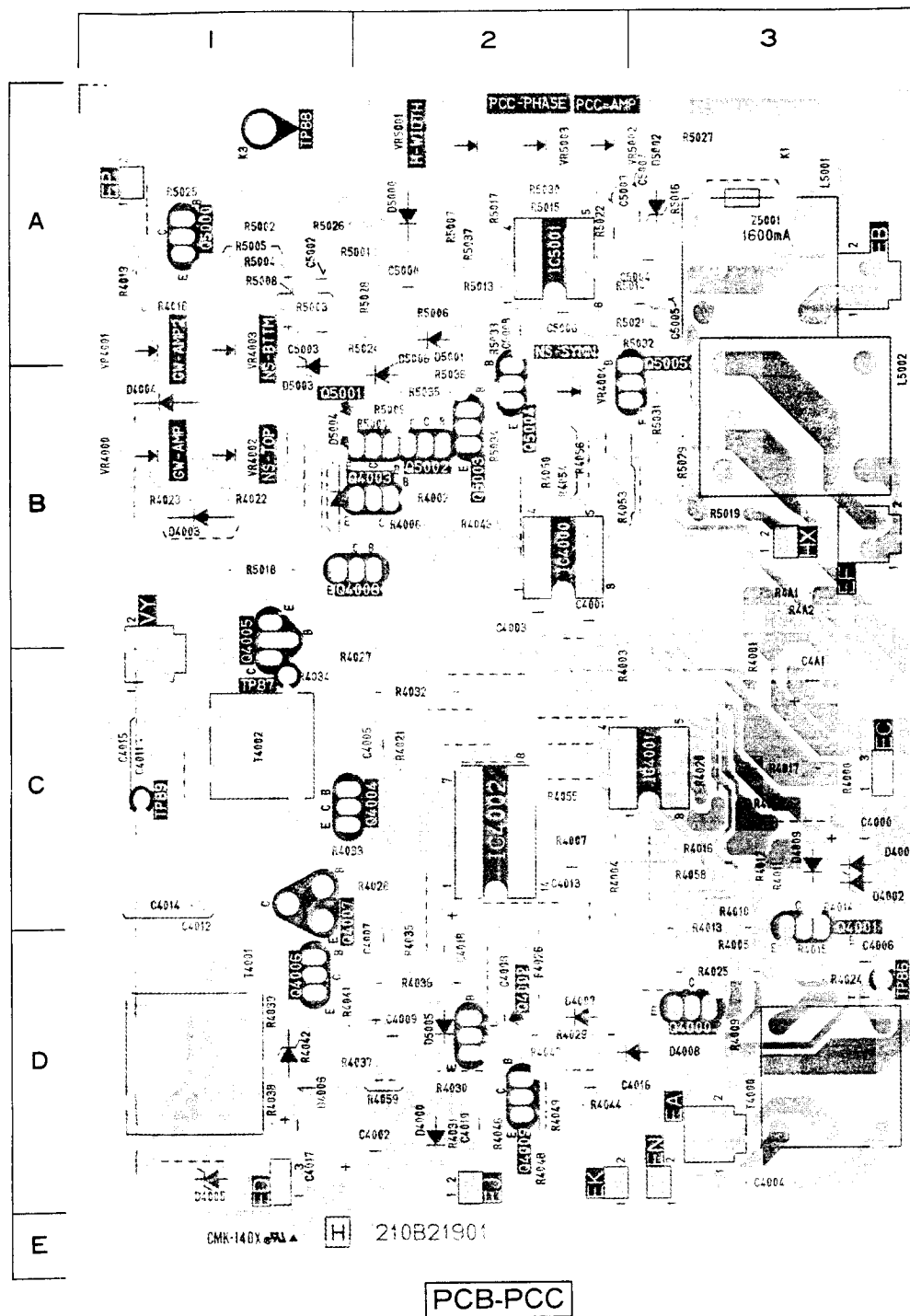
PCB – PCC

SYMBOL NO.	ADDRESS
D4000	D- 2
D4001	C- 3
D4002	C- 3









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3

4

5

TC9015

C3064 C3067 R3065

C3072 E C B C3005

R3052 AD

R3051 +C3066

R3061

R3062

R3063

R3064

R3065

R3066

R3067

R3068

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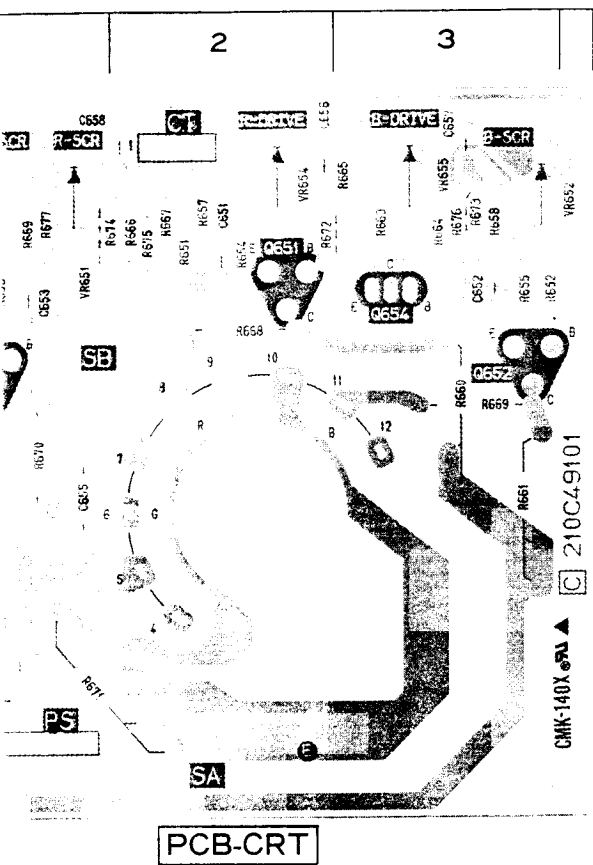
R3504

R3505

R

SYMBOL NO.	ADDRESS	SYMBOL NO.	ADDRESS
D3001	C- 2	Q3002	C- 2
D3002	A- 4	Q3003	A- 2
D3003	B- 5	Q3004	A- 2
D3004	A- 4	Q3005	A- 4
		Q3006	A- 3
		Q3007	B- 3
IC3001	C- 1	Q3008	B- 3
IC3002	C- 1	Q3009	B- 4
IC3003	B- 1	Q3010	B- 4
IC3004	B- 3	Q3011	B- 3
IC3005	C- 3	Q3012	B- 4
IC3006	B- 2	Q3013	C- 4
IC3007	A- 2		
IC3008	A- 1		
IC3009	A- 1	TP31	B- 1
IC3010	A- 4	TP32	B- 1
IC3011	C- 4	TP33	C- 1
IC3012	C- 5	TP34	B- 1
IC3014	B- 3	TP35	C- 1
IC3015	A- 3	TP36	C- 1
		TP37	B- 1
		TP38	B- 1
L3001	C- 1		
L3002	C- 1	VC3001	C- 1
L3003	B- 3	VC3002	B- 1
L3004	B- 3		
L3005	B- 3		
L3006	C- 3		
LC3001	C- 1	X3001	C- 1
		X3002	B- 1
		X3003	B- 2
Q3001	C- 1		

