



Service¹⁹⁹¹ **Manual**



MODEL
CT-33C1STX

SPECIFICATIONS

| | | |
|-------------------------------|--|--|
| Reception System | CCIR-B, G, I, L | Special Features <ul style="list-style-type: none"> • 30W + 30W detachable Acoustic Turbo speaker System. • FASTEXT Reception. • 70 Programme Selection with Display of Channel Position Number or Programme name. • Direct Channel Selection with Frequency Synthesizer Tuning System (Automatic Fine Tuning). • CCIR-B, G, I, L System Reception. • NICAM Reception. • PAL, SECAM, 3.58NTSC, 4.43NTSC (NTSC via S-Video-In only) Multi Colour System with CTI (Colour Transient Improvement). • 110° Deflection Picture Tube with Dynamic Beam Forming electron gun, Black Matrix and Tinted Glass. • On Screen Indications <ul style="list-style-type: none"> Programme name, AV1, AV2, S1, S2, Colour, Picture, Brightness, Sharpness, Tint (NTSC only), Colour Temperature, Optimum, DCF on/off, Volume, Graphic Equalizer (5 elements), Balance, Stereo, Dual Mode, Sound Mute, Spatial Sound, Memory Status, Off-Timer (Remaining Time), Channel Position Number, Programme Name : In Preset Mode Colour System : In Preset Mode B, G, I, L indication : In Preset Mode AFT Status : In Preset Mode RF Sensitivity : In Preset Mode • Black Expander Circuit and Colour Temperature Control. • Twin Peri TV Connectors (SCART 1, 2) (RGB Input Facility via SCART 1 Only). • One S-Video input and One Composite Video Input with Common Stereo Audio Input for Camcorder (on Top). • Two S-Video Input with Stereo Audio Input (in Back). • TV/VCR common use Learning Remote hand unit. • Infrared 142 Real Channel Direct Access and Multifunction Remote hand unit. • Selectable OFF TIMER for every 10 minutes down from 90 minutes. • Last Programme, Analog Memory Status, Each Analog Level and Power ON/OFF Memory. • A Red LED for Standby indicator and Green LED for On Timer indicator. • Facility for External Loudspeakers. • Surround System with external Loudspeakers. • AV Memory. • On Timer (4 Programme). • Automatic switch off after 30 minutes of no reception. |
| Colour System | PAL/SECAM 3.58 NTSC 4.43 NTSC | |
| Reception Frequency | VHF 47~300MHz UHF 470~862MHz | |
| Mains Input | AC 240V 50Hz | |
| Power Consumption | 131W | |
| Aerial Input | 75 Ω | |
| Intermediate Frequency | Video 38.9MHz/34.47MHz Sound 33.4MHz/32.348MHz 32.9MHz 32.4MHz 40.97MHz Colour 34.47MHz/38.9MHz | |
| Intercarrier Frequency | 5.5/6.0/6.5/6.25MHz | |
| Audio Output | 30W + 30W (Music Power) | |
| Speaker | 1.8" (4.5cm) × 3.9" (10cm) 2pcs φ 10cm 2pcs | |
| Chassis | EURO 9 | |
| Picture Tube | A80EBK221X 33" 110° Deflection | |
| Cabir Dim (Ap) | " (D) " | |
| Weig (Ap) | | |

SAFETY PRECAUTIONS

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

WARNING

1. An isolation transformer should be used between the television receiver and the AC supply point before any test / service is performed on a HOT chassis television receiver.
2. 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.
3. 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.
4. When service is required, observe the original lead dressing. Extra precaution should be given to assure 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.

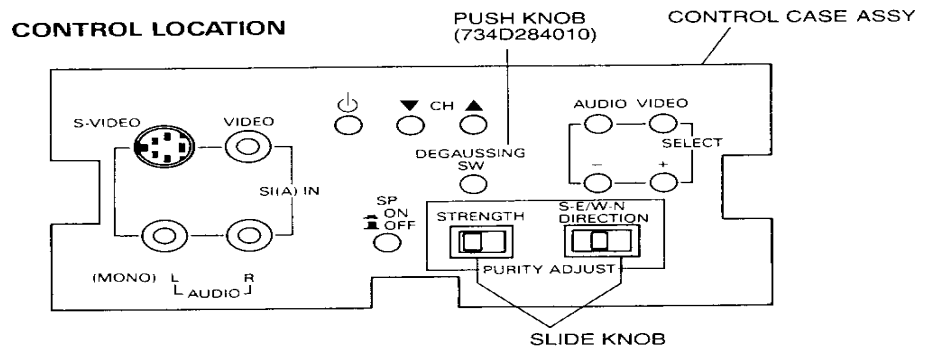
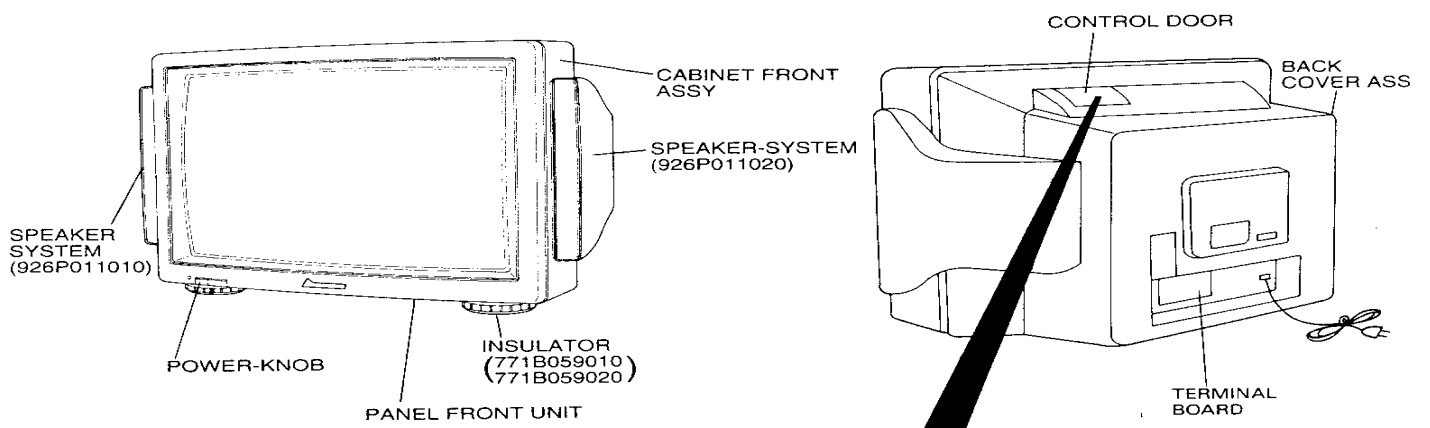
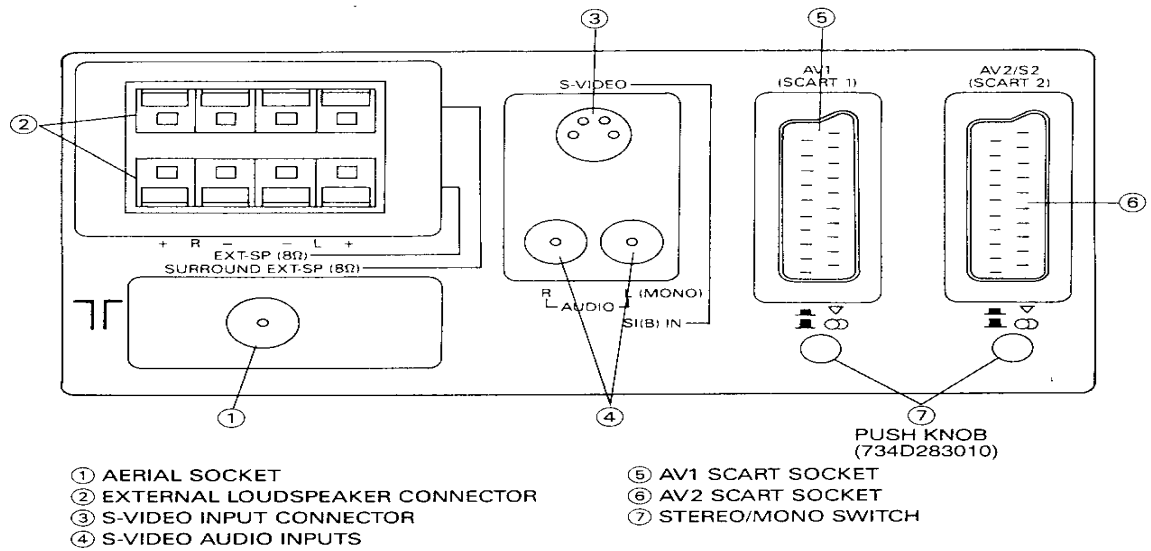


Fig. 1. Control and Cabinet Parts

CONNECTORS



SCART SOCKET CONNECTIONS

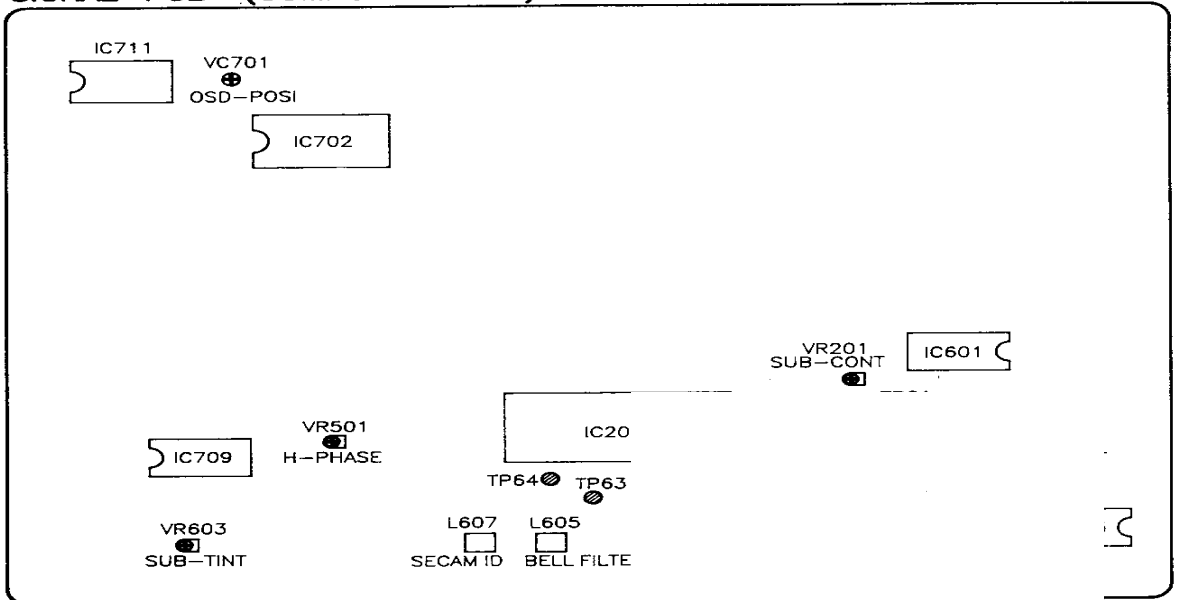


| MODE PIN | AV1 | AV2 |
|-------------|-----------------|---------------|
| 1 | AUDIO OUT R | |
| 2 | AUDIO IN R | |
| 3 | AUDIO OUT L | |
| 4 | AUDIO EARTH | |
| 5 | BLUE EARTH | EARTH |
| 6 | AUDIO IN L | |
| 7 | BLUE IN | NOT CONNECTED |
| 8 | FUNCTION SWITCH | |
| 9 | GREEN EARTH | EARTH |
| 10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

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

Fig. 2. Rear View

SIGNAL-PCB (COMPONENT SIDE)



MBC-DEFL-PCB (COMPONENT SIDE)

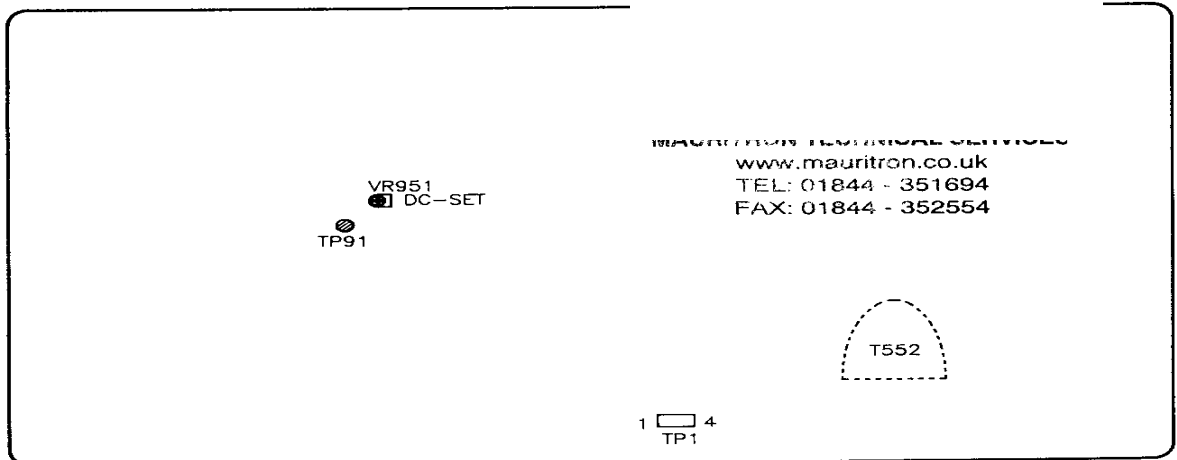
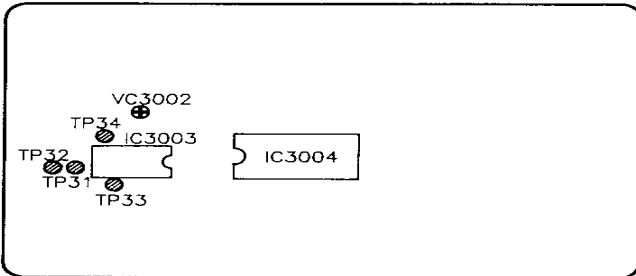
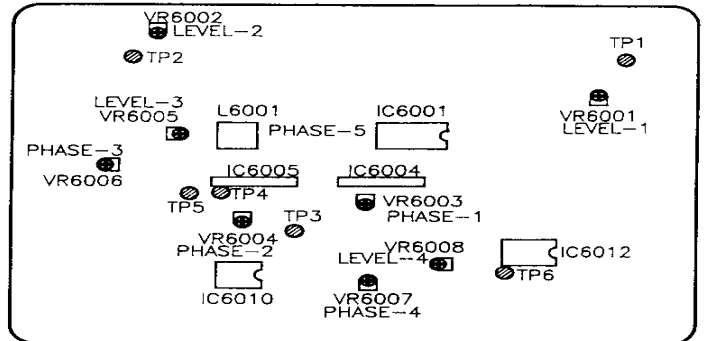


Fig. 5. Location of Controls on PCB

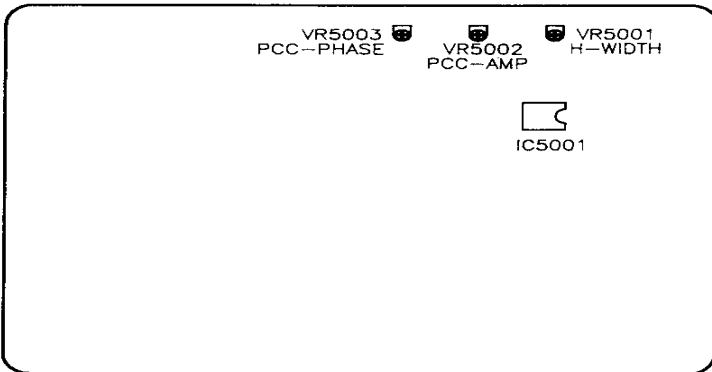
NICAM-PCB (COMPONENT SIDE)



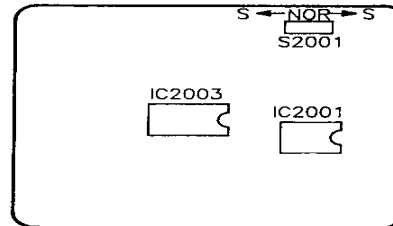
DCF-PCB (COMPONENT SIDE)



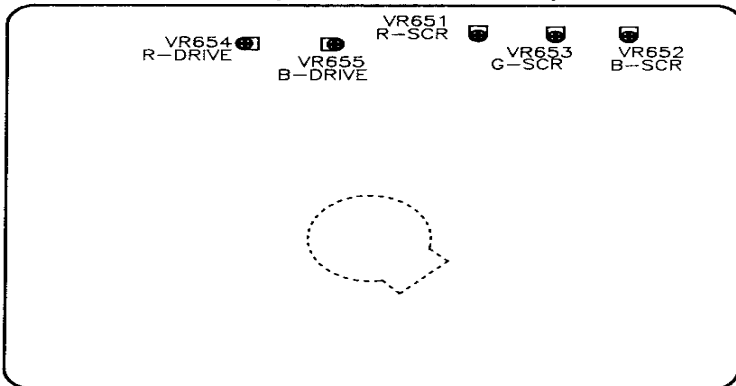
PCC/DBF-PCB (COMPONENT SIDE)

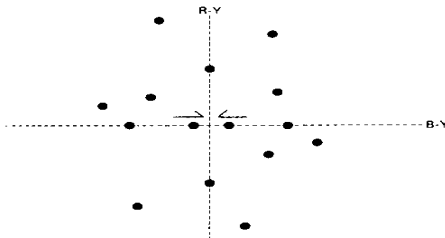



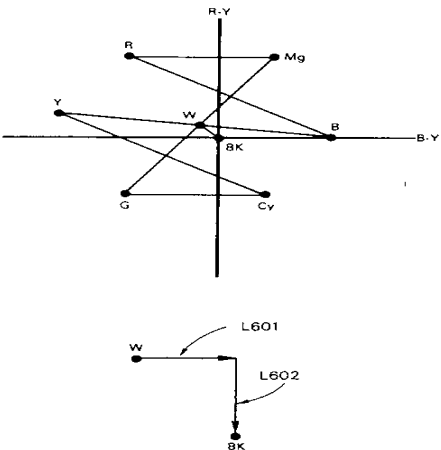
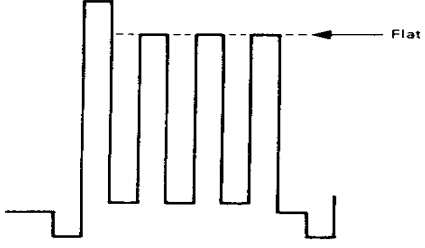
YUV-PCB (COMPONENT SIDE)

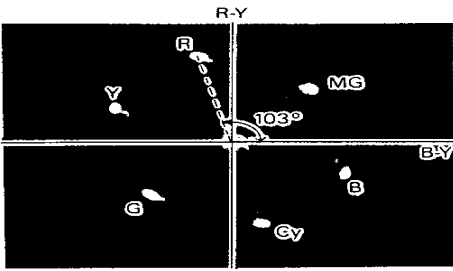
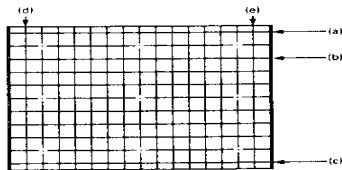


VMCRT-PCB (COMPONENT SIDE)



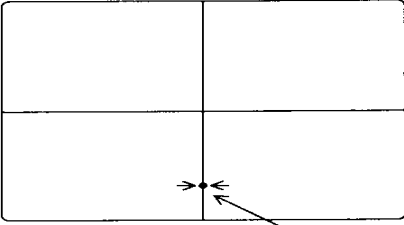
| No. | ITEM | ADJ. METHOD | ADJUSTMENT PROCEDURE |
|-----------------------|----------------------|---|--|
| Power Circuit | | | |
| 1 | B4 Voltage | <ul style="list-style-type: none"> • Connect digital voltmeter to TP91 (MBC-DEFL PCB) • VR951 (MBC-DEFL PCB) | <ol style="list-style-type: none"> 1. Connect VCR and playback alignment tape (Monoscope). 2. Adjust VR951 (DC-SET) so that the B4 voltage is 147V. |
| Chroma Circuit | | | |
| 2 | PAL Vector | <ul style="list-style-type: none"> • Connect oscilloscope's CH1 to TP61 (SIGNAL PCB) and CH2 to TP62 (SIGNAL PCB) • Set oscilloscope to X-Y mode • L603 (SIGNAL PCB) • VR601 (SIGNAL PCB) | <ol style="list-style-type: none"> 1. Supply RF signal (PAL G card). 2. Adjust L603 (DL PHASE) so that outer double dots draw together. 3. Adjust VR601 (ADD LEVEL) so that two points on the X axis are merged.  |
| 3 | SECAM Bell Filter | <ul style="list-style-type: none"> • Connect oscilloscope to TP63 (SIGNAL PCB) • L605 (SIGNAL PCB) | <ol style="list-style-type: none"> 1. Supply EXT SIGNAL (SECAM colour bar). 2. Adjust L605 (BELL FILTER) so that the widths of the adjoining colour bar signal of the horizontal sync, signal shall be nearly equal.  |
| 4 | SECAM Identification | <ul style="list-style-type: none"> • Connect oscilloscope to TP64 (SIGNAL PCB) • L607 (SIGNAL PCB) | <p>‡ Conduct this adjustment after the SECAM Bell Filter adjustment.</p> <ol style="list-style-type: none"> 1. Supply EXT signal (SECAM colour bar) 2. Adjust L607 (SECAM ID) so that the DC level is maximum. |



| No. | ITEM | ADJ. METHOD | ADJUSTMENT PROCEDURE |
|-----|-------------------|--|--|
| 5 | SECAM Demodulator | <ul style="list-style-type: none"> • Connect oscilloscope's CH1 to TP61 (SIGNAL PCB) and CH2 to TP62 (SIGNAL PCB) • Set oscilloscope to X-Y mode • L601 (SIGNAL PCB) • L602 (SIGNAL PCB) | <p>‡ Conduct this adjustment after the SECAM Identification adjustment.</p> <ol style="list-style-type: none"> 1. Supply EXT signal (SECAM colour bar). 2. Adjust L601 (B-Y DEM) and L602 (R-Y DEM) so that the middle bright point corresponding to the white of vector and the bright point corresponding to the black shall be merged. <div style="text-align: center;">  <p>The diagram shows a SECAM color vector with points R, Mg, B, G, Cy, Y, W, BK. The horizontal axis is labeled B-Y and the vertical axis is R-Y. Below it, a schematic shows a horizontal line from point W to a vertical line, with L601 at the junction and L602 on the vertical line, ending at point BK.</p> </div> |
| 6 | Colour | | <p>is adjustment shall be conducted after PAL Vector, White and eo Circuit adjustments have been completed.</p> <p>Apply EXT signal (PAL colour bar).</p> <p>† user control to normal condition.</p> <p>Adjust VR602 (SUB-COL) so that the tops of the waveforms shall be flat.</p> <div style="text-align: center;">  <p>The diagram shows a series of vertical pulses with a dashed horizontal line across their tops, labeled 'Flat' with an arrow pointing to the line.</p> </div> |

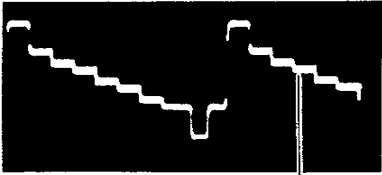

| No. | ITEM | ADJ. METHOD | ADJUSTMENT PROCEDURE |
|---|-------------------|--|--|
| 7 | SUB TINT | <ul style="list-style-type: none"> • Connect oscilloscope's CH1 to TP61 (SIGNAL PCB) and CH2 to TP62 (SIGNAL PCB) • Set oscilloscope to X-Y mode • VR603 (SIGNAL PCB) | <ol style="list-style-type: none"> 1. Supply EXT signal (NTSC colour bar). 2. Set user control to normal condition. 3. Adjust VR603 (SUB-TINT) so that the red dot is at 103°. <div style="text-align: center;">  </div> |
| Deflection Circuit | | | |
| * Conduct this adjustment after the Power Circuit adjustment. | | | |
| 8 | Horizontal Centre | • VR501 (SIGNAL PCB) | <ol style="list-style-type: none"> 1. Connect VCR and playback alignment tape (Monoscope). 2. Adjust VR501 (H-PHASE) so that readings of left and right markers are the same. |
| 9 | PCC | <ul style="list-style-type: none"> • VR5002 (PCC/DBF PCB) • VR5003 (PCC/DBF PCB) | <ol style="list-style-type: none"> 1. Supply EXT signal (PAL Cross hatch). 2. Set user control to normal condition. 3. Observing the second line (d), (e) from both ends on the screen. adjust VR5003 (PCC-PHASE) for optimum EAST-WEST PCC phase. 4. Supply EXT signal (NTSC Cross hatch). 5. Observing the second line (d), (e) from both ends on the screen. adjust VR5002 (PCC-AMP) for optimum EAST-WEST PCC phase. <p>Note: When the cross hatch signal change to the condition at PAL, confirm the signal is as good as the cross hatch signal at NTSC.</p> <div style="text-align: center;">  </div> |
| 10 | Horizontal Width | • VR5001 (PCC/DBF PCB) | <ol style="list-style-type: none"> 1. Supply RF signal (Programme). 2. Set user control to normal condition. 3. Adjust VR5001 (H-WIDTH) so that normal horizontal size. |

| No. | ITEM | ADJ. METHOD | ADJUSTMENT PROCEDURE |
|-----|--------------------------|--|---|
| 11 | Height and Linearity | <ul style="list-style-type: none"> • VR451 (MBC-DEFL PCB) • VR452 (MBC-DEFL PCB) | <ol style="list-style-type: none"> 1. Supply RF signal (Programme). 2. Adjust VR452 (V-HEIGHT) for approx 90% vertical size of raster. 3. Adjust VR451 (V.LIN) for symmetry of vertical linearity. 4. Set user control to normal condition. 5. Adjust VR452 (V-HEIGHT) for normal vertical size. 6. Repeat steps above, if necessary. |
| 12 | Vertical Centre Position | <ul style="list-style-type: none"> • S401 (MBC-DEFL PCB) | <ol style="list-style-type: none"> 1. Supply RF signal (Programme). 2. Set S401 (V-POS) for optimum raster position. |

FAX: 01844 - 352554

| No. | ITEM | ADJ. METHOD | ADJUSTMENT PROCEDURE |
|-------------------------------|------------------|---|---|
| 14 | White | <ul style="list-style-type: none"> • VR651 (VMCRT PCB) • VR652 (VMCRT PCB) | <ol style="list-style-type: none"> 1. Supply RF signal (Monochrome). 2. Adjust VR654 (R-DRIVE) and VR655 (B-DRIVE) to obtain a natural black and white picture. 3. If may be necessary to repeat adjustments Cut Off and White adjustments above. |
| 15 | FOCUS | <ul style="list-style-type: none"> • FOCUS control (Flyback transformer) | <ol style="list-style-type: none"> 1. Supply RF signal (Programme). 2. Adjust FOCUS control so that best overall focus. |
| Video Circuit | | | |
| 16 | SUB-CONT | <ul style="list-style-type: none"> • Connect ammeter's (+) CH to connector TP1 (MBC-DEFL PCB) pin ① and (-) CH to pin ③. • VR201 (SIGNAL PCB) | <p>* Conduct this adjustment after the Cut-Off adjustment.</p> <ol style="list-style-type: none"> 1. Supply EXT signal (PAL colour bar). 2. Set COLOUR control to minimum. 3. Adjust VR201 (SUB-CONT) so that the beam current is $1500 \pm 20 \mu A$. |
| Micro Computer Circuit | | | |
| 17 | Display Position | <ul style="list-style-type: none"> • VC701 (SIGNAL PCB) | <p>* This adjustment shall be conducted after the Horizontal Centre stment have been completed.</p> <p>ily EXT signal (Centre cross).</p> <p>OPTIMUM mode, and adjust VC701 so that the centre of the bar is on the vertical line of the centre cross signal.</p> <div style="text-align: center; margin-top: 20px;">  <p style="text-align: right; margin-right: 50px;">OPTIMUM</p> </div> |

| No. | ITEM | ADJ. METHOD | ADJUSTMENT PROCEDURE |
|-------------------------|-----------------------------|--|---|
| Teletext Circuit | | | |
| 18 | Teletext Free Run Frequency | <ul style="list-style-type: none"> • Connect frequency counter to TP1 (TEXT PCB) • VC7701 (TEXT PCB) | <p>‡ Run the decoder for over 5 minutes for stabilization.</p> <ol style="list-style-type: none"> 1. Disconnect antenna cable from antenna terminal to display a snow noise on the screen. 2. Adjust VC7701 (6MHz-ADJ) so that the frequency is $6000.2 \pm 0.2\text{kHz}$. |
| DCF Circuit | | | |
| 19 | CCD Insert Gain | <ul style="list-style-type: none"> • Connect oscilloscope to TP1 (DCF PCB) • VR6001 (DCF PCB) • Connect oscilloscope to TP2 (DCF PCB) • VR6002 (DCF PCB) | <ol style="list-style-type: none"> 1. Supply EXT signal (Colour bar). 2. Adjust VR6001 (LEVEL-1) so that the amplitude of video signal is 1.0Vp-p. 3. Adjust VR6002 (LEVEL-2) so that the amplitude of video signal is 1.0Vp-p.  |
| 20 | Vertical Aperture | <ul style="list-style-type: none"> • Connect oscilloscope's CH1 to TP3 (DCF PCB) and CH2 to TP4 (DCF PCB) • Set oscilloscope's CH2 to INVERT mode • Set oscilloscope to ADD mode • VR6003 (DCF PCB) • VR6004 (DCF PCB) • Connect oscilloscope's CH1 to TP3 (DCF PCB) and CH2 to TP5 (DCF PCB) • Set oscilloscope's CH2 to INVERT mode • Set oscilloscope to ADD mode • VR6005 (DCF PCB) • VR6006 (DCF PCB) • L6001 (DCF PCB) <p>‡ The volt range of CH1 and CH2 must be the same range.</p> | <ol style="list-style-type: none"> 1. Supply EXT signal (Colour bar). 2. Alternate adjustments in the following sequence: VR6003 (PHASE-1), VR6004 (PHASE-2) so that the chroma level is minimum.  <ol style="list-style-type: none"> 3. Alter VR6005 (LEVEL-3), VR6006 (LEVEL-4) so that the chroma level is minimum. |

| No. | ITEM | ADJ. METHOD | ADJUSTMENT PROCEDURE |
|----------------------|----------------|--|---|
| 21 | Y/C Separation | <ul style="list-style-type: none"> • Connect oscilloscope to TP6(DCF PCB) • VR6007 (DCF PCB) • VR6008 (DCF PCB) | <p>1. Alternate adjustments in the following sequence: VR6007 (PHASE-4), VR6008 (LEVEL-4) so that the chroma level is minimum.</p> <div style="text-align: center;">  <p style="font-size: small;">Adjust for a minimum amplitude of chrominance component.</p> </div> |
| NICAM Circuit | | | |
| 22 | Carrier VCXO | <ul style="list-style-type: none"> • Connect oscilloscope's CH1 to TP31 (NICAM PCB) and CH2 to TP32 (NICAM PCB) • Set oscilloscope to X-Y mode • VC3001 (NICAM PCB) | <p>1. Supply RF signal (NICAM stereo or dual sound) 2. Adjust VC3001 (CA-ADJ) so that a square made by lining up four luminous point run parallel with a scale line of oscilloscope.</p> <div style="text-align: center;">  </div> |
| 23 | Clock VCXO | <ul style="list-style-type: none"> • Connect digital volt meter's (+) CH to TP33 (NICAM PCB) and (-) CH to TP34 (NICAM PCB) • VC3002 (NICAM PCB) | <p>1. Supply 2. Adjust \ $\pm 30mV$.</p> |

PARTS LIST

MODEL : CT – 33C1STX

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 |
| TOLERANCE (pF) | ± 0.1 | ± 0.25 | ± 0.5 | ± 1 |

| SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION | SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION |
|---------------------|------------|------------------|-----------------|-------------|------------|------------|-----------------|
| TUBES | | | | | | | |
| ⊙ Δ V 271 | 255P800010 | CATHODE RAY TUBE | A80EBK221X01 | 1C706 | 263P869010 | 1C | μ PD6326C |
| INTEGRATED CIRCUITS | | | | | | | |
| 1C101 | 272P486010 | 1C | μ PC78M09H | 1C707 | 263P052050 | 1C | HEF4052BP |
| 1C201 | 272P487010 | 1C | TA8659AN | 1C709 | 266P727040 | 1C | μ PC339C/LM339N |
| 1C202 | 272P420010 | 1C | TEA5114A | 1C711 | 266P727040 | 1C | μ PC339C/LM339N |
| 1C203 | 272P420010 | 1C | TEA5114A | 1C7704 | 263P141020 | 1C | PCF84C81P/079 |
| 1C204 | 272P420010 | 1C | TEA5114A | 1C7705 | 272P096020 | 1C | SAA5231 |
| 1C207 | 263P053020 | 1C | TC4053BP | 1C7706 | 272P095050 | 1C | SAA5243 |
| 1C2A1 | 272P138010 | 1C | LA7952 | 1C7707 | 263P622020 | 1C | HM6264ALSP10 |
| 1C2A2 | 266P279010 | 1C | M51321P | 1C7708 | 263P578010 | 1C | 85C72 |
| 1C2A3 | 266P064010 | 1C | M51320P | 1C901 | 272P514010 | 1C | TEA2261 |
| 1C2P2 | 263P053020 | 1C | TC4053BP | 1C950 | 272P412010 | 1C | TEA5170 |
| 1C2P3 | 263P053020 | 1C | TC4053BP | 1C951 | 267P076030 | 1C | SI-3050C |
| 1C2002 | 272P181010 | 1C | CX20125 | 1C952 | 266P922010 | 1C | μ PC78M05H |
| 1C301 | 263P053020 | 1C | TC4053BP | 1C953 | 272P240010 | 1C | M5237L |
| 1C302 | 272P145010 | 1C | STK4132MK2 | 1C954 | 266P010020 | 1C | μ PC574J-K |
| 1C3A1 | 272P139010 | 1C | LA7953 | 1C955 | 272P240010 | 1C | M5237L |
| 1C3A2 | 272P039010 | 1C | LC7523 | 1C9A1 | 272P570010 | 1C | M51848P |
| 1C3A3 | 272P396010 | 1C | BX7601A | TRANSISTORS | | | |
| 1C3A4 | 272P396010 | 1C | BX7601A | Q 101 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C3001 | 266P620010 | 1C | AN608P | Q 201 | 260P654030 | TRANSISTOR | 2SC2058S-Q |
| 1C3002 | 266P620010 | 1C | AN608P | Q 202 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C3003 | 272P283010 | 1C | TA8662N | Q 203 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C3004 | 263P636010 | 1C | TC6011N | Q 204 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C3005 | 263P622020 | 1C | HM6264ALSP10 | Q 210 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C3006 | 272P284010 | 1C | TD6710AN | Q 214 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C3007 | 267P036020 | 1C | AFL87F14000A11 | Q 215 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C3008 | 267P036020 | 1C | AFL87F14000A11 | Q 216 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C3009 | 266P546010 | 1C | RC4558P | Q 217 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C3014 | 272P200020 | 1C | M5201L | Q 218 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C3015 | 272P200020 | 1C | M5201L | Q 219 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C451 | 272P239040 | 1C | LA7838 | Q 221 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C5001 | 272P406010 | 1C | TEA2031A | Q 222 | 260P654030 | TRANSISTOR | 2SC2058S-Q |
| 1C601 | 272P170010 | 1C | TDA4565 CT1 | Q 223 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C6001 | 272P292010 | 1C | CXL1009P | Q 2A1 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C6002 | 267P032020 | 1C | BX6387 | Q 2A2 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C6003 | 272P292010 | 1C | CXL1009P | Q 2A3 | 260P654030 | TRANSISTOR | 2SC2058S-Q |
| 1C6004 | 267P035020 | 1C | BPF2 (B080-2) | Q 2A4 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C6005 | 267P027020 | 1C | BPF (B074-2) | Q 2A5 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C6006 | 267P035020 | 1C | BPF2 (B080-2) | Q 2A6 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C6007 | 267P032020 | 1C | BX6387 | Q 2A7 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C6008 | 266P982010 | 1C | AN608P | Q 2A8 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C6009 | 267P032010 | 1C | AMP2 (B078-1) | Q 2A9 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C6010 | 272P262010 | 1C | CX22013 | Q 2B0 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C6011 | 267P028020 | 1C | SUB (B075-2) | Q 2B2 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C6012 | 263P053020 | 1C | TC4053BP | Q 2B3 | 260P654030 | TRANSISTOR | 2SC2058S-Q |
| 1C6013 | 266P923020 | 1C | NJM78L09A | Q 2B4 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C701 | 263P155020 | 1C | μ PD75116CW-168 | Q 2B5 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C702 | 263P156010 | 1C | M50554-1B5SP | Q 2B6 | 260P543050 | TRANSISTOR | JC501-Q |
| 1C703 | 263P683010 | 1C | M6M80021L | Q 2B7 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C704 | 263P683010 | 1C | M6M80021L | Q 2B8 | 260P544030 | TRANSISTOR | JA101-Q |
| 1C705 | 263P872030 | 1C | MN1280-M | Q 2B9 | 260P543050 | TRANSISTOR | JC501-Q |
| | | | | Q 2C0 | 260P543050 | TRANSISTOR | JC501-Q |
| | | | | Q 2001 | 260P544030 | TRANSISTOR | JA101-Q |

| SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION | SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION |
|------------|------------|------------|-------------|------------|------------|------------|-------------|
| Q 2002 | 260P543050 | TRANSISTOR | JC501-Q | Q 6A1 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 2003 | 260P543050 | TRANSISTOR | JC501-Q | Q 6A3 | 260P544030 | TRANSISTOR | JA101-Q |
| Q 2004 | 260P543050 | TRANSISTOR | JC501-Q | Q 6001 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 2005 | 260P543050 | TRANSISTOR | JC501-Q | Q 6002 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 2006 | 260P543050 | TRANSISTOR | JC501-Q | Q 6003 | 260P544030 | TRANSISTOR | JA101-Q |
| Q 2007 | 260P543050 | TRANSISTOR | JC501-Q | Q 6004 | 260P654030 | TRANSISTOR | 2SC2058S-Q |
| Q 2008 | 260P543050 | TRANSISTOR | JC501-Q | Q 6005 | 260P544030 | TRANSISTOR | JA101-Q |
| Q 2009 | 260P543050 | TRANSISTOR | JC501-Q | Q 6006 | 260P544030 | TRANSISTOR | JA101-Q |
| Q 2010 | 260P543050 | TRANSISTOR | JC501-Q | Q 6007 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 301 | 260P543050 | TRANSISTOR | JC501-Q | Q 6008 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 302 | 260P543050 | TRANSISTOR | JC501-Q | Q 6009 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 303 | 260P544030 | TRANSISTOR | JA101-Q | Q 6010 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 304 | 260P543050 | TRANSISTOR | JC501-Q | Q 6011 | 260P544030 | TRANSISTOR | JA101-Q |
| Q 305 | 260P543050 | TRANSISTOR | JC501-Q | Q 705 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 3A1 | 260P543050 | TRANSISTOR | JC501-Q | Q 706 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 3A2 | 260P387030 | TRANSISTOR | 2SC2236-Y | Q 713 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 3A3 | 260P544030 | TRANSISTOR | JA101-Q | Q 714 | 260P544030 | TRANSISTOR | JA101-Q |
| Q 3A4 | 260P543050 | TRANSISTOR | JC501-Q | Q 715 | 260P544030 | TRANSISTOR | JA101-Q |
| Q 3A5 | 260P543050 | TRANSISTOR | JC501-Q | Q 716 | 260P544030 | TRANSISTOR | JA101-Q |
| Q 3001 | 260P543050 | TRANSISTOR | JC501-Q | Q 718 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 3002 | 260P416030 | TRANSISTOR | 2SC2274-F | Q 719 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 3003 | 260P543050 | TRANSISTOR | JC501-Q | Q 7Y1 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 3004 | 260P543050 | TRANSISTOR | JC501-Q | Q 7Y2 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 3006 | 260P543050 | TRANSISTOR | JC501-Q | Q 7701 | 260P544030 | TRANSISTOR | JA101-Q |
| Q 3007 | 260P543050 | TRANSISTOR | JC501-Q | Q 7703 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 3008 | 260P543050 | TRANSISTOR | JC501-Q | Q 7705 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 3202 | 260P543050 | TRANSISTOR | JC501-Q | Q 7706 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 451 | 260P543050 | TRANSISTOR | JC501-Q | Q 7707 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 501 | 260P543050 | TRANSISTOR | JC501-Q | Q 901 | 260P663010 | TRANSISTOR | 2SD1887 |
| Q 502 | 260P543050 | TRANSISTOR | JC501-Q | Q 902 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 503 | 260P544030 | TRANSISTOR | JA101-Q | Q 950 | 260P255040 | TRANSISTOR | 2SA950-Y |
| Q 504 | 260P543050 | TRANSISTOR | JC501-Q | Q 951 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 505 | 260P543050 | TRANSISTOR | JC501-Q | Q 952 | 260P668020 | TRANSISTOR | |
| Q 506 | 260P544030 | TRANSISTOR | JA101-Q | Q 953 | 260P668010 | TRANSISTOR | 2SB1135-R.S |
| Q 507 | 260P543050 | TRANSISTOR | JC501-Q | Q 954 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 508 | 260P543050 | TRANSISTOR | JC501-Q | Q 9A1 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 551 | 260P422010 | TRANSISTOR | 2SC2482 | Q 9A2 | 260P543050 | TRANSISTOR | JC501-Q |
| Q 552 | 260P608010 | TRANSISTOR | 2SD1879 | | | DIODES | |
| Q 5006 | 260P543050 | TRANSISTOR | JC501-Q | D 101 | 264P370010 | DIODE | 1N4148 |
| Q 601 | 260P543050 | TRANSISTOR | JC501-Q | D 102 | 264P370010 | DIODE | 1N4148 |
| Q 602 | 260P543050 | TRANSISTOR | JC501-Q | D 103 | 264P370010 | DIODE | 1N4148 |
| Q 603 | 260P543050 | TRANSISTOR | JC501-Q | D 104 | 264P370010 | DIODE | 1N4148 |
| Q 605 | 260P543050 | TRANSISTOR | JC501-Q | D 203 | 264P370010 | DIODE | 1N4148 |
| Q 606 | 260P543050 | TRANSISTOR | JC501-Q | D 204 | 264P370010 | DIODE | 1N4148 |
| Q 607 | 260P543050 | TRANSISTOR | JC501-Q | D 205 | 264P370010 | DIODE | 1N4148 |
| Q 651 | 260P425040 | TRANSISTOR | 2SC2688-M.N | D 207 | 264P370010 | DIODE | 1N4148 |
| Q 652 | 260P425040 | TRANSISTOR | 2SC2688-M.N | D 2A1 | 264P488020 | DIODE | RD13ED1 |
| Q 653 | 260P425040 | TRANSISTOR | 2SC2688-M.N | D 2A2 | 264P488020 | DIODE | RD13ED1 |
| Q 654 | 260P544030 | TRANSISTOR | JA101-Q | D 2A3 | 264P483080 | DIODE | RD5.1FB2 |
| Q 655 | 260P654030 | TRANSISTOR | 2SC2058S-Q | D 2A6 | 264P488020 | DIODE | RD13ED1 |
| Q 656 | 260P654030 | TRANSISTOR | 2SC2058S-Q | D 2A7 | 264P488020 | DIODE | RD13ED1 |
| Q 657 | 260P654030 | TRANSISTOR | 2SC2058S-Q | D 2A8 | 264P483080 | DIODE | RD5.1FB2 |
| Q 658 | 260P422010 | TRANSISTOR | 2SC2482 | D 2A9 | 264P483080 | DIODE | RD5.1FB2 |
| Q 659 | 260P422010 | TRANSISTOR | 2SC2482 | D 2B0 | 264P483080 | DIODE | RD5.1FB2 |
| Q 660 | 260P422010 | TRANSISTOR | 2SC2482 | | | | |

| SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION | SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION |
|------------|------------|------------|-------------------|----------------------|------------|----------------------|-------------|
| D 2B1 | 264P483080 | DIODE | RD5. 1FB2 | D 710 | 264P370010 | DIODE | 1N4148 |
| D 2B2 | 264P501020 | DIODE | HZ28LL | D 712 | 264P370010 | DIODE | 1N4148 |
| D 2B3 | 264P370010 | DIODE | 1N4148 | D 713 | 264P370010 | DIODE | 1N4148 |
| D 2B4 | 264P370010 | DIODE | 1N4148 | D 7X1 | 264P393010 | LIGHT EMITTING DIODE | SLC-26VRSF |
| D 2B5 | 264P488020 | DIODE | RD13ED1 | D 7X2 | 264P393030 | LIGHT EMITTING DIODE | SLC-26DU5F |
| D 2B6 | 264P488020 | DIODE | RD13ED1 | D 7Y3 | 264P483080 | DIODE | RD5. 1FB2 |
| D 2P1 | 264P488020 | DIODE | RD13ED1 | D 7Y4 | 264P483080 | DIODE | RD5. 1FB2 |
| D 2P2 | 264P488020 | DIODE | RD13ED1 | D 7706 | 264P370010 | DIODE | 1N4148 |
| D 2001 | 264P370010 | DIODE | 1N4148 | D 7708 | 264P370010 | DIODE | 1N4148 |
| D 2002 | 264P370010 | DIODE | 1N4148 | D 901 | 264P376010 | DIODE | BYW56 |
| D 2003 | 264P370010 | DIODE | 1N4148 | D 902 | 264P376010 | DIODE | BYW56 |
| D 2005 | 264P370010 | DIODE | 1N4148 | D 903 | 264P376010 | DIODE | BYW56 |
| D 2006 | 264P370010 | DIODE | 1N4148 | D 904 | 264P376010 | DIODE | BYW56 |
| D 301 | 264P370010 | DIODE | 1N4148 | D 905 | 264P371010 | DIODE | BYD33G |
| D 302 | 264P370010 | DIODE | 1N4148 | D 906 | 264P372010 | DIODE | BYV96E |
| D 303 | 264P374020 | DIODE | 1N40031D | D 907 | 264P481060 | DIODE | RD3. 0FB2 |
| D 304 | 264P370010 | DIODE | 1N4148 | D 909 | 264P481060 | DIODE | RD3. 0FB2 |
| D 3A1 | 264P486060 | DIODE | RD9. 1FB3 | D 910 | 264P370010 | DIODE | 1N4148 |
| D 3A2 | 264P465080 | DIODE | EQA02-13A/RD13EB3 | D 911 | 264P484070 | DIODE | RD6. 2FB2 |
| D 3A3 | 264P370010 | DIODE | 1N4148 | D 912 | 264P484070 | DIODE | RD6. 2FB2 |
| D 3A5 | 264P483080 | DIODE | RD5. 1FB2 | D 914 | 264P458030 | DIODE | RD3. 6EB2 |
| D 3B1 | 264P488060 | DIODE | RD15FB1 | D 950 | 264P358070 | DIODE | RU 4AM |
| D 3001 | 264P487030 | DIODE | RD11FB1 | D 951 | 264P377010 | DIODE | BYW95B |
| D 401 | 264P485070 | DIODE | RD7. 5FB3 | D 952 | 264P566010 | DIODE | FMP-G12S |
| D 451 | 264P374020 | DIODE | 1N40031D | D 953 | 264P377010 | DIODE | BYW95B |
| D 453 | 264P374020 | DIODE | 1N40031D | D 956 | 264P377010 | DIODE | BYW95B |
| D 454 | 264P374020 | DIODE | 1N40031D | D 957 | 264P377010 | DIODE | BYW95B |
| D 502 | 264P486060 | DIODE | RD9. 1FB3 | D 958 | 264P370010 | DIODE | 1N4148 |
| D 551 | 264P375010 | DIODE | BY228 | D 959 | 264P370010 | DIODE | 1N4148 |
| D 552 | 264P378010 | DIODE | BYW96E | D 960 | 264P370010 | DIODE | 1N4148 |
| D 553 | 264P371010 | DIODE | BYD33G | D 961 | 264P370010 | DIODE | 1N4148 |
| D 555 | 264P371010 | DIODE | BYD33G | D 9A1 | 264P374020 | DIODE | 1N40031D |
| D 556 | 264P371010 | DIODE | BYD33G | D 9A2 | 264P370010 | DIODE | 1N4148 |
| D 557 | 264P471070 | DIODE | EQA02-35C/RD39EB2 | D 9A3 | 264P370010 | DIODE | 1N4148 |
| D 558 | 264P370010 | DIODE | 1N4148 | OTHER SEMICONDUCTORS | | | |
| D 559 | 264P370010 | DIODE | 1N4148 | RP901 | 265P047050 | POSITIVE THERMISTOR | |
| D 5001 | 264P370010 | DIODE | 1N4148 | FILTERS | | | |
| D 5002 | 264P370010 | DIODE | 1N4148 | CF3001 | 299P144010 | CERAMIC RESONATOR | |
| D 602 | 264P370010 | DIODE | 1N4148 | CF501 | 299P051030 | CERAMIC RESONATOR | |
| D 603 | 264P370010 | DIODE | 1N4148 | LC3001 | 409P453010 | BAND PASS FILTER | |
| D 604 | 264P370010 | DIODE | 1N4148 | LF6001 | 409P478010 | LOW PASS FILTER | |
| D 605 | 264P370010 | DIODE | 1N4148 | LF6002 | 409P478010 | LOW PASS FILTER | |
| D 651 | 264P370010 | DIODE | 1N4148 | LF6003 | 409P456020 | BAND PASS FILTER | |
| D 652 | 264P370010 | DIODE | 1N4148 | DELAY LINES | | | |
| D 653 | 264P370010 | DIODE | 1N4148 | DF6001 | 409P432010 | DELAY EQUALIZER | |
| D 654 | 264P371010 | DIODE | BYD33G | DF6002 | 409P458020 | DELAY EQUALIZER | |
| D 655 | 264P371010 | DIODE | BYD33G | DF6003 | 409P498010 | DELAY EQUALIZER | |
| D 657 | 264P370010 | DIODE | 1N4148 | DL601 | 337P027020 | DELAY LINE | |
| D 6A1 | 264P483080 | DIODE | RD5. 1FB2 | DL6001 | 337P130010 | DELAY LINE | |
| D 6A2 | 264P483080 | DIODE | RD5. 1FB2 | COILS | | | |
| D 705 | 264P488020 | DIODE | RD8. 2FB3 | CA | 409B094010 | DEGAUSSING COIL | |
| D 706 | 264P370010 | DIODE | 1N4148 | | | | |
| D 707 | 264P370010 | DIODE | 1N4148 | | | | |
| D 708 | 264P370010 | DIODE | 1N4148 | | | | |
| D 709 | 264P370010 | DIODE | 1N4148 | | | | |

| SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION |
|------------|------------|---------------------|--------------------|
| L 101 | 321C031040 | RF COIL | 10 μ H-K |
| L 102 | 321C031040 | RF COIL | 10 μ H-K |
| L 201 | 325C111030 | PEAKING COIL | 10 μ H-K |
| L 2A1 | 325C111030 | PEAKING COIL | 10 μ H-K |
| L 2001 | 325C101060 | PEAKING COIL | 18 μ H-K |
| L 3A1 | 325C121030 | PEAKING COIL | 10 μ H-K |
| L 3A2 | 325C121030 | PEAKING COIL | 10 μ H-K |
| L 3A3 | 325C121030 | PEAKING COIL | 10 μ H-K |
| L 3A4 | 325C121030 | PEAKING COIL | 10 μ H-K |
| L 3A5 | 325C121030 | PEAKING COIL | 10 μ H-K |
| L 3A6 | 325C121030 | PEAKING COIL | 10 μ H-K |
| L 3A7 | 325C121030 | PEAKING COIL | 10 μ H-K |
| L 3A8 | 325C121030 | PEAKING COIL | 10 μ H-K |
| L 3A9 | 325C110070 | PEAKING COIL | 3.3 μ H-K |
| L 3B0 | 325C110070 | PEAKING COIL | 3.3 μ H-K |
| L 3B1 | 411P001070 | FERRITE LEAD | |
| L 3B2 | 411P001070 | FERRITE LEAD | |
| L 3B3 | 321C031040 | RF COIL | 10 μ H-K |
| L 3Y1 | 325C111030 | PEAKING COIL | 10 μ H-K |
| L 3Y2 | 325C111030 | PEAKING COIL | 10 μ H-K |
| L 3Y3 | 325C111030 | PEAKING COIL | 10 μ H-K |
| L 3001 | 325C108060 | PEAKING COIL | 820 μ H-J |
| L 3002 | 325C108060 | PEAKING COIL | 820 μ H-J |
| L 551 | 321C030010 | RF COIL | 1 μ H-K |
| L 552 | 411D009020 | FERRITE CORE FILTER | |
| L 553 | 409P407010 | BRIDGE COIL | |
| L 554 | 409P408010 | PCC COIL | |
| L 555 | 333P012090 | H-LIN. COIL | |
| L 556 | 409P006080 | FILTER COIL | |
| L 558 | 321C031040 | RF COIL | 10 μ H-K |
| L 5001 | 325C121030 | PEAKING COIL | 10 μ H-K |
| L 601 | 349P187010 | DEMODULATOR COIL | |
| L 602 | 349P187010 | DEMODULATOR COIL | |
| L 603 | 349P188010 | DL OUT COIL | |
| L 604 | 325C106050 | PEAKING COIL | 15 μ H-J |
| L 605 | 349P172010 | BELL FILTER | |
| L 606 | 325C106070 | PEAKING COIL | 22 μ H-J |
| L 607 | 349P174010 | IDENT COIL | |
| L 608 | 325C107090 | PEAKING COIL | 220 μ H-J |
| L 609 | 325C107030 | PEAKING COIL | 68 μ H-J |
| L 610 | 325C107010 | PEAKING COIL | 47 μ H-J |
| L 611 | 325C122050 | PEAKING COIL | 100 μ H-K |
| L 612 | 325C122050 | PEAKING COIL | 100 μ H-K |
| L 613 | 321C031040 | RF COIL | 10 μ H-K |
| L 654 | 321C031020 | RF COIL | 6.8 μ H-K |
| L 6001 | 349P144020 | DL MATCH COIL | 14MHz |
| L 6002 | 325C102050 | PEAKING COIL | 100 μ H-K |
| L 6003 | 325C162050 | PEAKING COIL | 100 μ H-K |
| L 6004 | 411P011010 | BEAD FERRITE | ZBF503S-P |
| L 6005 | 325C162050 | PEAKING COIL | 100 μ H-K |
| L 6006 | 409P402030 | EMI FILTER | DSS306-55FZ103N100 |
| L 6007 | 409P402030 | EMI FILTER | DSS306-55FZ103N100 |
| L 6008 | 325C162050 | PEAKING COIL | 100 μ H-K |
| L 6009 | 325C162050 | PEAKING COIL | 100 μ H-K |
| L 6010 | 325C166020 | PEAKING COIL | 8.2 μ H-J |

| SYMBOL NO. | PARTS NO. | PARTS NAME | |
|--------------------|------------|---------------------|------------------------|
| L 6011 | 325C166010 | PEAKING COIL | |
| L 6012 | 321C031040 | RF COIL | |
| L 6014 | 325C121050 | PEAKING COIL | |
| L 701 | 325C106050 | PEAKING COIL | |
| L 7Y1 | 325C111030 | PEAKING COIL | |
| L 7Y2 | 325C111030 | PEAKING COIL | |
| L 7701 | 325C121050 | PEAKING COIL | |
| L 7703 | 321C031040 | RF COIL | |
| L 901 | 411P001070 | FERRITE LEAD | |
| L 903 | 411P001070 | FERRITE LEAD | |
| L 904 | 321C030050 | RF COIL | |
| L 905 | 325C121010 | PEAKING COIL | |
| L 951 | 325D059060 | PEAKING COIL | |
| L 952 | 321C041050 | RF COIL | |
| L 956 | 321C131080 | RF COIL | |
| L 958 | 411D009020 | FERRITE CORE FILTER | |
| △ L 991 | 351P011020 | LINE FILTER | |
| L 992 | 351P092010 | LINE FILTER | |
| L 996 | 351P092010 | LINE FILTER | |
| LC2A1 | 320P051030 | TRAP COIL | |
| LC2A2 | 320P051020 | TRAP COIL | |
| LC2A3 | 320P051010 | TRAP COIL | |
| LC7Y1 | 320P051010 | TRAP COIL | |
| TRANSFORMERS | | | |
| T 551 | 336P009010 | H. DRIVE | |
| △ T 552 | 334P183050 | FLYBACK | |
| △ T 901 | 350P481020 | POWER | |
| △ T 902 | 336P023010 | DRIVE | |
| VARIABLE RESISTORS | | | |
| VR201 | 127C081000 | VR-SEMIFIXED | 1/5W B30K Ω -M |
| VR202 | 127C080060 | VR-SEMIFIXED | 1/5W B3K Ω -M |
| VR451 | 127C180070 | VR-SEMIFIXED | 1/5W B5K Ω -M |
| VR452 | 127C191000 | VR-SEMIFIXED | 1/5W B30K Ω -M |
| VR501 | 127C080040 | VR-SEMIFIXED | 1/5W B1K Ω -M |
| VR5001 | 127C180040 | VR-SEMIFIXED | 1/5W B1K Ω -M |
| VR5002 | 127C181060 | VR-SEMIFIXED | 1/5W B1M-M |
| VR5003 | 127C180070 | VR-SEMIFIXED | 1/5W B5K Ω -M |
| VR601 | 127C080050 | VR-SEMIFIXED | 1/5W B2K Ω -M |
| VR602 | 127C080070 | VR-SEMIFIXED | 1/5W B5K Ω -M |
| VR603 | 127C080080 | VR-SEMIFIXED | 1/5W B10K Ω -M |
| VR651 | 127C020040 | VR-SEMIFIXED | 1/5W B1K Ω -N |
| VR652 | 127C020040 | VR-SEMIFIXED | 1/5W B1K Ω -N |
| VR653 | 127C020040 | VR-SEMIFIXED | 1/5W B1K Ω -N |
| VR654 | 127C020050 | VR-SEMIFIXED | 1/5W B2K Ω -N |
| VR655 | 127C020050 | VR-SEMIFIXED | 1/5W B2K Ω -N |
| VR6001 | 127C090040 | VR-SEMIFIXED | 1/5W B1K Ω -M |
| VR6002 | 127C090040 | VR-SEMIFIXED | 1/5W B1K Ω -M |
| VR6003 | 127C090040 | VR-SEMIFIXED | 1/5W B1K Ω -M |
| VR6004 | 127C090040 | VR-SEMIFIXED | 1/5W B1K Ω -M |
| VR6005 | 127C090030 | VR-SEMIFIXED | 1/5W B500-M |
| VR6006 | 127C090040 | VR-SEMIFIXED | 1/5W B1K Ω -M |
| VR6007 | 127C090040 | VR-SEMIFIXED | 1/5W B1K Ω -M |
| VR6008 | 127C090050 | VR-SEMIFIXED | 1/5W B2K Ω -M |
| VR7701 | 127C180080 | VR-SEMIFIXED | 1/10W B10K Ω -M |

FOR SERVICE MANUALS
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| SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION | SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION |
|------------|------------|-------------------------|--------------------|--------------|------------|------------------------------|-------------|
| VR951 | 127C080080 | VR-SEMIFIXED | 1/5W B10KΩ-M | J 2A2 | 451C058010 | CONNECTOR | |
| | | RESISTORS | | J 2A3 | 449C102010 | SOCKET DIN MINI | |
| R 322 | 109P052010 | FUSE | 1/4W 100Ω-J | J 3Y1 | 451C119010 | HEADPHONE JACK | |
| R 323 | 109P052010 | FUSE | 1/4W 100Ω-J | △ J 601 | 449C081010 | CRT SOCKET | |
| R 3C7 | 103P586010 | NETWORK | 1/8W 1MΩ-JX8 (S-B) | J 7Y1 | 449C093010 | SOCKET DIN MINI | |
| R 3C8 | 103P586010 | NETWORK | 1/8W 1MΩ-JX8 (S-B) | K 301 | 287P060010 | POWER RELAY | |
| △ R 451 | 103P378040 | FUSE | 1/4W 2.2Ω-J | △ K 9A1 | 287P029050 | POWER RELAY | |
| R 551 | 109D067070 | CEMENT WIRE | 10W 2.7Ω-K | X 3001 | 285P091010 | CRYSTAL RESONATOR | |
| △ R 554 | 109P052040 | FUSE | 1/4W 1.2Ω-J | X 3002 | 285P093010 | CRYSTAL RESONATOR | |
| △ R 555 | 103P398010 | FUSE | 1/2W 1.2Ω-J | X 601 | 285P132010 | CRYSTAL RESONATOR | |
| R 566 | 102P172080 | CEMENT METAL | 5W 1.8KΩ-K/J | X 602 | 285P131010 | CRYSTAL RESONATOR | |
| △ R 675 | 103P372050 | FUSE | 1/4W 1KΩ-J | X 6001 | 285P079010 | CRYSTAL RESONATOR | |
| △ R 676 | 103P372050 | FUSE | 1/4W 1KΩ-J | X 701 | 285P063040 | CRYSTAL RESONATOR | 4.194304MHz |
| △ R 677 | 103P372050 | FUSE | 1/4W 1KΩ-J | X 702 | 285P073020 | CRYSTAL RESONATOR | |
| R 716 | 103P583030 | NETWORK | 1/8W 4.7KΩ-JX8 | X 7701 | 285P062020 | CRYSTAL RESONATOR | 13.875MHz |
| R 901 | 102P083010 | CEMENT WIRE | 10W 2.2Ω-K | X 7702 | 285P064020 | CRYSTAL RESONATOR | 6.000MHz |
| △ R 960 | 103P397090 | FUSE | 1/2W 0.82Ω-J | X 7703 | 285P118010 | CRYSTAL RESONATOR | |
| R 992 | 102P082080 | CEMENT WIRE | 10W 2.7Ω-K | △ Z 5001 | 299P087060 | PROTECTOR | |
| | | CAPACITORS AND TRIMMERS | | Z 701 | 939P226010 | PREAMP UNIT | |
| ○ C 558 | 189P081040 | C-M-PLASTIC-PP | 200V 0.68M | △ Z 950 | 299P132010 | PROTECTOR | |
| ○ C 559 | 189P081040 | C-M-PLASTIC-PP | 200V 0.68M | △ Z 951 | 299P087080 | PROTECTOR | |
| C 710 | 189P092010 | ELECTROLYTIC-C | FUS. 5V 0.047F-Z | △ Z 952 | 299P132010 | PROTECTOR | |
| C 904 | 185D062070 | ELECTROLYTIC-C | H400V 330M | △ Z 953 | 299P132010 | PROTECTOR | |
| △ C 913 | 189P091010 | CERAMIC CAPACITOR | AC400V E4700P-M | | | PRINTED CIRCUIT BOARD ASSY'S | |
| R 971 | 149P008010 | CR-MULTIPLE | 470P 2M-4M | ○△ | 920D276020 | ADG PCB ASSY | |
| VC3001 | 202P109030 | TRIMMER CAPACITOR | 5.5pF-30pF | ○△ | 920D327080 | AV PCB ASSY | |
| VC3002 | 202P109030 | TRIMMER CAPACITOR | 5.5pF-30pF | ○△ | 920D301080 | CONTROL PCB ASSY | |
| VC701 | 202P109050 | TRIMMER CAPACITOR | 9.8pF-60pF | △ | 930C377001 | DCF PCB ASSY | |
| VC7701 | 202P109030 | TRIMMER CAPACITOR | 5.5pF-30pF | ○△ | 920D277020 | DEFL REG PCB ASSY | |
| | | SWITCHES | | ○△ | 930C498001 | NICAM PCB ASSY | |
| S 2001 | 129P007090 | VR-CH-PRESETTER | SW-BAND | ○△ | 930C381002 | PCC/DBF PCB ASSY | |
| S 3A1 | 432P052030 | PUSH SWITCH | | ○△ | 920D258040 | POWER SUB PCB ASSY | |
| S 3A2 | 432P052030 | PUSH SWITCH | | ○△ | 930B429007 | SIGNAL PCB ASSY | |
| S 401 | 129P007090 | VR-CH-PRESETTER | SW-BAND | △ | 930C441001 | TERMINAL PCB ASSY | |
| S 7Y1 | 432P101010 | KEY BOARD SWITCH | | △ | 930C380001 | TEXT PCB ASSY | |
| S 7Y2 | 432P101010 | KEY BOARD SWITCH | | ○△ | 930C382002 | VMCRT PCB ASSY | |
| S 7Y3 | 432P101010 | KEY BOARD SWITCH | | ○△ | 920D280060 | Y/C-SW PCB ASSY | |
| S 7Y4 | 432P101010 | KEY BOARD SWITCH | | ○△ | 920D279060 | YUV PCB ASSY | |
| S 7Y5 | 432P101010 | KEY BOARD SWITCH | | ○△ | 930C475001 | IC PCB ASSY | |
| S 7Y7 | 432P101010 | KEY BOARD SWITCH | | ○△ | 930C475002 | IC PCB ASSY | |
| S 7Y8 | 432P101010 | KEY BOARD SWITCH | | | | MECHANICAL PARTS | |
| S 7Z0 | 431C068030 | SLIDE SWITCH | | 669D221060 | SCREW | SCREW-TB (10P) | |
| S 7Z1 | 431C067010 | SLIDE SWITCH | | 669D212040 | SCREW | (10P) | |
| S 7Z2 | 432P101010 | KEY BOARD SWITCH | | ○ 669D221030 | SCREW | 4X10 | |
| S 7Z5 | 432C038020 | PUSH SWITCH | | 669D212010 | SCREW | (10P) | |
| △ S 991 | 432P076030 | PUSH SWITCH | | 669D222060 | SCREW | 3X16 (10P) | |
| | | MISCELLANEOUS | | 669D107010 | SCREW | (10P) | |
| △ F 991 | 283D047040 | FUSE | 2A-T | | | COSMETIC PARTS | |
| IP101 | 295P097020 | TUNER HF PACK | 38.9MHz | △ | 246C022020 | AC POWER CORD | |
| J 2A1 | 451C058010 | CONNECTOR | | ○△ | 700C122060 | BACK COVER ASSY | |
| | | | | ○ | 701D081030 | CABINET FRONT ASSY | |

| SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION | SYMBOL NO. | PARTS NO. | PARTS NAME | DESCRIPTION |
|------------|-----------------------------|-------------------|-------------|------------|-----------|------------|-------------|
| ○ | 702A308010 | CONTROL CASE ASSY | | | | | |
| | 641D173010 | CLIP | (A40R) | | | | |
| | 702B697060 | CONTROL DOOR | | | | | |
| | 704C738010 | POWER KNOB | | | | | |
| | 734D283010 | PUSH KNOB | | | | | |
| | 734D284010 | PUSH KNOB | | | | | |
| | 734D353010 | SLIDE KNOB | | | | | |
| ○ | 926P011010 | SPEAKER SYSTEM | | | | | |
| ○ | 926P011020 | SPEAKER SYSTEM | | | | | |
| ○ | 761A078010 | TERMINAL BOARD | | | | | |
| ○ | 701A447050 | PANEL FRONT UNIT | | | | | |
| J 3A1 | 451C114010 | PIN JACK (2P) | | | | | |
| J 3A2 | 440C191010 | PUSH TERMINAL 8P | | | | | |
| J 7Y2 | 451C114010 | PIN JACK (2P) | | | | | |
| J 7Y3 | 451C108050 | PIN JACK | | | | | |
| | PACKING PARTS AND ACCESSORY | | | | | | |
| | 244D229010 | CABLE | | | | | |
| ○ | 803A243010 | PACKING CUSHION | | | | | |
| ○△ | 872C024080 | INSTRUCTION BOOK | | | | | |
| ○ | 831D110090 | PACKING BAG | | | | | |
| ○ | 831D226020 | PACKING BAG | | | | | |
| ○ | 802B320010 | PACKING CASE | | | | | |
| ○ | 802B320050 | PACKING CASE | | | | | |
| ○△ | 939P354040 | REMOTE HAND UNIT | | | | | |

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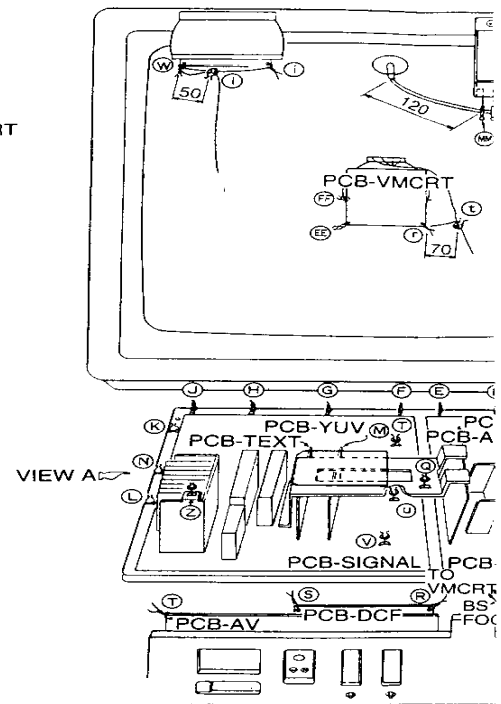
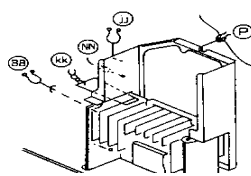
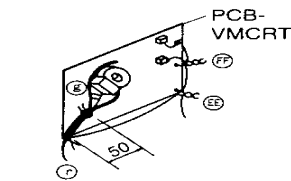
The lead wires to be clamped are listed in the table below.

Note: The inner wires are routed or clamped so that they do not come close to the heat generating or high-tension parts. After servicing route all wires in their original position.

The anode lead wires are routed so no tensile strength is applied to the anode cap. If the mounting angle of the anode cap and the route of the anode lead wires are changed, return them to the initial angle and route.

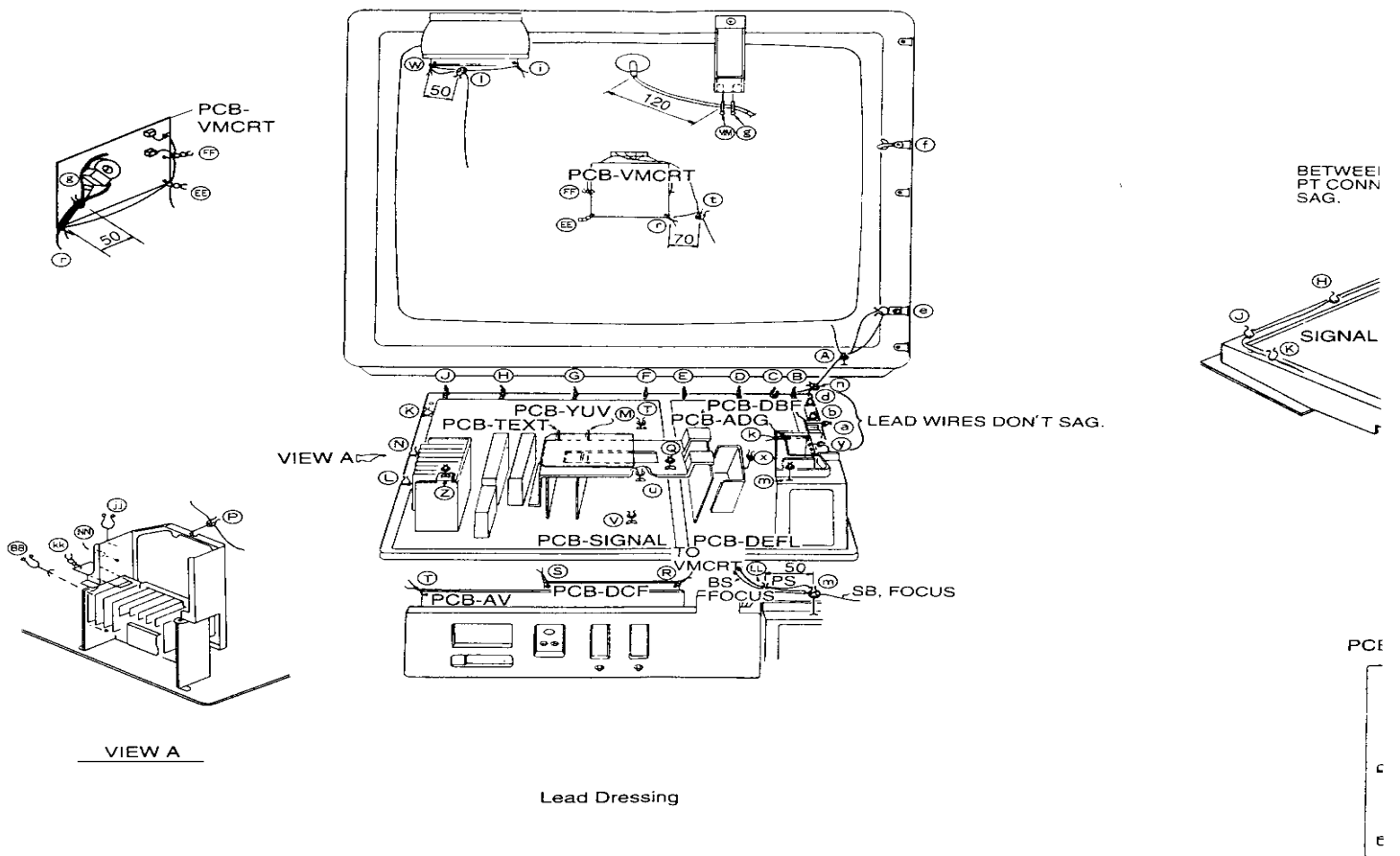
CONNECTOR LEAD FOR CLAMPER

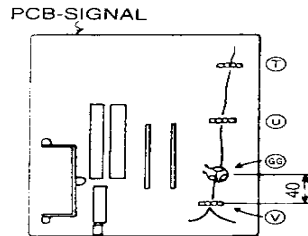
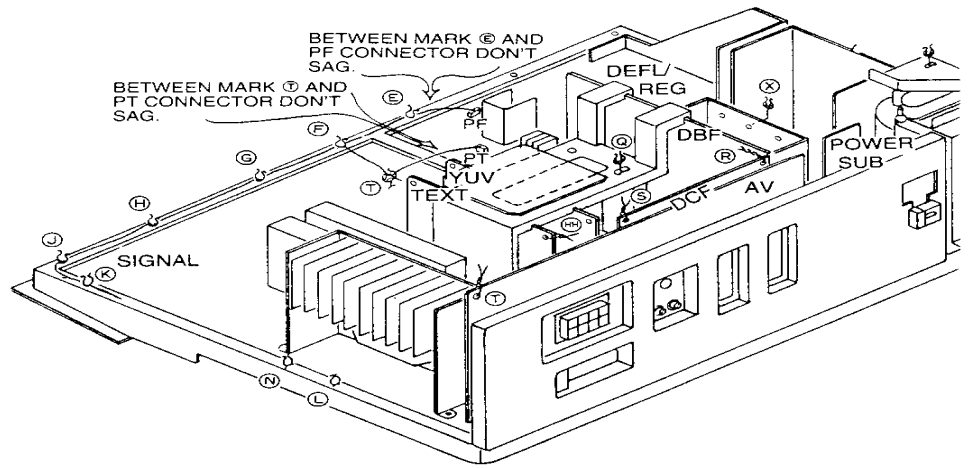
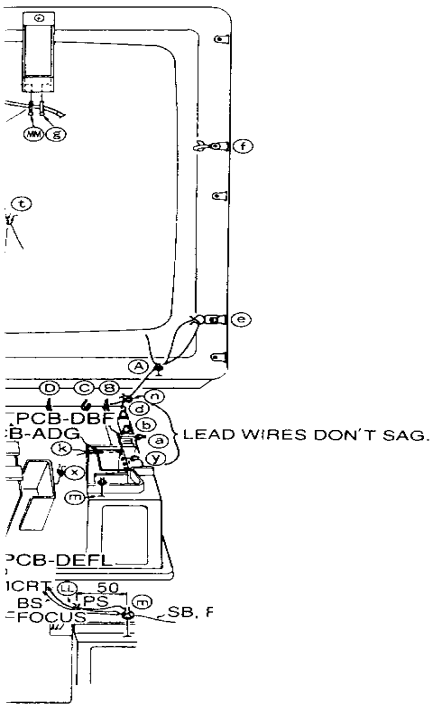
| MARK | LEADS TO BE CLAMPED |
|------|--|
| A | EA,EP,LD,RA,PL,PY,CX,PC, FROM DG-COIL |
| B | EP,LD,RA,PL,PG,CX,EA |
| C | EP,LD,RA,PL,PG,CX,EA |
| D | EP,LD,RA,PG,CX,EA |
| E | EP,LD,RA,CX,EA,AP,PF |
| F | EP,LD,RA,CX,AP,PF |
| G | EP,LD,RA,KY,PF |
| H | EP,LD,RA,KY,PF |
| J | EP,KY,PF |
| K | EP,KY,NS,PF |
| L | EP,SC |
| M | CX |
| N | KY,NS,SC,EP |
| P | KY,NS,SC,PJ,PE,DB,DC, |
| Q | PE,PJ,DB,DC,LEAD OF DY,AF,AE,AC,AD,PT,CX |
| R | DB,DC,PE,PJ(2 LAYER CLAMP),PT,CX,CT,AE,AD,AC,AF,AP,LP,DA,AY,AL |
| S | DB,DC,PE,PJ(2 LAYER CLAMP),LP,DA,AP,AK |
| T | AP,DA,PT |
| U | DA,CT,AP,LP,PT,CX |
| V | DA,CT,AP,LP,PT,CX |
| W | DB,DC,KY,PE,SC |
| X | PE,PJ,PY,DY LEADS,PT |
| Y | PG,PY,PC, FROM DG-COIL |
| a | PG,PY,PC, FROM DG-COIL |
| b | PG,PY,PC, FROM DG-COIL |
| d | PG,PY,PC, FROM DG-COIL |
| e | CX,PC FROM DG-COIL,EP,LD,RA,PL,PY,EA |
| f | CX |
| g | ANODE-LEAD |
| h | Focus-LEAD, SB |
| j | KY,DC,SC,DB,PE |
| k | PE,PR,PT, |
| l | THE LEADS OF PCB-CONTROL |
| m | Fous-LEAD, SB,PS |
| n | EP,RA,LD,EA,PL,PY,CX,PC FROM DG-COIL |
| q | Focus-LEAD, SB,SA |
| r | SA(2 LAYER CLAMP), Focus-LEAD, SB,PS |
| t | DY,SA |
| AA | SB |
| BB | SN,SD,LD2,AU2,ST,KY,NS,SC |
| CC | SB |
| EE | CT,PS |
| FF | CT,PS |
| GG | CT,LP,PA,CA,DA,AP,PT,CX |
| HH | YM |
| JJ | KY,NS,SC |
| KK | KY,NS,AV,AW |
| LL | Focus-LEAD, SB,PS |
| MM | ANODE-LEAD, |
| NN | KY,NS,SC,SN,SD,LD2,AU2,ST |

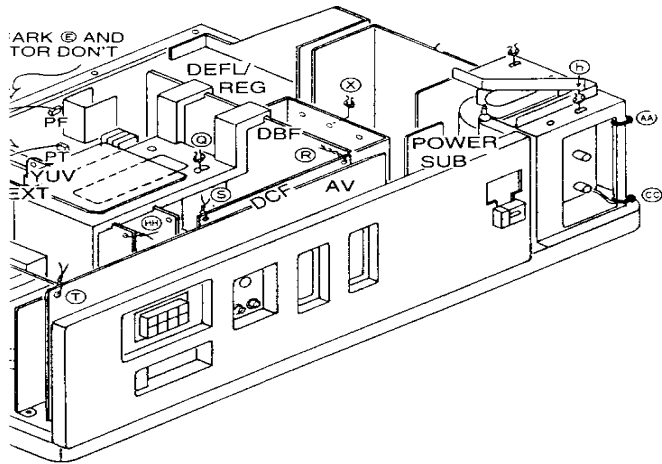


Lead Dressing

ome close to the heat generating or high-tension ion.
 the anode cap. If the mounting angle of the anode nem to the initial angle and route.

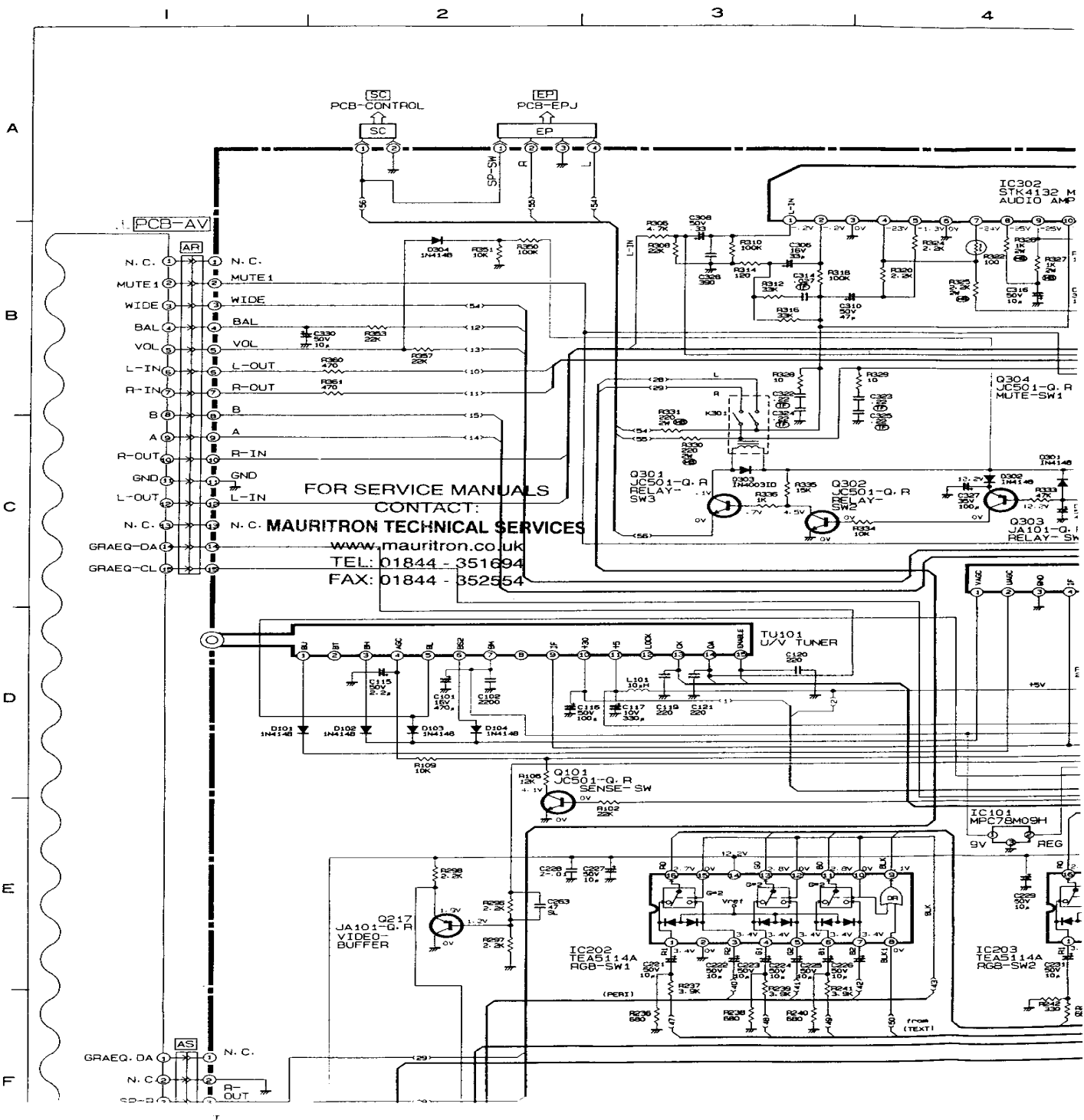






LAMPED FOR CONNECTOR LEAD

| CONNECTOR | CLAMPED MARK |
|------------|--|
| ANODE-LEAD | MM-g |
| Focus-LEAD | g-r-LL-m-h |
| AC | Q-R |
| AD | Q-R |
| AE | Q-R |
| AF | Q-R |
| AK | S |
| AL | R |
| AP | E-F-T-U-GG-V-R-S-T |
| AU2 | BB-NN |
| AV | KK |
| AW | KK |
| AY | R |
| CA | GG |
| CT | FF-EE-R-V-GG-U |
| CX | f-e-A-n-B-C-D-E-F-U- GG-V-R-Q-M |
| DA | T-S-R-GG-U |
| DB | j-W-P-S-R-Q |
| DC | j-W-P-S-R-Q |
| DY | t-Q-X |
| EA | A-e-A-n-B-C-D-E |
| EP | A-e-A-n-B-C-D-E-F-G-H-J- K-N-L |
| KY | j-W-I-P-JJ-NN-KK-BB-N- K-J-H-G |
| LD | A-e-A-n-B-C-D-E-F-G-H |
| LD2 | BB-NN |
| LP | U-GG-V-R-S |
| NS | K-N-BB-KK-NN-JJ-P |
| PA | GG |
| PC | A-e-A-n-d-b-a-Y |
| PE | j-I-W-I-P-Q-X-k |
| PF | E-F-G-H-J-K |
| PG | D-C-B-d-b-a-Y |
| PJ | P-S(2 LAYER CLAMP)-R(2 LAYER CLAMP)-Q-X |
| PL | A-e-A-n-B-C |
| PR | k |
| PS | FF-EE-r-LL-m |
| PT | T-R-V-U-T-Q-X-k |
| PY | A-e-A-n-d-b-a-Y-X |
| RA | A-e-A-n-B-C-D-E-F-G-H |
| SA | q-r(2 LAYER CLAMP)-t |
| SB | q-r-LL-m-h-AA-CC |
| SC | j-W-I-P-JJ-NN-BB-L-N |
| SD | BB-NN |
| SN | BB-NN |
| ST | BB-NN |
| YM | HH |



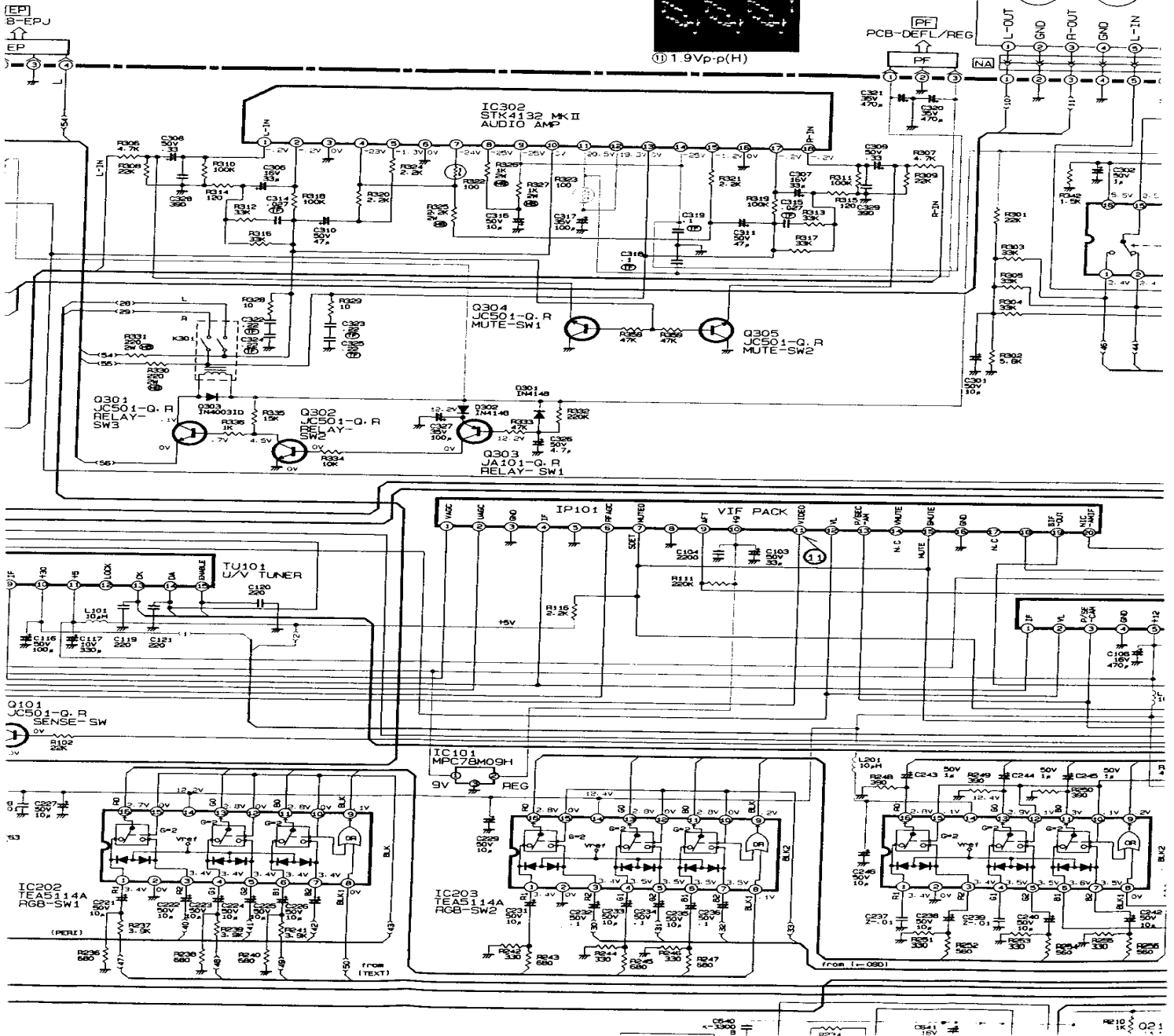
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6

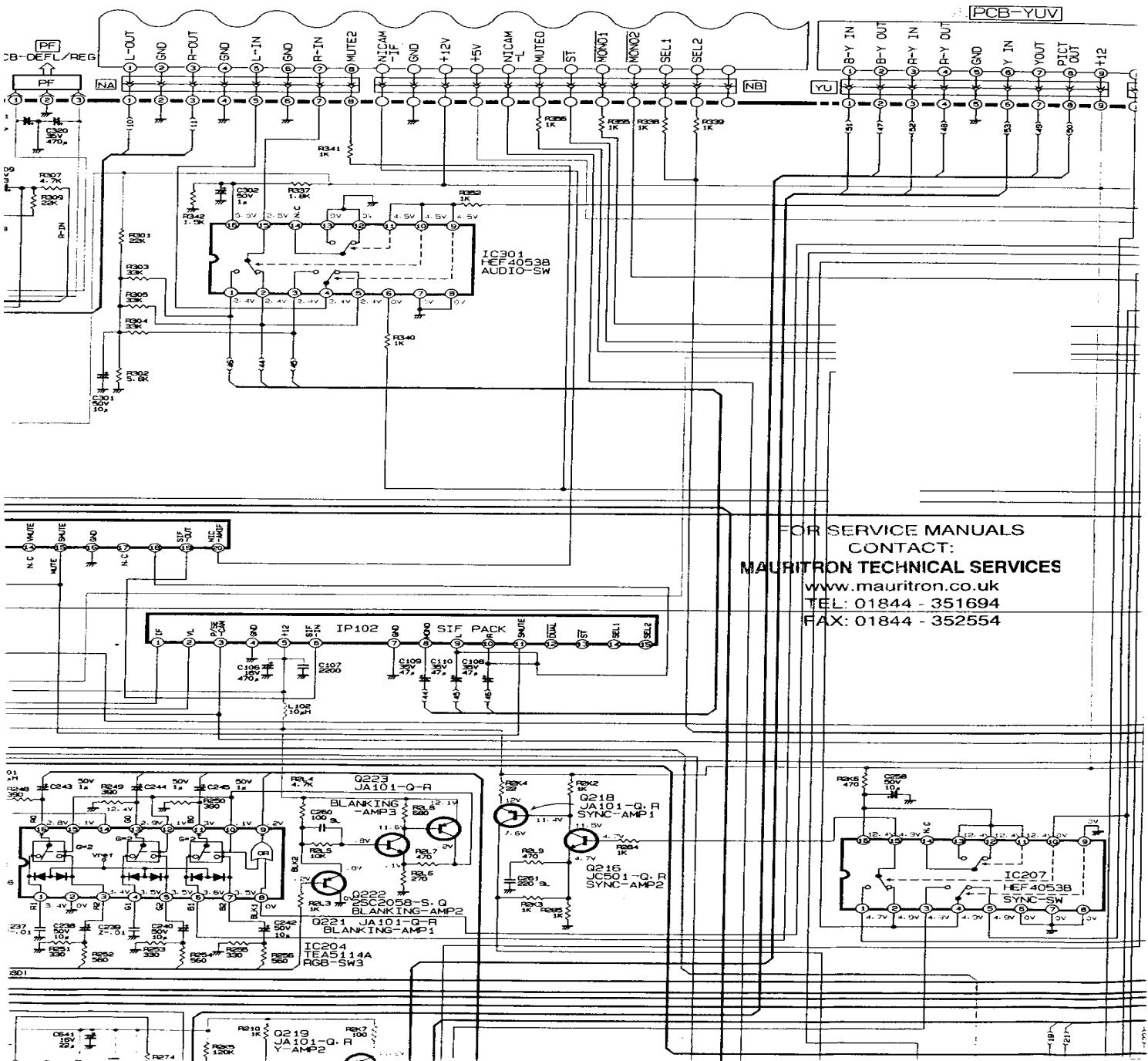
7

8

9

PCB-TERMINAL

PCB-YUV



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9

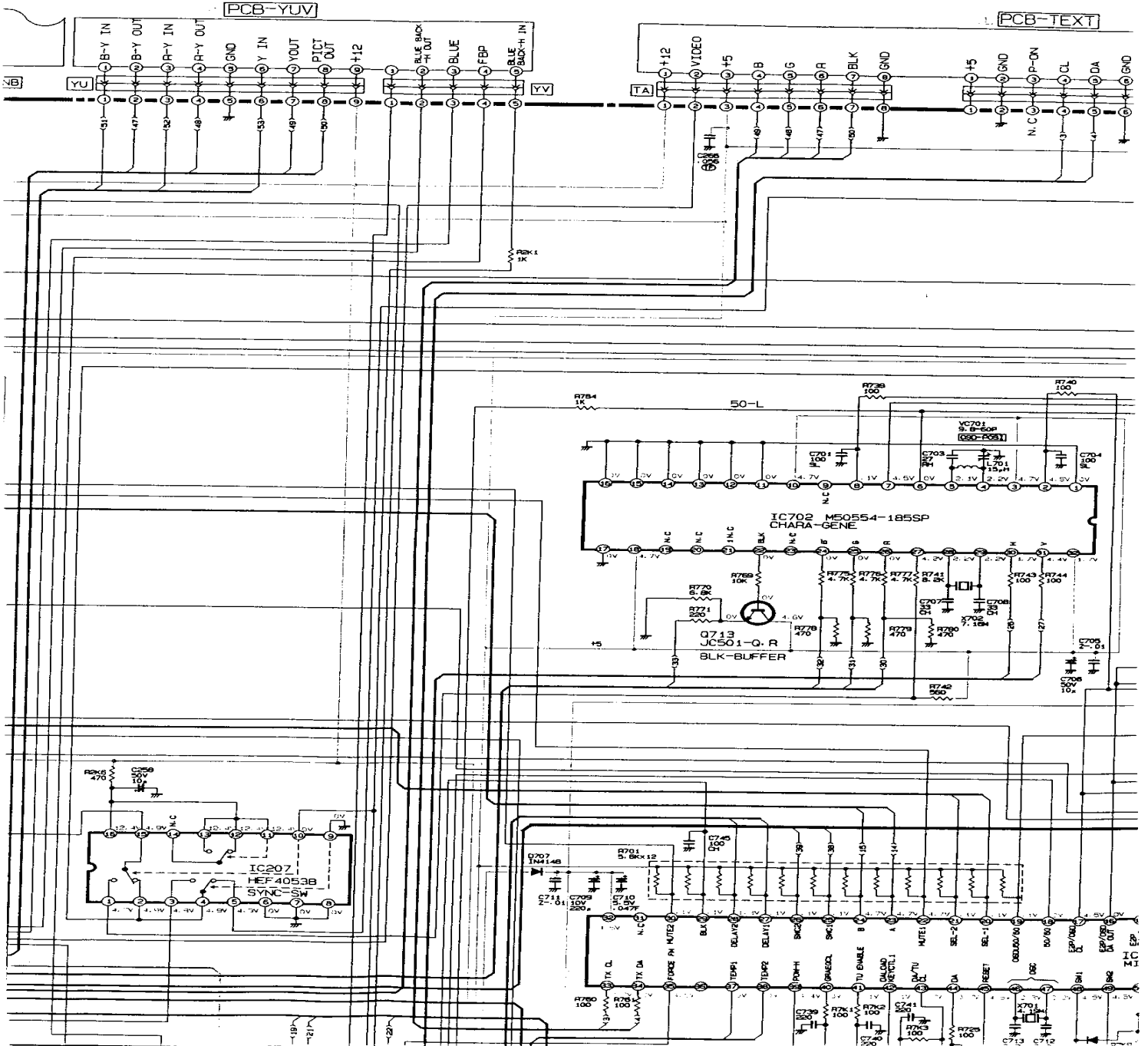
10

11

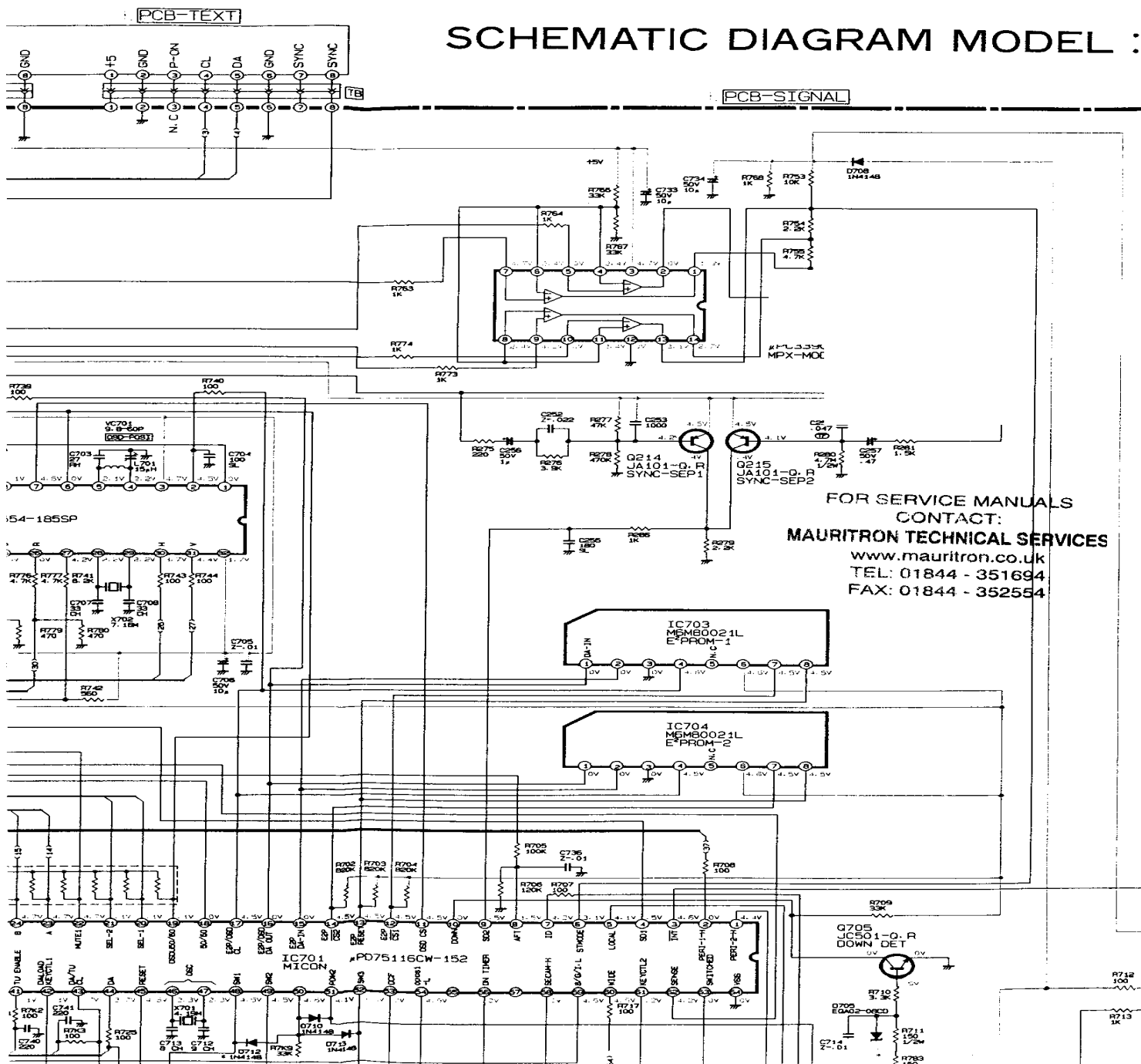
12

PCB-YUV

PCB-TEXT



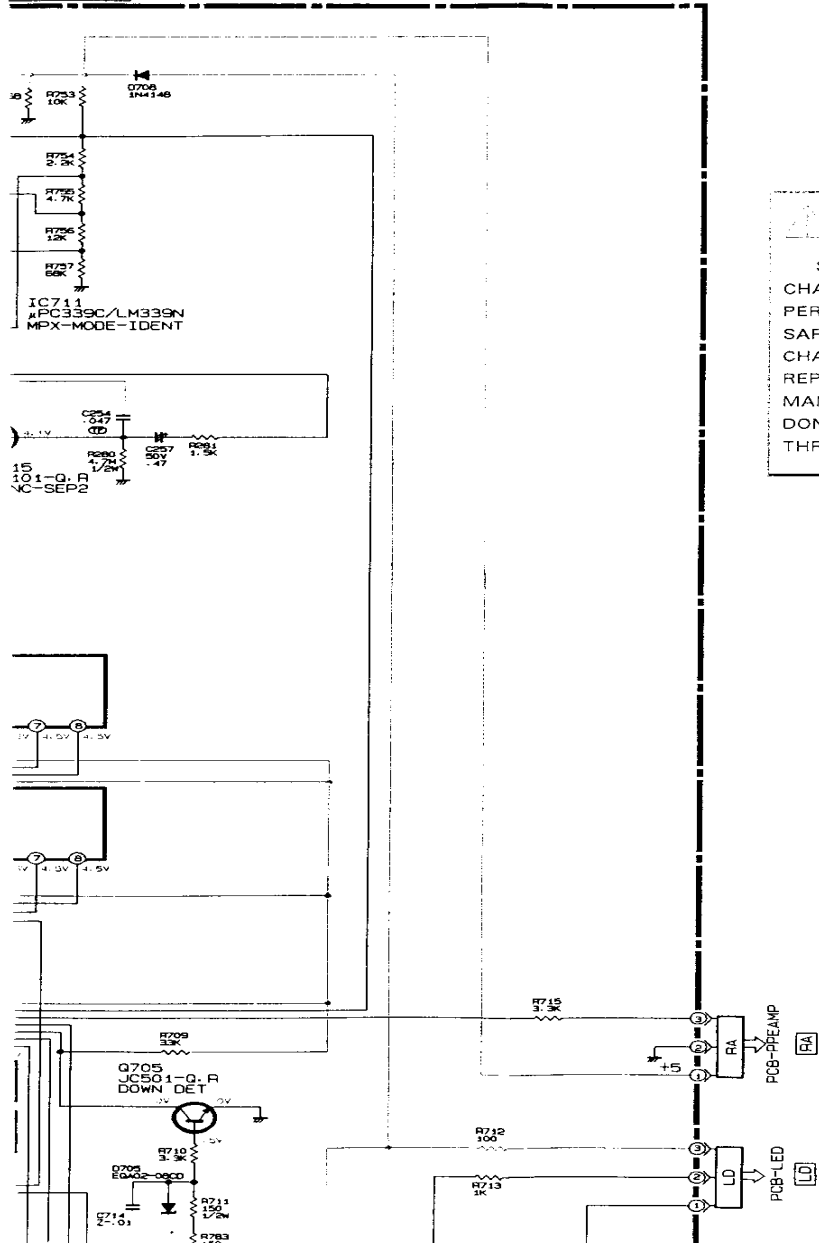
SCHEMATIC DIAGRAM MODEL :



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DIAGRAM MODEL : CT-33C1STX

3-SIGNAL



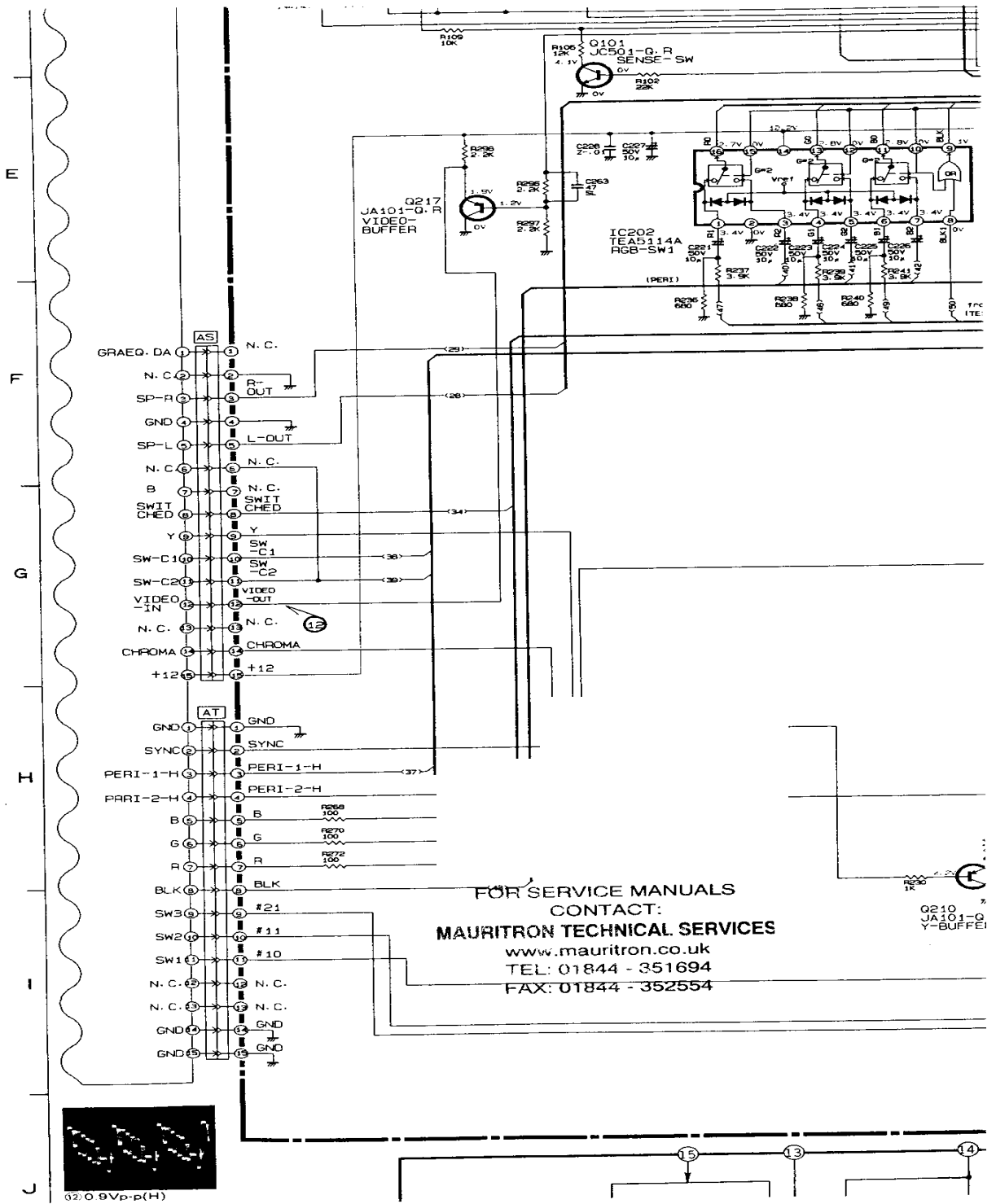
SERVICING PRECAUTION

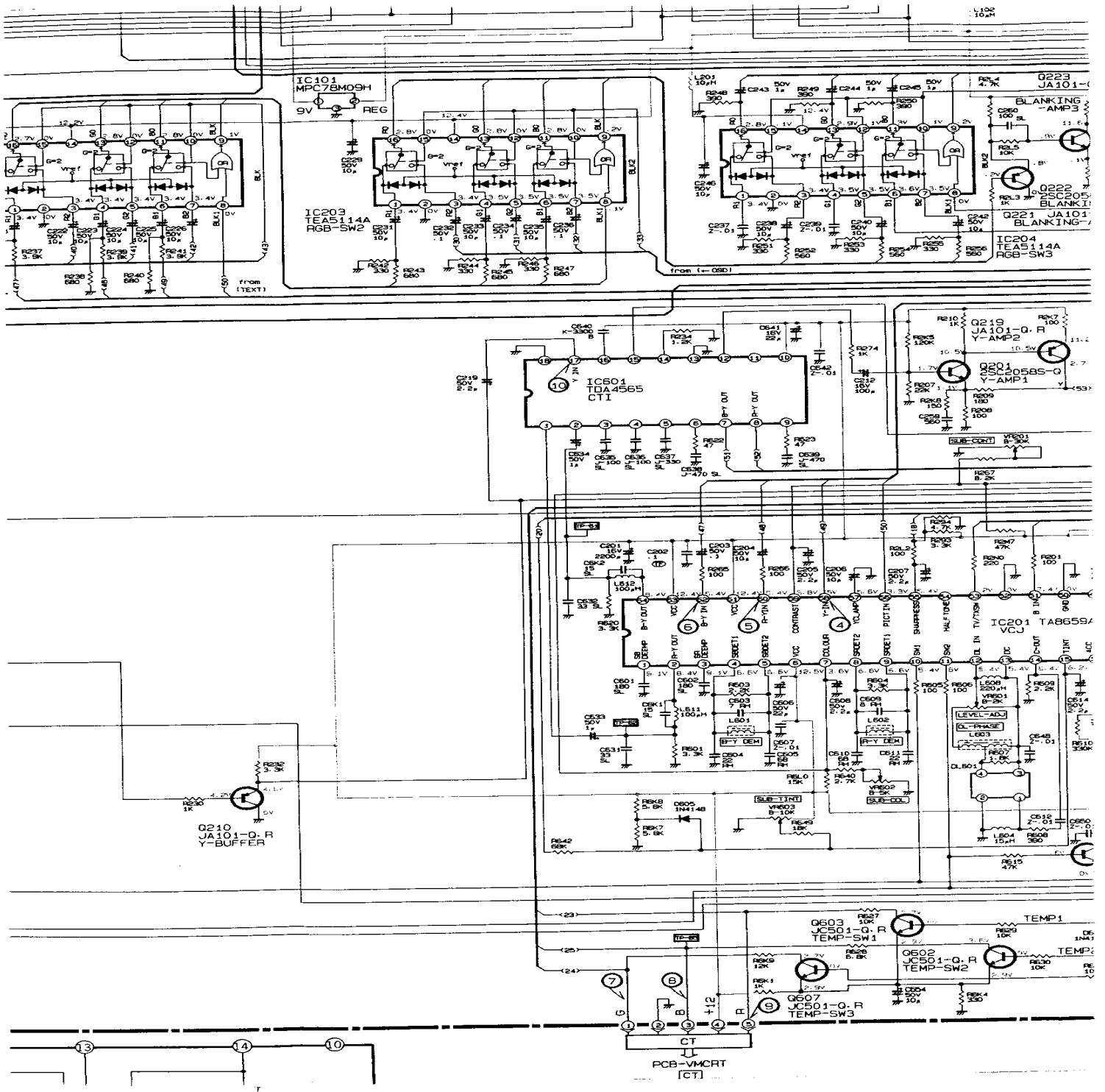
SYMBOLS INDICATE COMPONENTS HAVING SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY AND PERFORMANCE. THEREFORE REPLACEMENT OF ANY SAFETY PARTS SHOULD BE IDENTICAL IN VALUE AND CHARACTERISTICS. FOR ACCURACY OF THE REPLACEMENT REFER TO THE PARTS LIST OF SERVICE MANUAL.

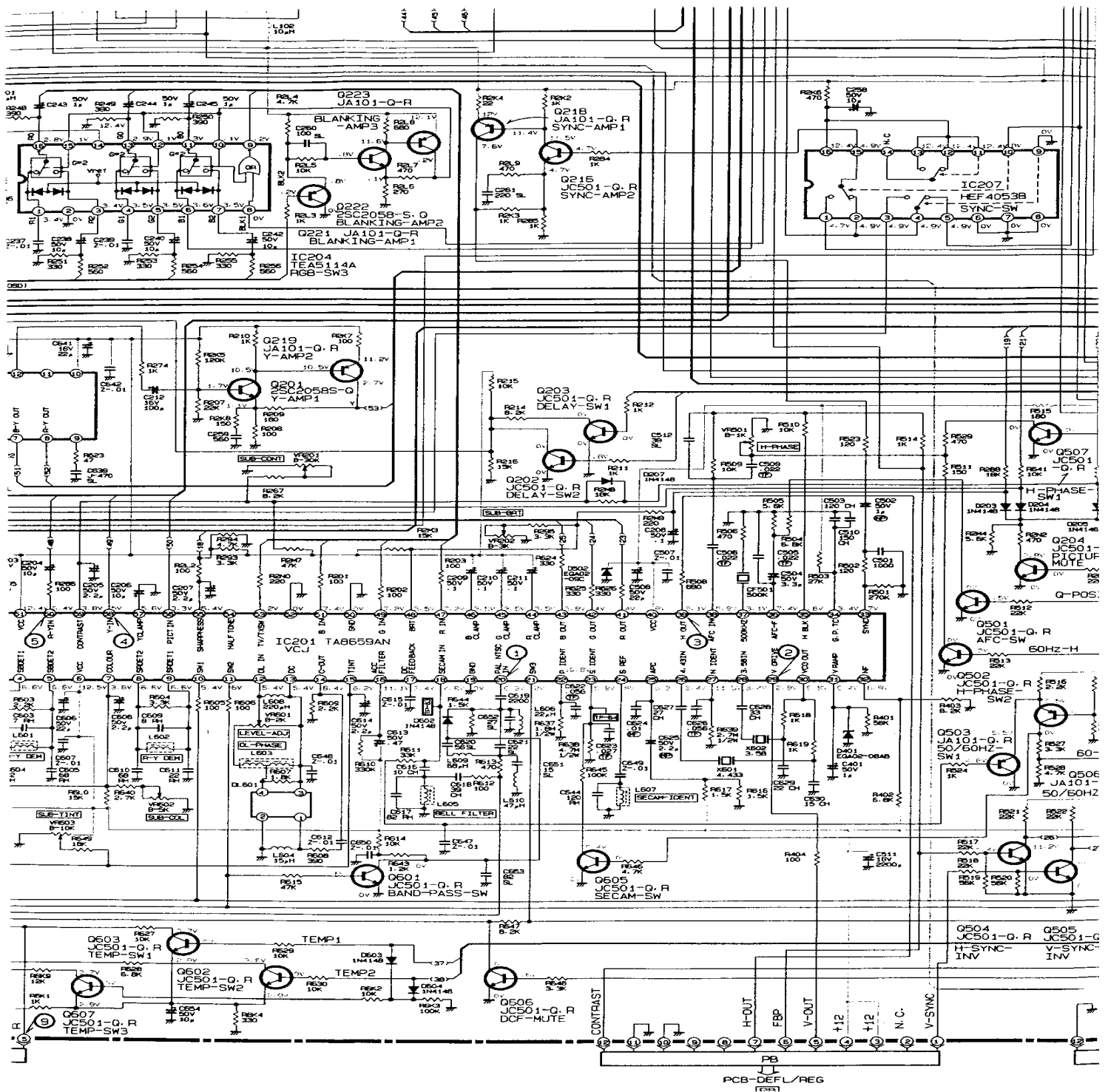
DON'T DEGRADE THE SAFETY OF THE RECEIVERS THROUGH IMPROPER SERVICING.

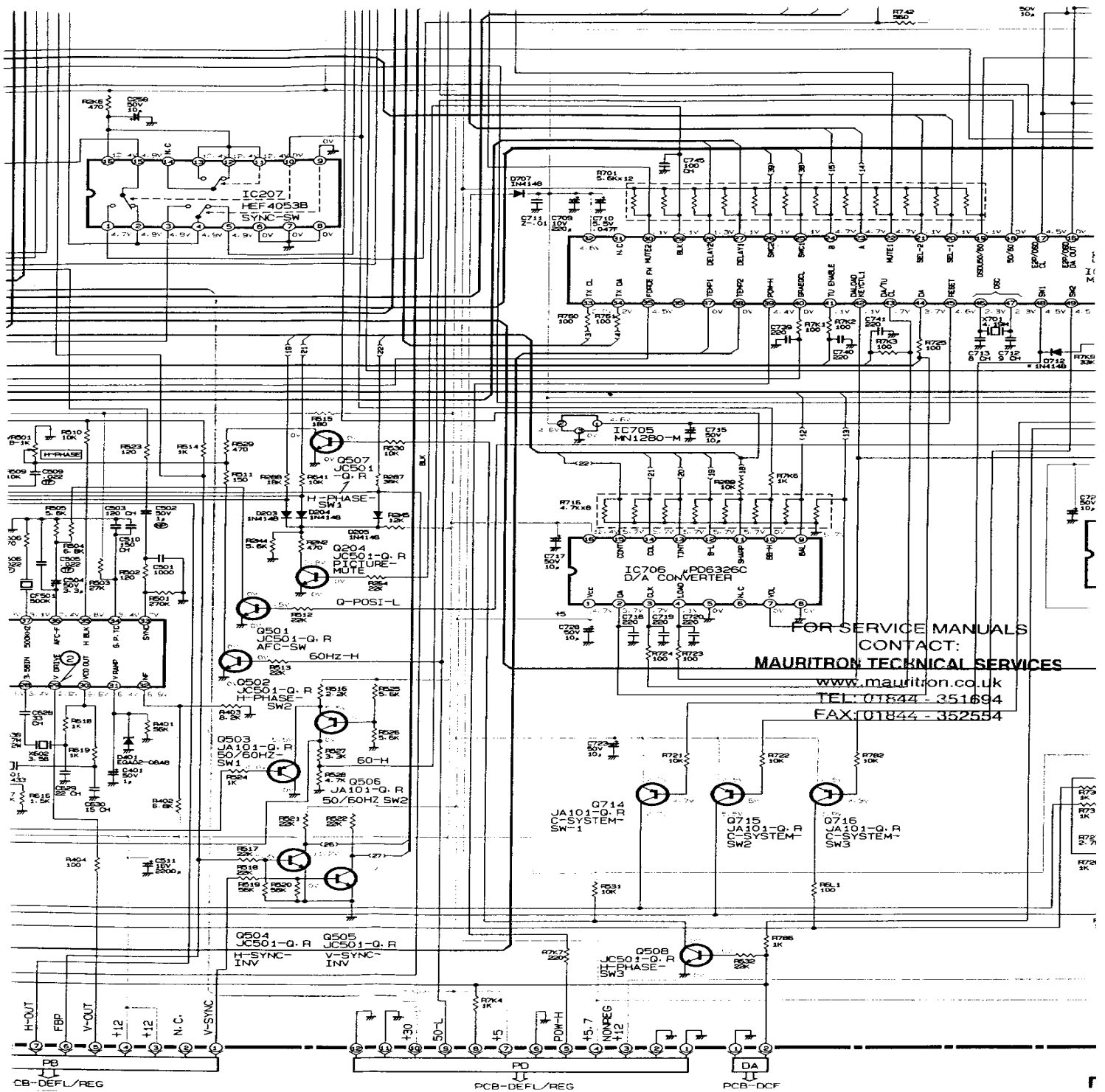
NOTE 1:

- 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: ±5%, K = ±10% M = ±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
 - BP : Polypropylene film capacitor
 - TANT : Tantalum capacitor
 - TF : Twin film capacitor.
 - MF PP : Polyester polypropylene film capacitor.
 - MPP : Metallize plastic film capacitor.
 - NP : Non polarized electrolytic capacitor.
 - PS : Styrol capacitor.
 - SC : Semi conductor capacitor.
 - # : Electrolytic capacitor
- The DC working voltage of capacitor, if not specifically designated is: 50V
- The tolerance of capacitor value, if not specifically designated is: ±10% for polyester capacitor







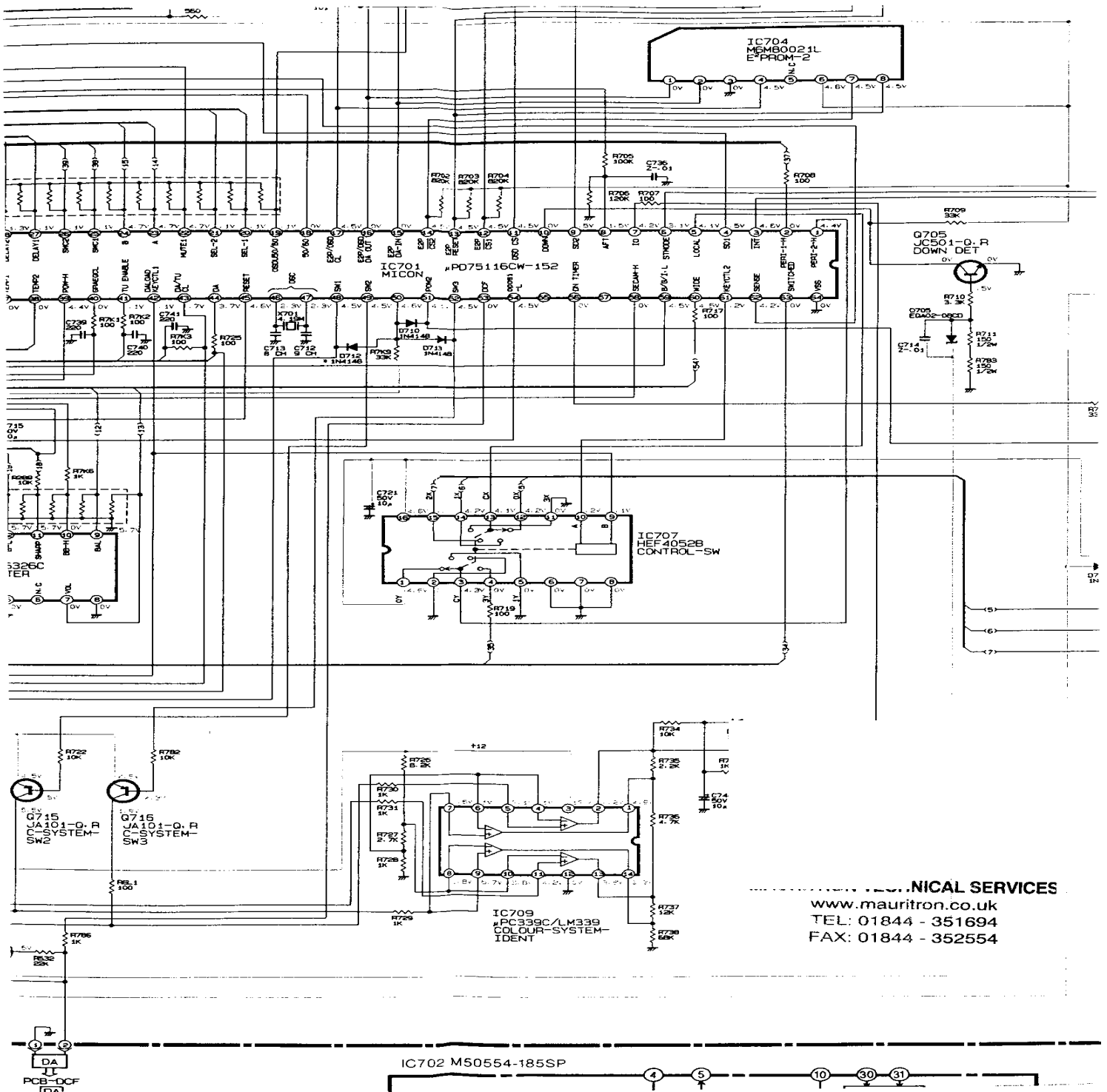


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CB-DEFL/REG

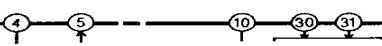
PCB-DEFL/REG

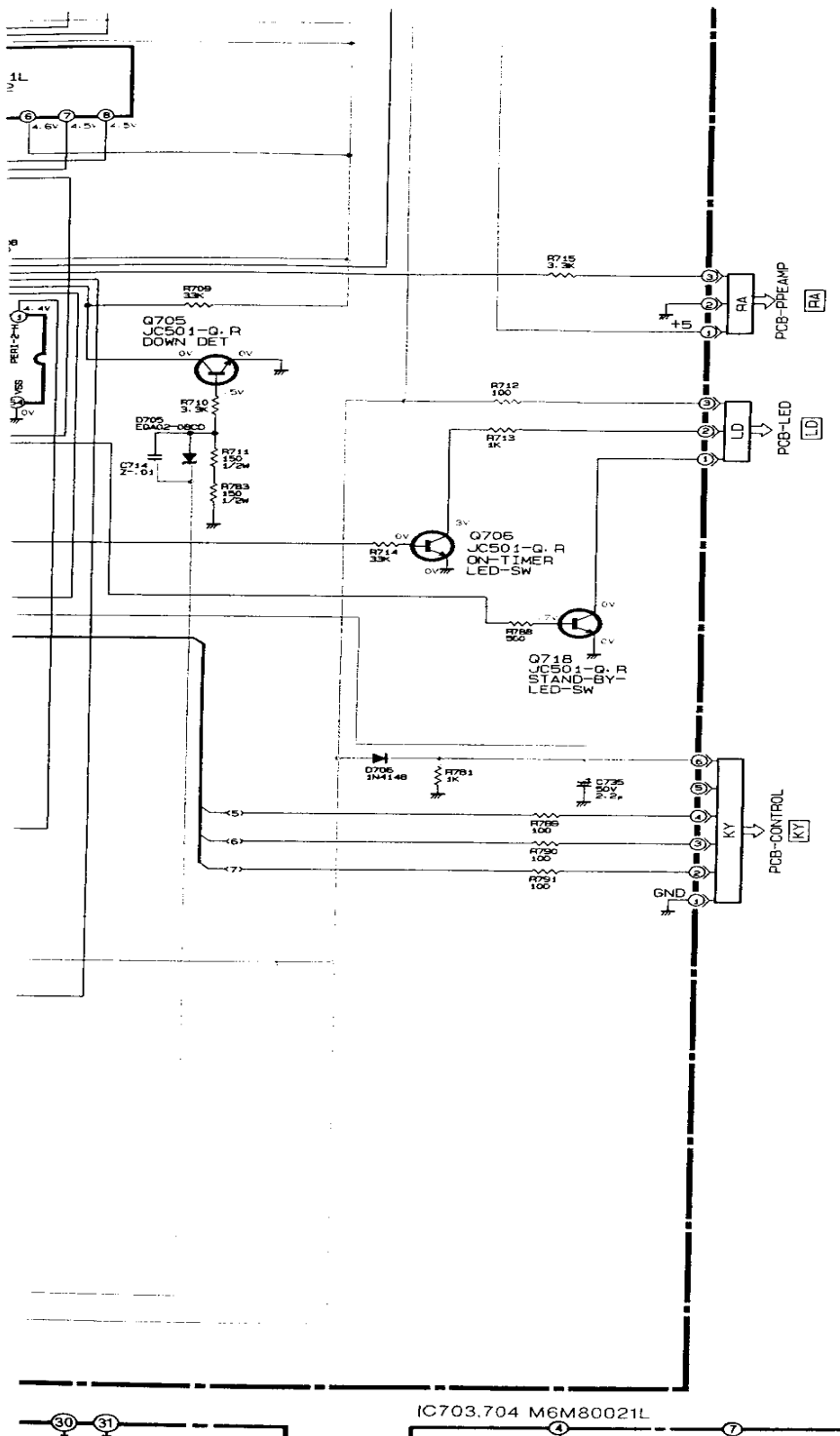
PCB-DCF



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IC702 M50554-185SP



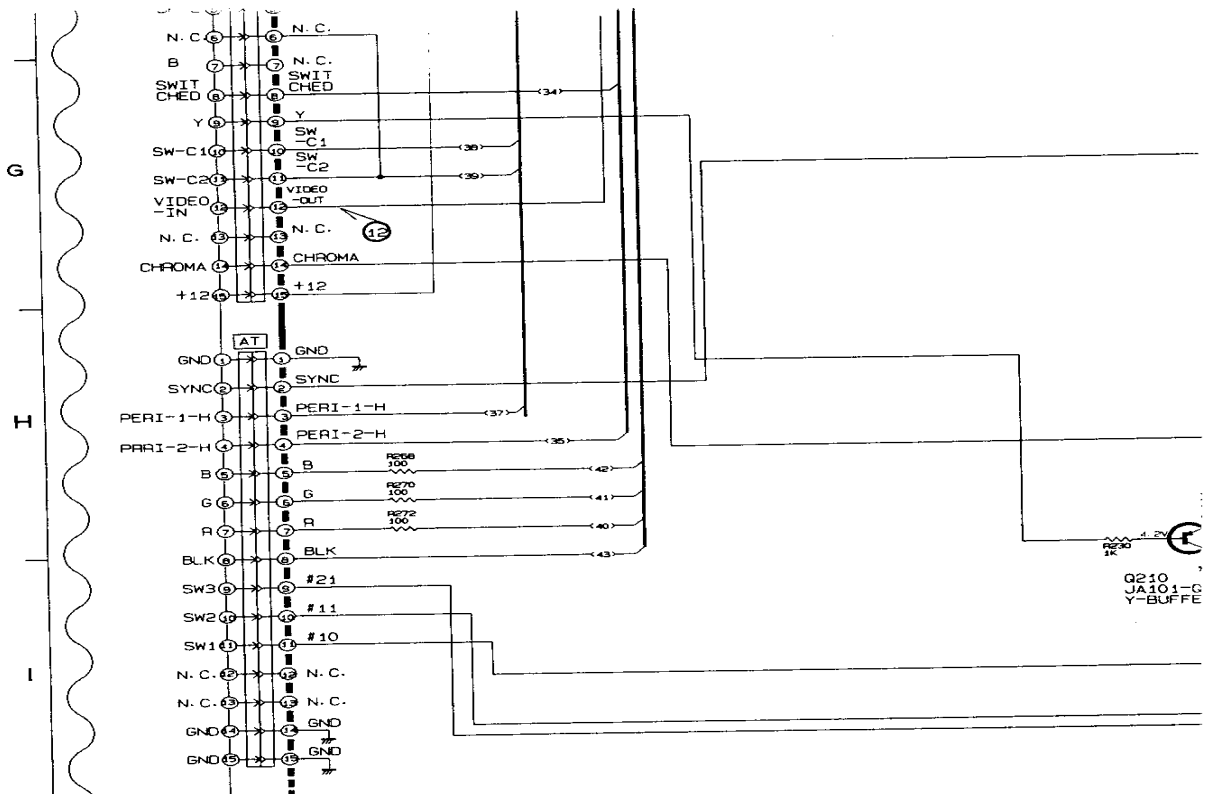


- (ML) : Metal linear resistor.
 - (S) : Fixed composition resistor
 - (W) : Wire wound resistor
 - (M) : Metal film resistor
5. The tolerance of resistor value, if not specifically designated, is: $\pm 5\%$, $K = \pm 10\%$, $M = \pm 20\%$
 6. The unit of capacitance, if not specifically designated, is:
 - a) μF , for numbers less than 1
 - b) PF, for numbers more than 1
 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) : Metallize plastic film capacitor.
 - (NP) : Non polarized electrolytic capacitor.
 - (PS) : Styrol capacitor.
 - (SC) : Semi conductor capacitor.
 - # : 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 $J = \pm 5\%$ $K = \pm 10\%$ $M = \pm 20\%$ $P = \pm 100\%$ 0%
 - $C = \pm 0.25PF$ $D = \pm 0.5PF$ $F = \pm 1PF$ $Z = \pm 80\%$ -20% $N = \pm 30\%$

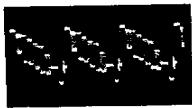
| SPECIFIC SYMBOL | | | |
|-----------------|------------------|--|---|
| | Zener Diode | | Varistor |
| | Varicap | | Crystal unit |
| | Posistor | | Air Gap |
| | Thermistor | | Part (resistor) attached on the copper-foil side of PCB |
| | Fusible Resistor | | Ceramic filter |

NOTE 2:

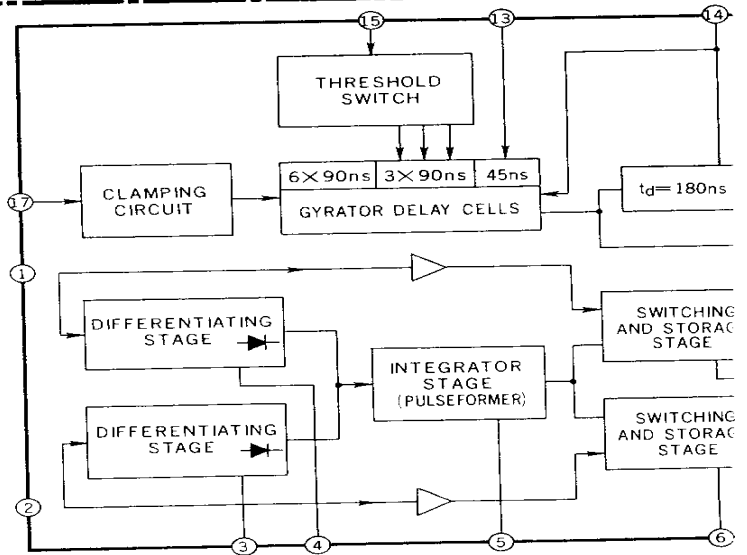
1. DC voltages were measured from points indicated to the circuit ground with a high-Z voltmeter.
2. Waveforms were taken with offset PAL colour bar signal.
3. This is a basic schematic diagram. Some sets may be subject to modification according to engineering improvement.

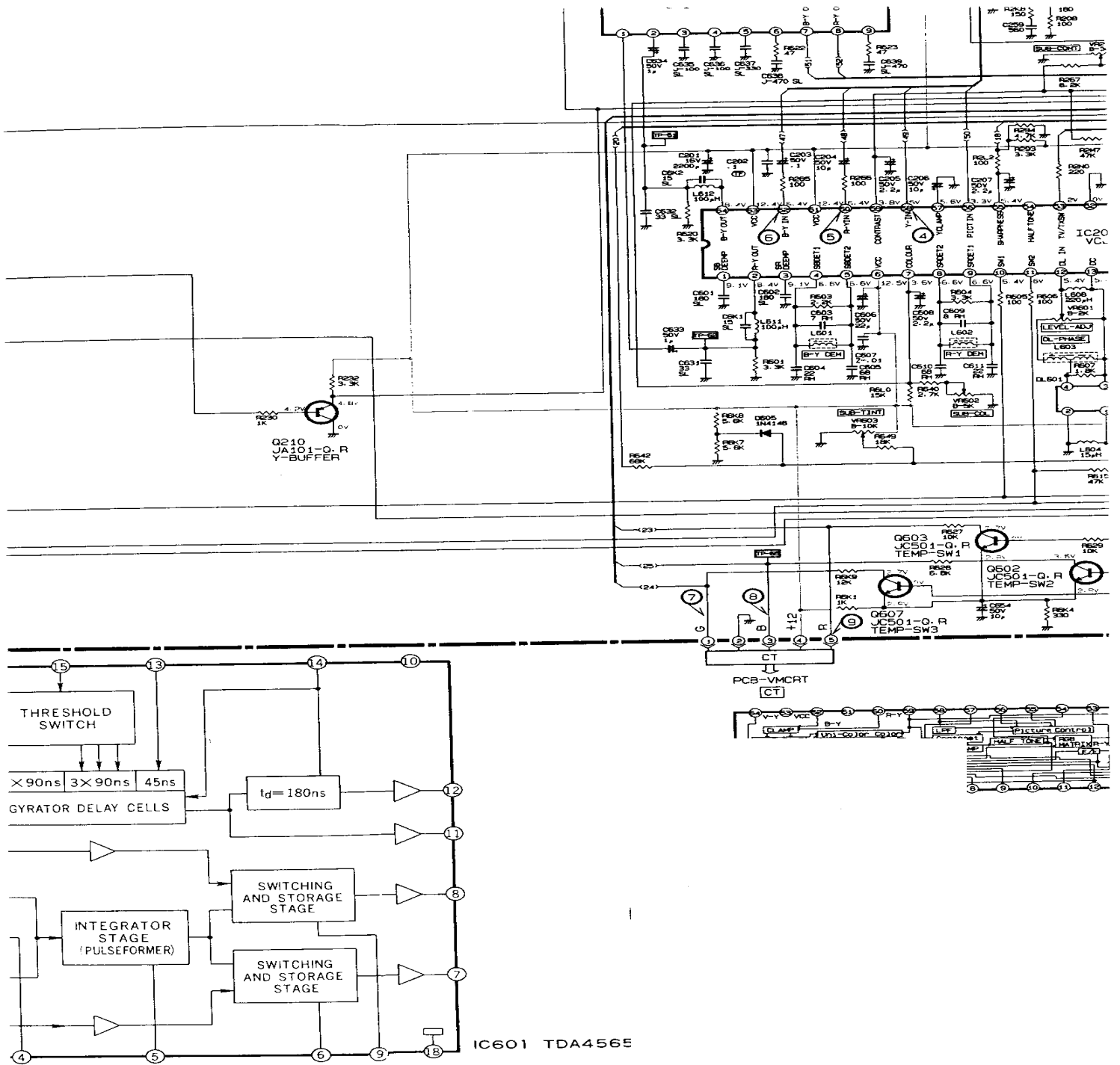


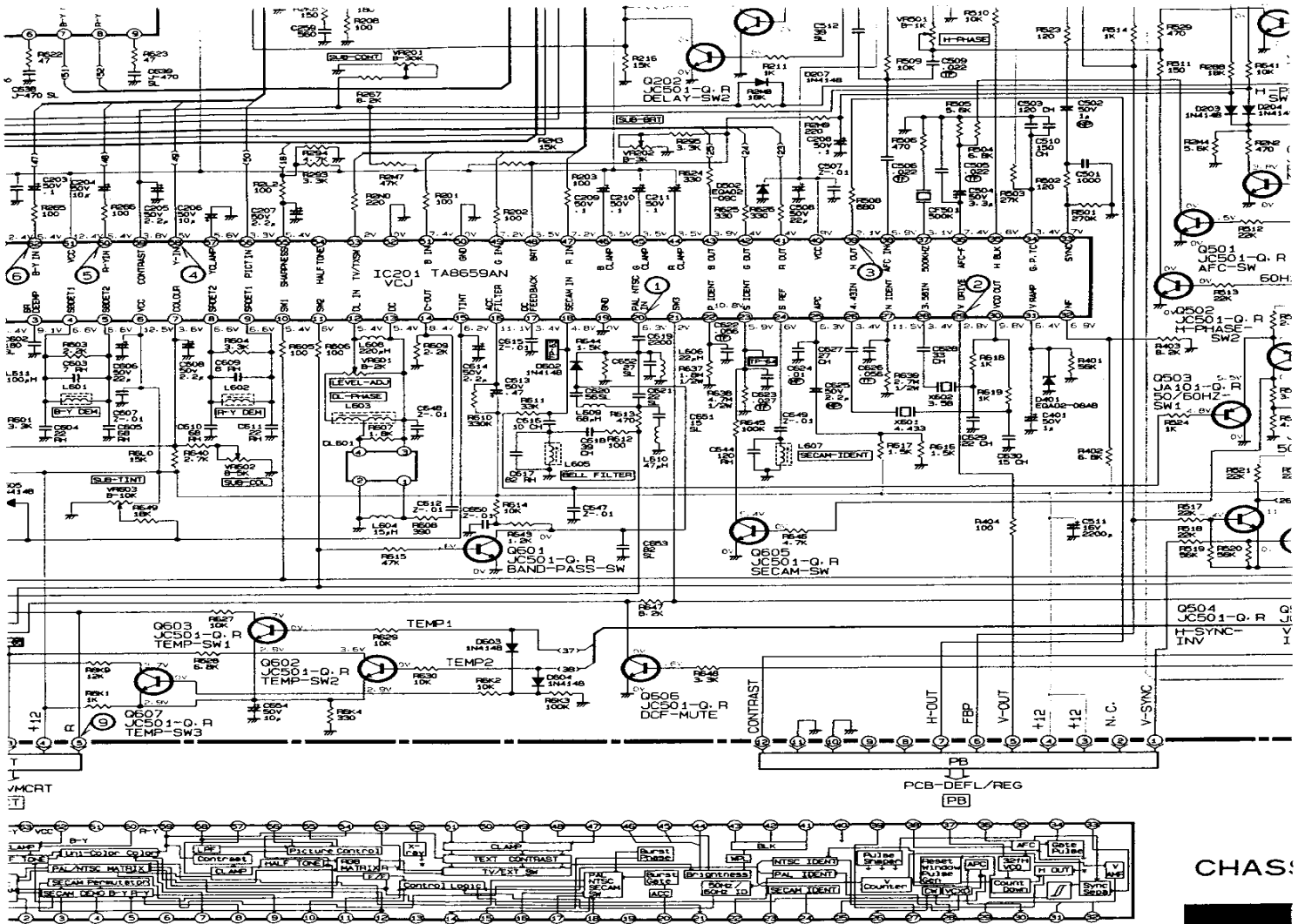
Q210
 JA101-C
 Y-BUFFE



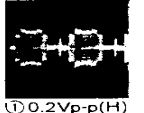
(12) 0.9Vp-p(H)







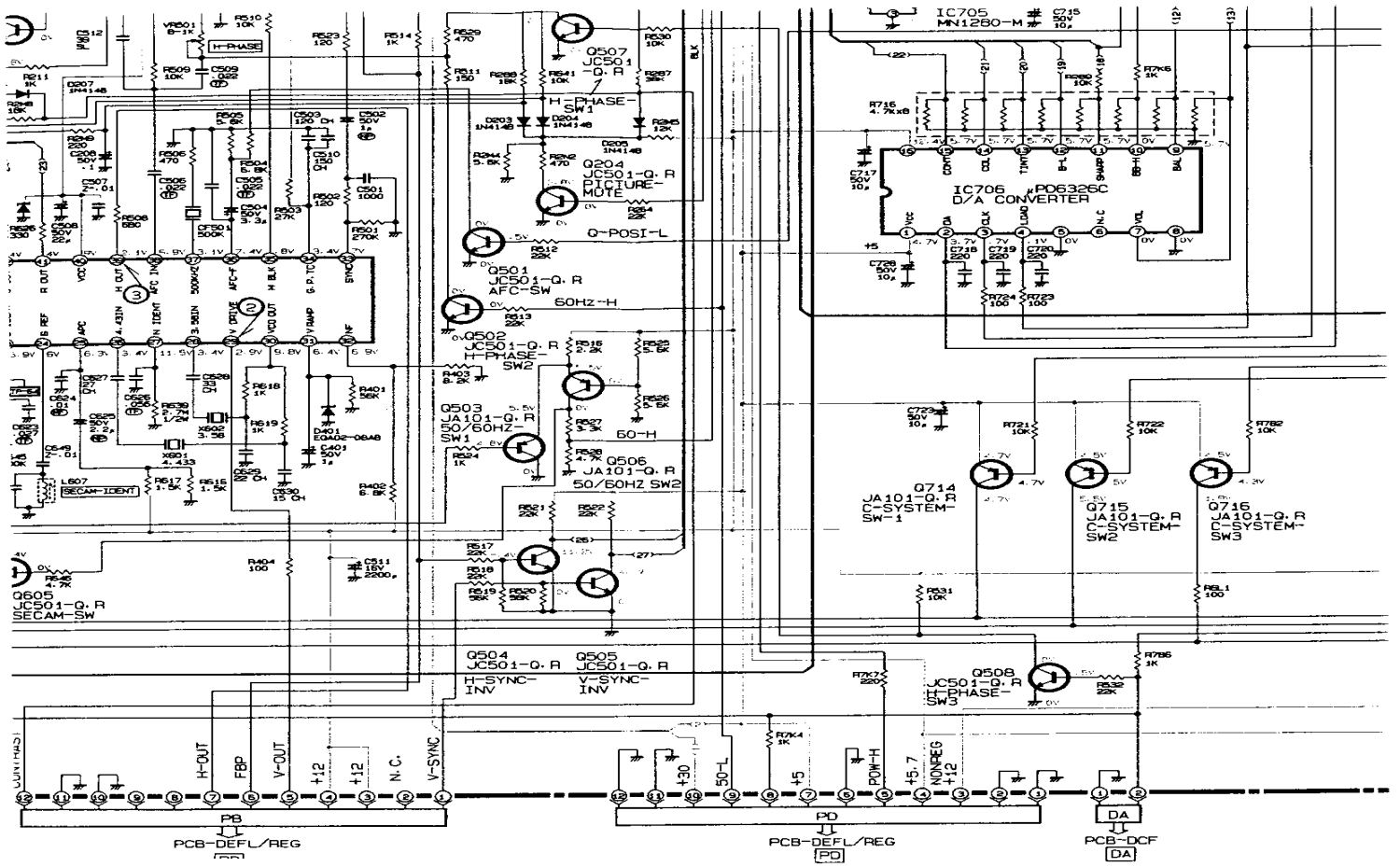
CHASSIS



① 0.2Vp-p(H)



② 0.7Vp-p(H)



A. L. K. T. S. L. A.

CHASSIS WAVEFORMS



① 0.2Vp-p(H)



② 4Vp-p(V)



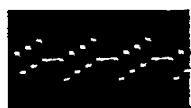
③ 5.2Vp-p(H)



④ 1Vp-p(H)



⑤ 0.9Vp-p



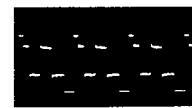
⑥ 0.7Vp-p(H)



⑦ 5Vp-p(H)