SYMBOL NO.	ADDRESS
D251	A- 1
D252	B- 1
D254	A- 1
D255	B- 1
D256	B- 1
D257	B- 1



A

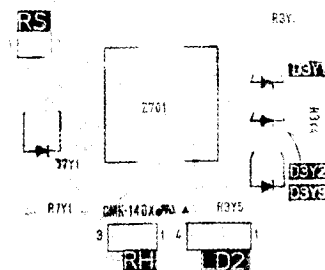
B

C

D

E

6 240A69401



PCB-LED

C2L6

C2

C6P6

R2

C2K0

R2

C2L9

C3K6

C3K6

C3K6

C3K6

C3K6

C3K6

C3K6

C3K6

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PCB-VC/RGB-CT I

PCB-POWER-SUB

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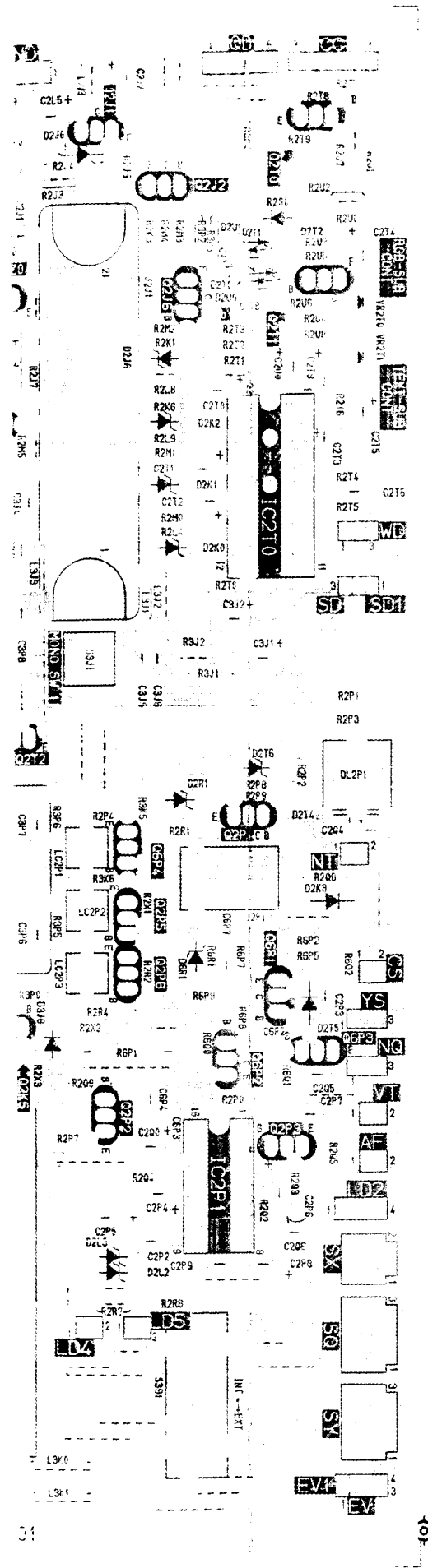
PCB-CONTROL

240A69401

PCB-LED

240A69401

PCB-AV



SYMBOL NO.	ADDRESS
D251	A- 1
D252	B- 1
D254	A- 1
D255	B- 1
D256	B- 1
D257	B- 1
D258	C- 2
D259	B- 1
D2J6	A- 6
D2J8	B- 6
D2K0	B- 6
D2K1	B- 6
D2K2	B- 6
D2K3	B- 5
D2K4	A- 5
D2K5	A- 4
D2K6	B- 5
D2K7	B- 5
D2K8	C- 7
D2L0	C- 5
D2L1	C- 5
D2L2	E- 6
D2L3	D- 6
D2R1	C- 6
D2T0	A- 6
D2T1	A- 7
D2T2	A- 7
D2T3	D- 5
D2T4	C- 7
D2T5	D- 7
D2T6	C- 7
D2U0	A- 6
D3J4	A- 6
D3J5	A- 5
D3J6	D- 5
D3J7	D- 5
D3J8	D- 6
D3J9	C- 5
D3K0	A- 6
D3K1	C- 5
D3K2	C- 6
D3Y1	A- 4
D3Y2	A- 4
D3Y3	A- 4
D601	B- 1
D603	C- 1
D606	B- 1
D610	B- 1