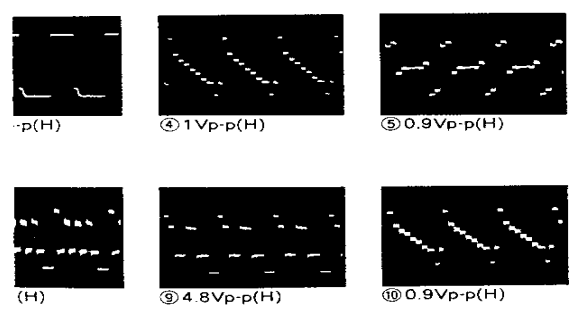
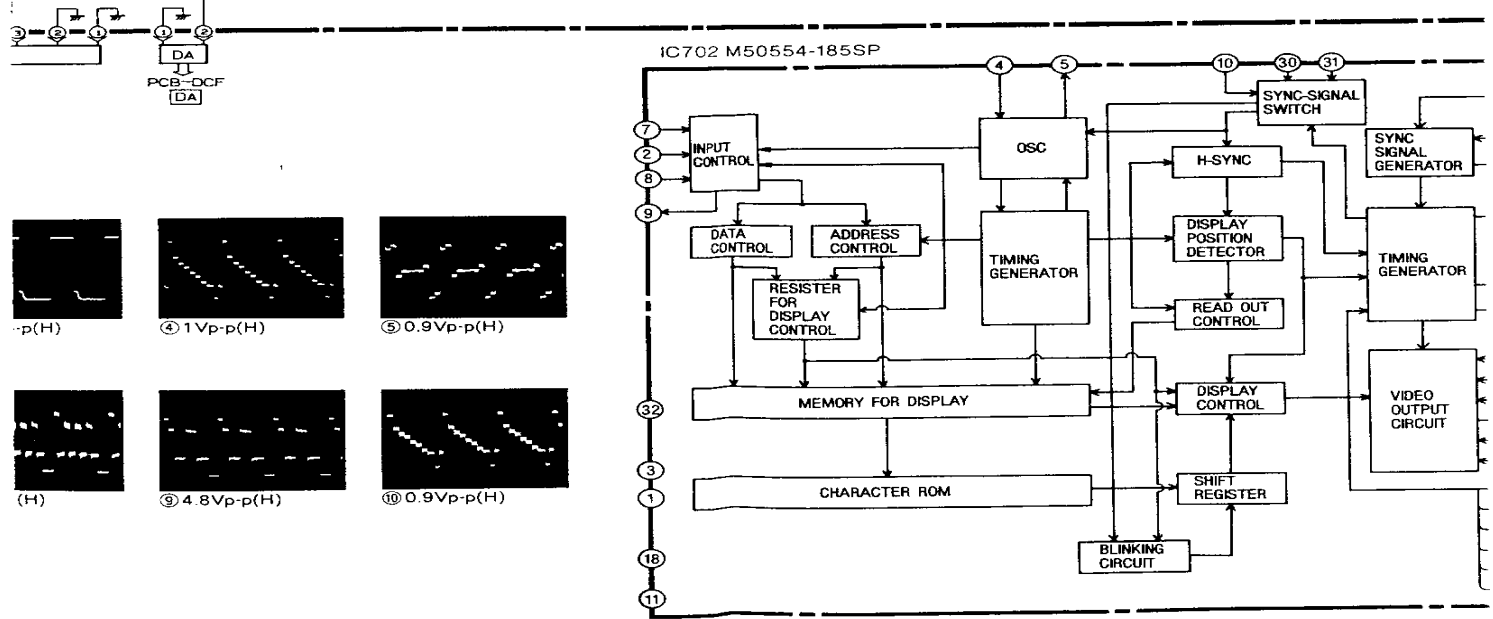
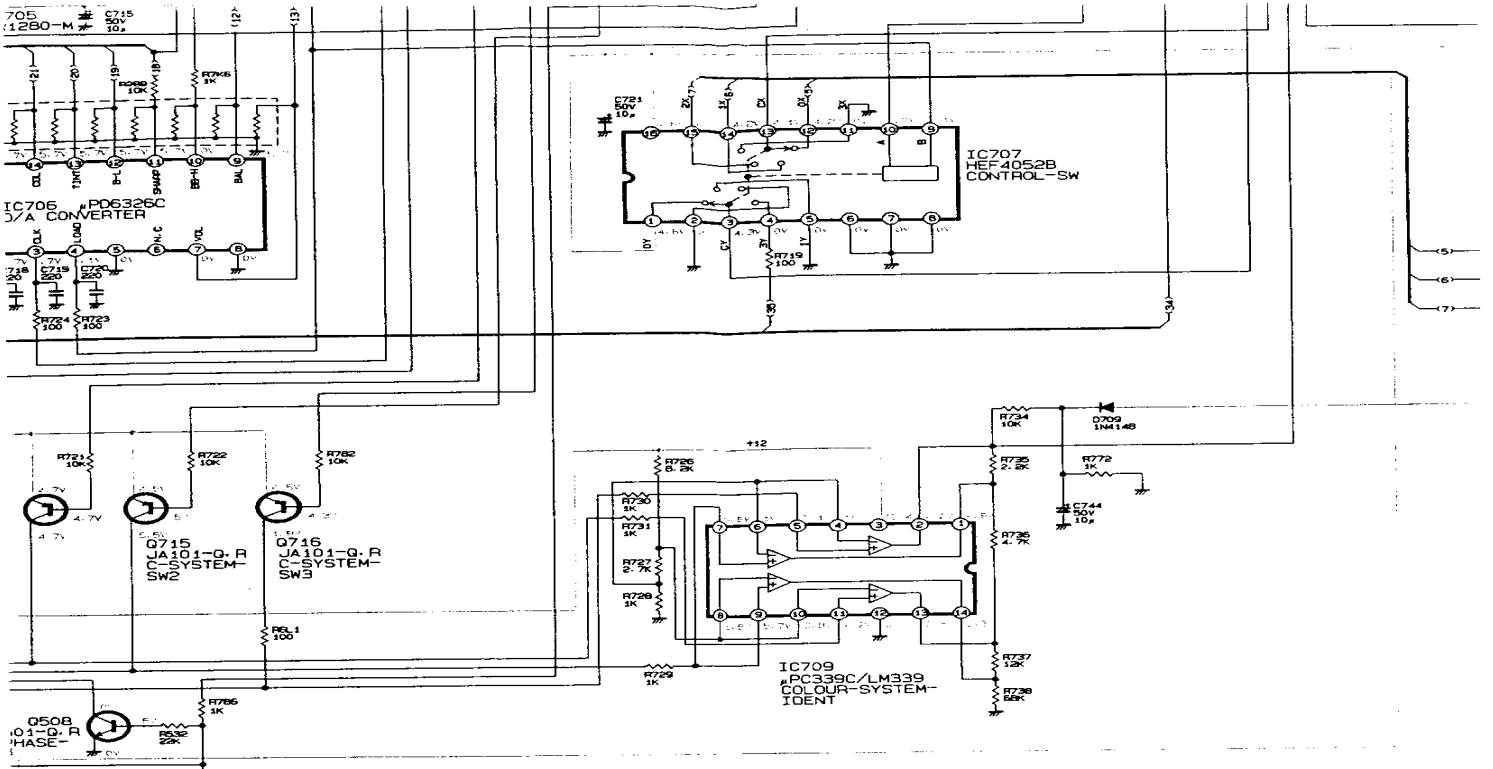
⑧ 5Vp-p(H)

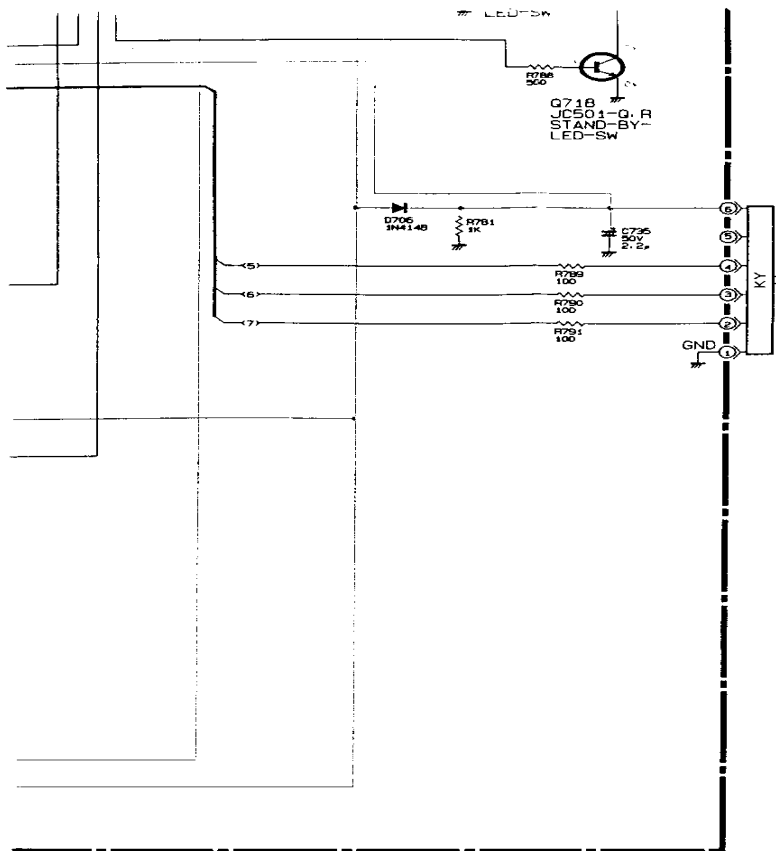


⑨ 4.8Vp-p(H)



⑩ 0.9Vp-p



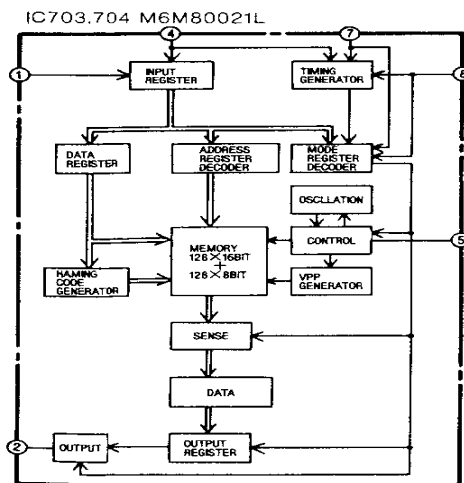
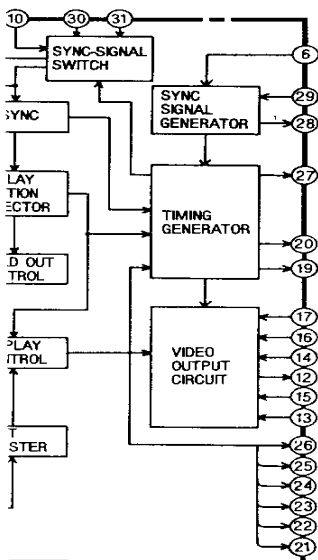


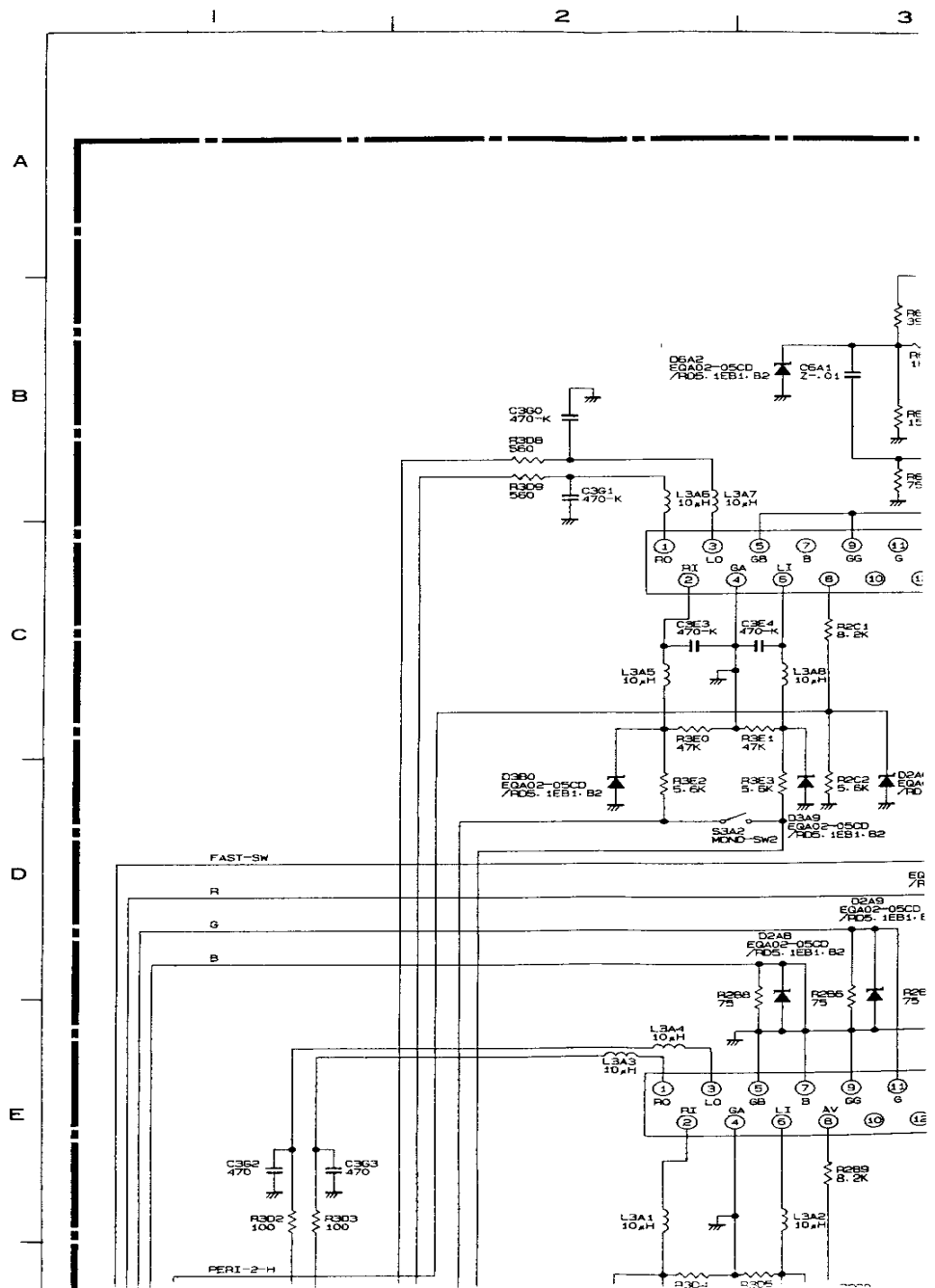
| SPECIFIC SYMBOL | | | |
|-----------------|------------------|--|---|
| | Zener Diode | | Varistor |
| | Varicap | | Crystal unit |
| | Posistor | | Air Gap |
| | Thermistor | | Part (resistor) attached on the copper-foil side of PCB |
| | Fusible Resistor | | Ceramic filter |

ints indicated to the circuit

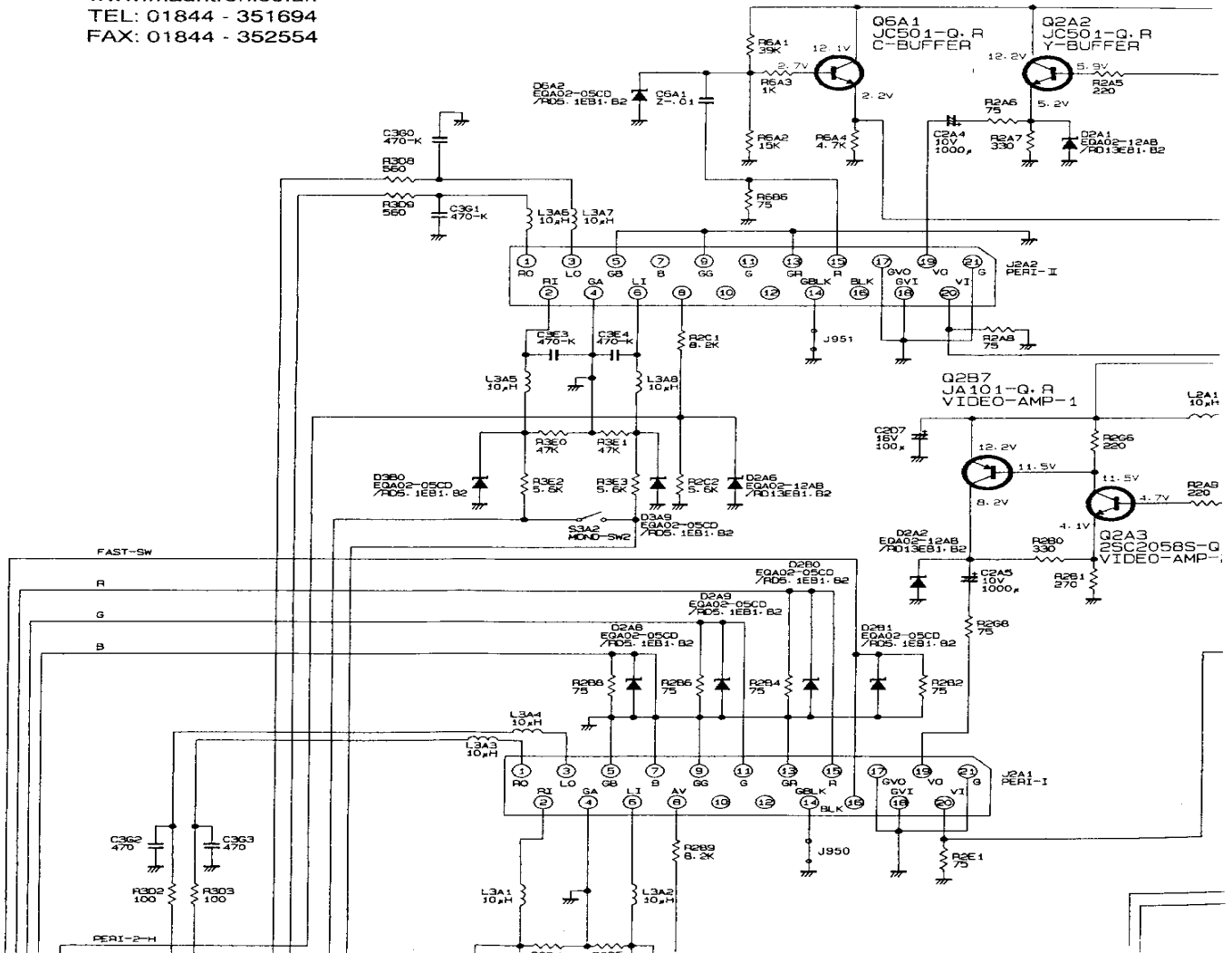
.L colour bar signal
me sets may be subject to
improvement.

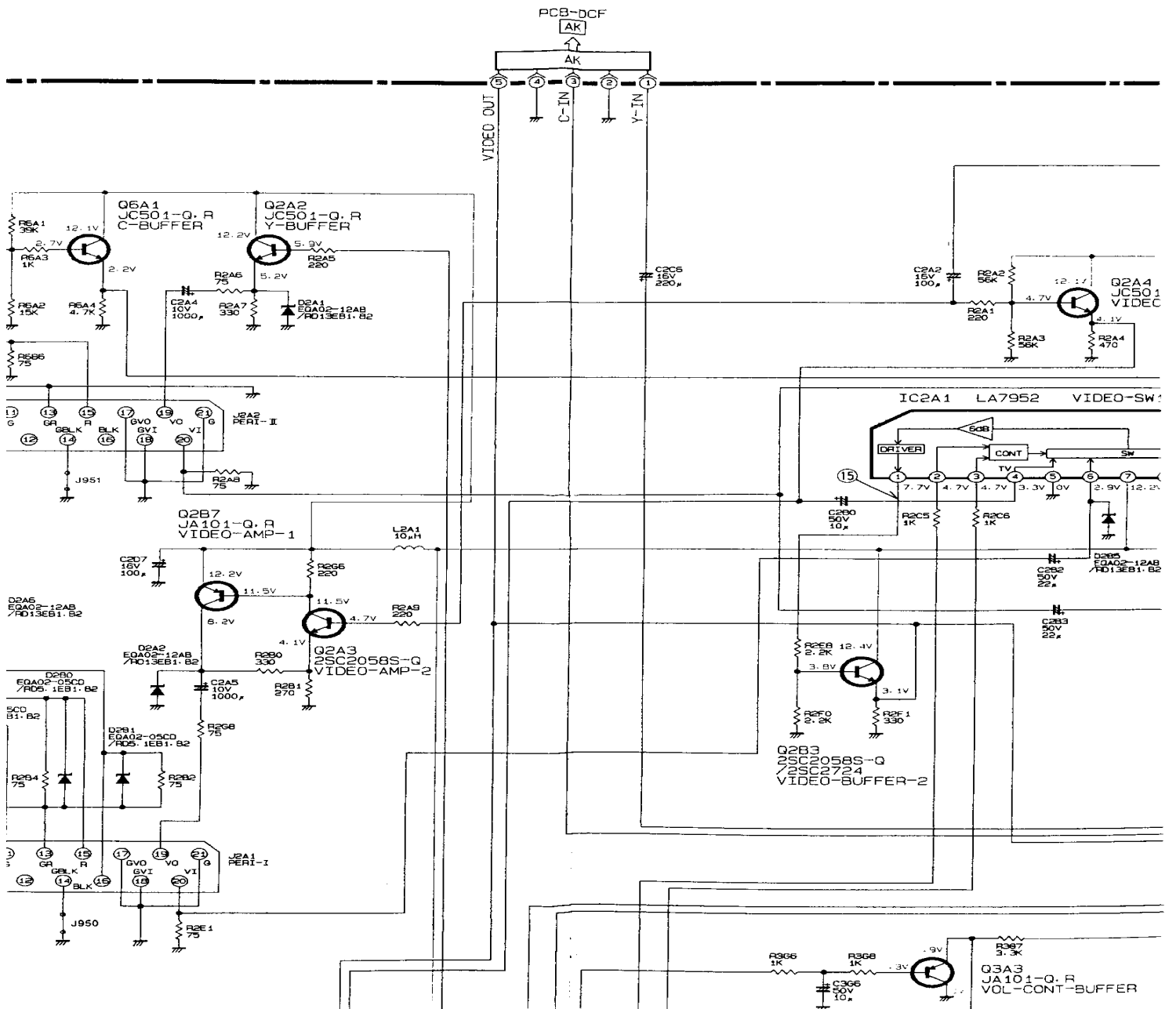
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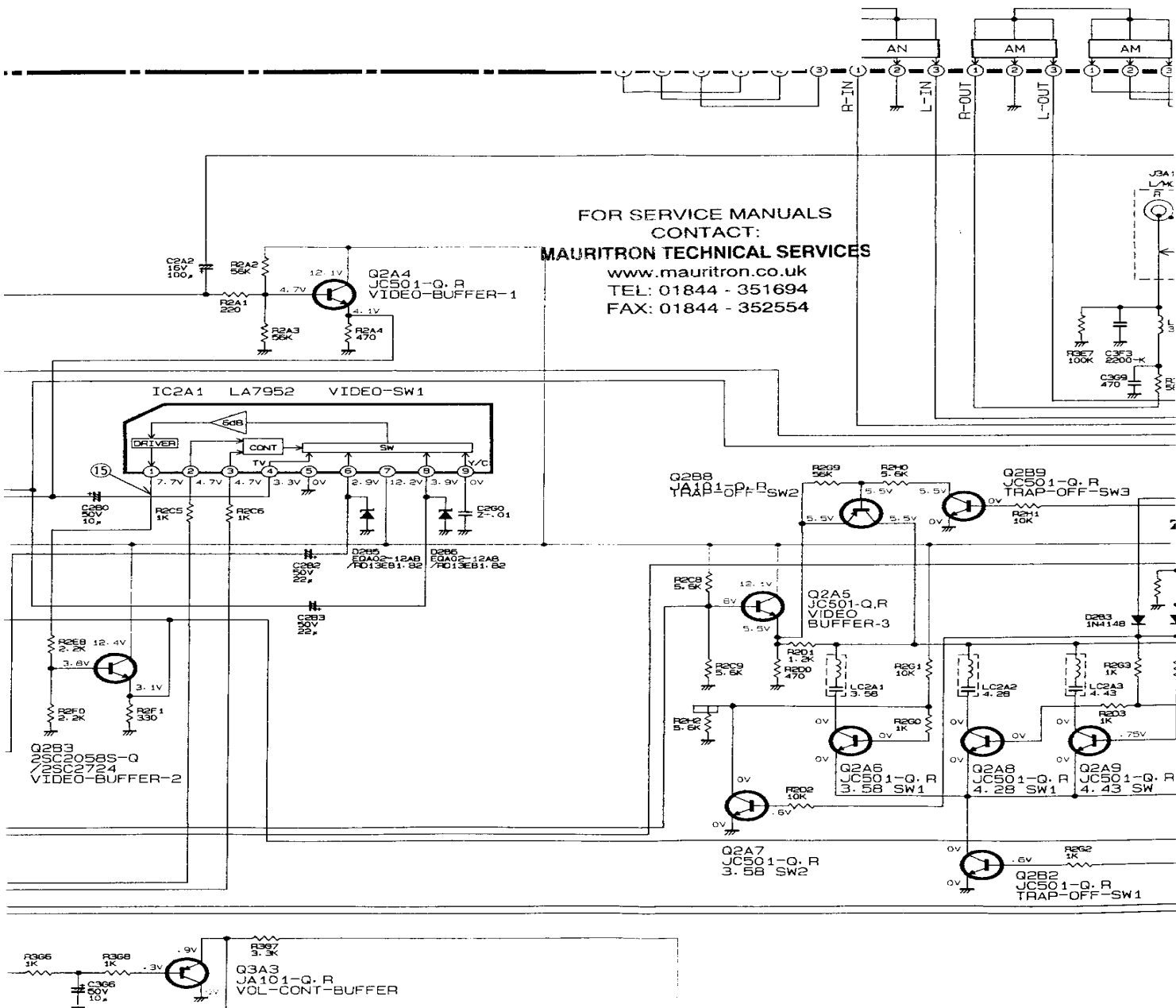


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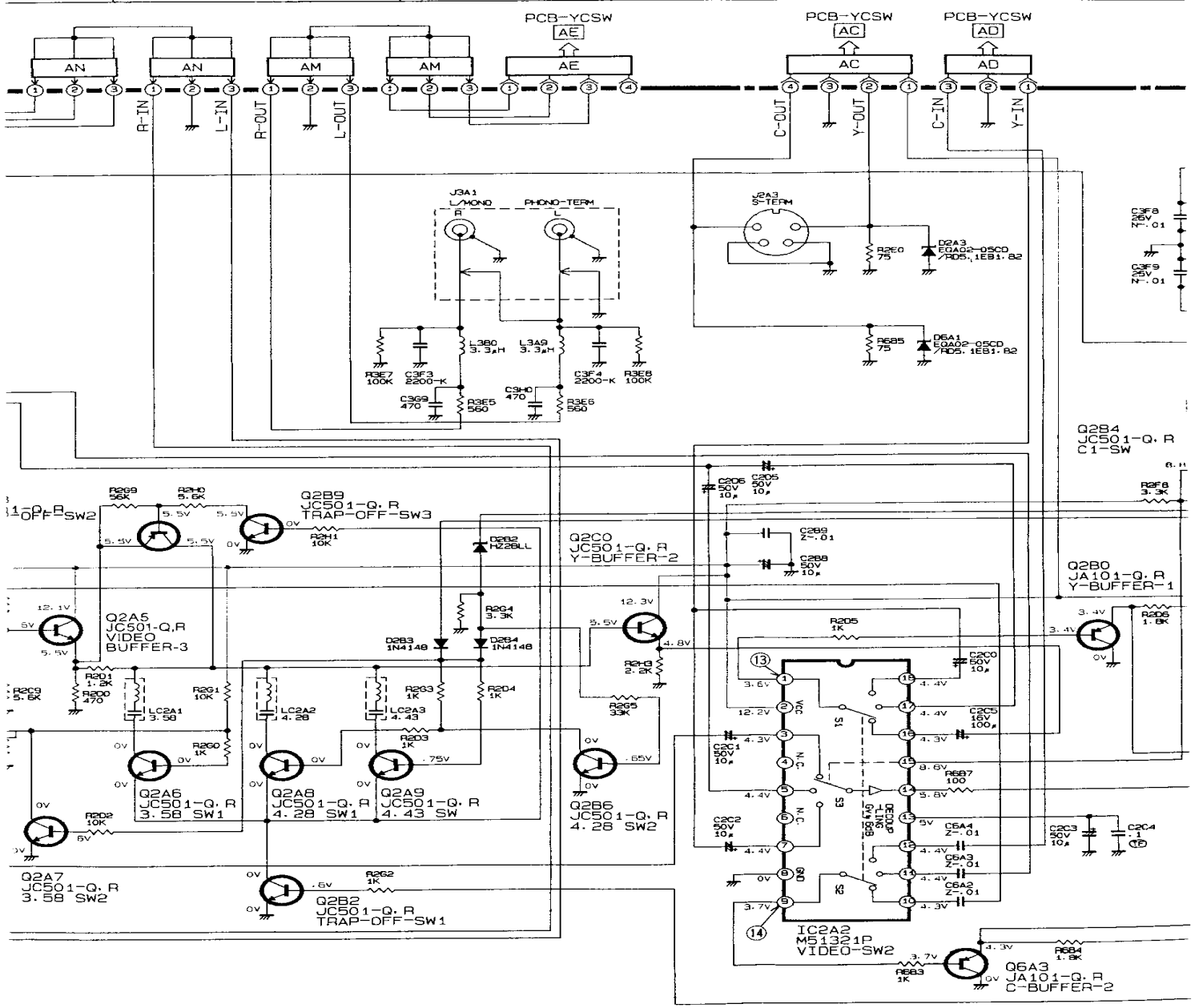


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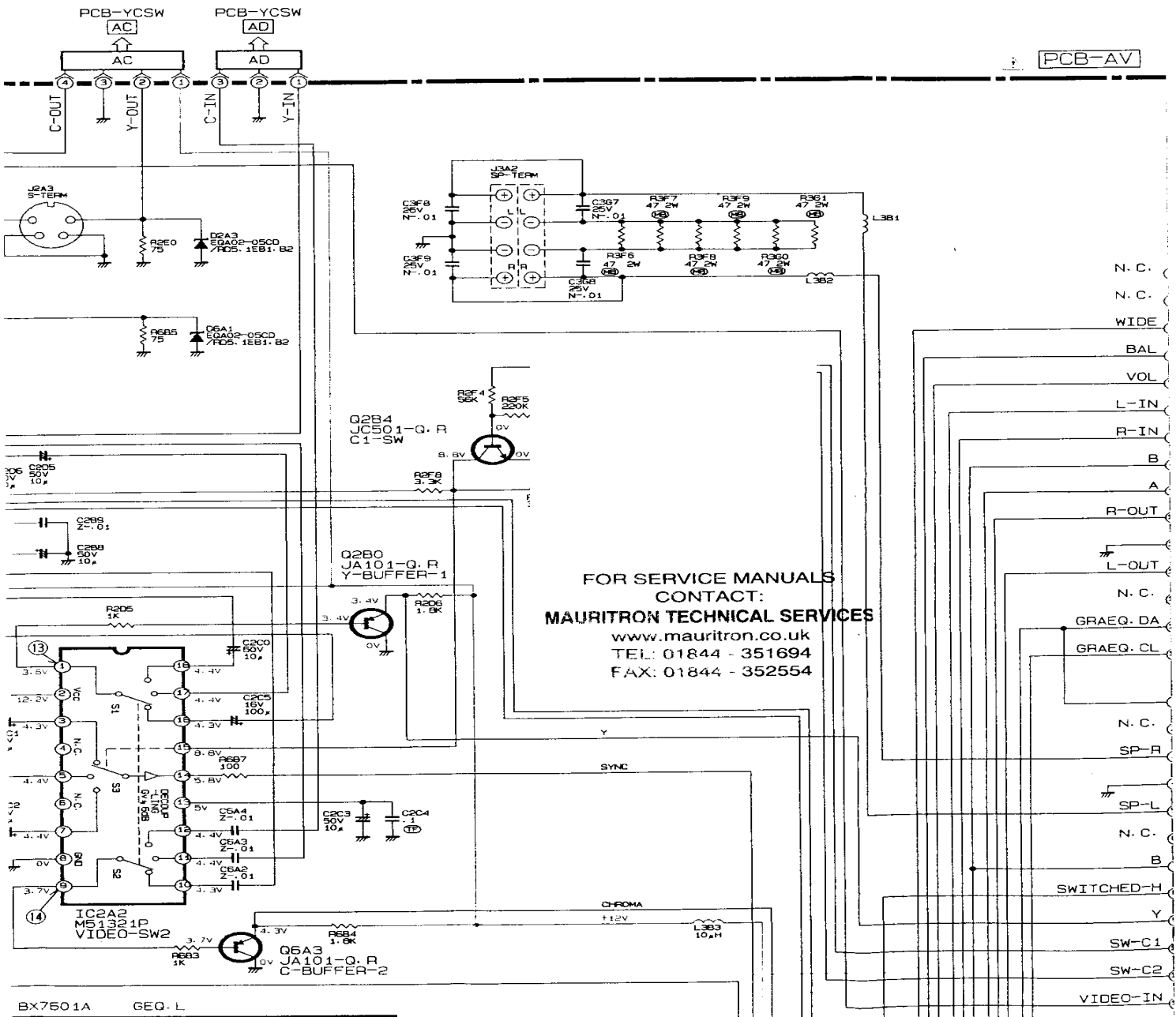
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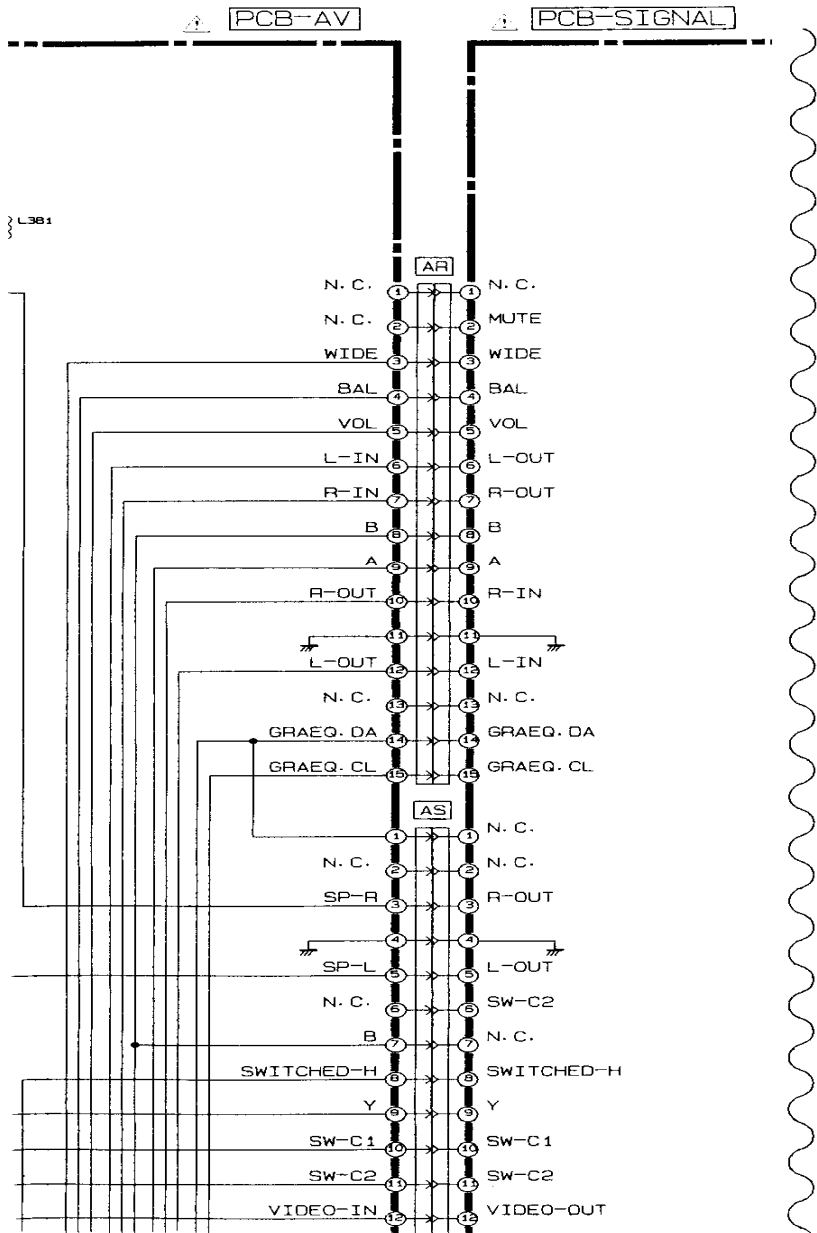
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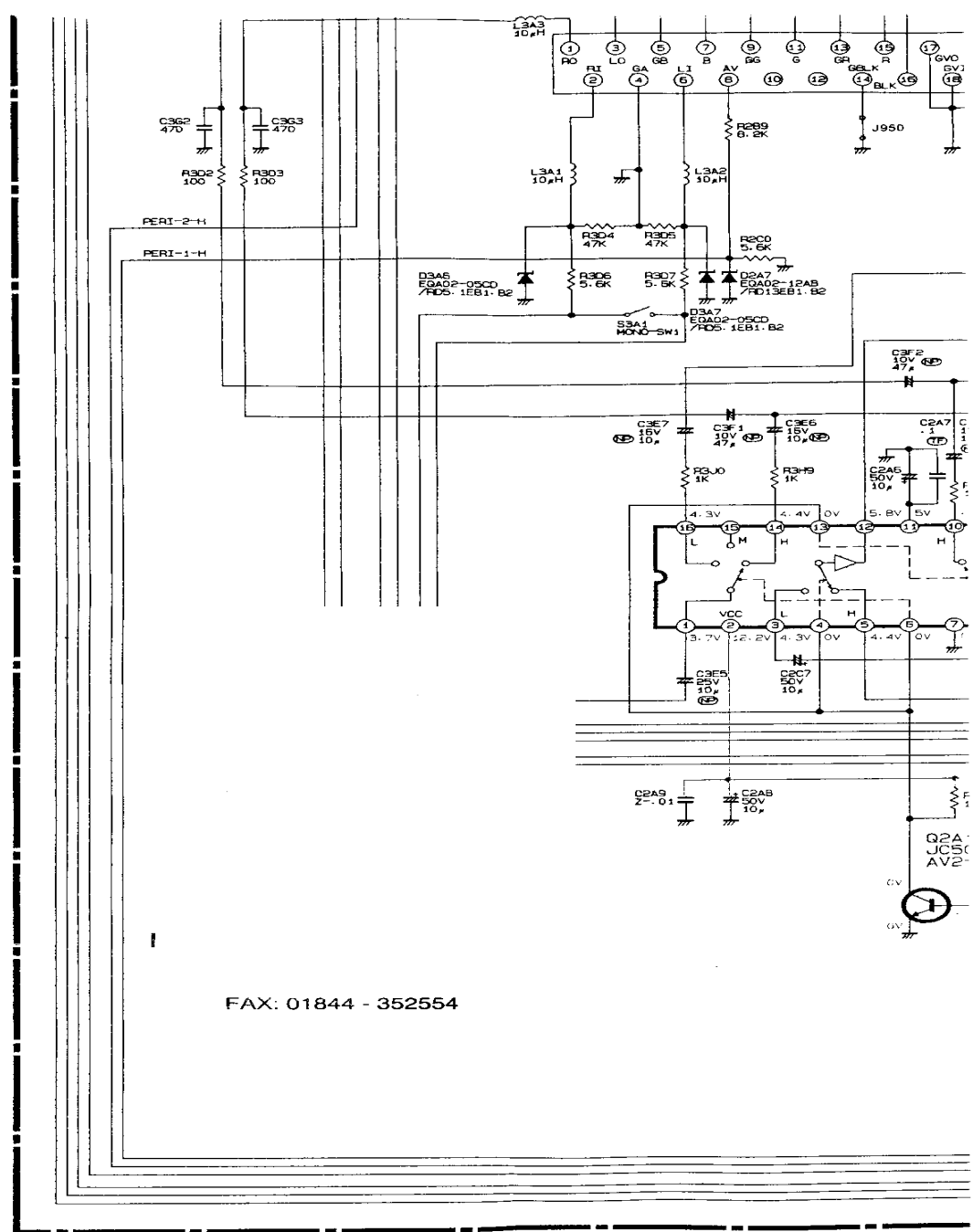


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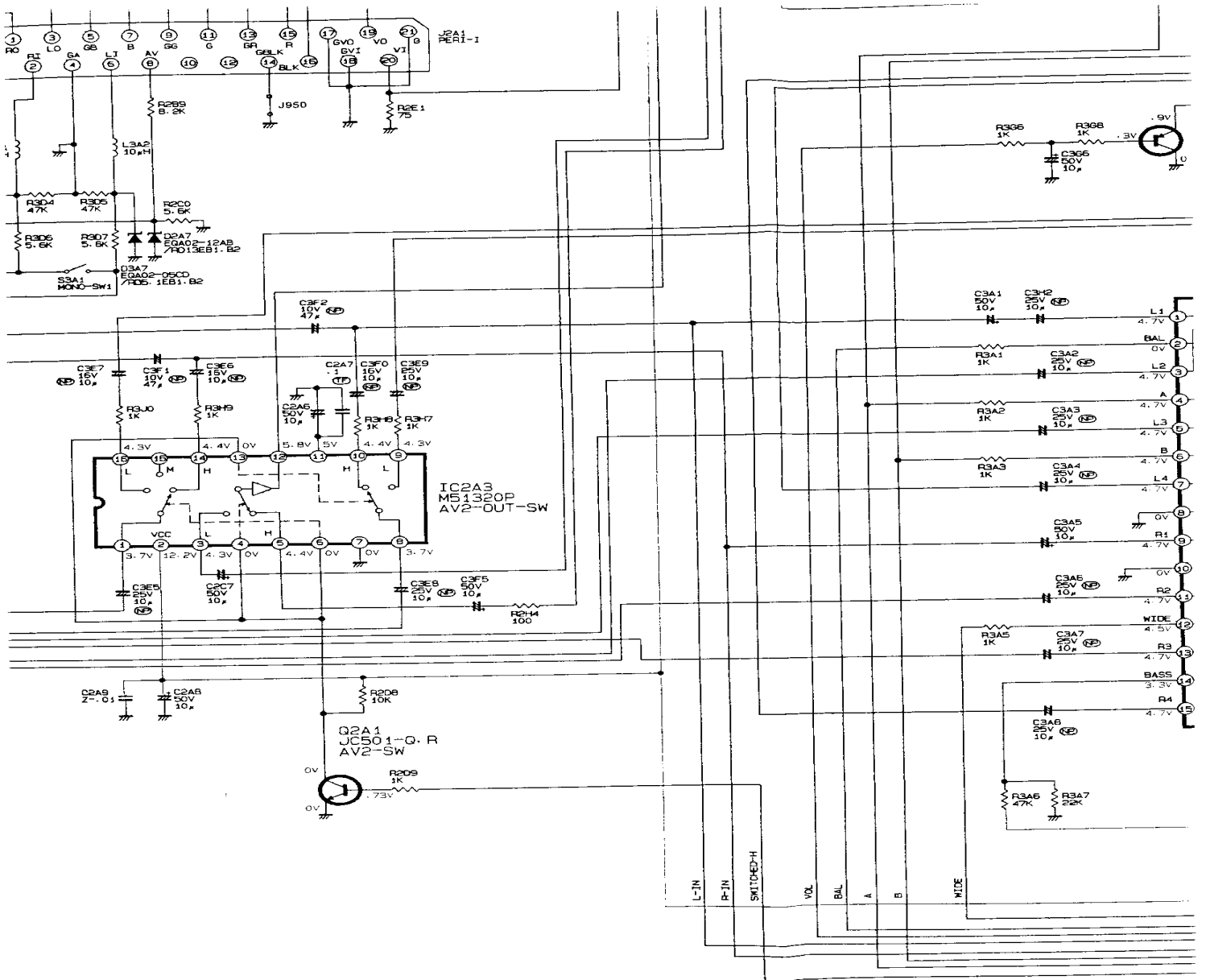




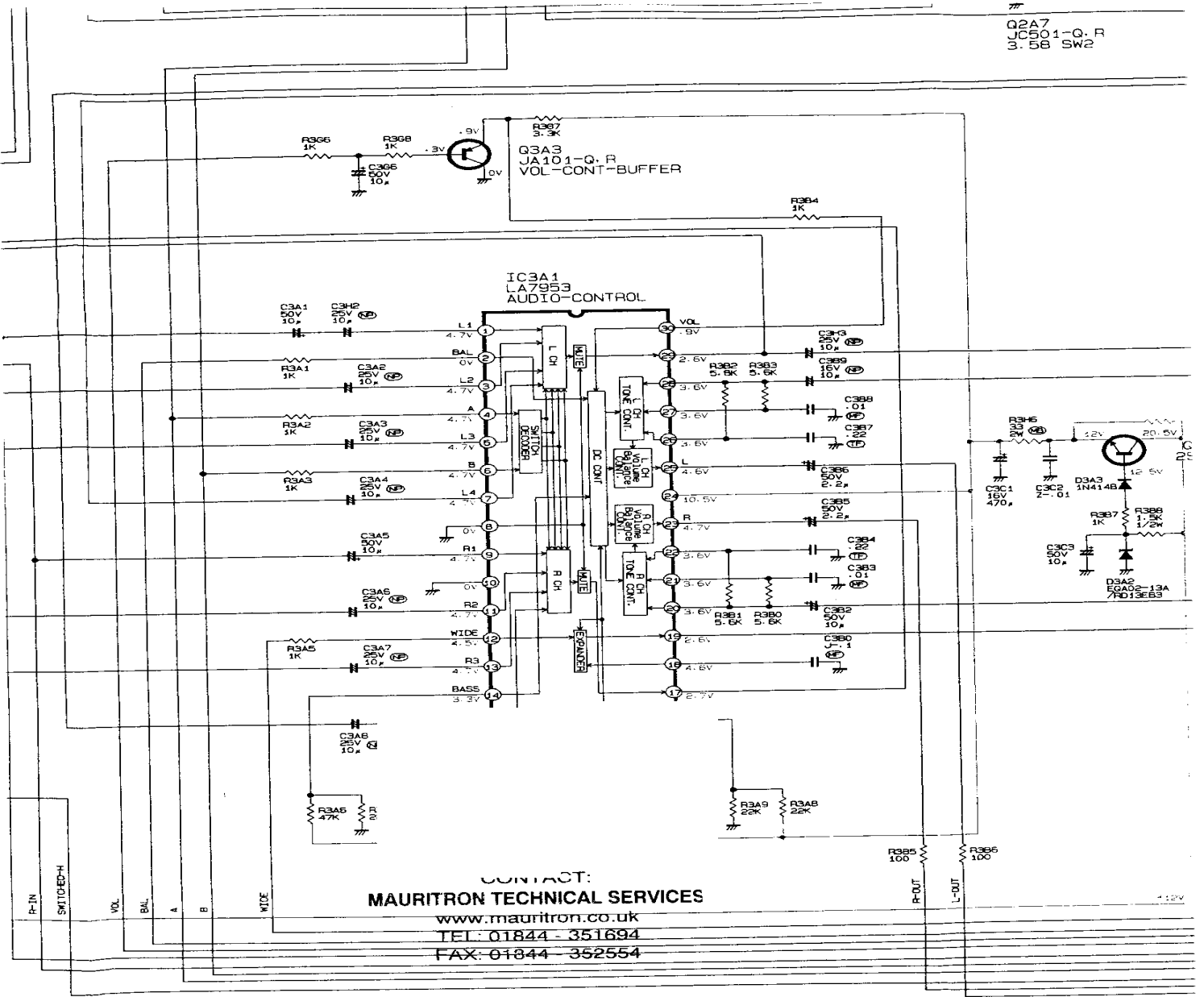
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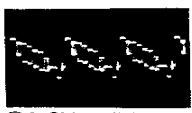
FAX: 01844 - 352554