SYMBOL NO.	ADDRESS
D612	B- 2
D6A1	B- 2
D6A2	B- 2
D6A3	B- 2
D6A4	B- 2
D6A5	A- 2
D6R1	D- 6
D7Y1	A- 3
D7Y2	E- 1
D7Y3	E- 1
D7Y4	E- 2
D7Y5	E- 2
D7Y6	E- 2
D7Y7	E- 2
DL2D1	A- 2
DL2P1	C- 7
DL601	A- 3
F991	D- 2
IC251	A- 1
IC2J0	B- 5
IC2J1	C- 5
IC2P1	D- 6
IC2T0	B- 7
IC3J0	D- 4
IC601	B- 2
IC602	A- 2
IC603	B- 1
L251	A- 1
L252	A- 2
L253	A- 1
L254	C- 2
L2J1	A- 6
L2J2	C- 4
L2J3	A- 6
L2J4	A- 4
L3J1	B- 6
L3J2	B- 6
L3J3	B- 6
L3J5	C- 4
L3J6	C- 4
L3J7	B- 5
L3J8	B- 5

SYMBOL NO.	ADDRESS
L3J9	B- 6
L3K0	E- 6
L3K1	E- 6
L3Y1	E- 4
L3Y2	E- 4
L3Y3	E- 4
L601	A- 3
L602	A- 2
L603	A- 2
L604	B- 2
L606	B- 2
L607	A- 2
L608	A- 2
L991	C- 2
L992	D- 1
L993	C- 1
L994	C- 1
LC2P1	C- 6
LC2P2	C- 6
LC2P3	D- 6
LC6A1	B- 3
LC6A2	C- 3
LC6A3	B- 2
LC6A4	B- 2
LC6A5	A- 1
Q251	C- 2
Q252	A- 1
Q253	A- 1
Q254	A- 1
Q2D1	A- 2
Q2D2	A- 2
Q2J1	A- 6
Q2J2	A- 6
Q2J6	A- 6
Q2J7	B- 6
Q2J8	A- 4
Q2J9	B- 4
Q2K0	B- 4
Q2K1	C- 6
Q2K2	D- 5
Q2K5	D- 6
Q2K6	B- 5
Q2P1	C- 7
Q2P2	D- 6
Q2P3	D- 7
Q2P5	C- 6

SYMBOL NO.	ADDRESS
Q2P6	D- 6
Q2T0	A- 7
Q2T1	B- 7
Q2T2	C- 6
Q2Z0	A- 6
Q2Z1	A- 5
Q2Z2	C- 5
Q2Z3	C- 5
Q2Z4	C- 5
Q3J0	A- 5
Q601	B- 3
Q602	B- 3
Q6A1	B- 3
Q6A2	B- 2
Q6A3	B- 2
Q6A4	A- 2
Q6A5	B- 2
Q6A6	A- 2
Q6A7	A- 2
Q6A8	A- 3
Q6P1	D- 7
Q6P2	D- 7
Q6P3	D- 7
Q6P4	C- 6
Q6P5	A- 6
Q6P6	B- 4
TP46B	A- 2
TP46R	A- 1
TP61	B- 3
TP62	A- 3
TP63	B- 2
TP64	B- 2
TP65	B- 2
VC1	C- 1
VC2	C- 2
VC601	B- 2
VC6A1	B- 2
VR2T0	B- 7
VR2T1	B- 7
VR2Y1	E- 3
VR3Y1	E- 4
VR601	A- 2
X601	B- 2
X6A1	B- 2

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
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 Email:- enquiries@mauritron.co.uk