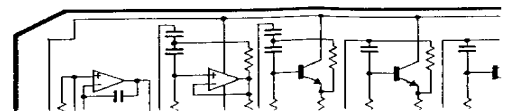
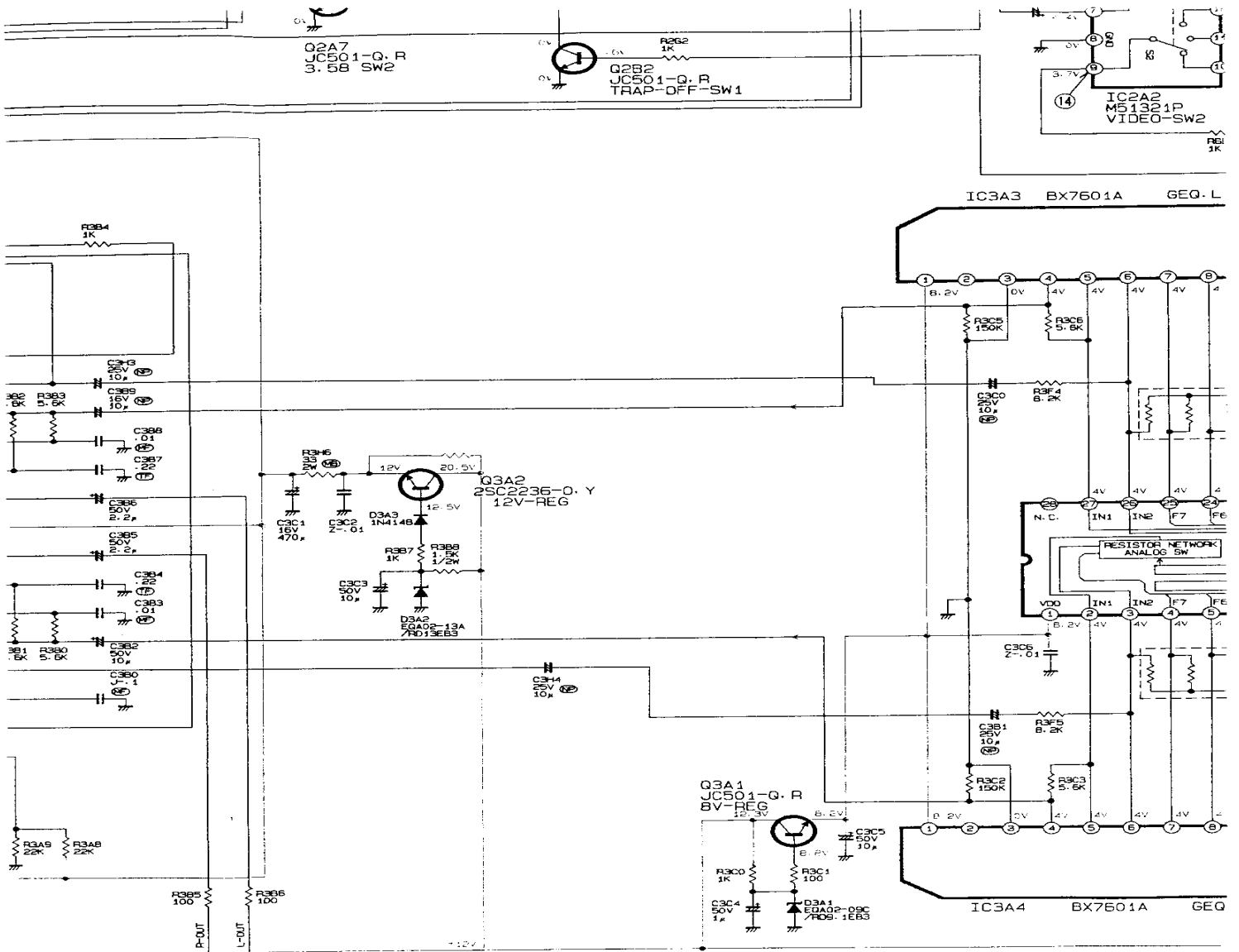
(1.8Vp-p(H))

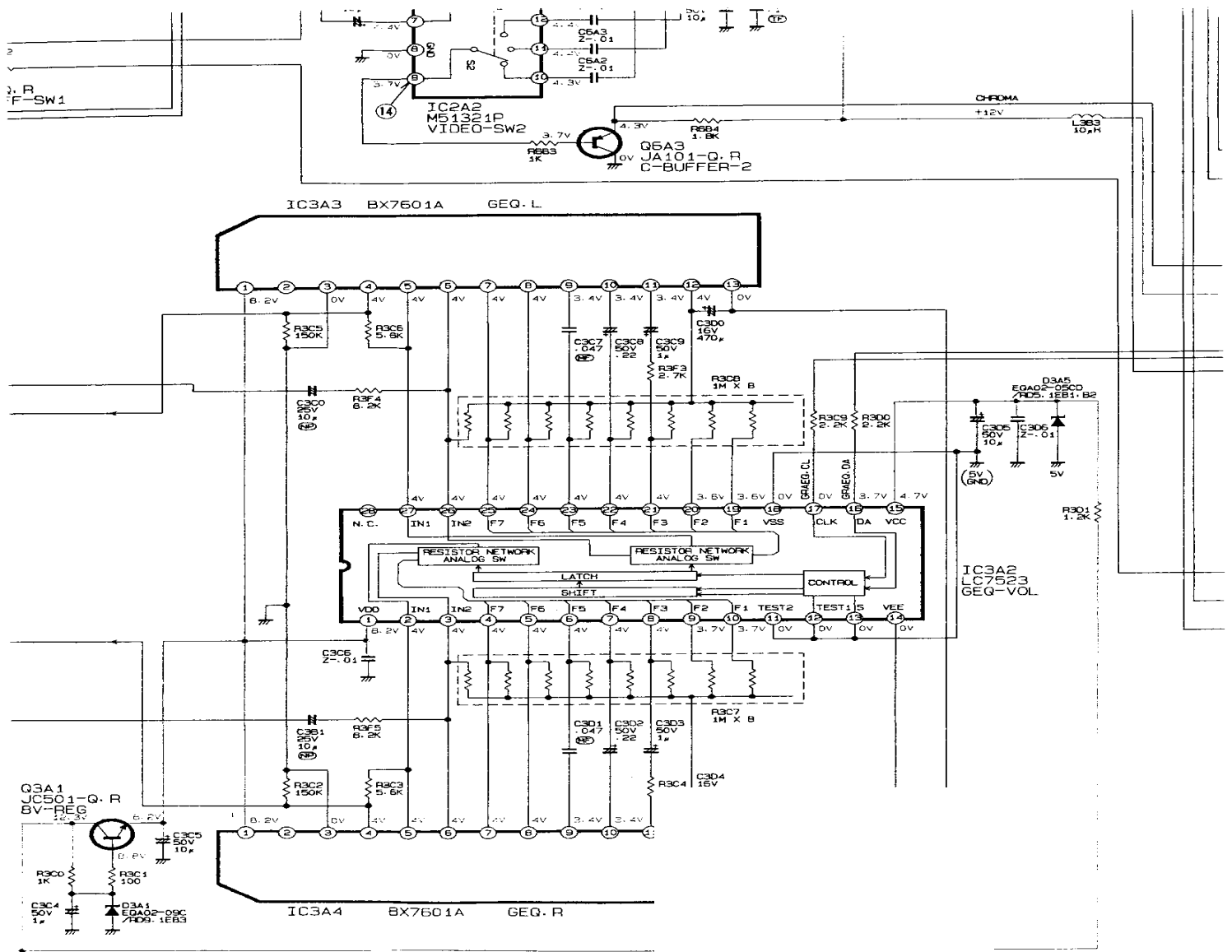


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 UC601-Q.R
 U. 5B SW2



(3) 1.8Vp-p(H)



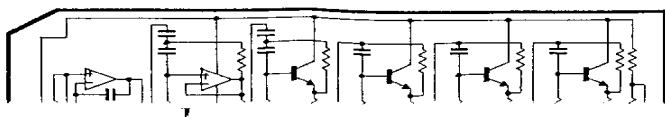


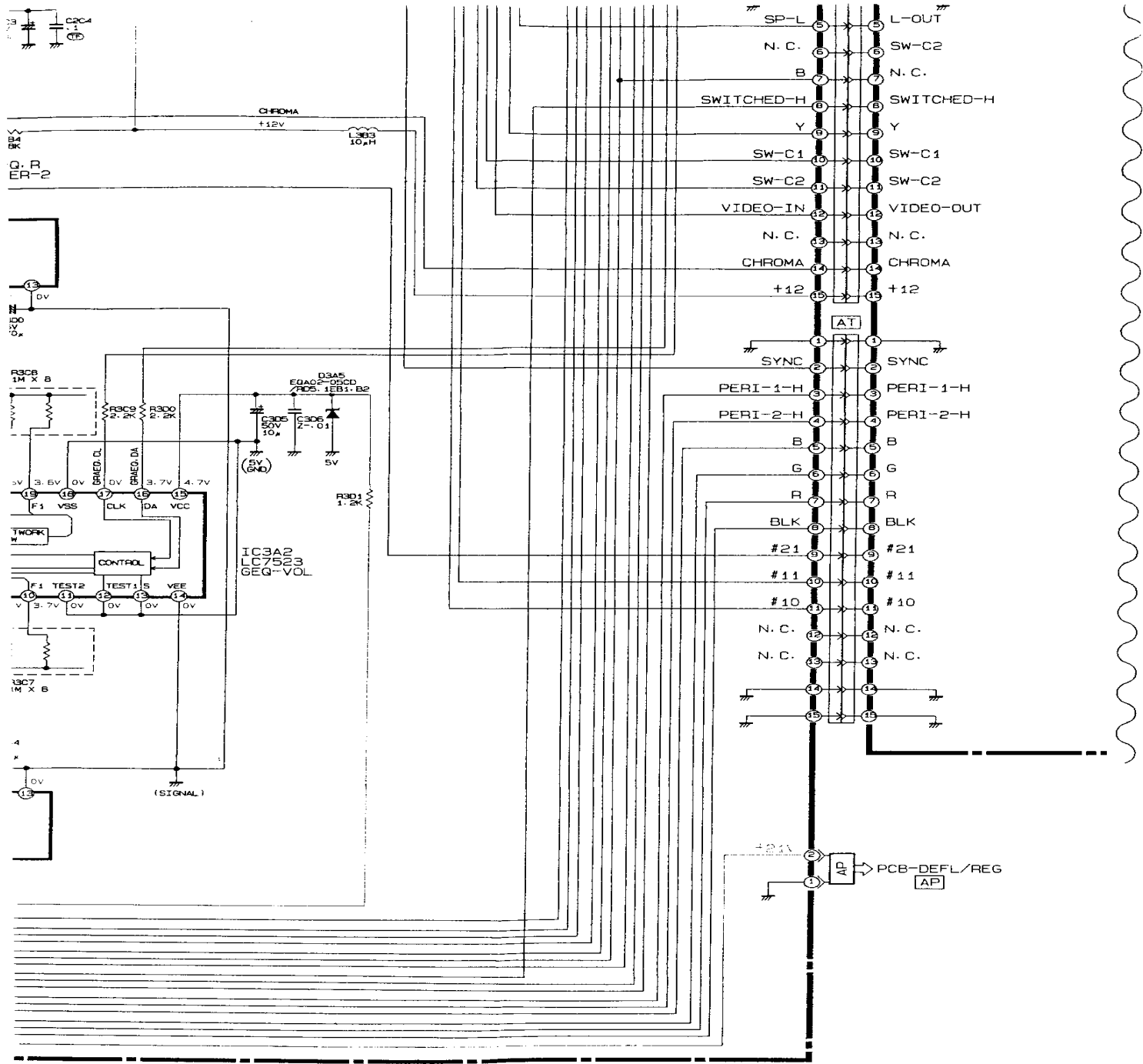
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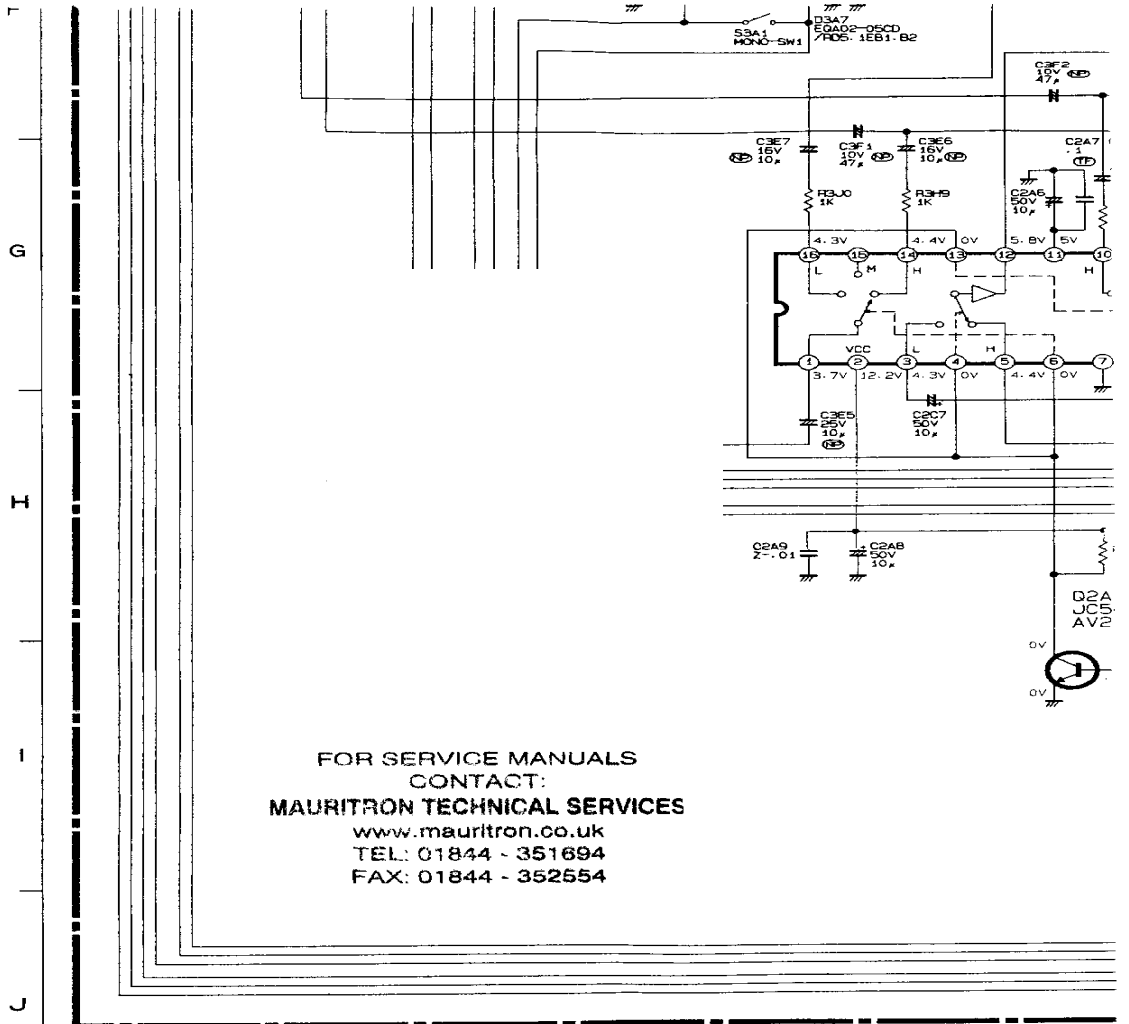
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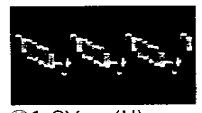
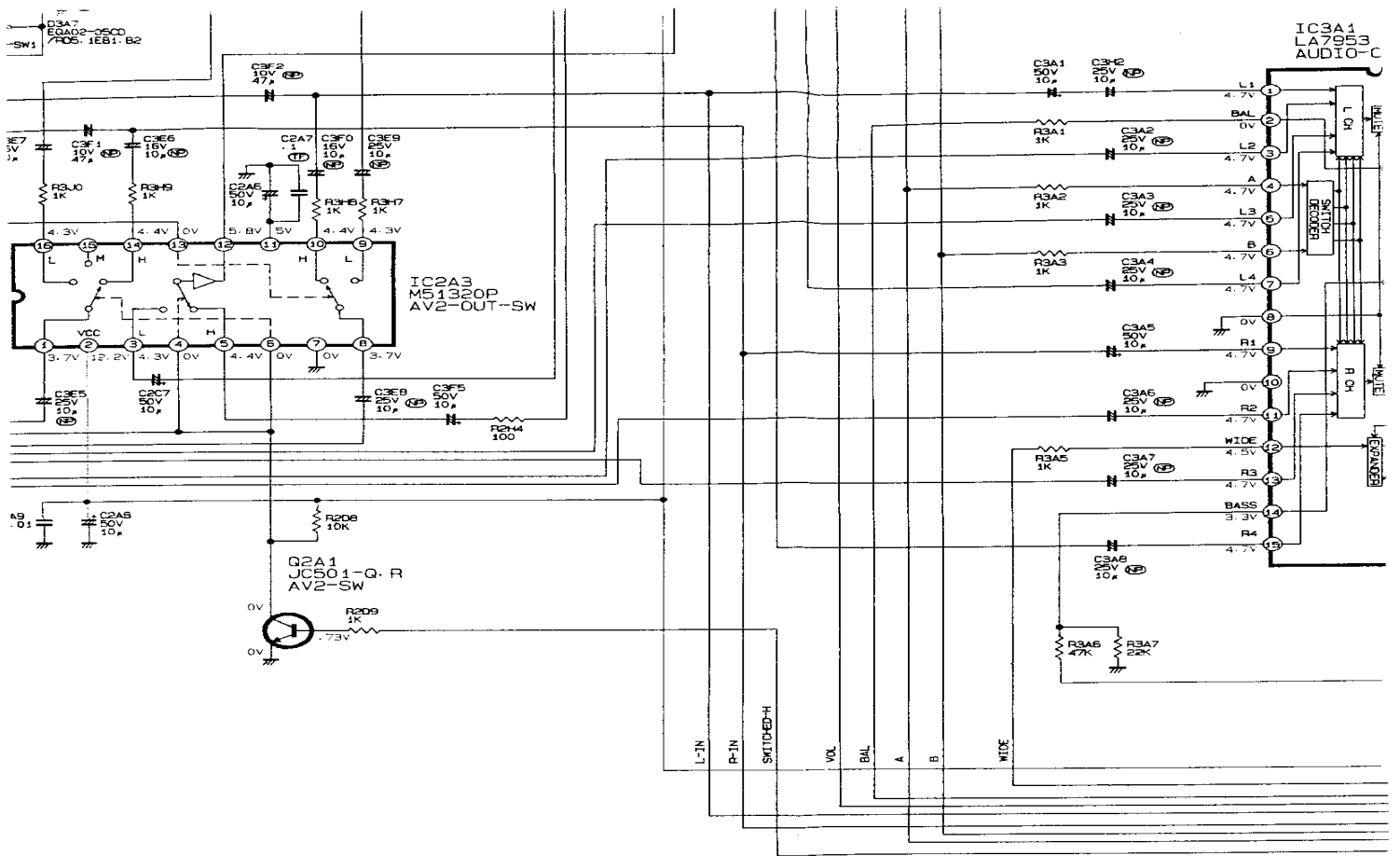




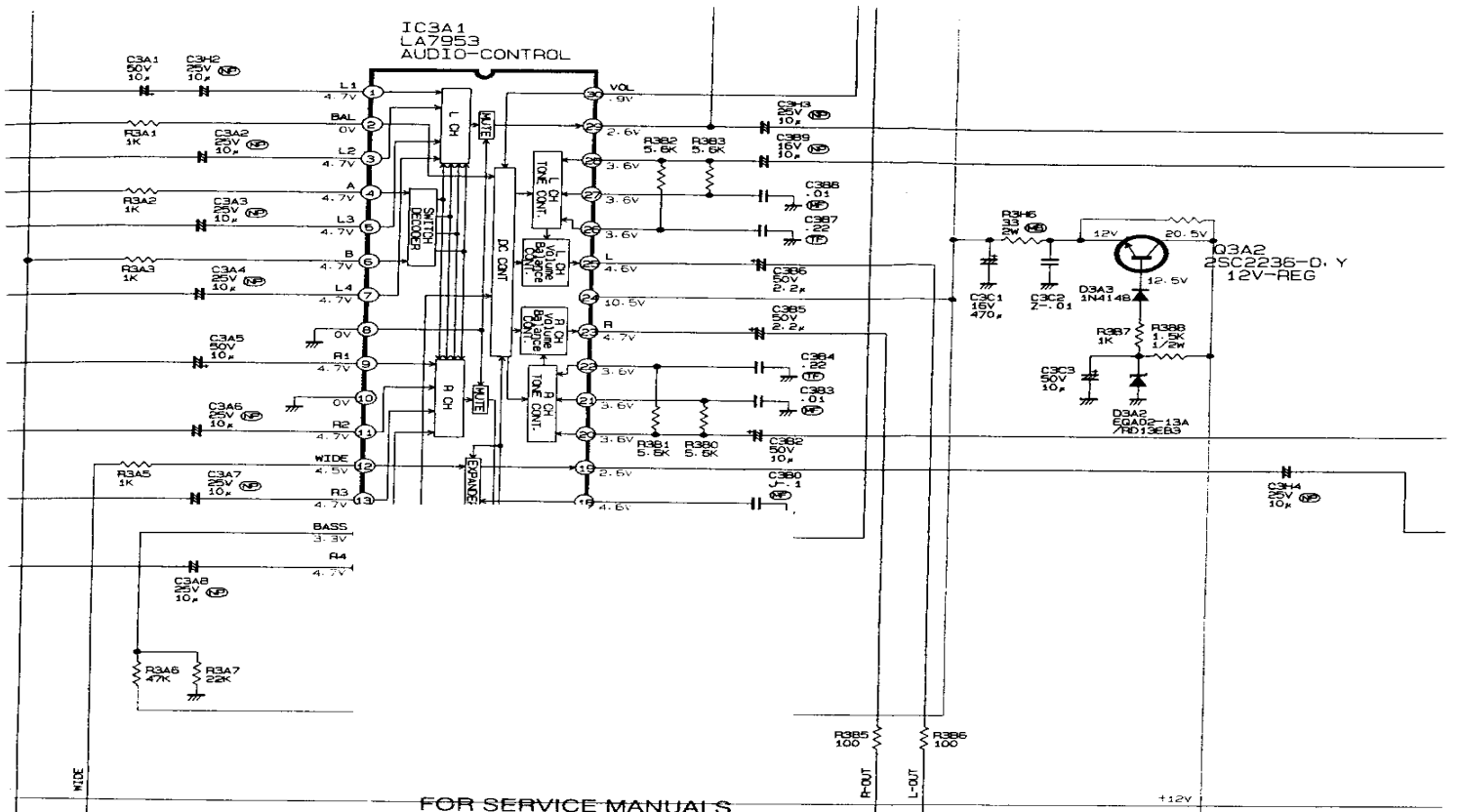


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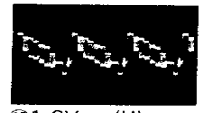
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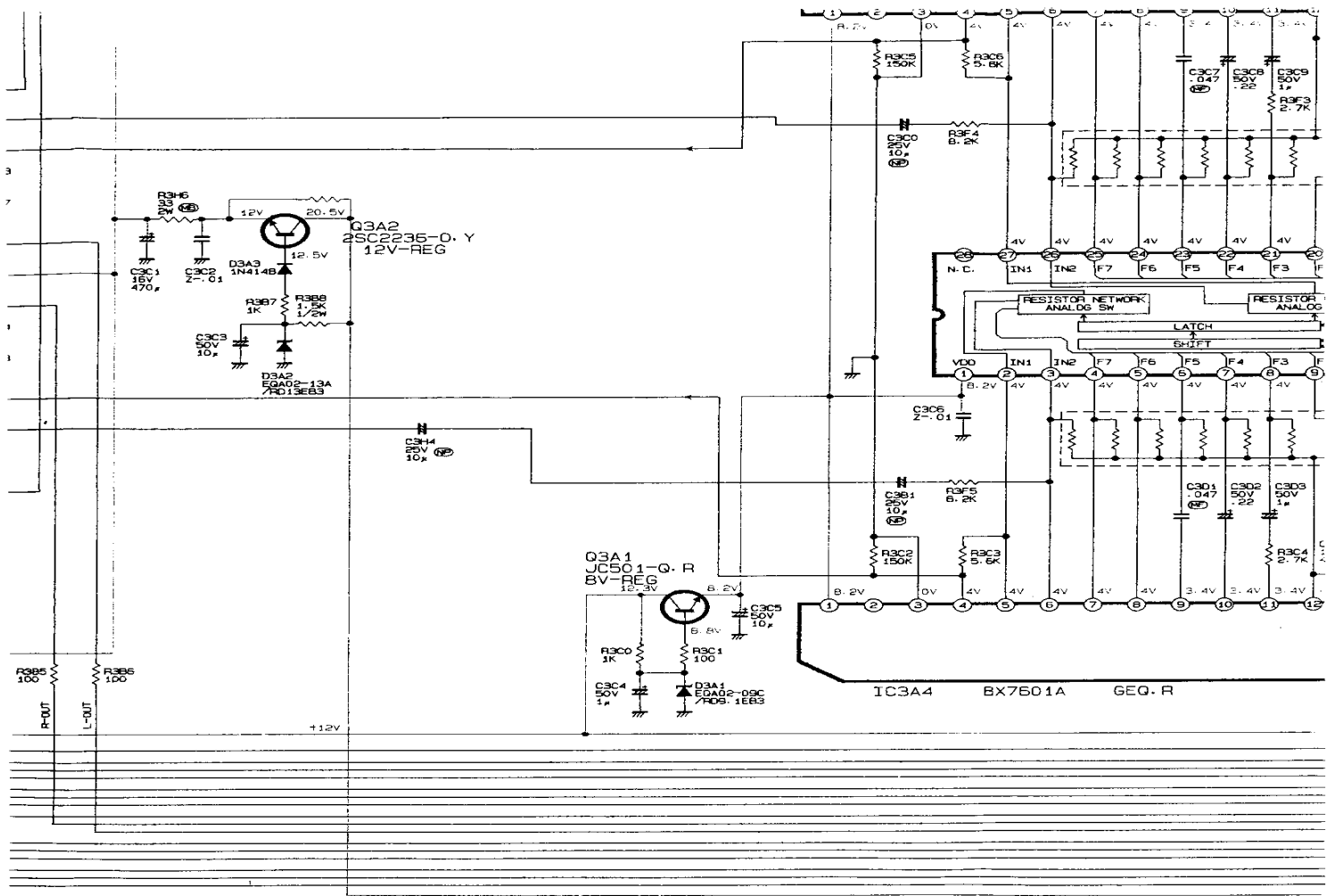
⑮ 1.8Vp-p(H)



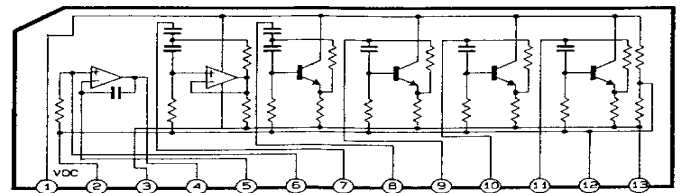
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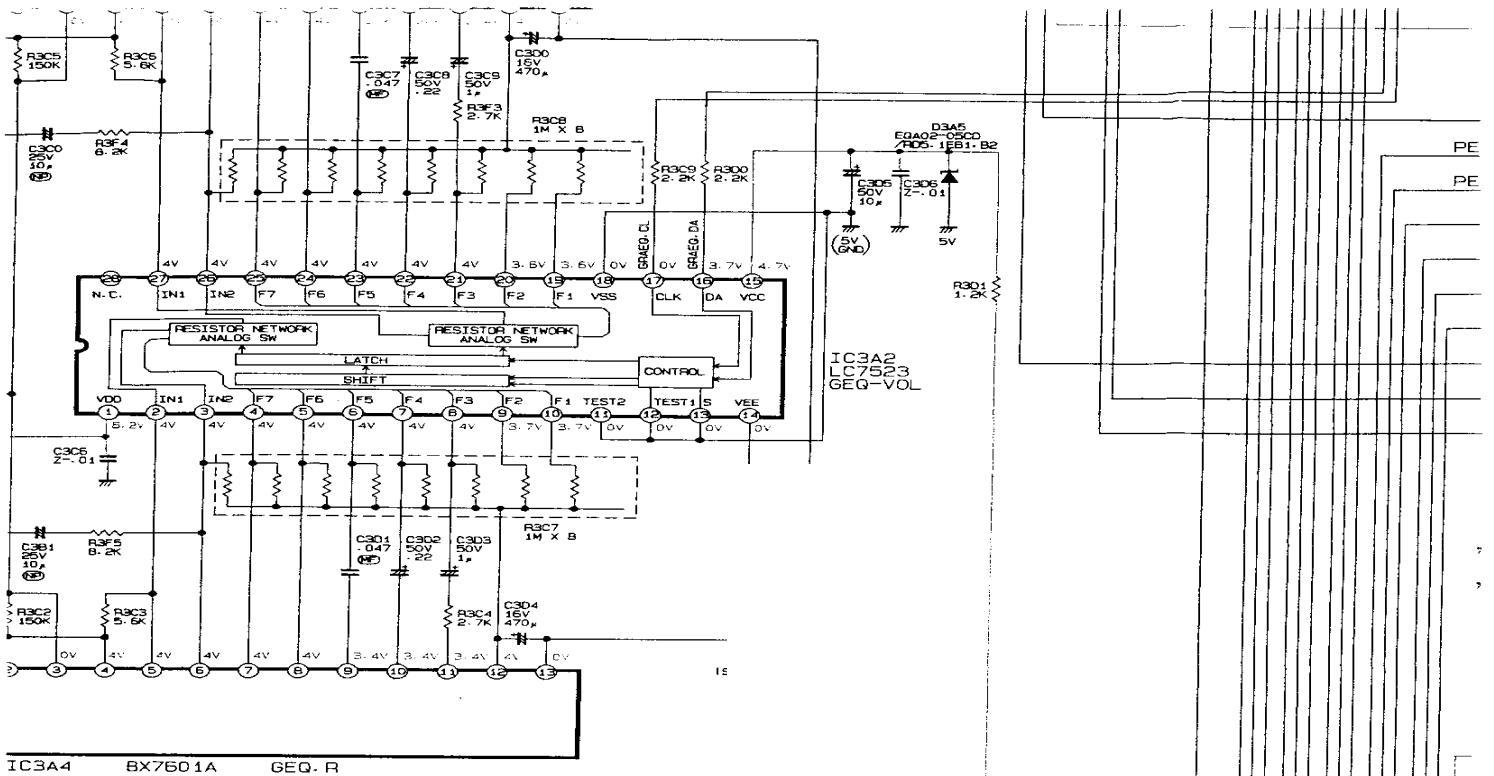


⑆1.8Vp-p(H)

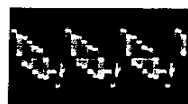
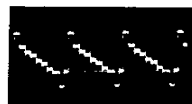
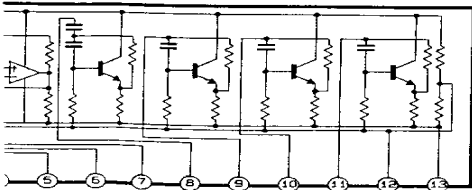


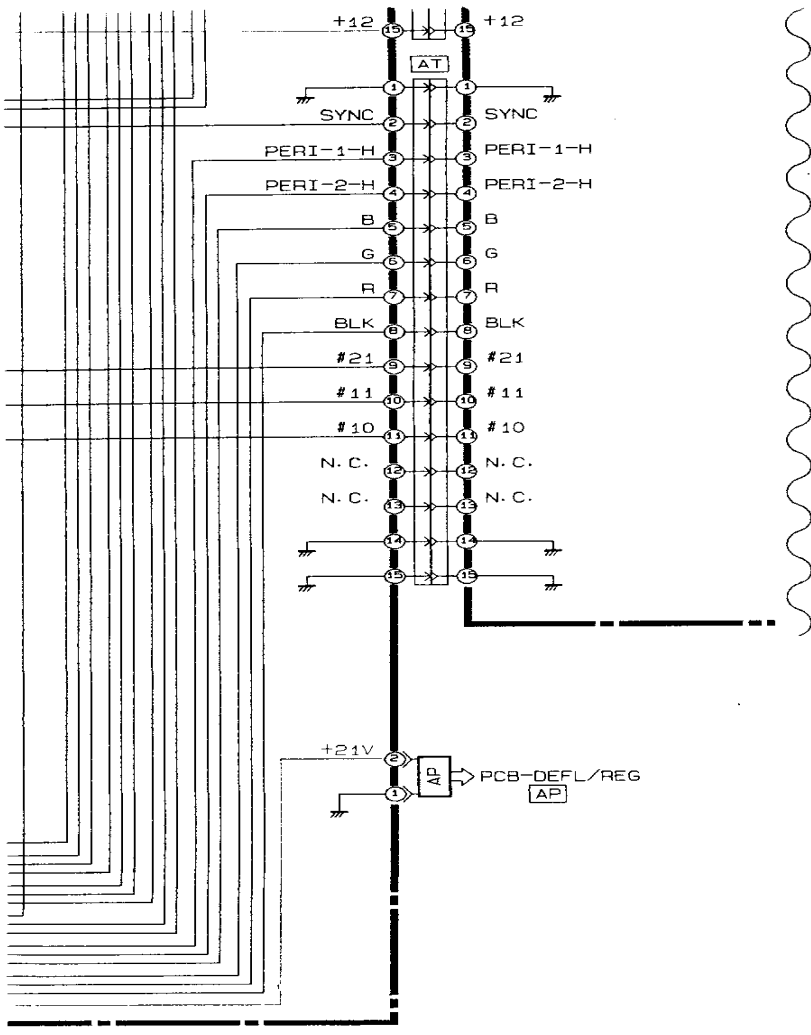
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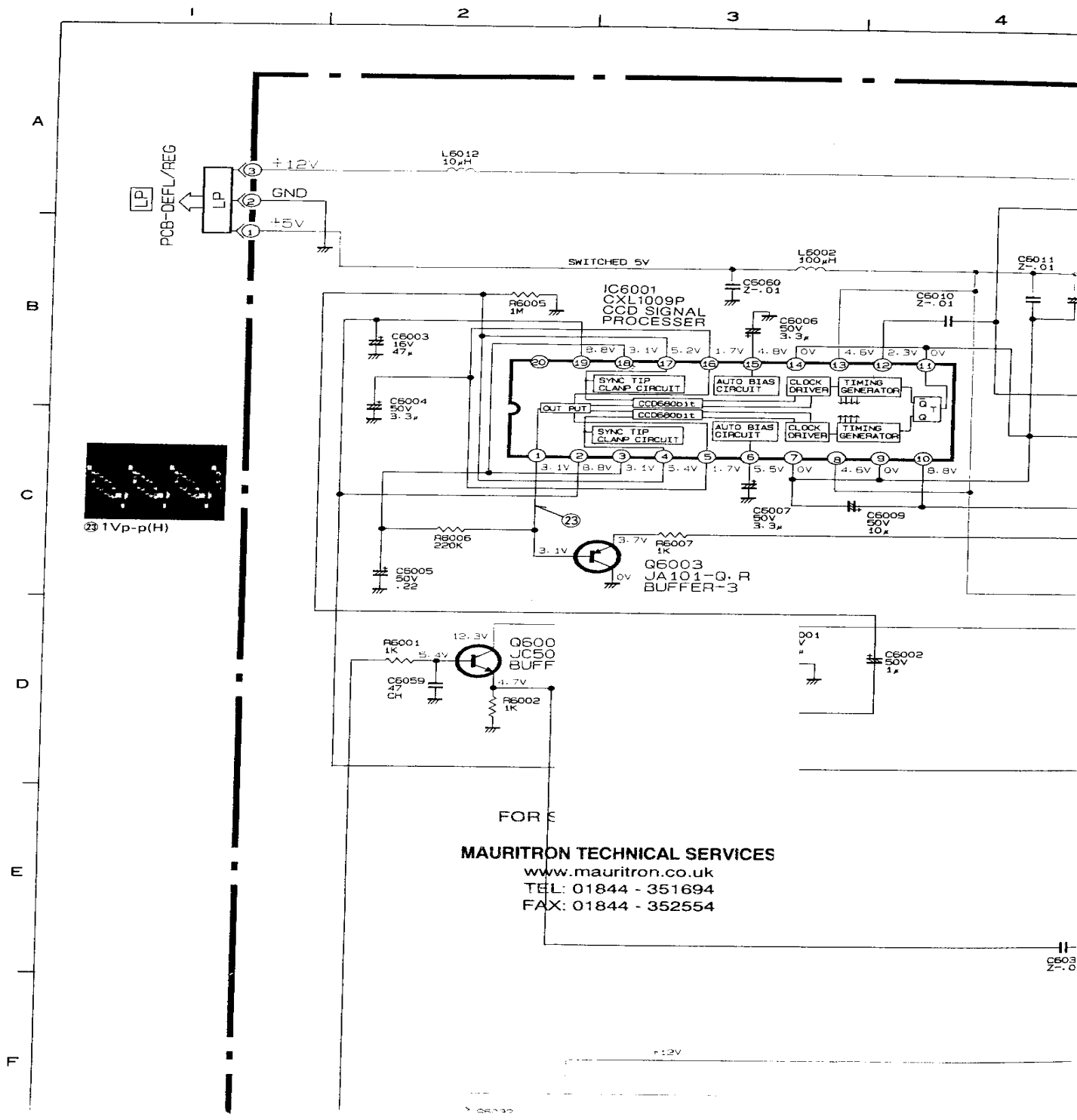




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② 1Vp-p(H)

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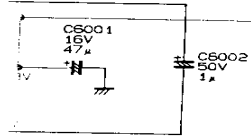
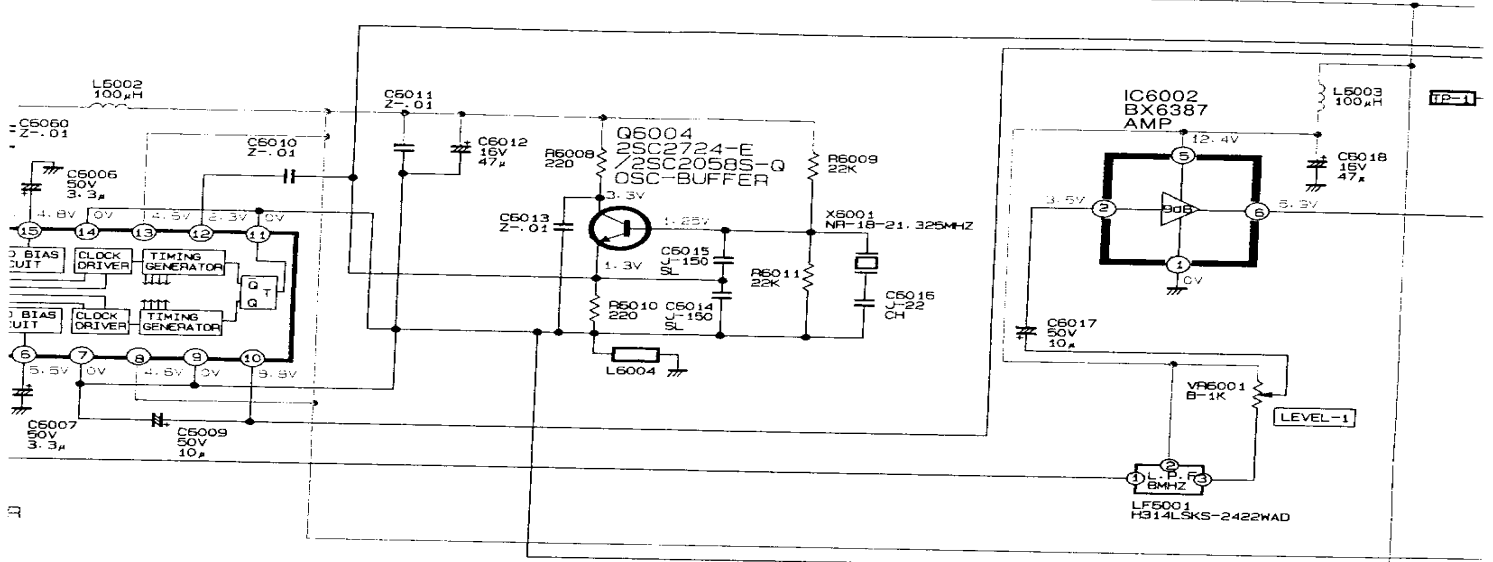
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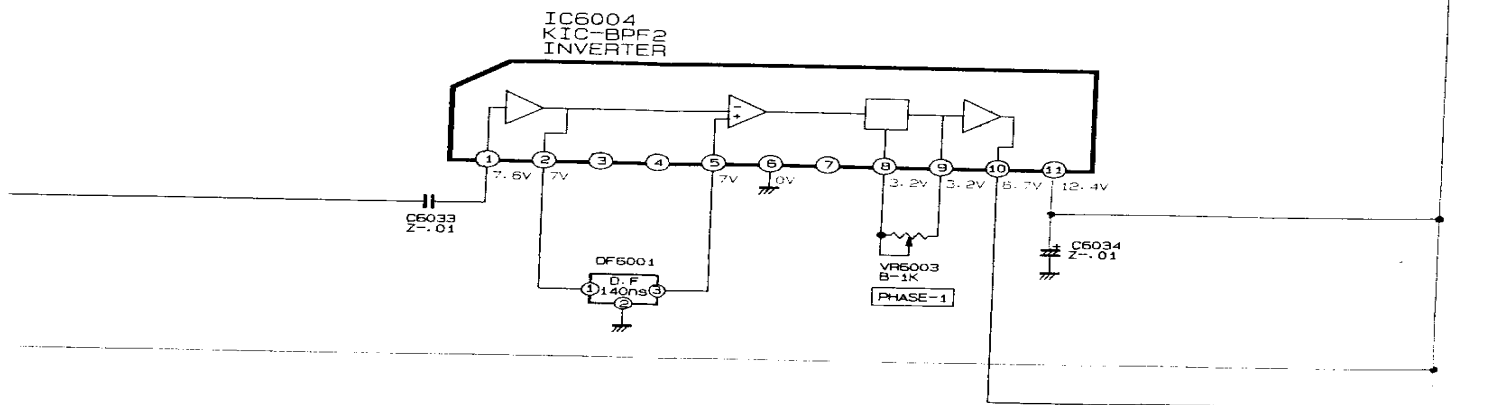
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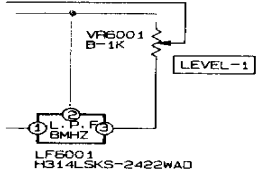
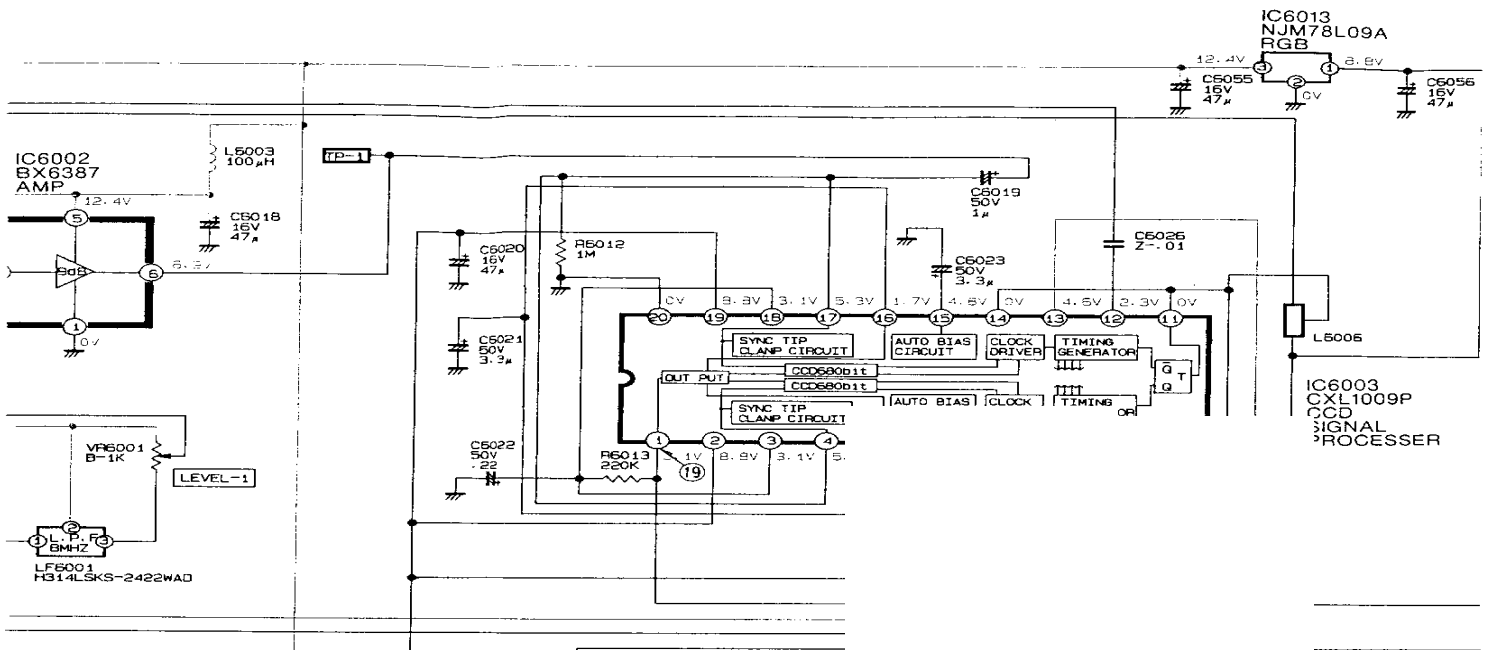
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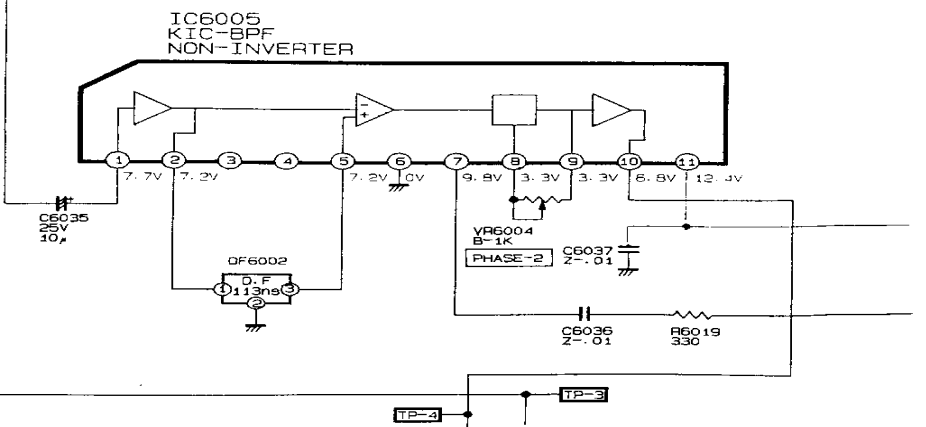


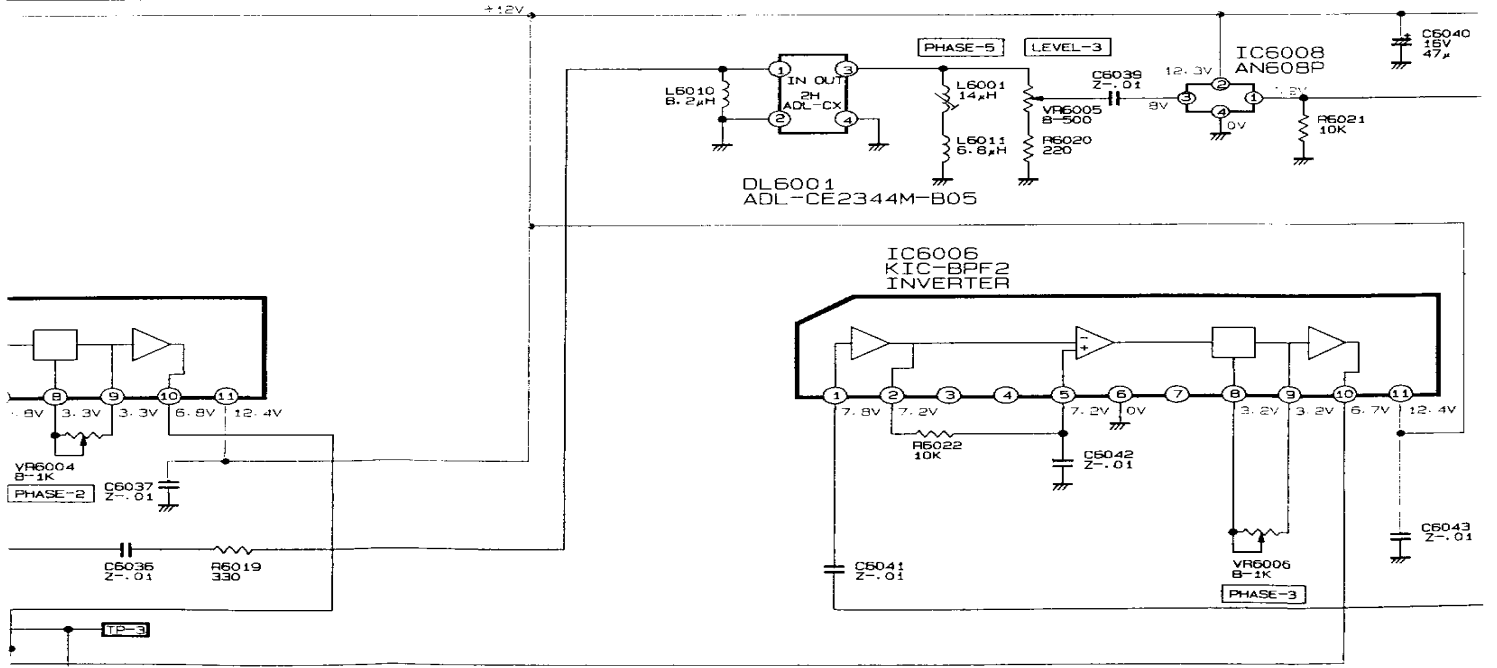
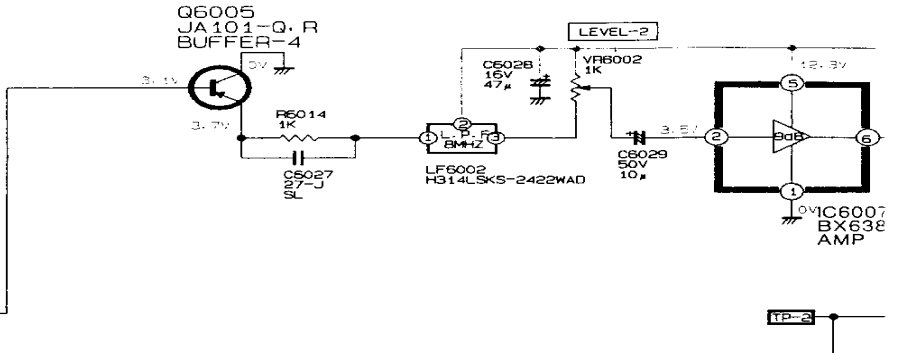
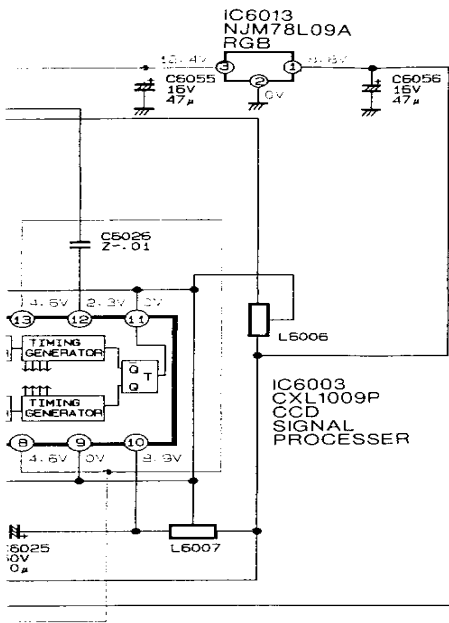