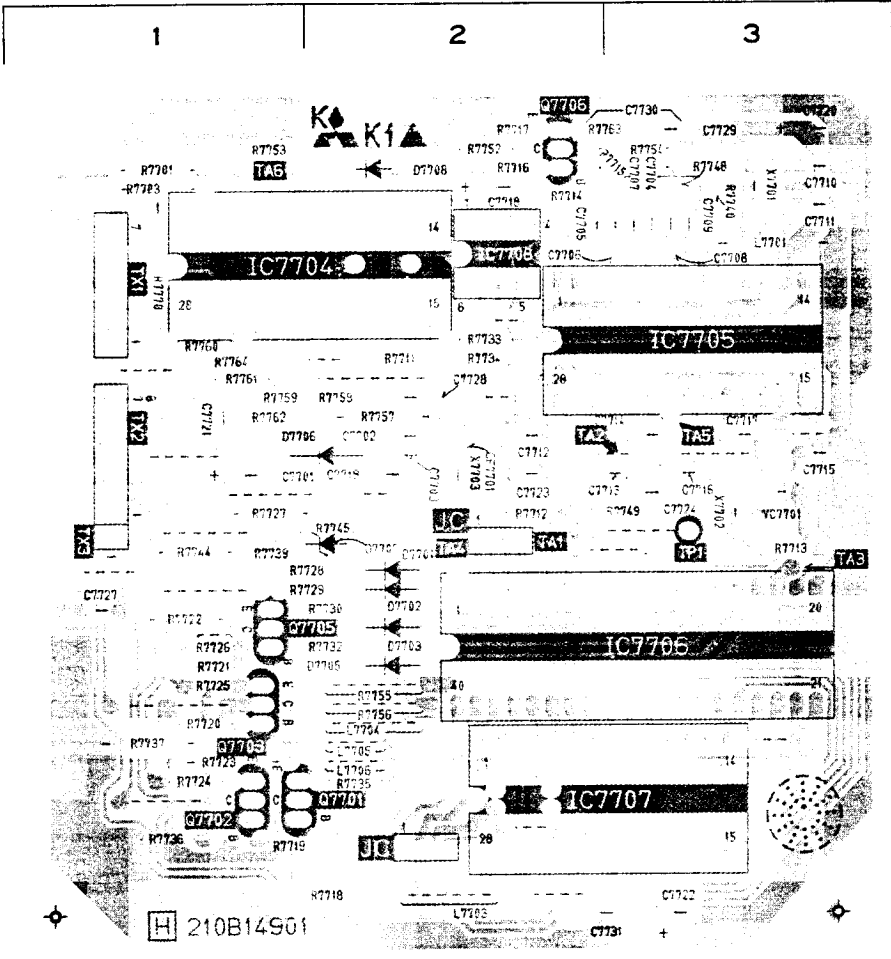
ADDRESS

D- 6
A- 7
B- 7
C- 6
A- 6
A- 5
C- 5
C- 5
C- 5
A- 5
B- 3
B- 3
B- 3
B- 2
B- 2
A- 2
B- 2
A- 2
A- 2
A- 3
D- 7
D- 7
D- 7
C- 6
A- 6
B- 4
A- 2
A- 1
B- 3
A- 3
B- 2
B- 2
B- 2
C- 1
C- 2
B- 2
B- 2
B- 7
B- 7
E- 3
E- 4
A- 2
B- 2
B- 2

A

B

C



PCB-FASTTEXT

PCB – FASTTEXT

SYMBOL NO.	ADDRESS
D7701	B- 2
D7702	B- 2
D7703	B- 2
D7705	B- 2
D7706	B- 1
D7707	B- 2
D7708	A- 2
IC7704	A- 2
IC7705	A- 3
IC7706	B- 3
IC7707	C- 3
IC7708	A- 2
L7701	A- 3
L7703	C- 2
L7704	C- 2
L7705	C- 2
L7706	C- 2
Q7701	C- 2
Q7702	C- 1
Q7703	C- 1
Q7705	B- 2
Q7706	A- 2
TP1	B- 3
VC7701	B- 3
X7701	A- 3
X7702	B- 3
X7703	B- 2

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