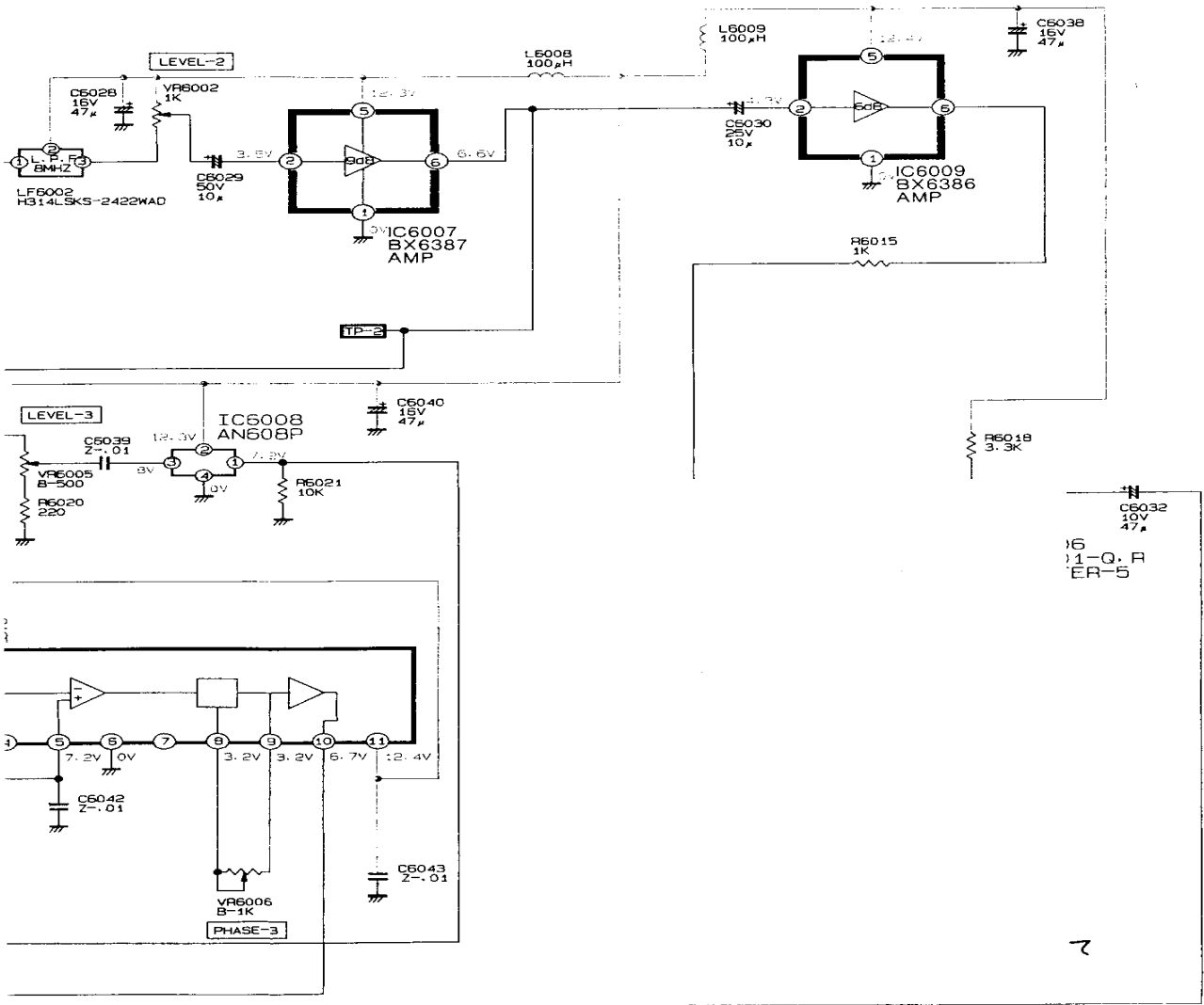
⑬ 1Vp-p(H)

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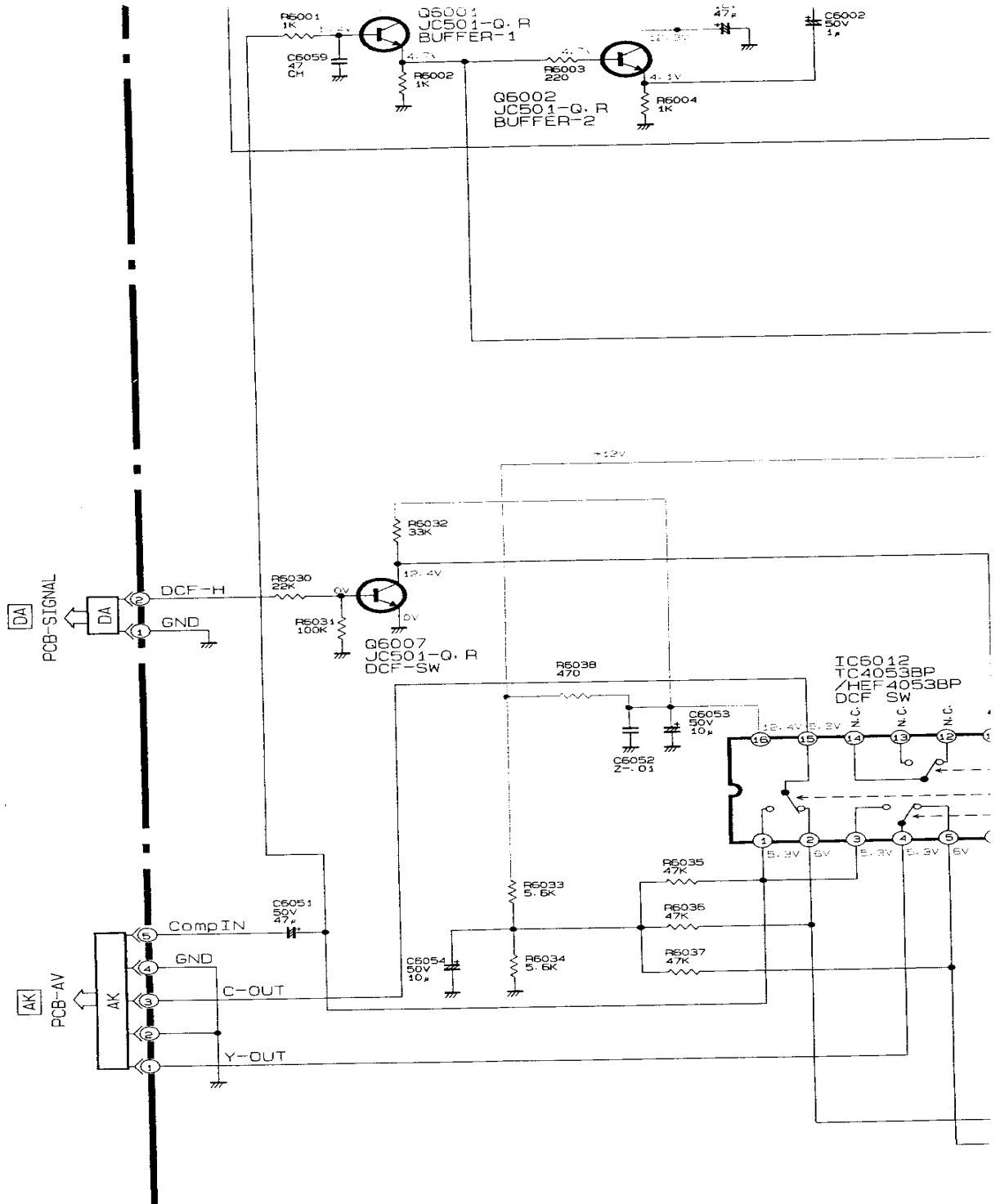
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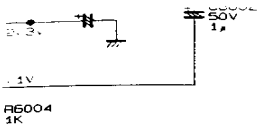
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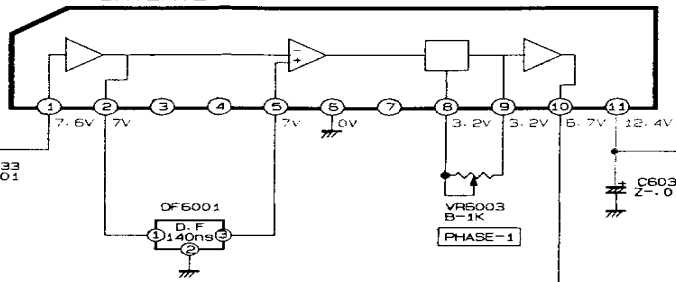
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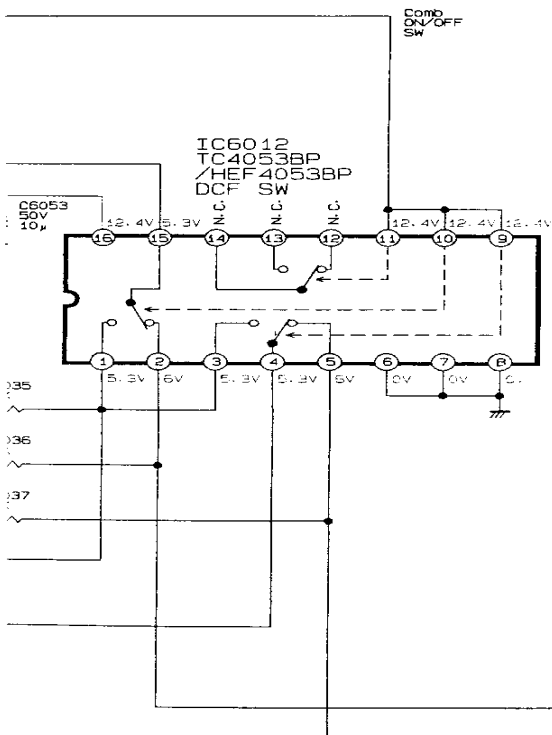


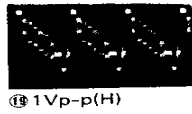
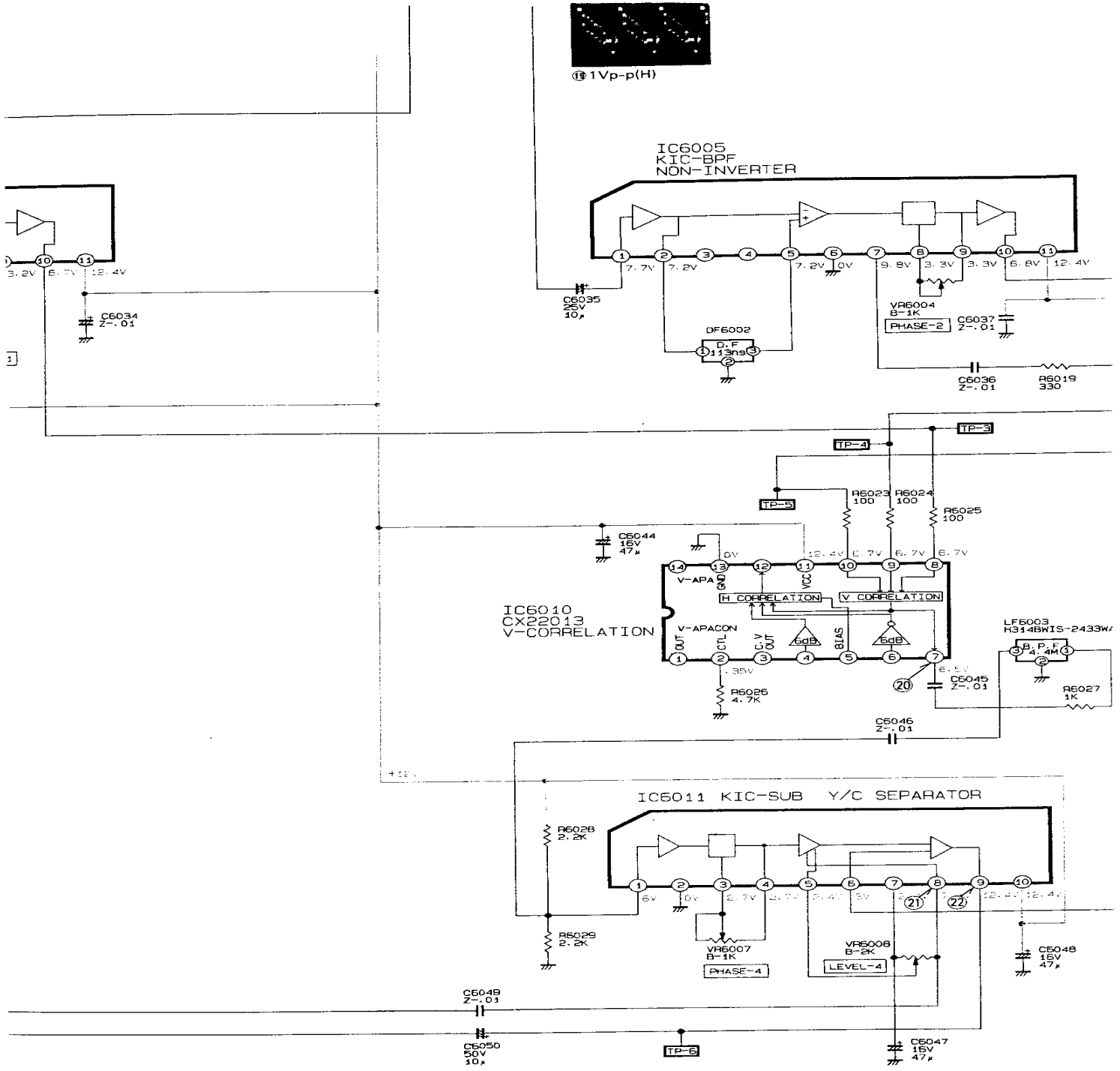


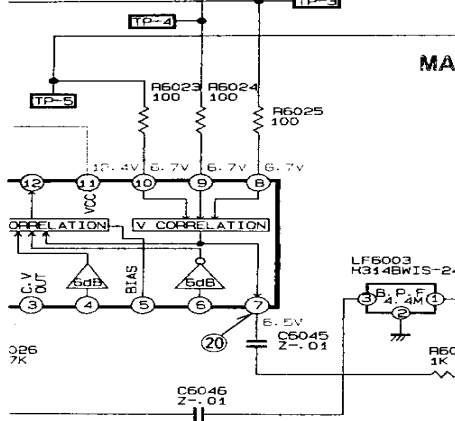
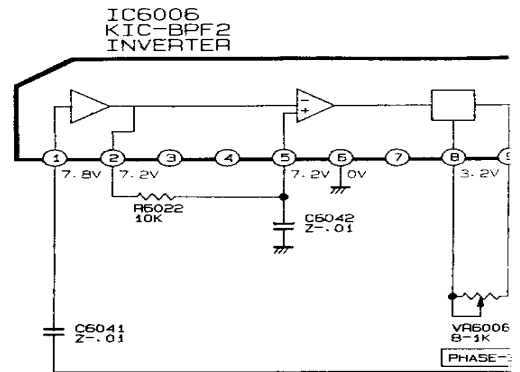
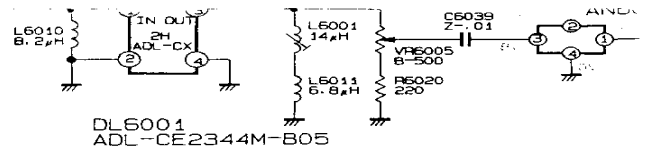
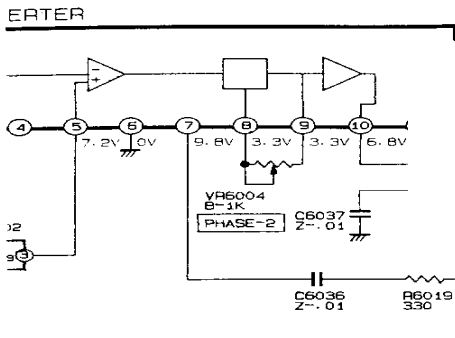
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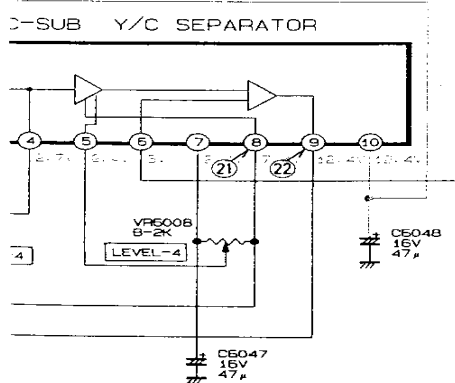
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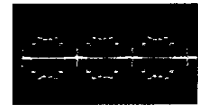




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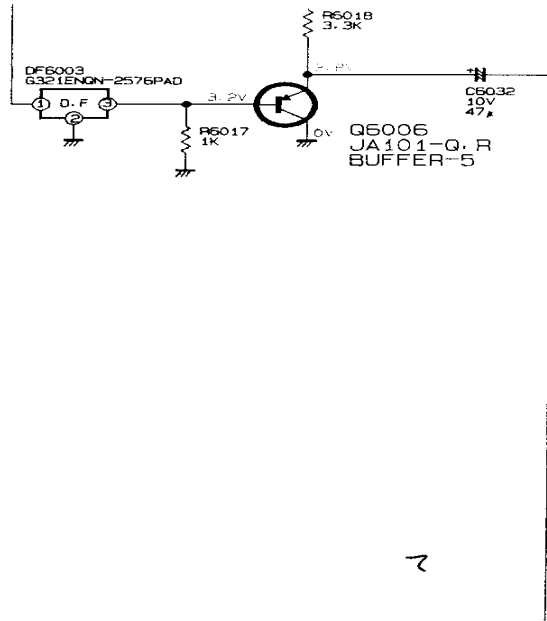
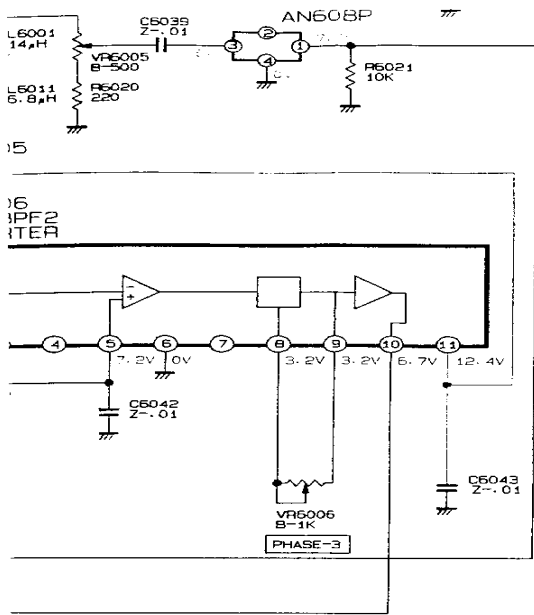
⑧ 0.8Vp-p(H)



⑨ 0.7Vp-p(H)



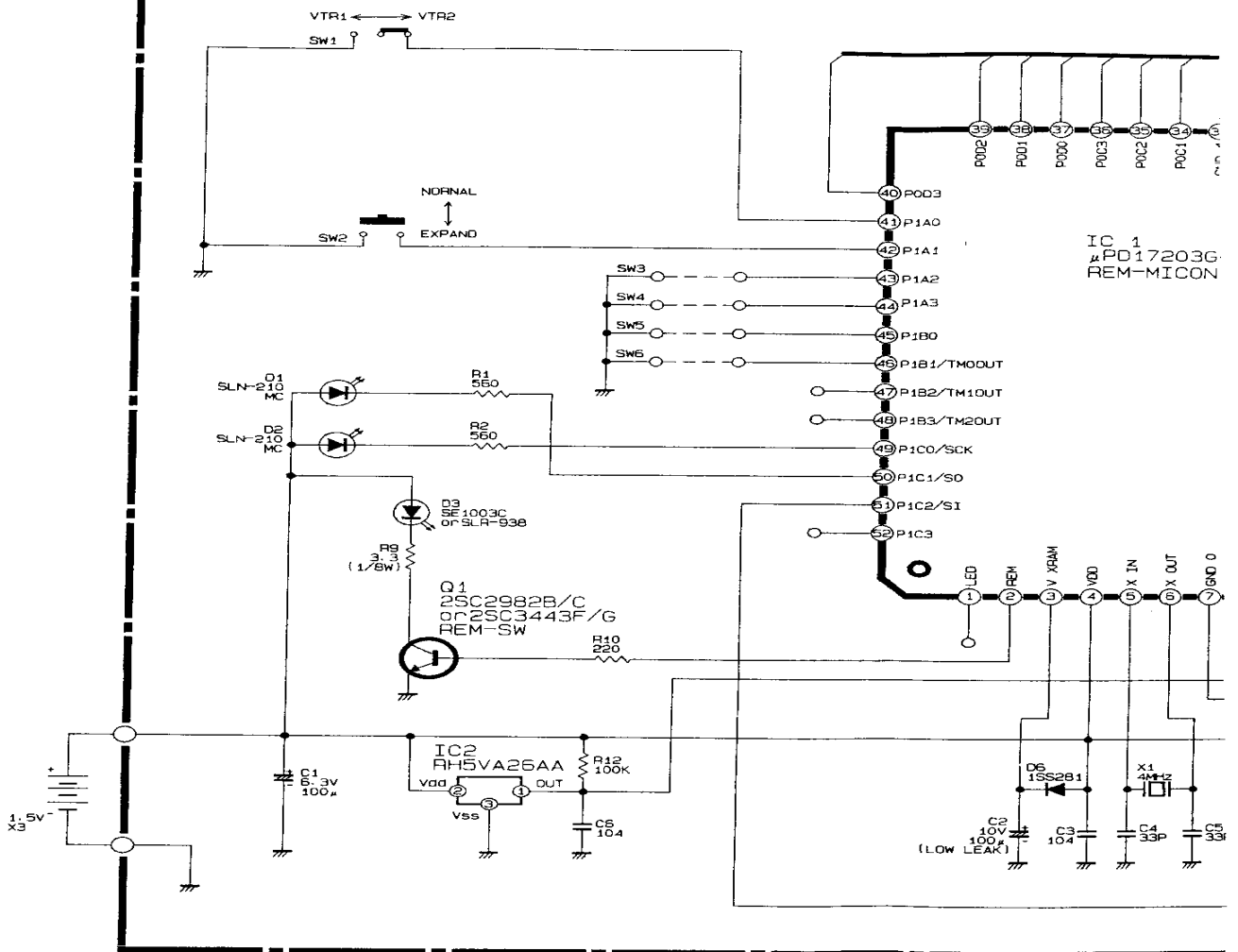
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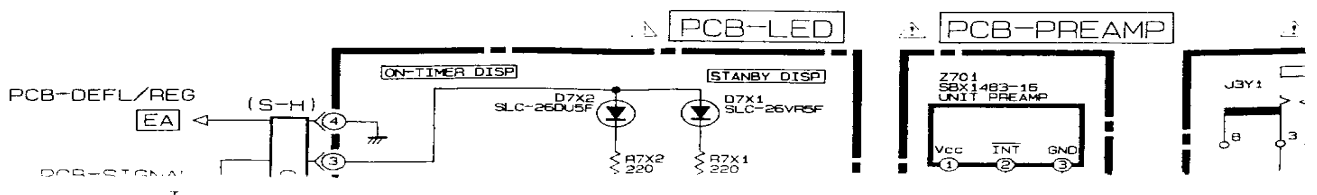
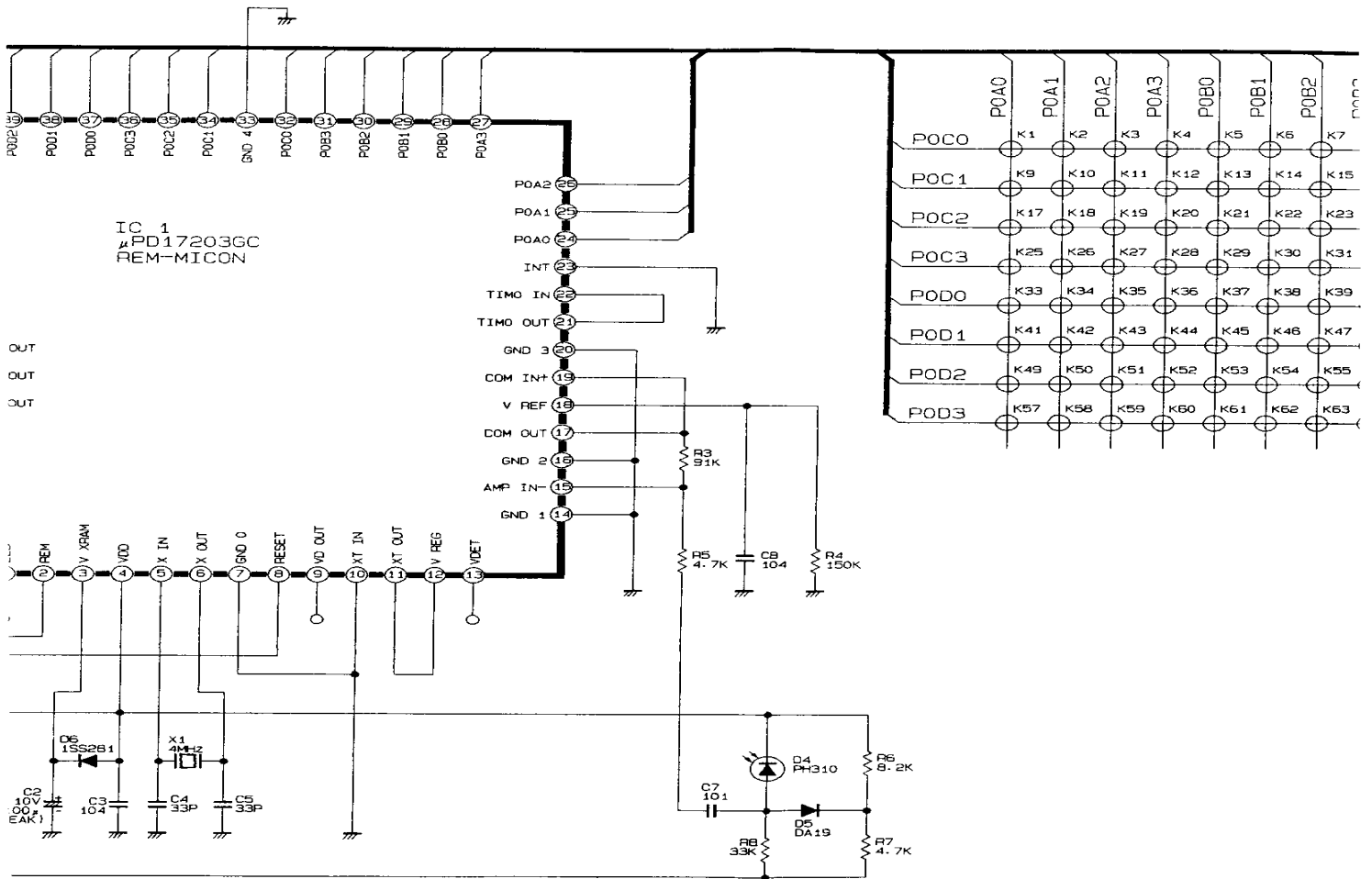
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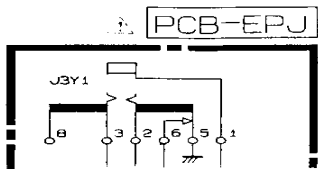
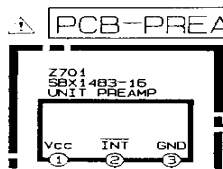
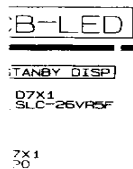
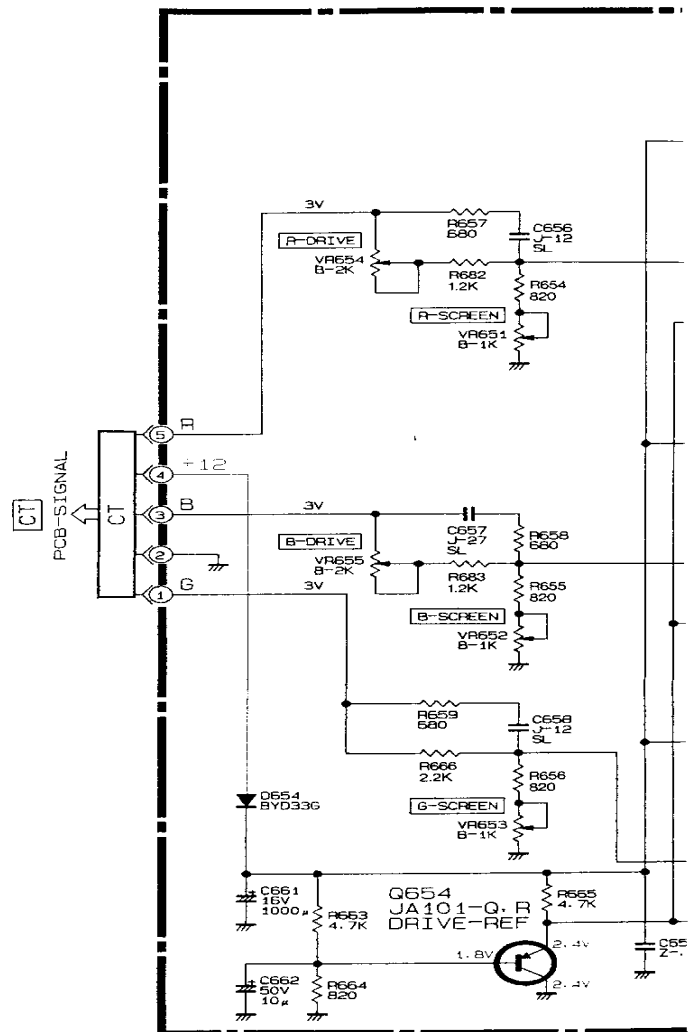
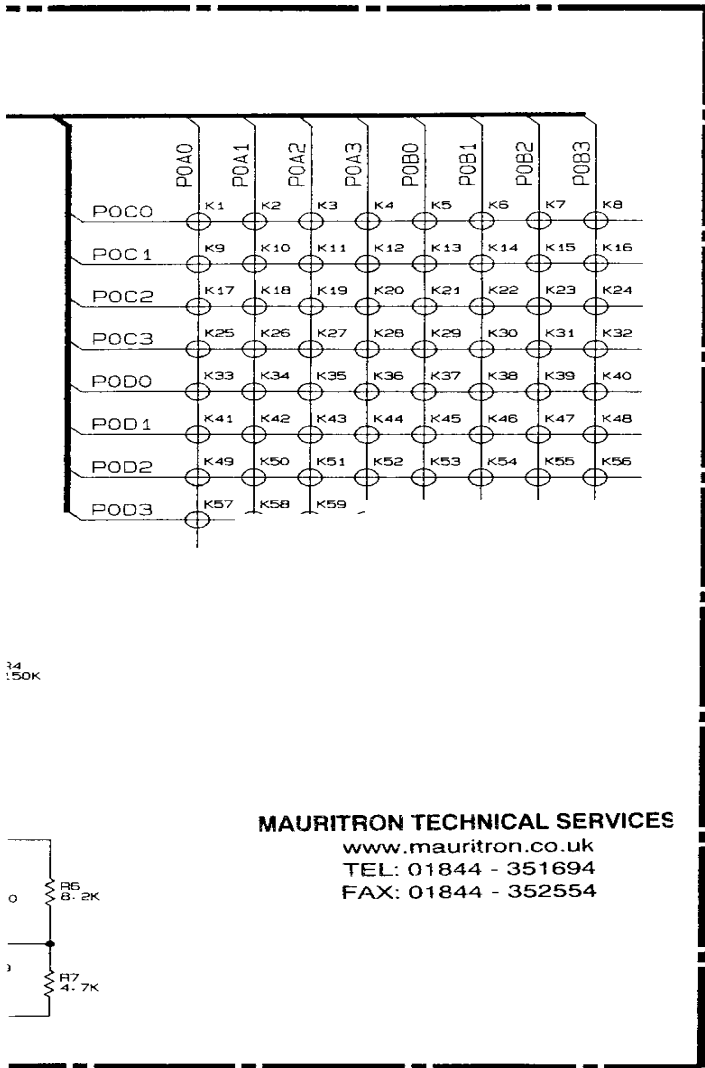
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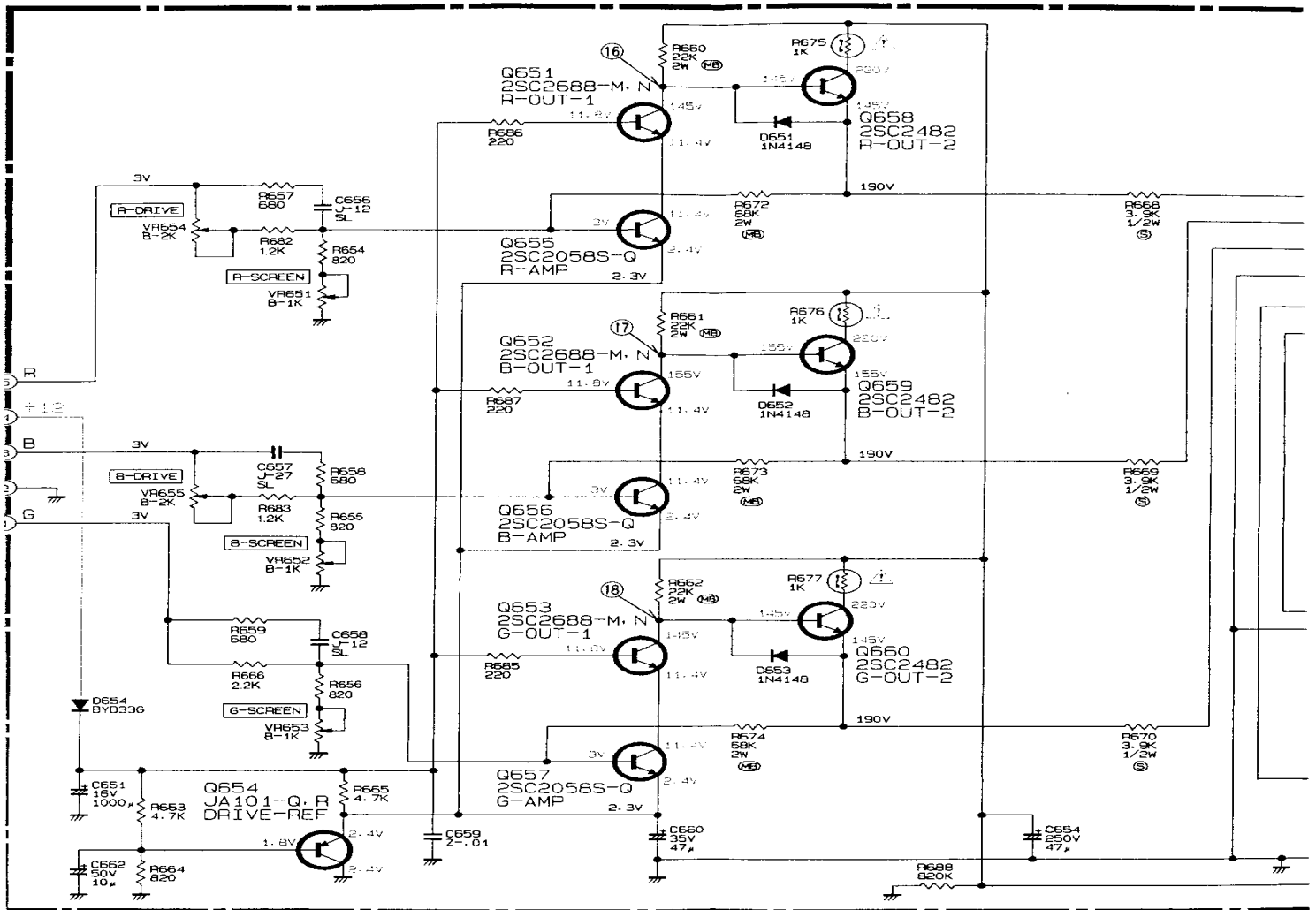
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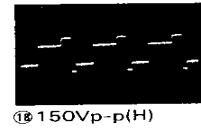
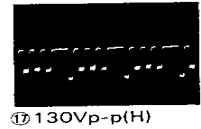
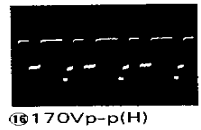
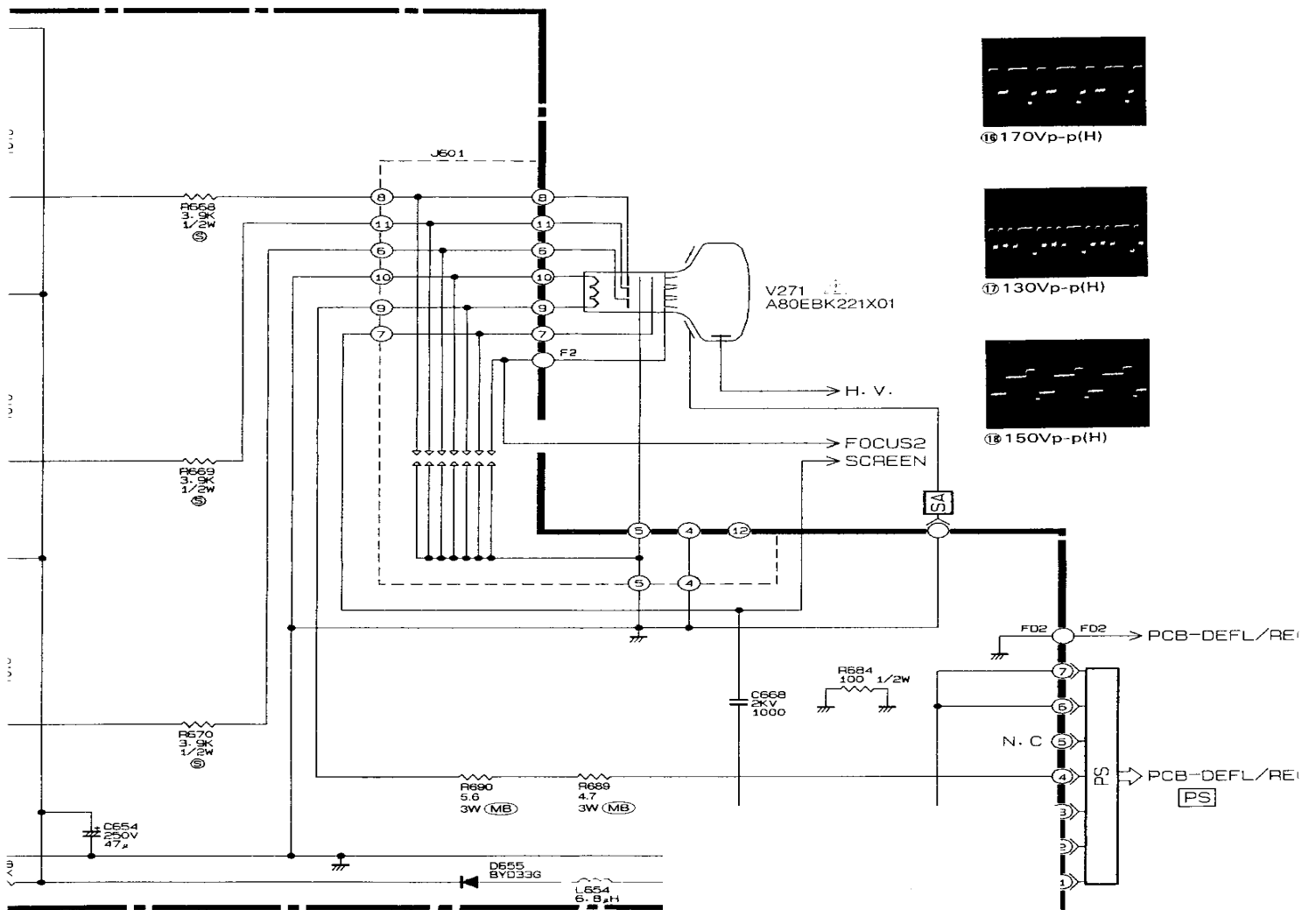


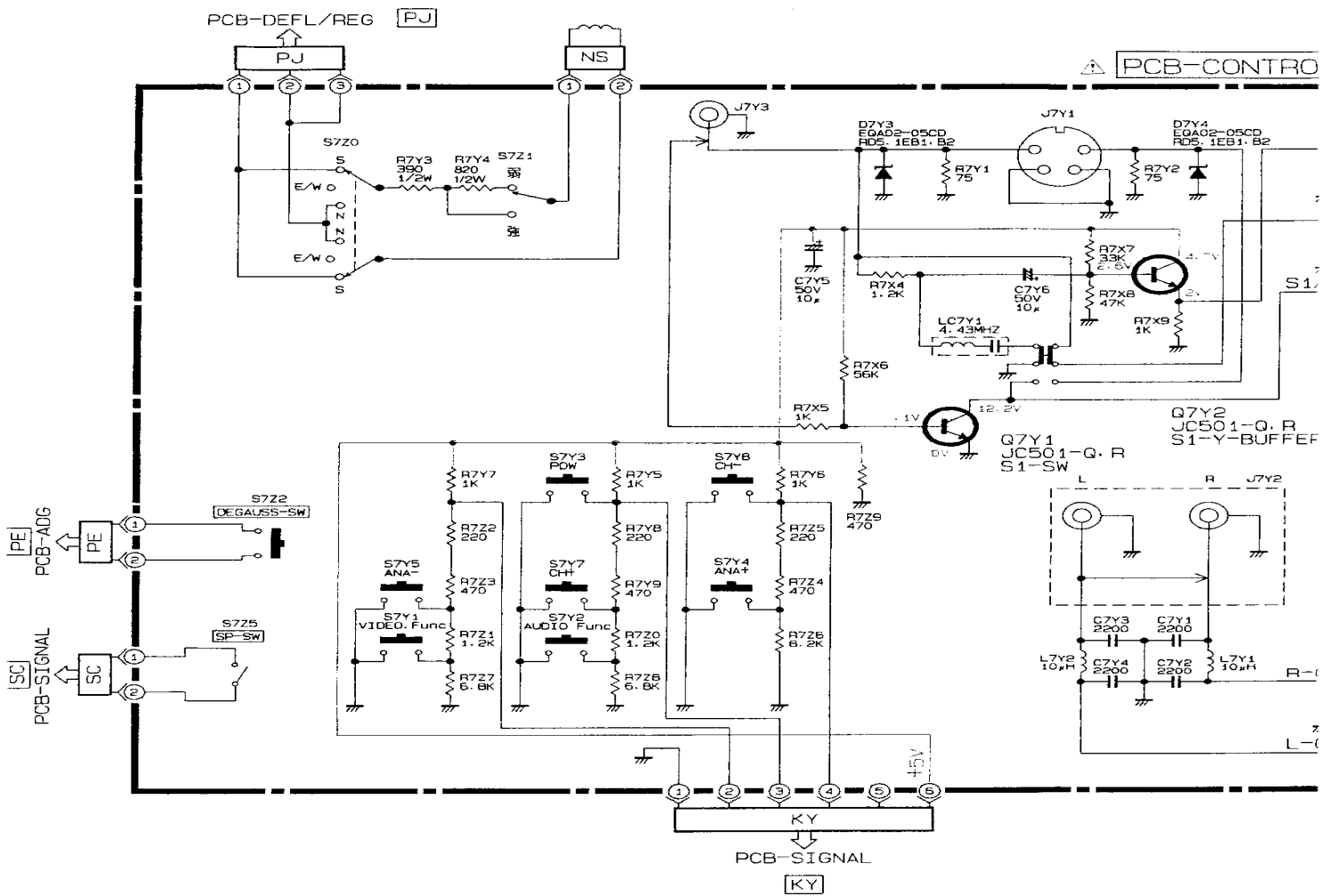
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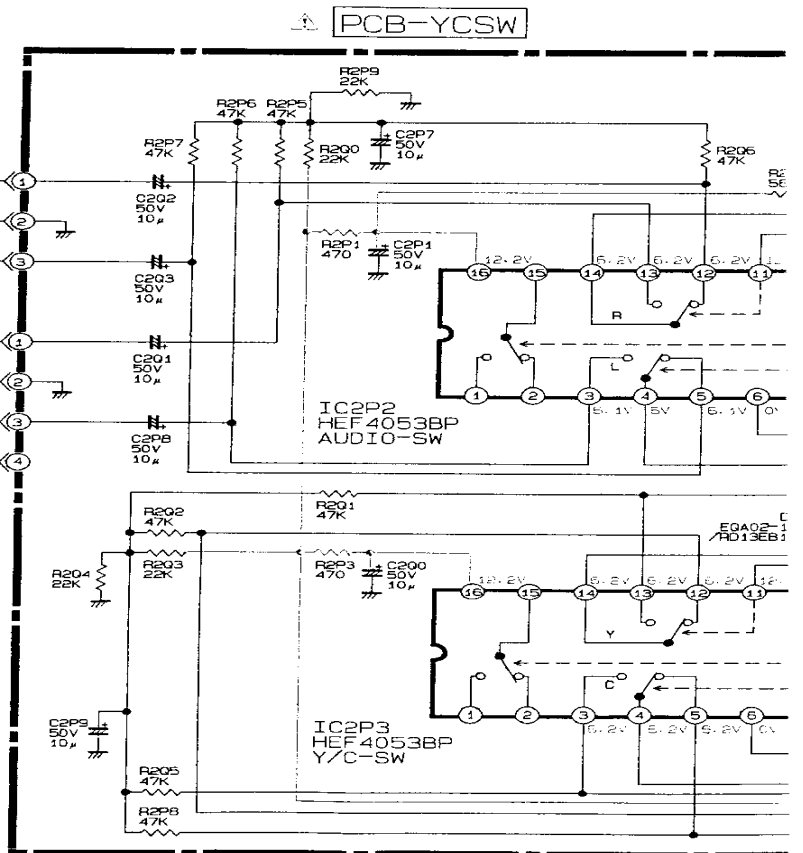
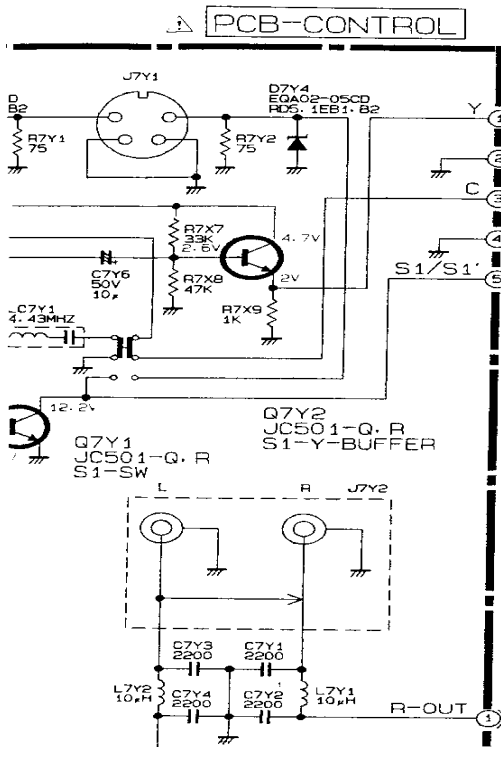
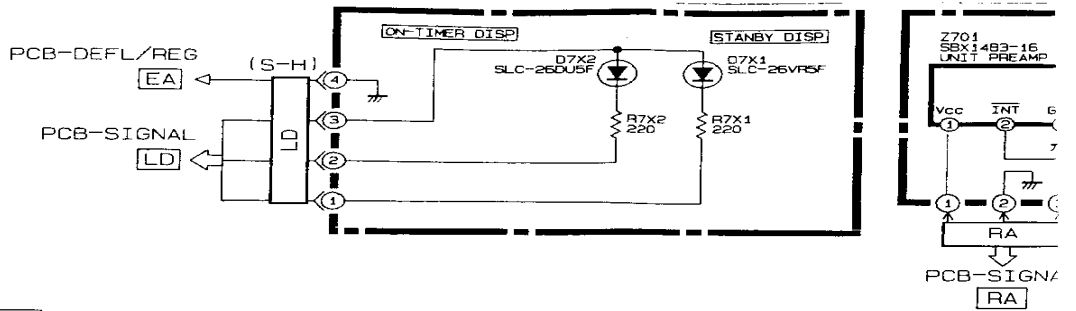


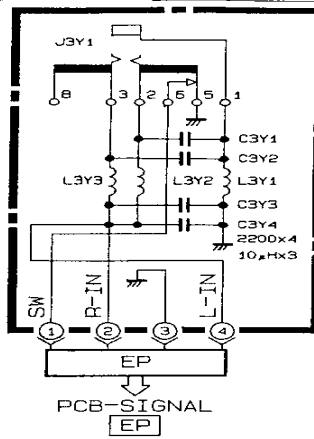
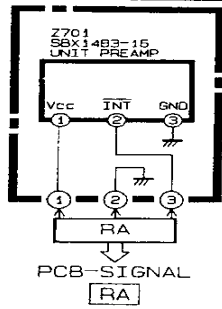
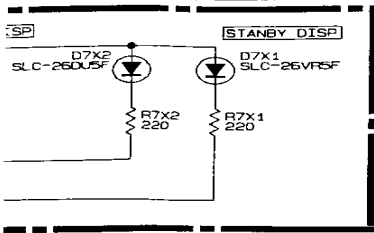
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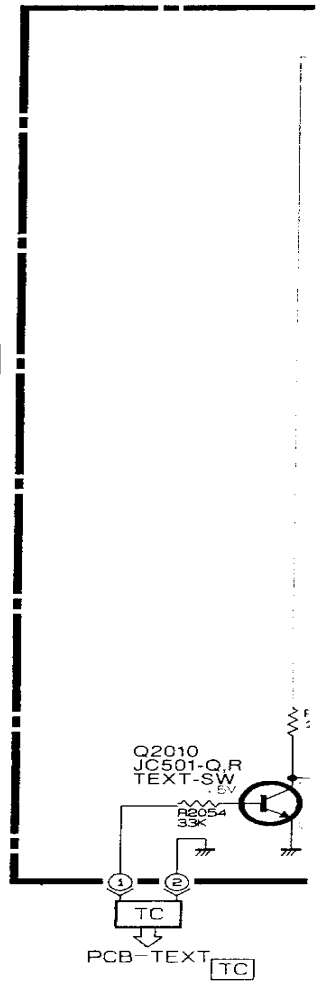
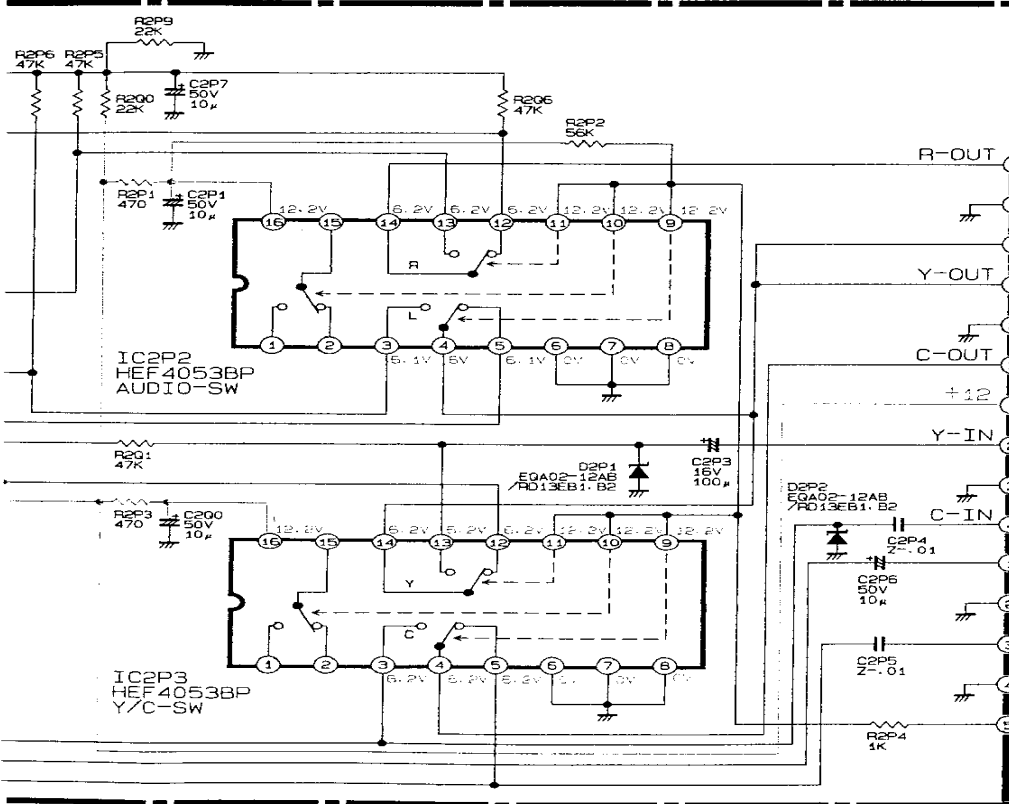




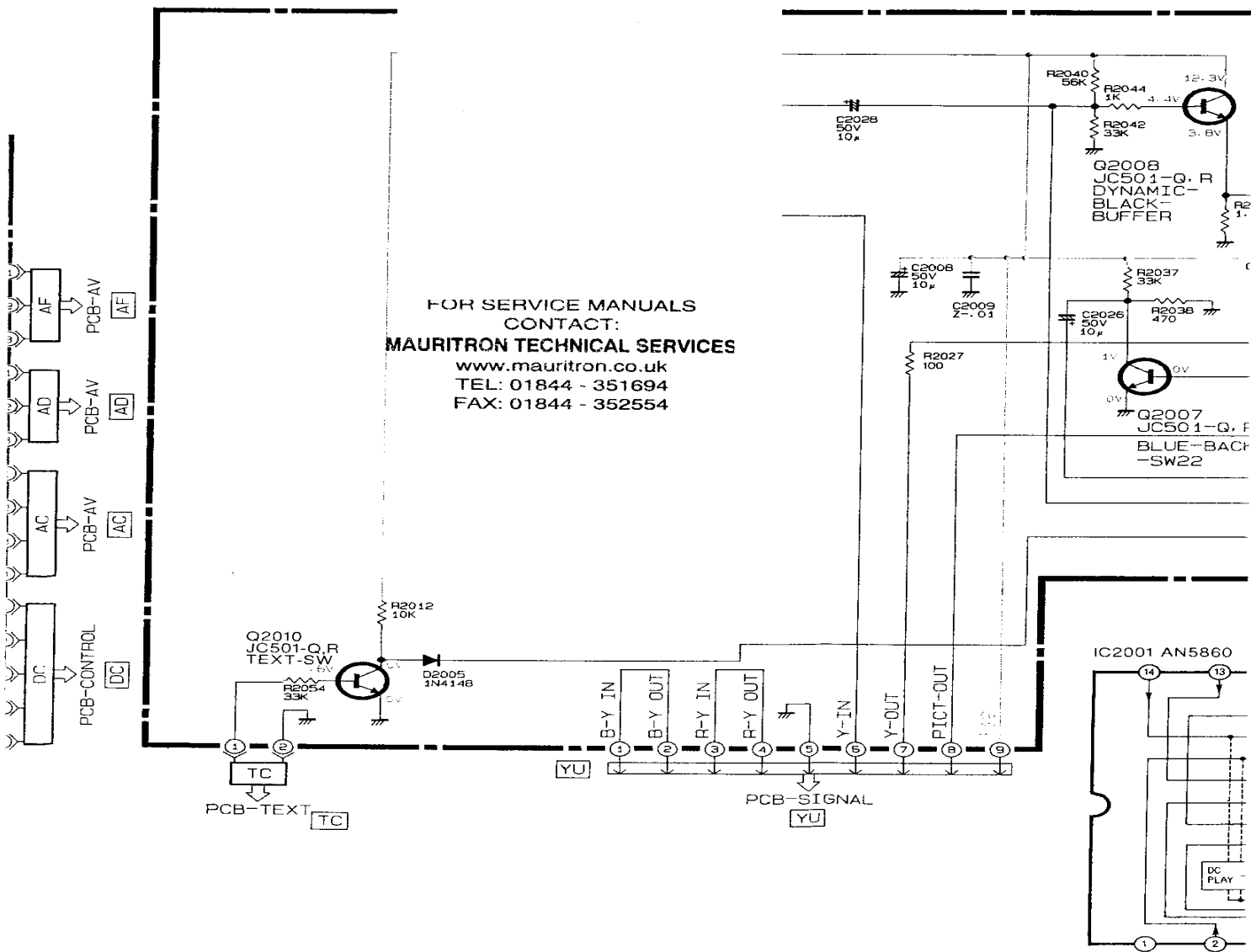




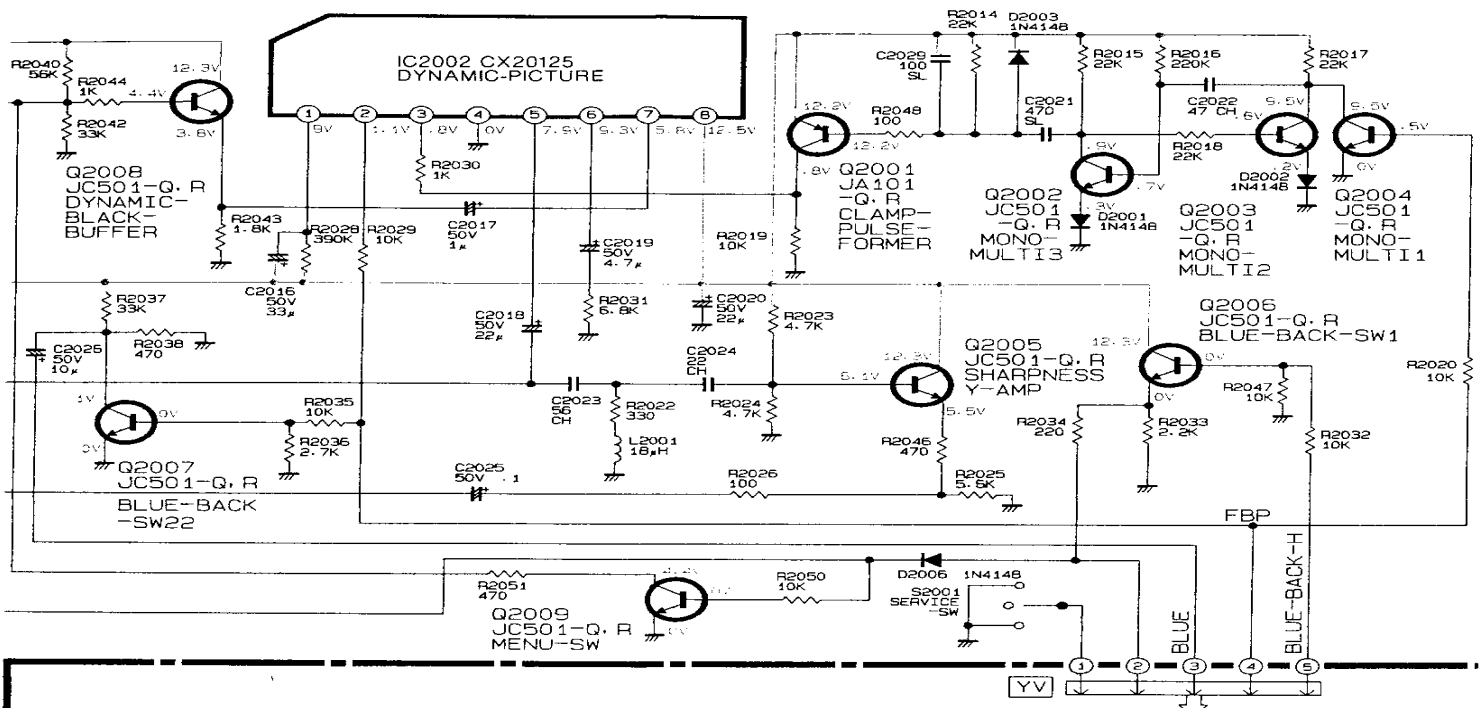
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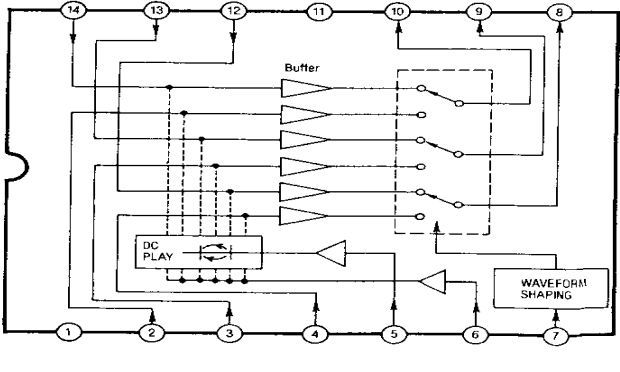
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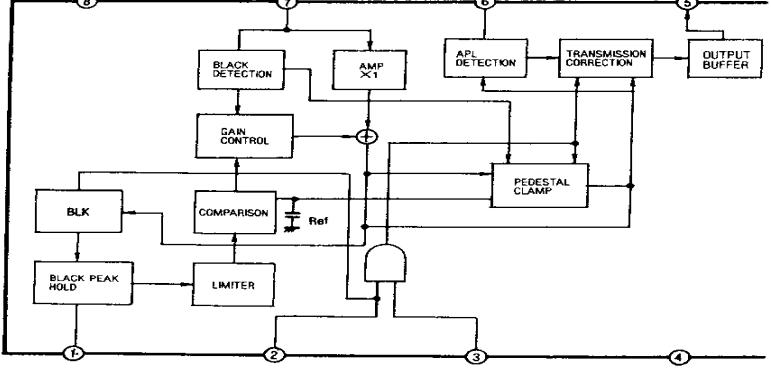
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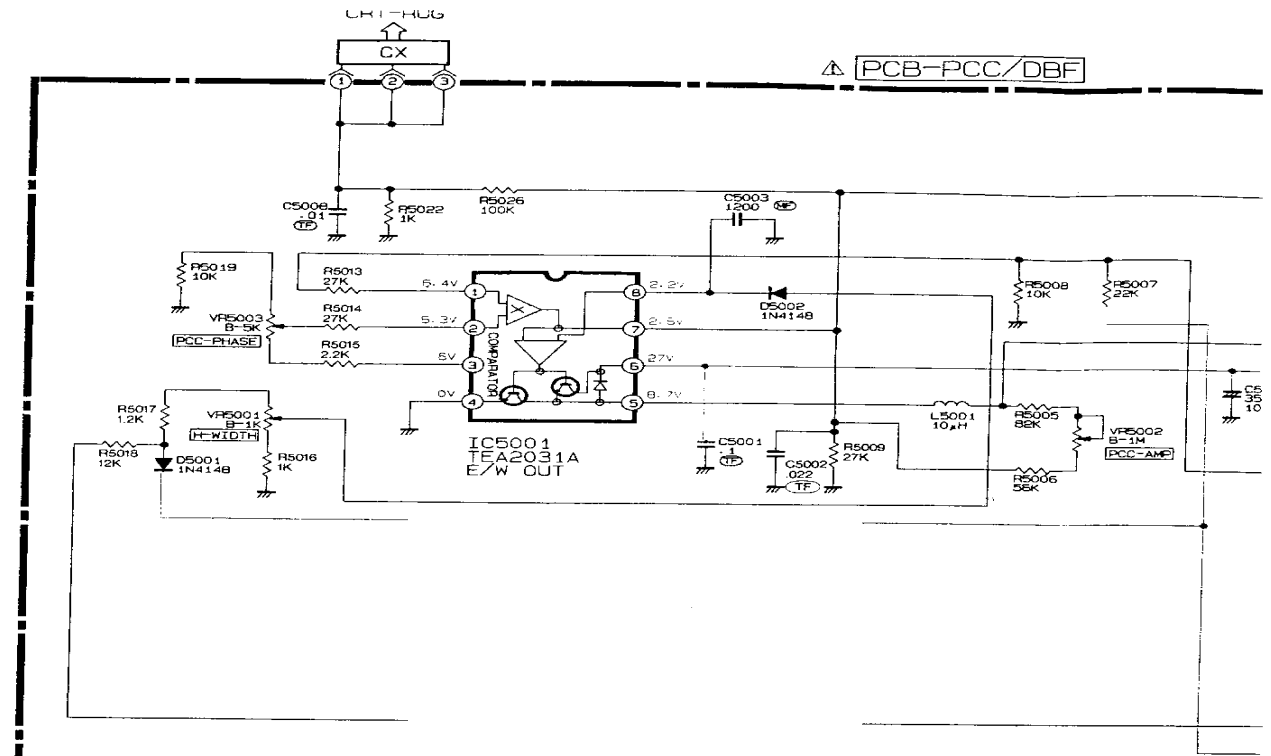


IC2001 AN5860

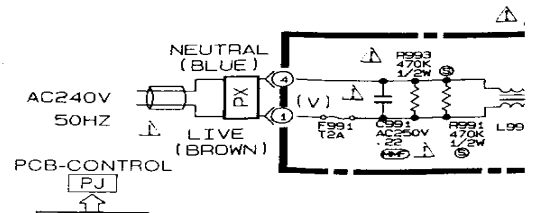


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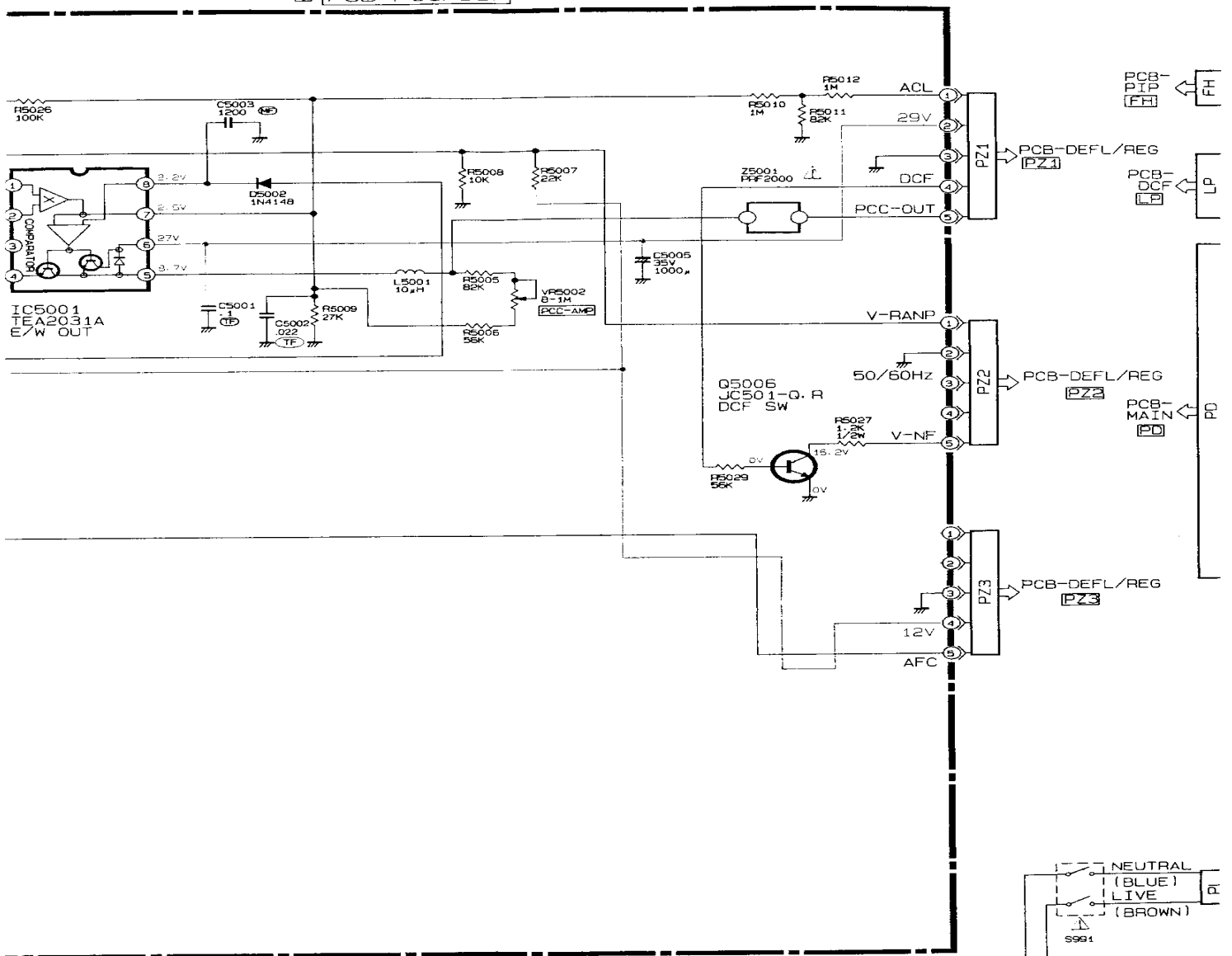




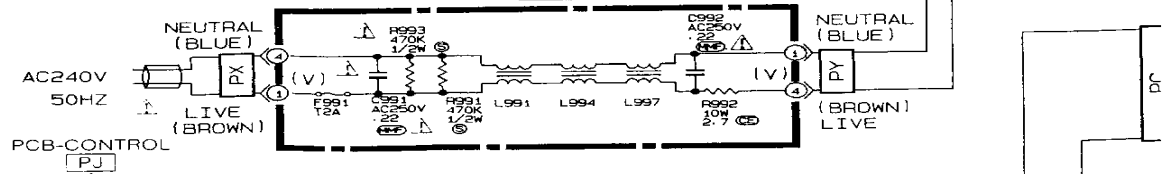
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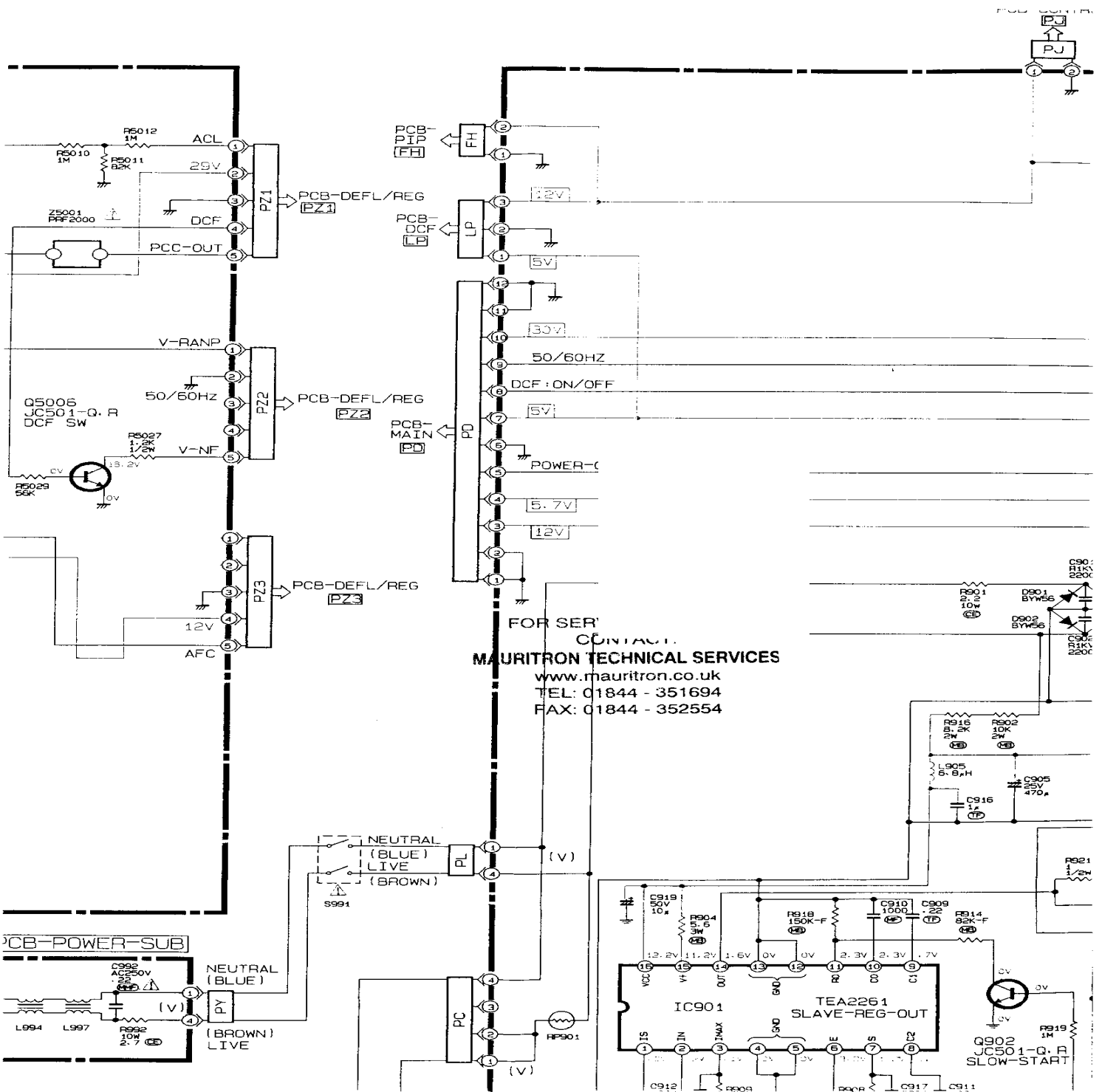


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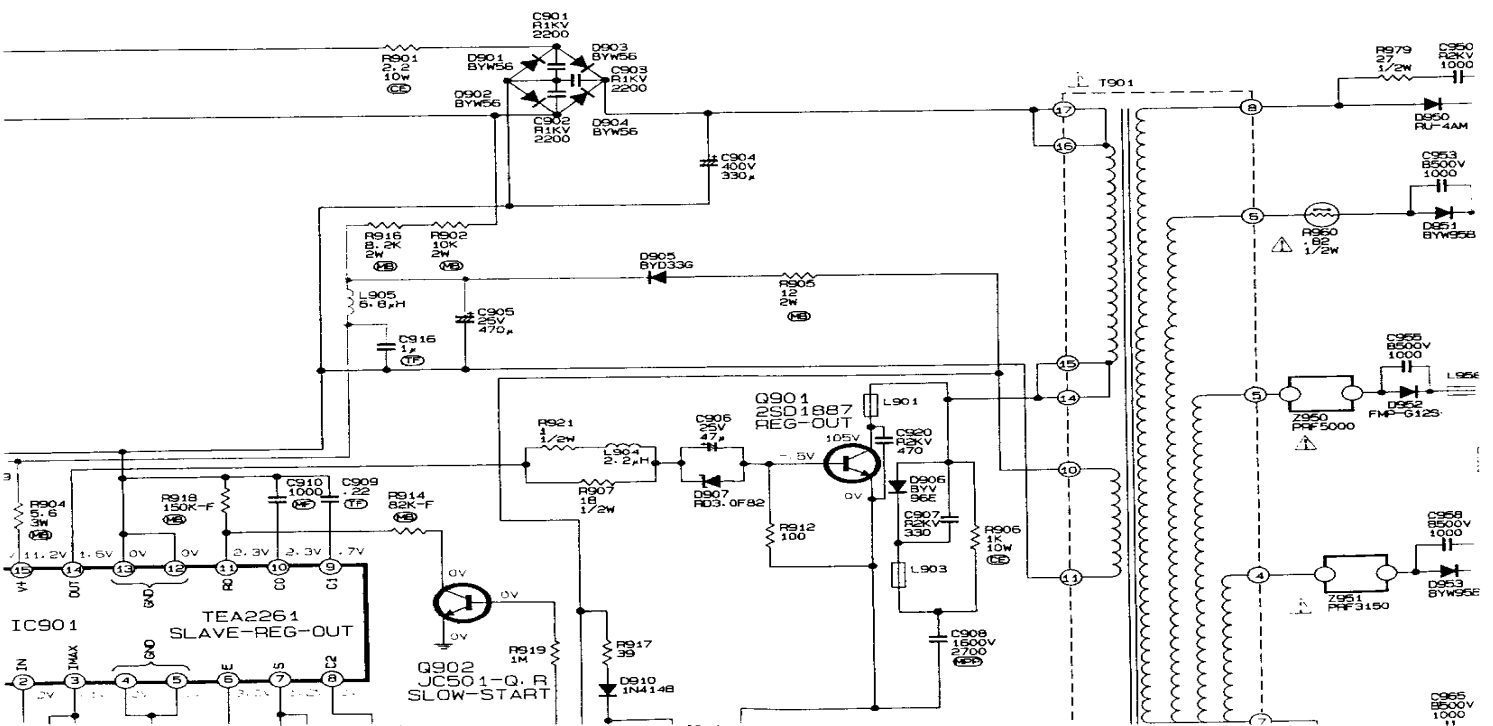
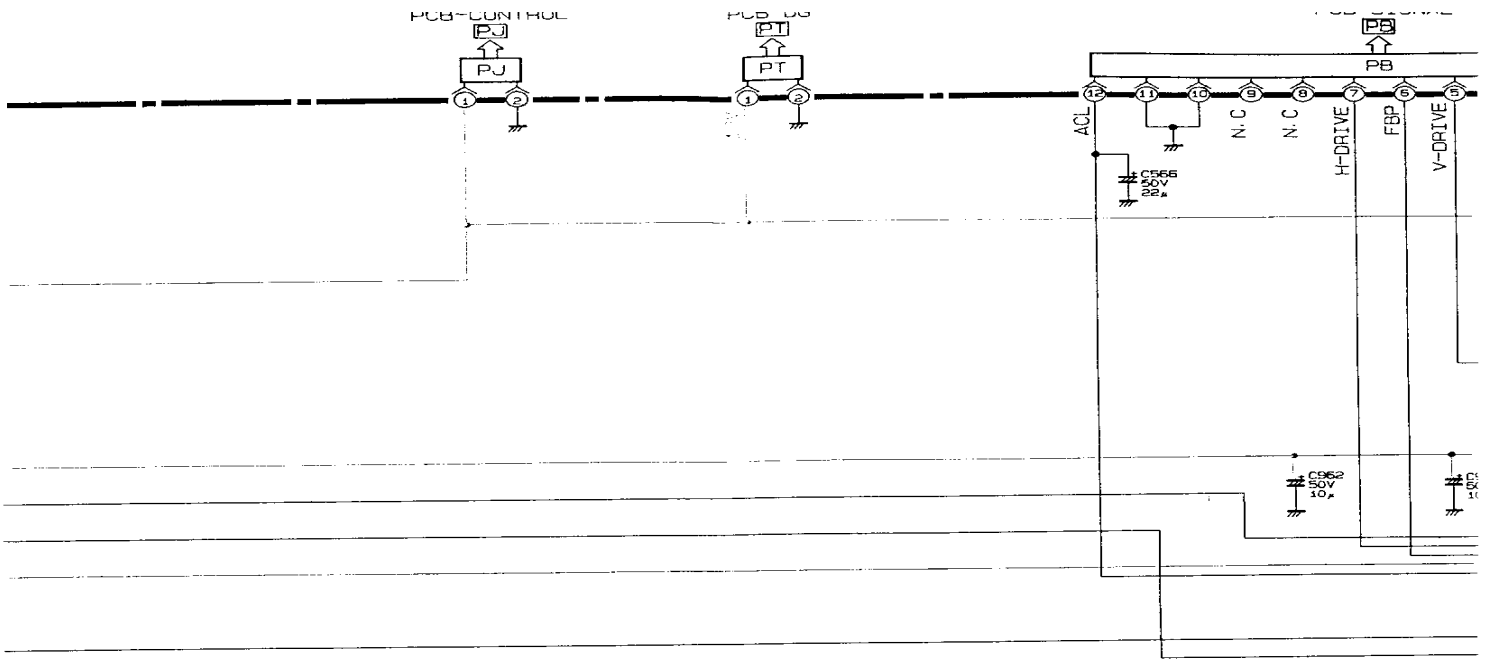


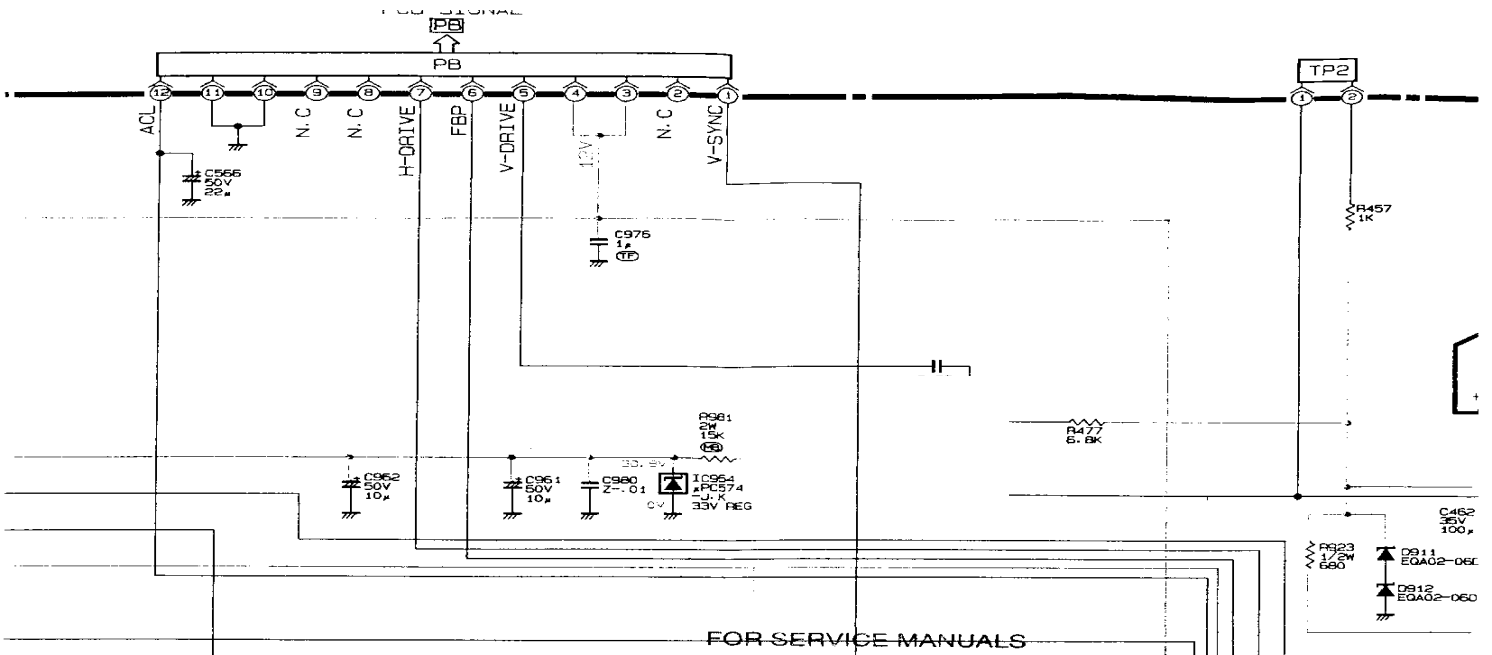
△ PCB-POWER-SUB



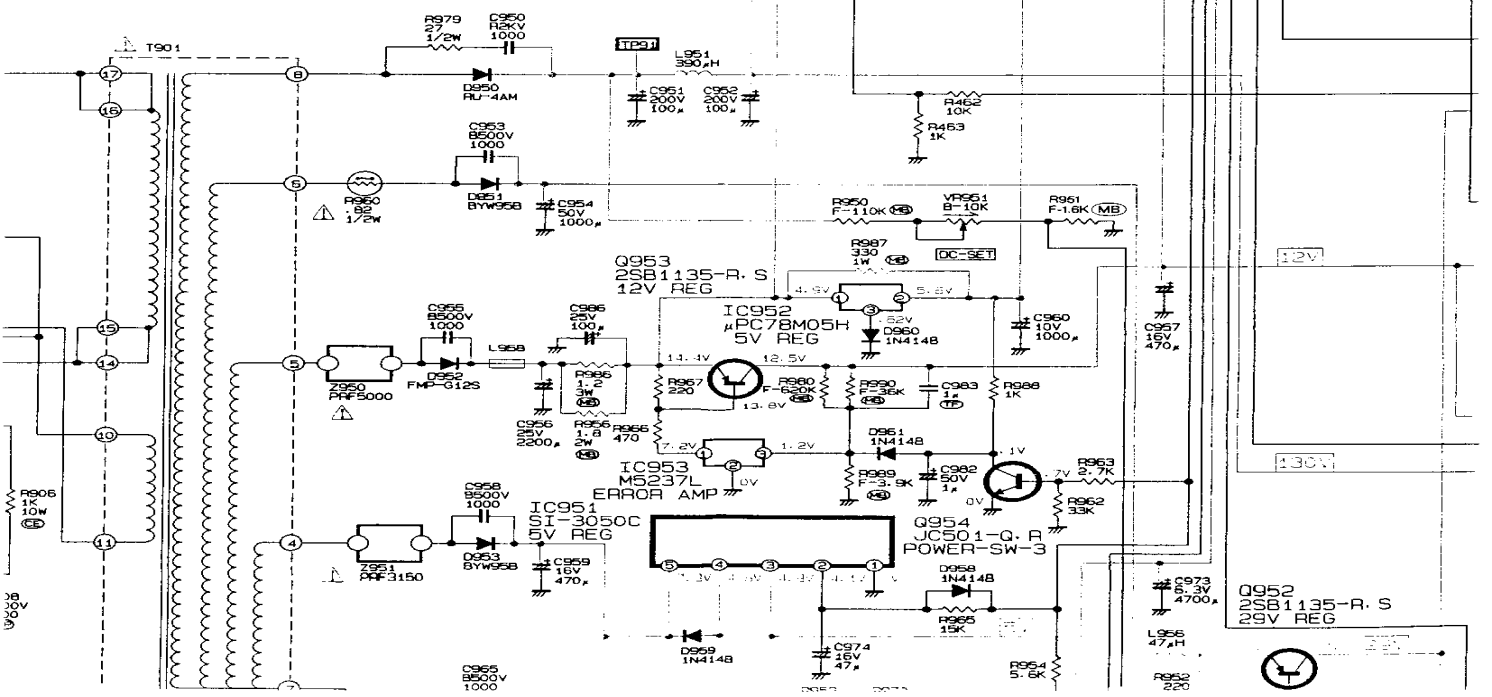


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PCB-DEFL/REG

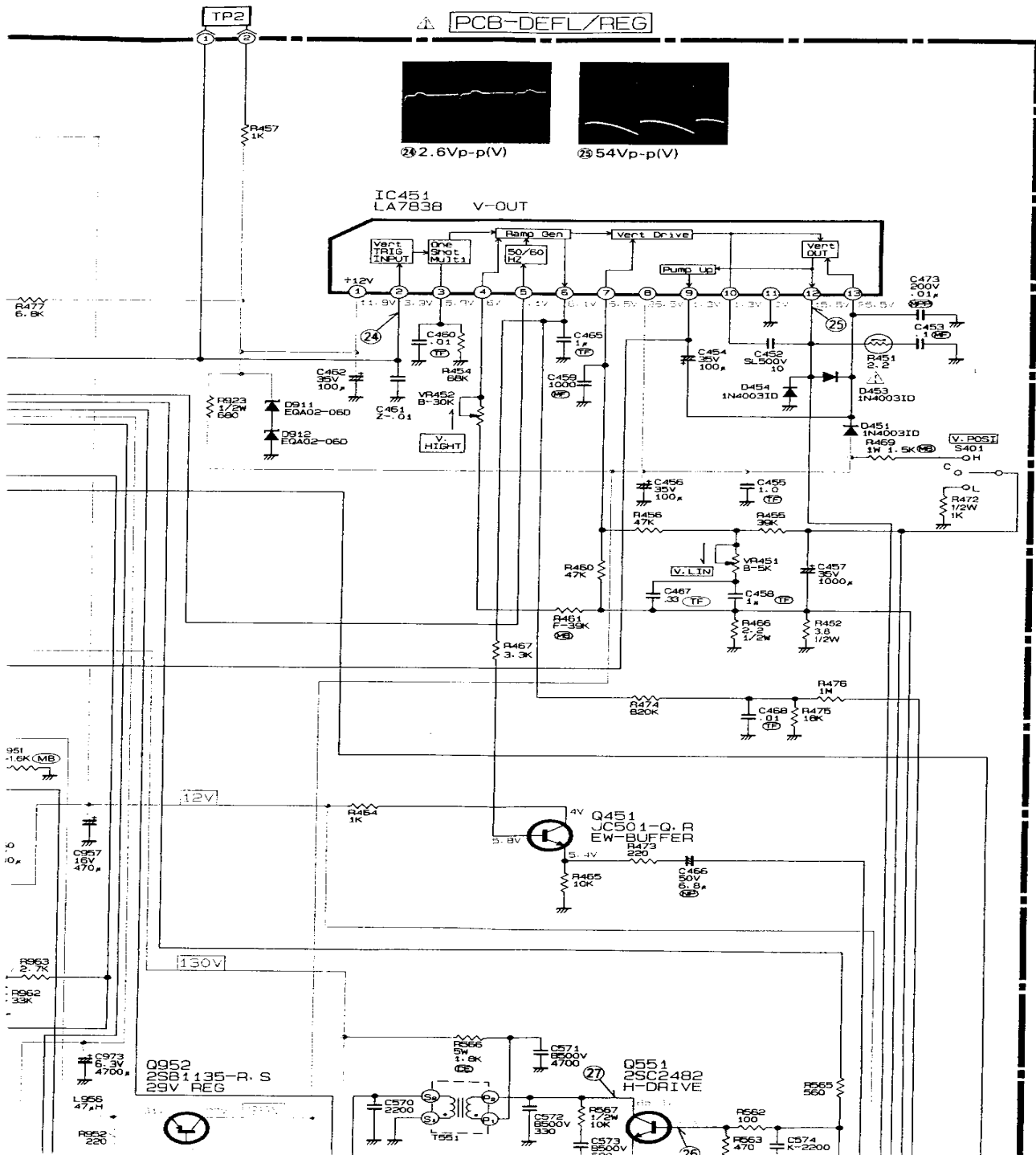


24 2.6Vp-p(V)



25 54Vp-p(V)

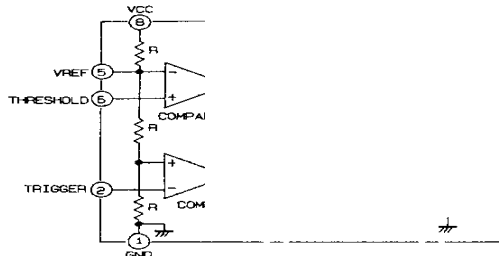
IC451
LA7838 V-OUT



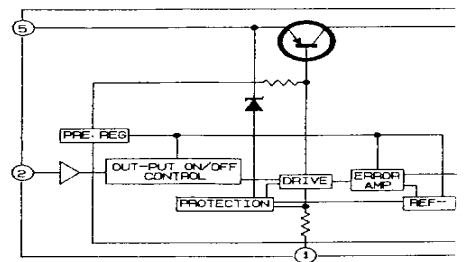
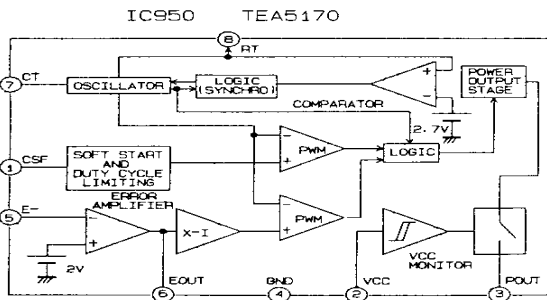
26 0.9Vp-p(H)



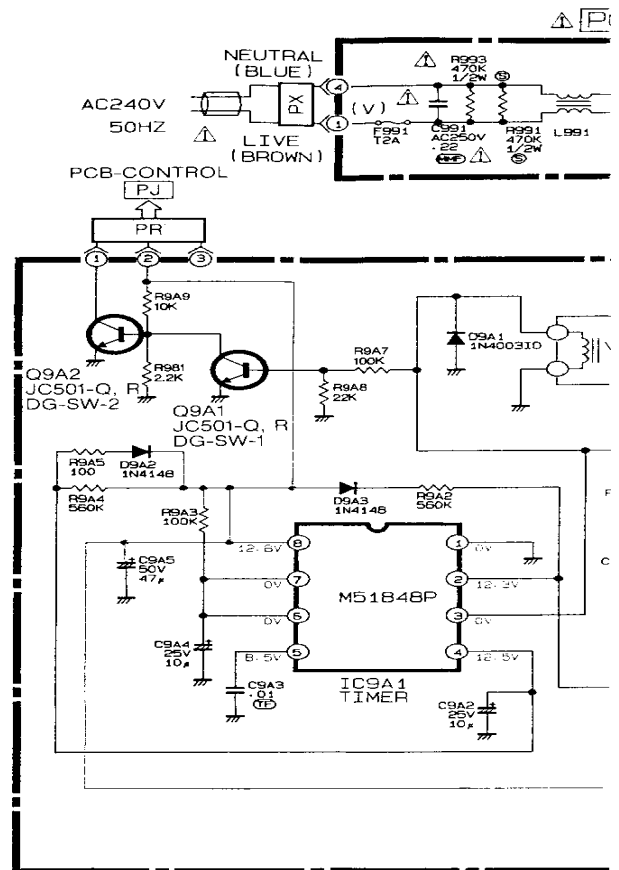
27 2.10Vp-p(H)

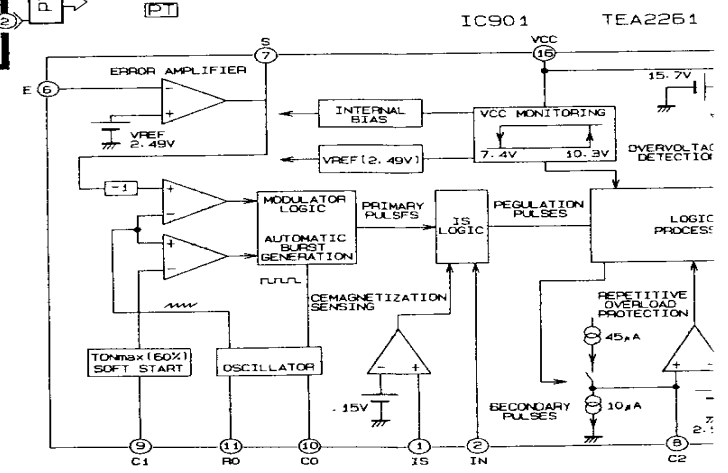
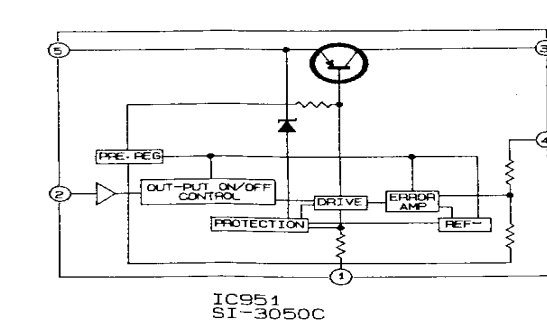
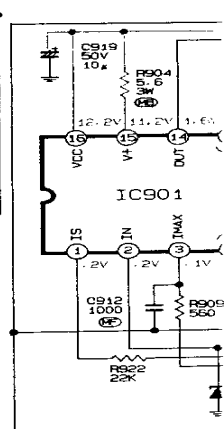
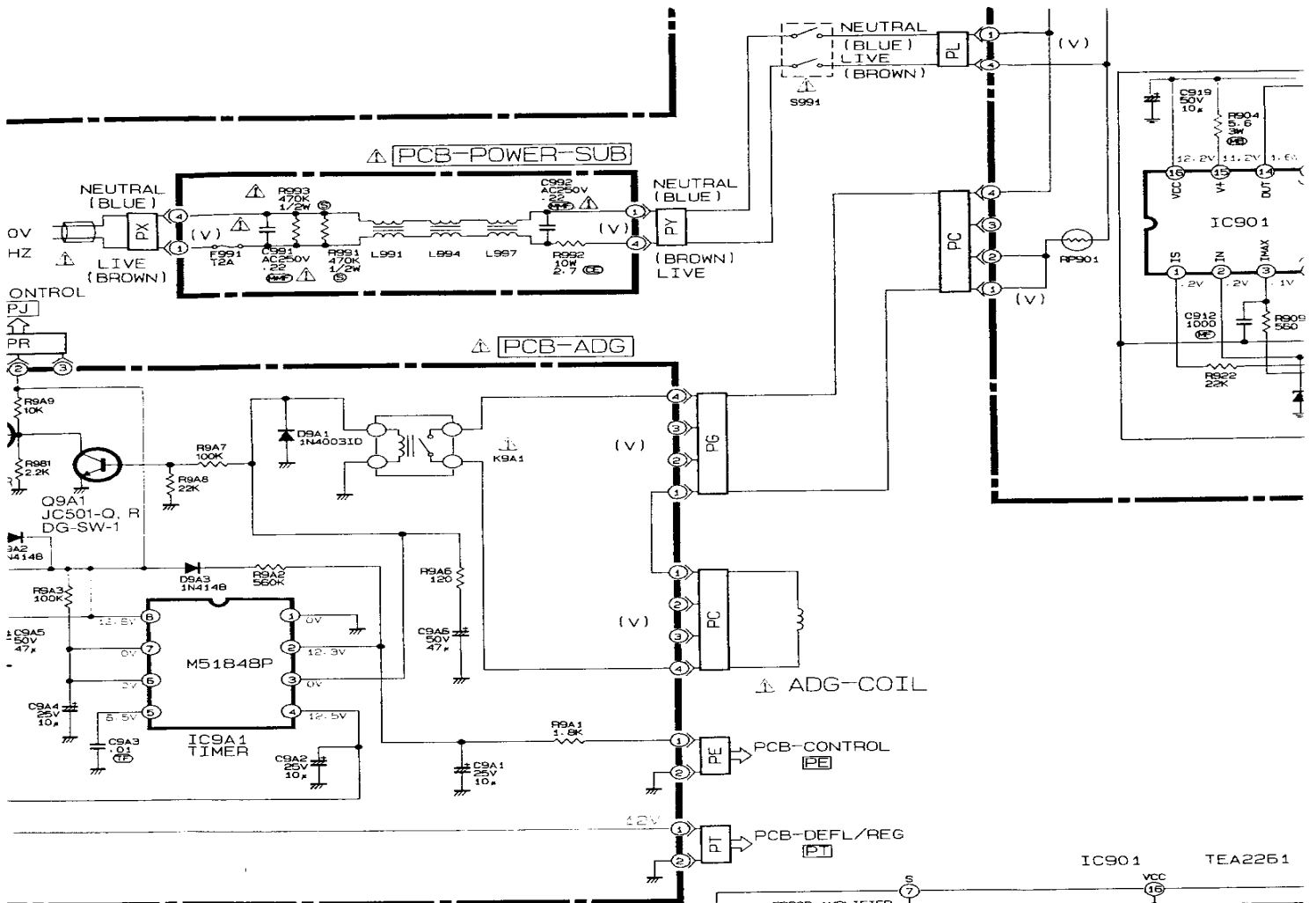


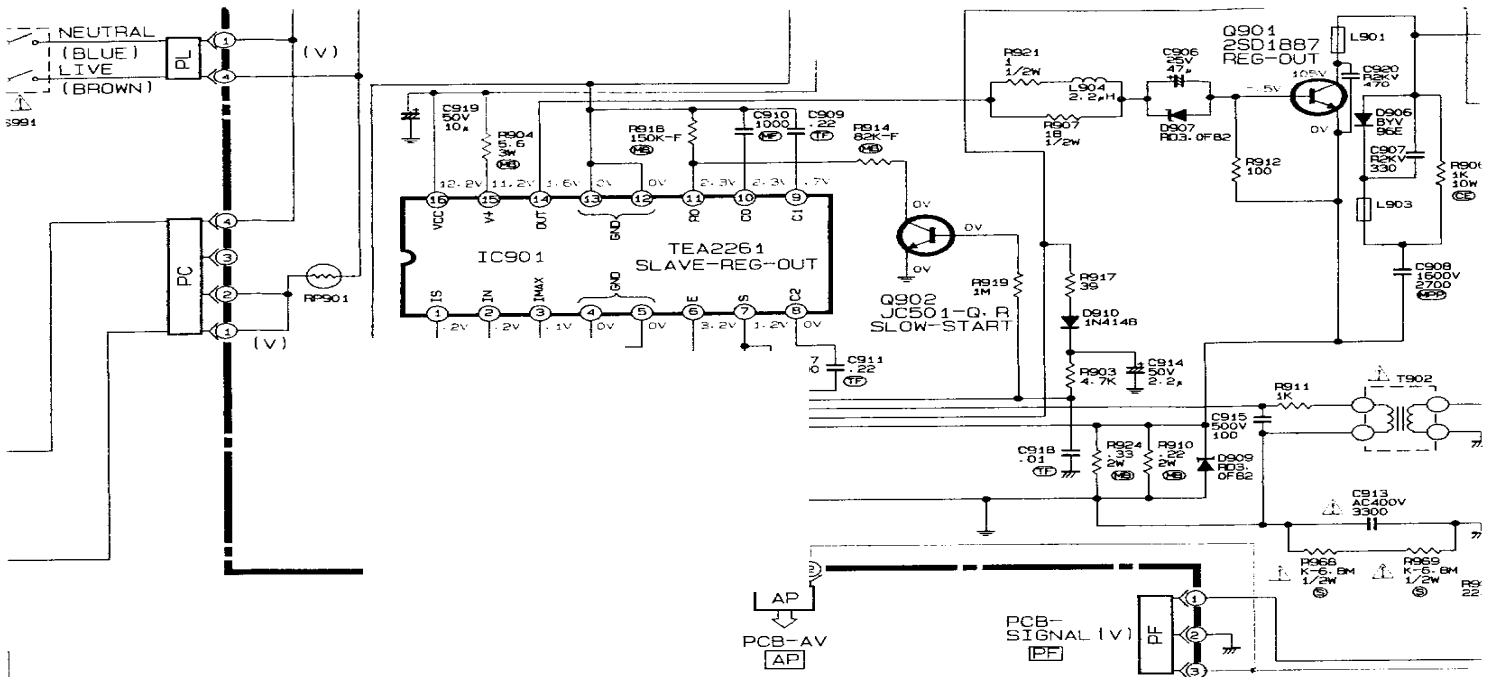
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IC951
SI-3050C





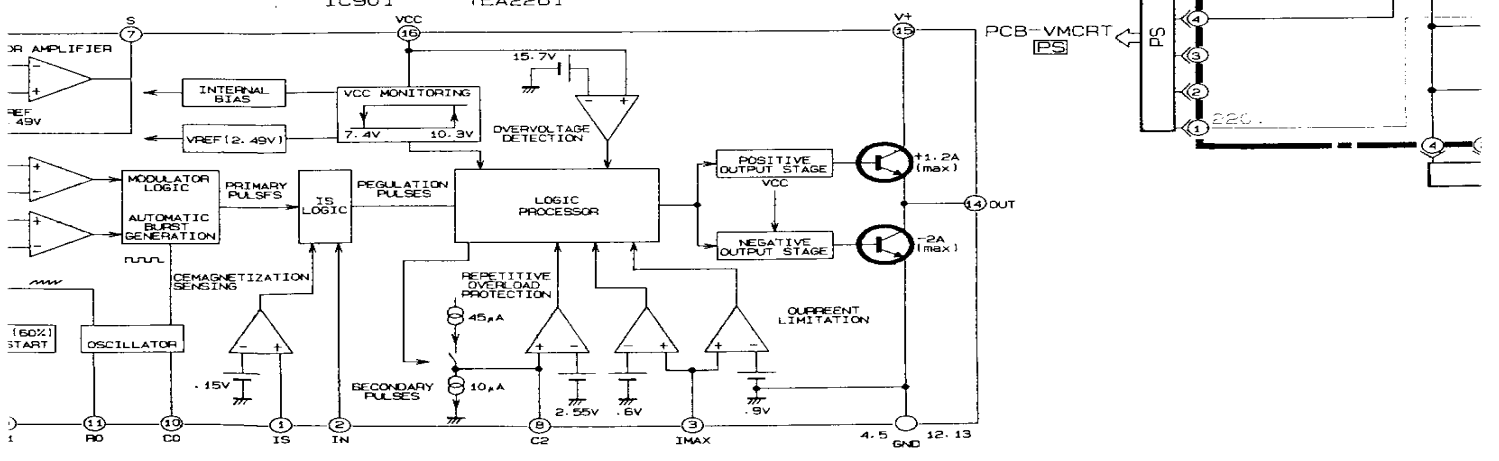


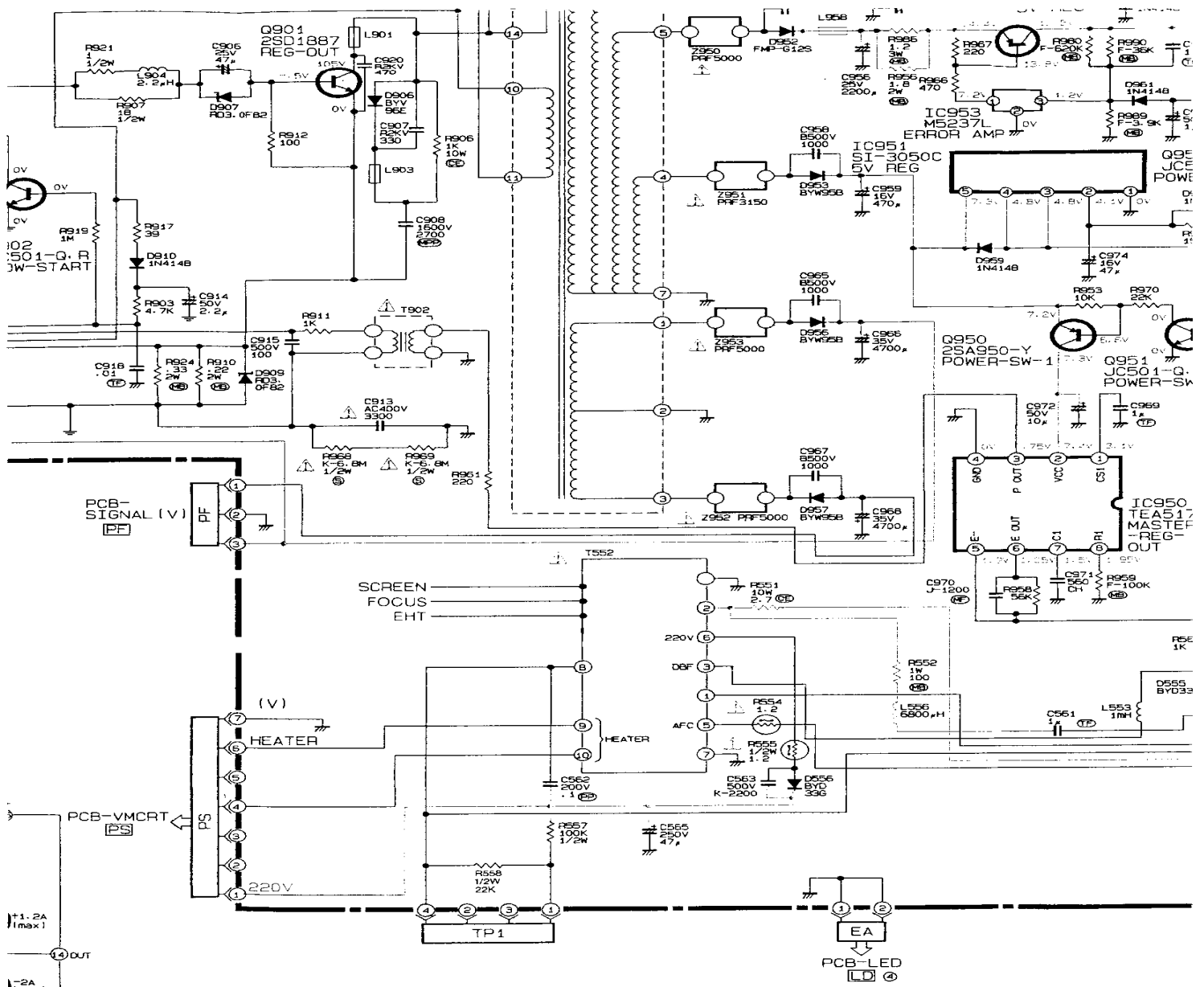
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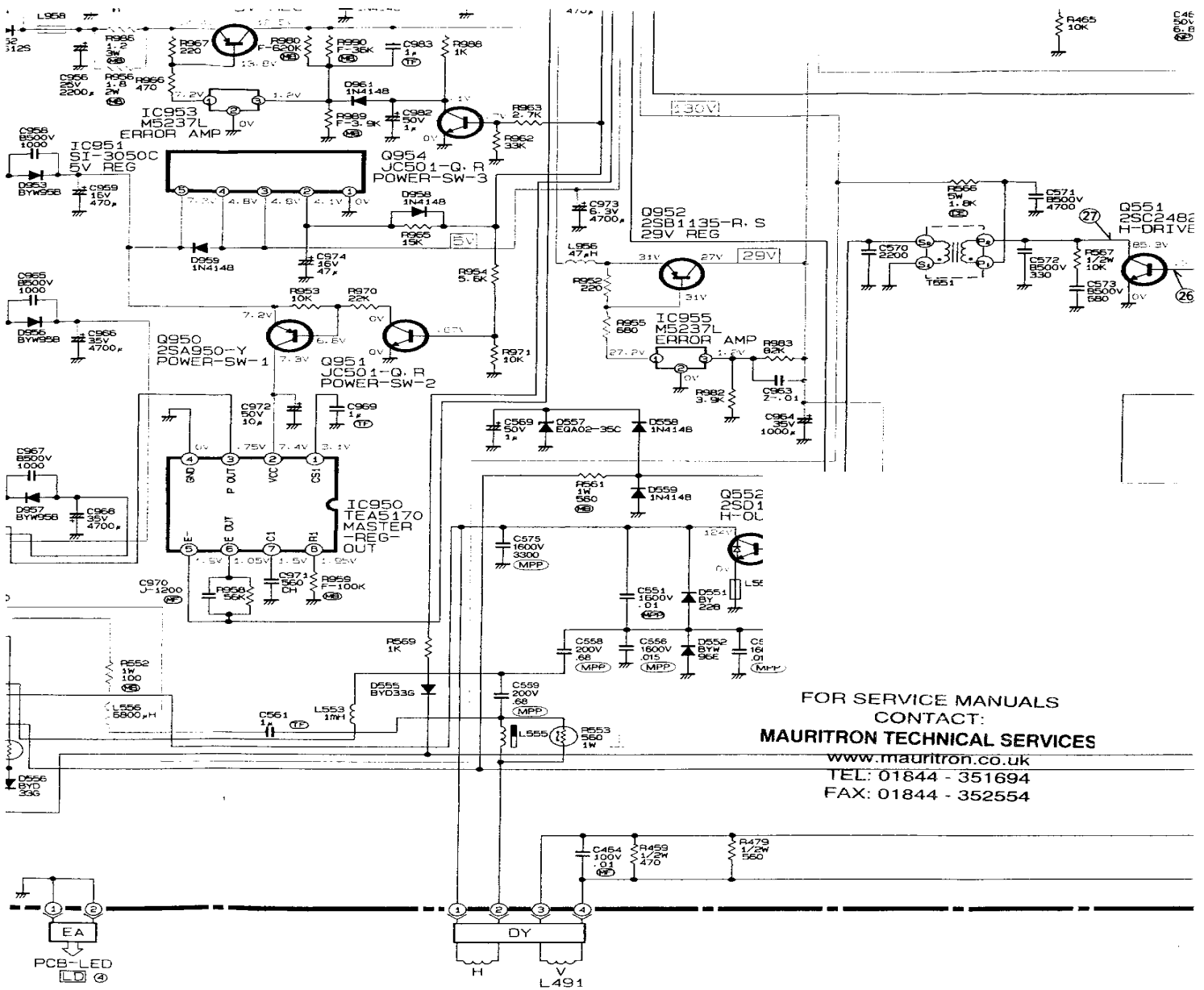
VDG-COIL

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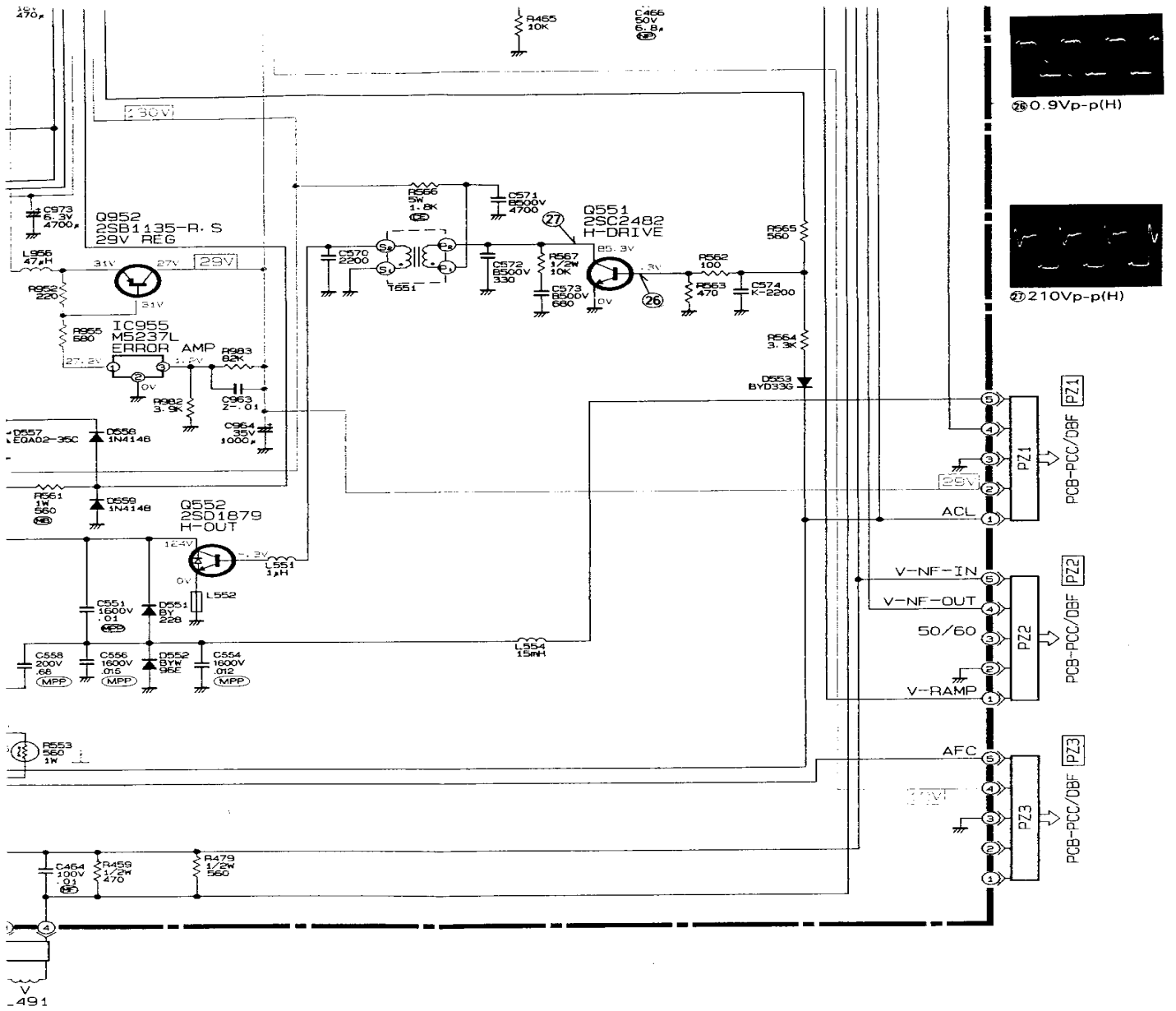
-DEFL/REG



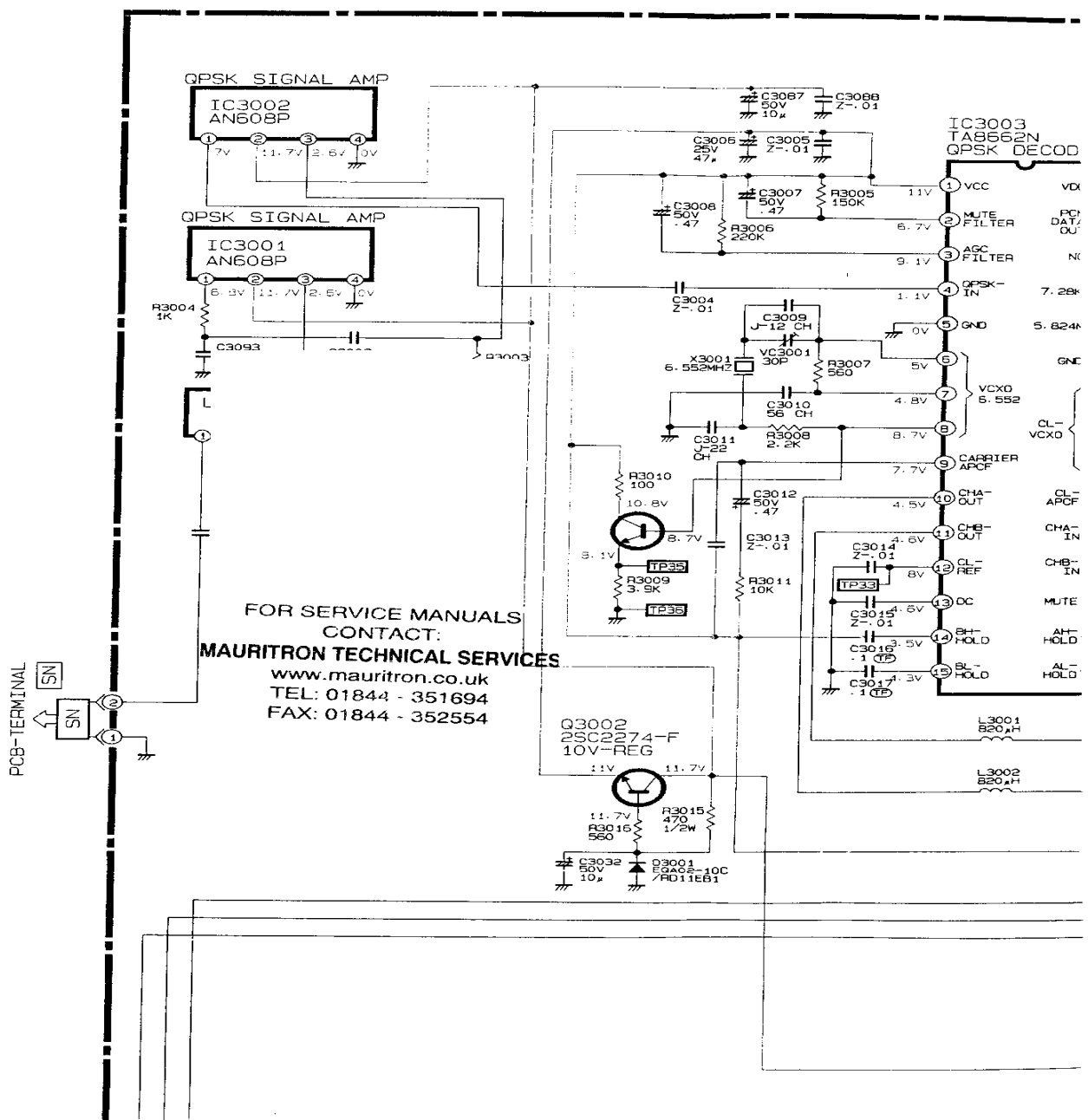
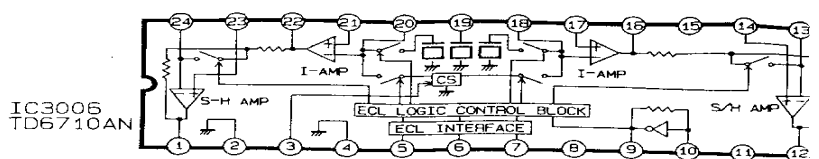




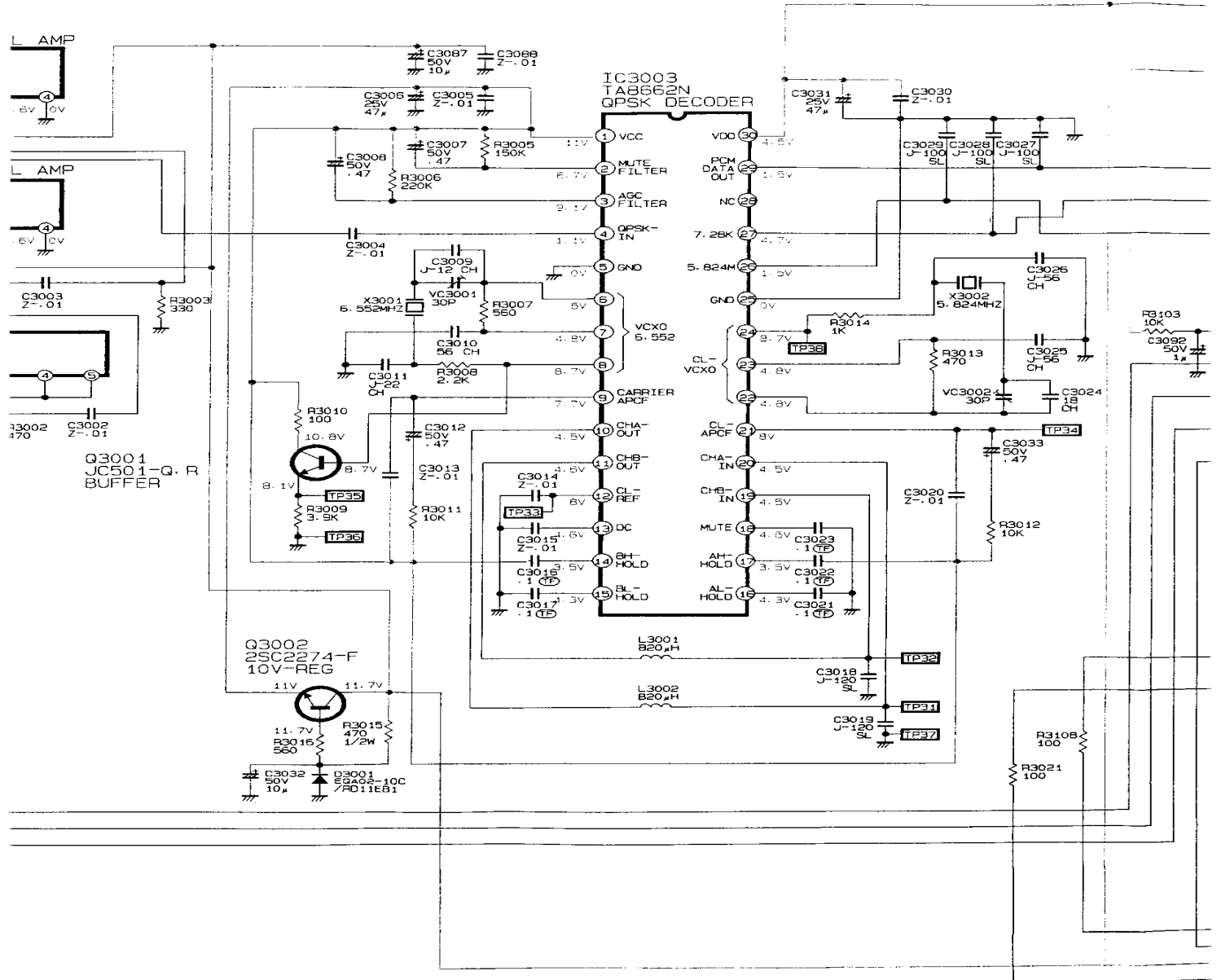
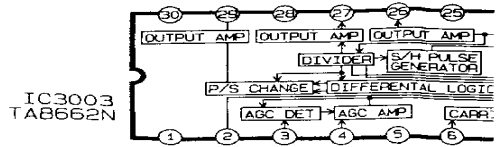
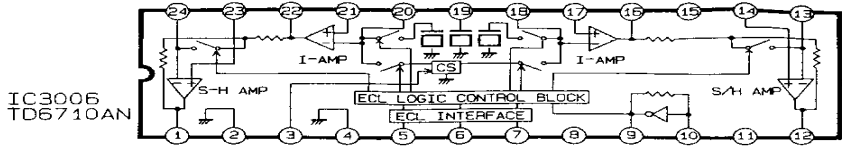
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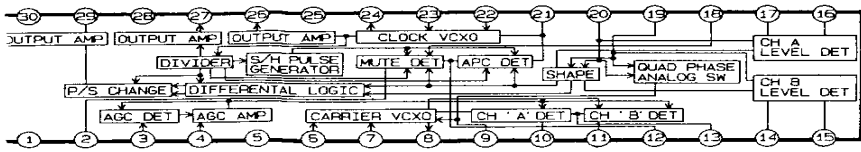


A
B
C
D
E
F

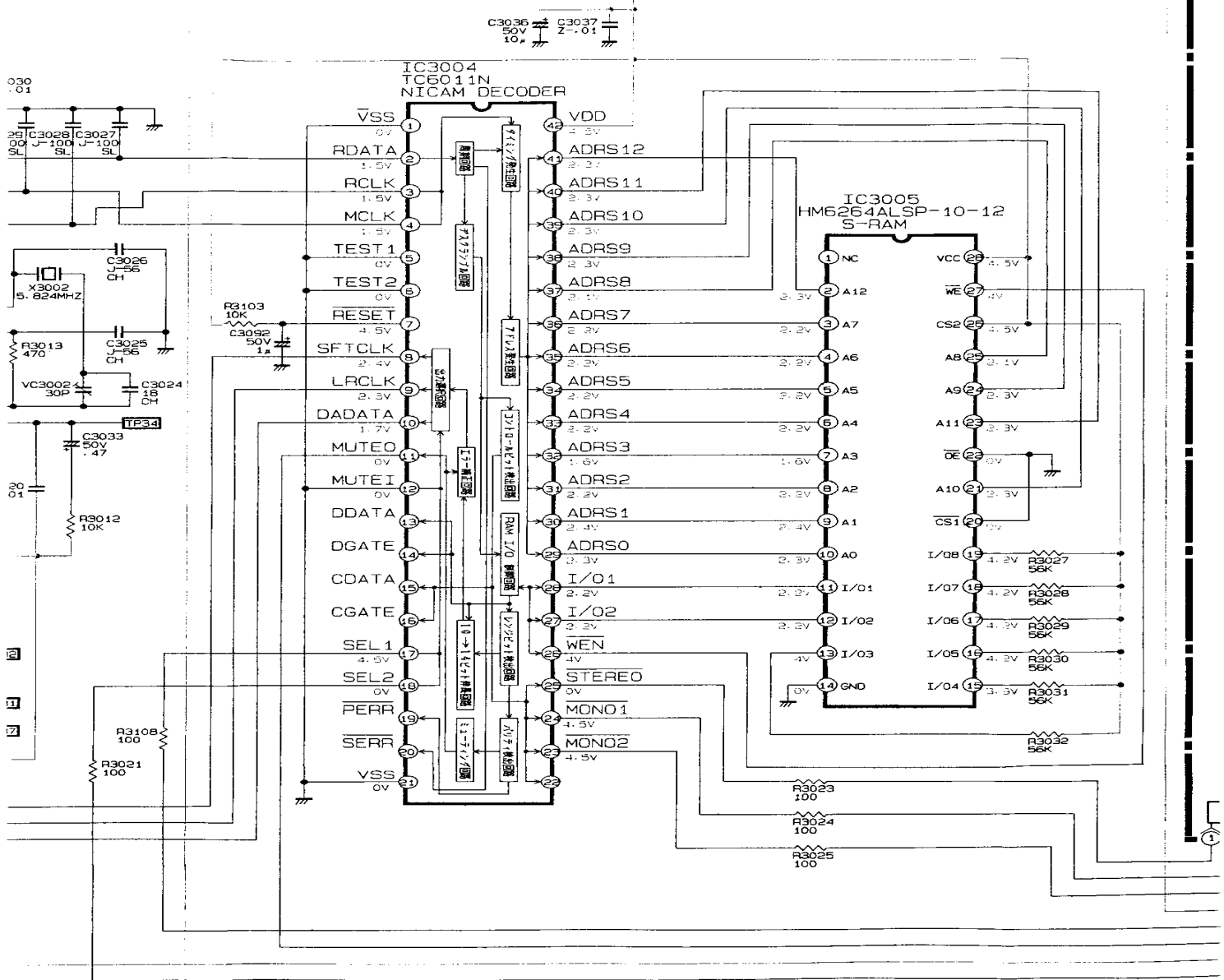


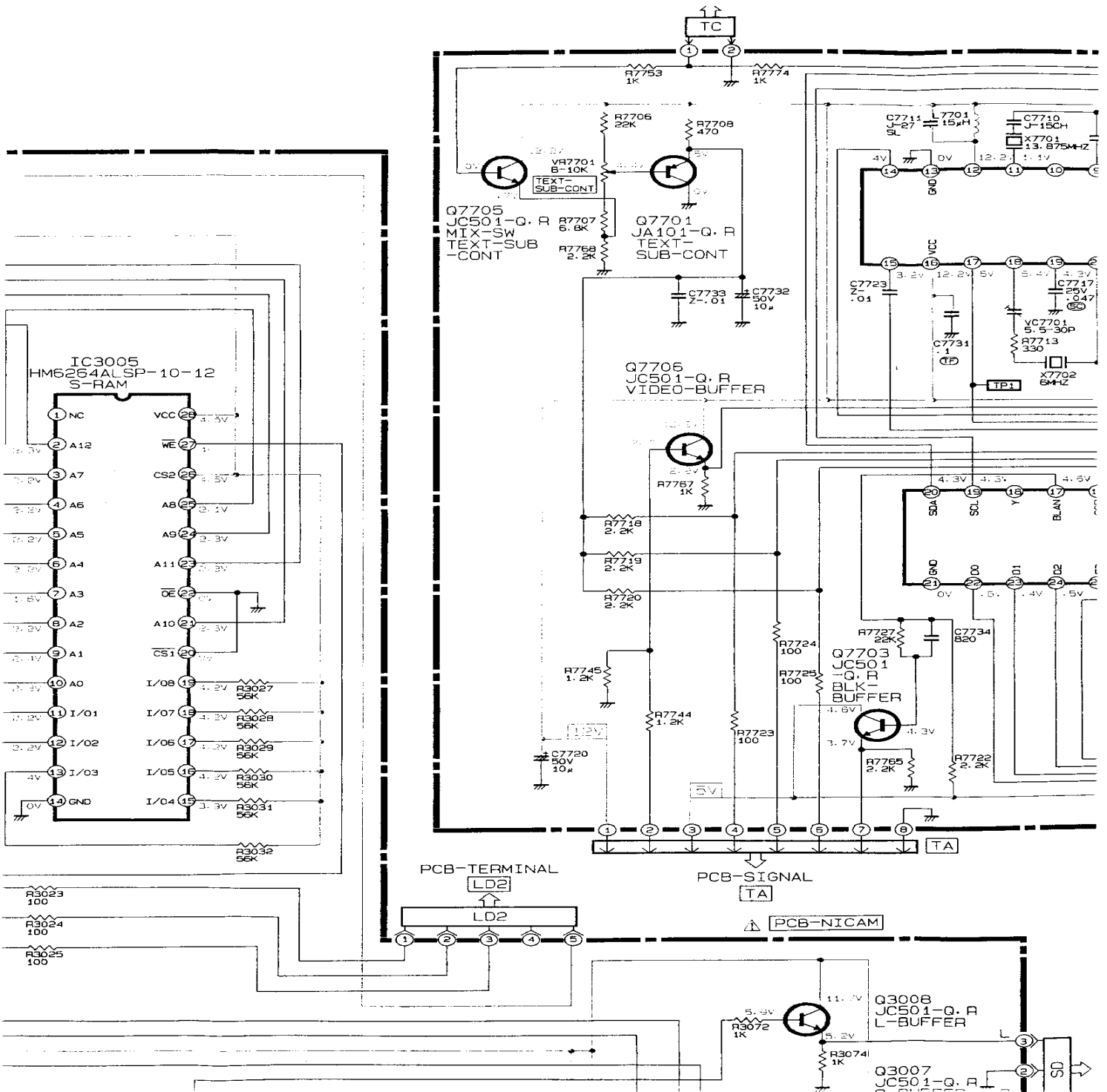
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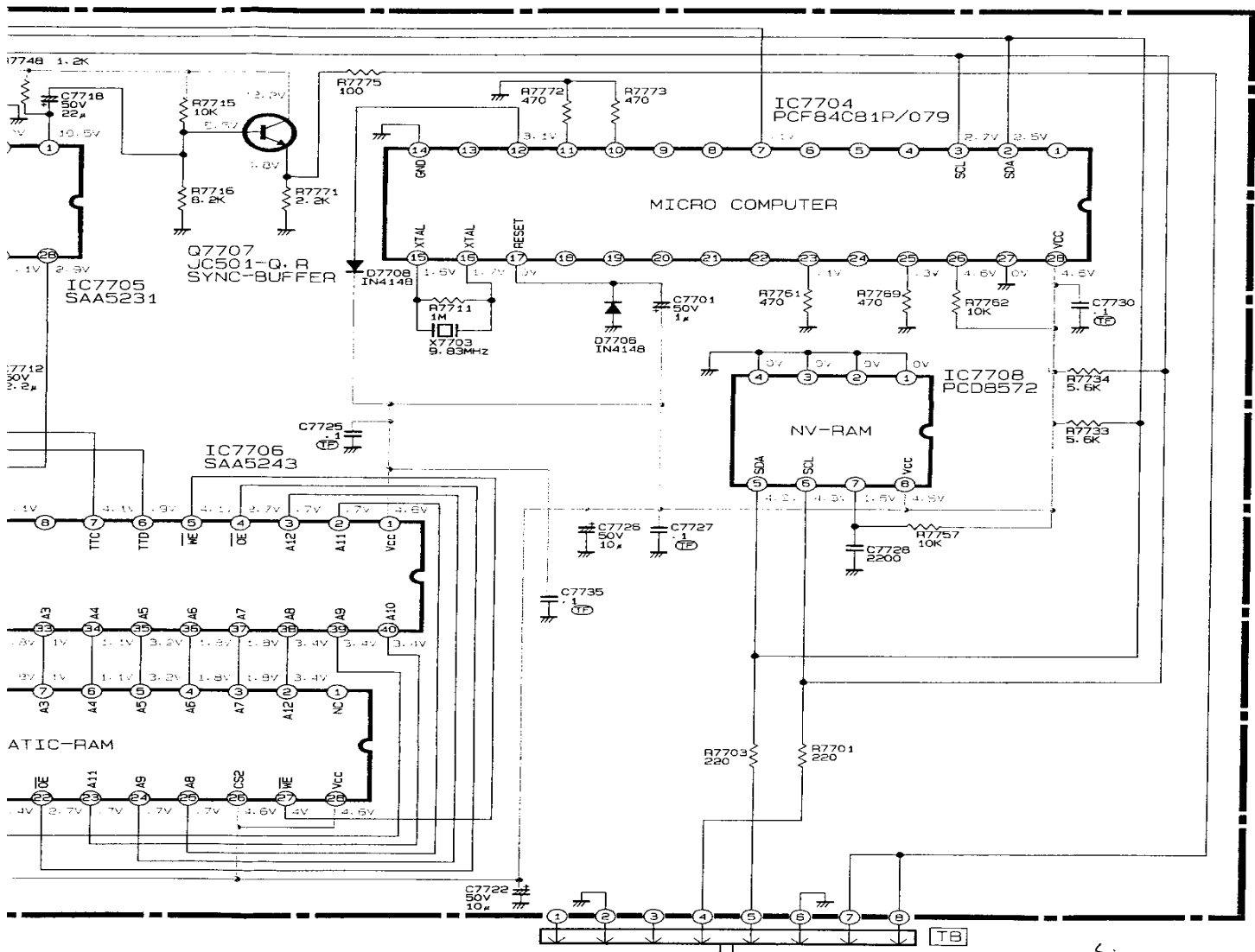


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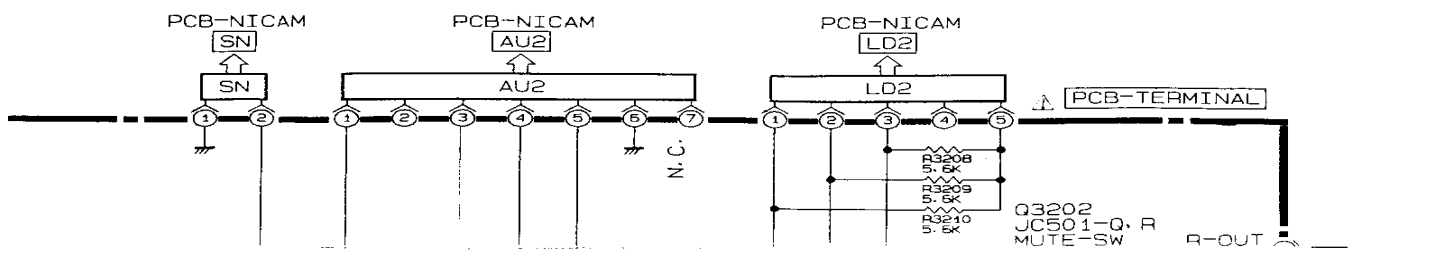


PCB-TEXT



PCB-SIGNAL

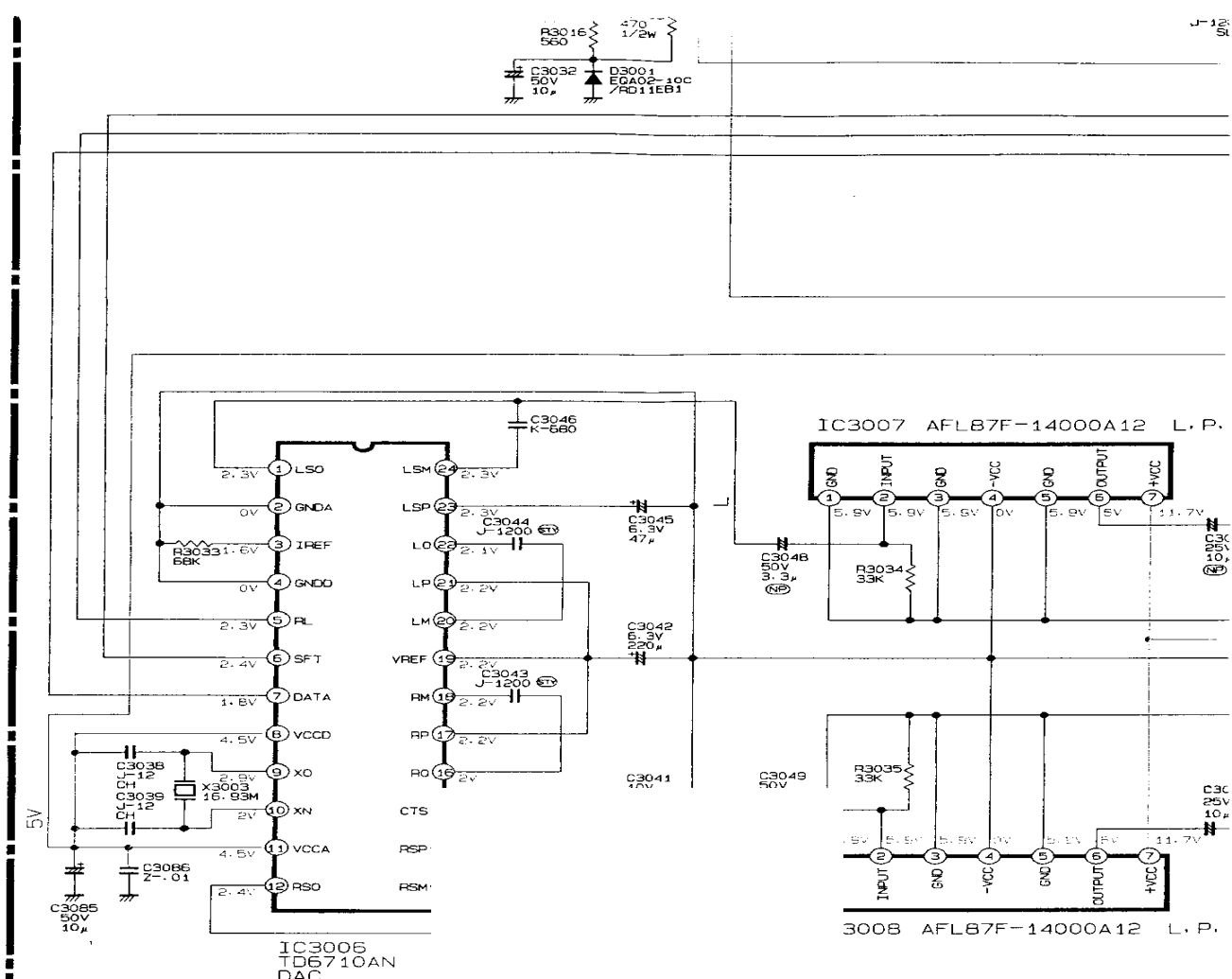
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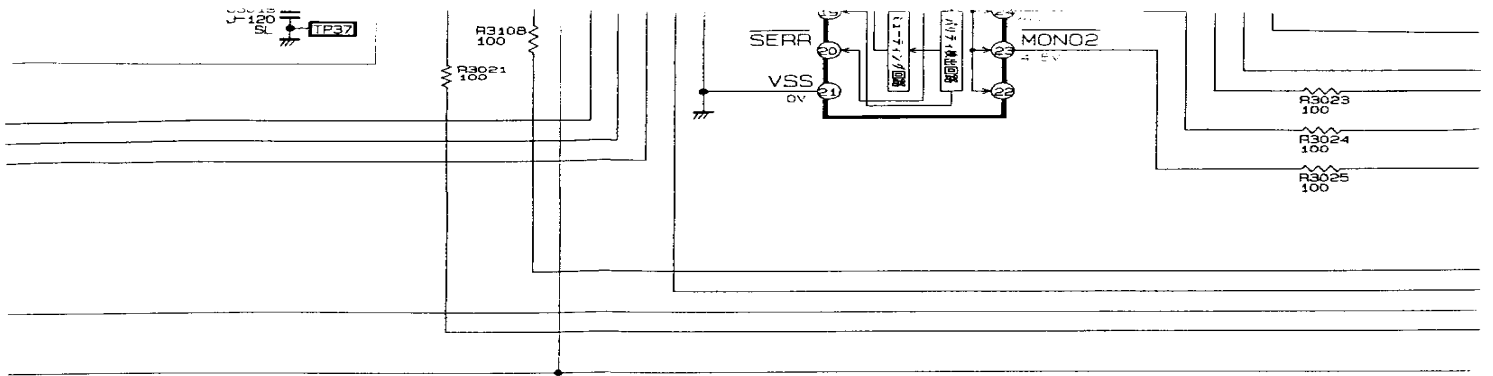
Q3202
JC501-Q, R
MUTE-SW

R-OUT

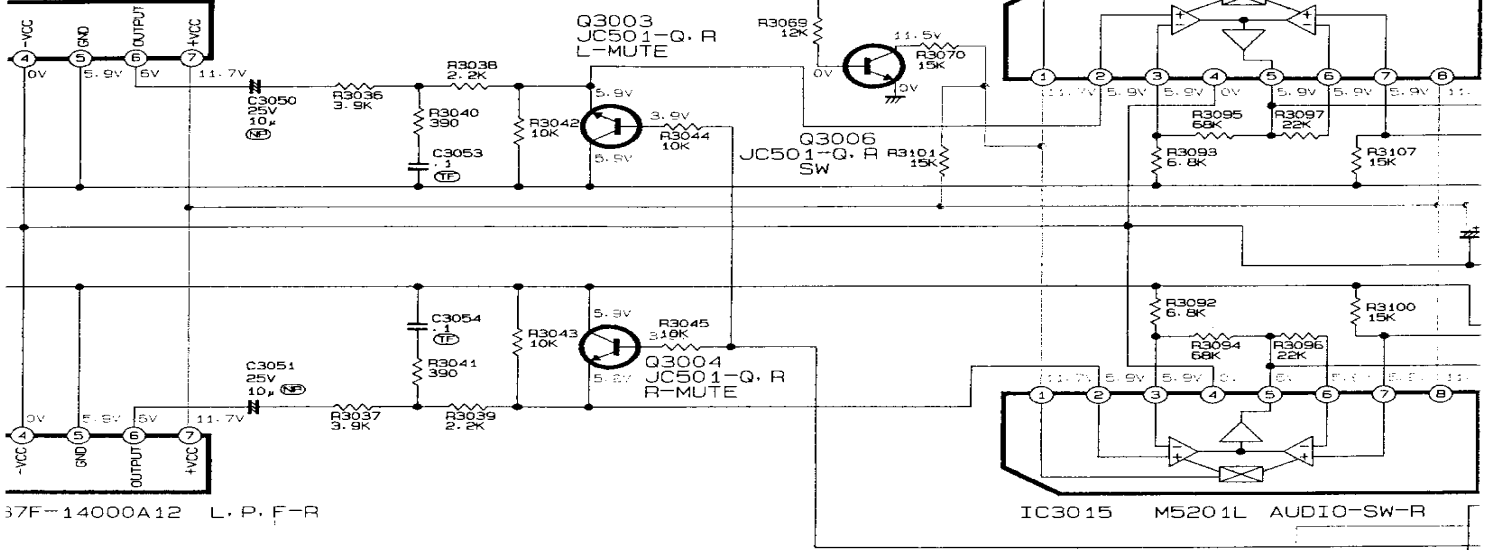
T
G
I
C



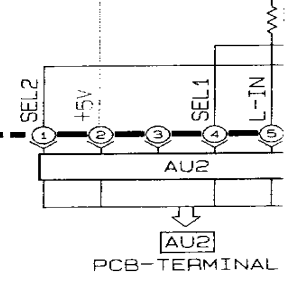
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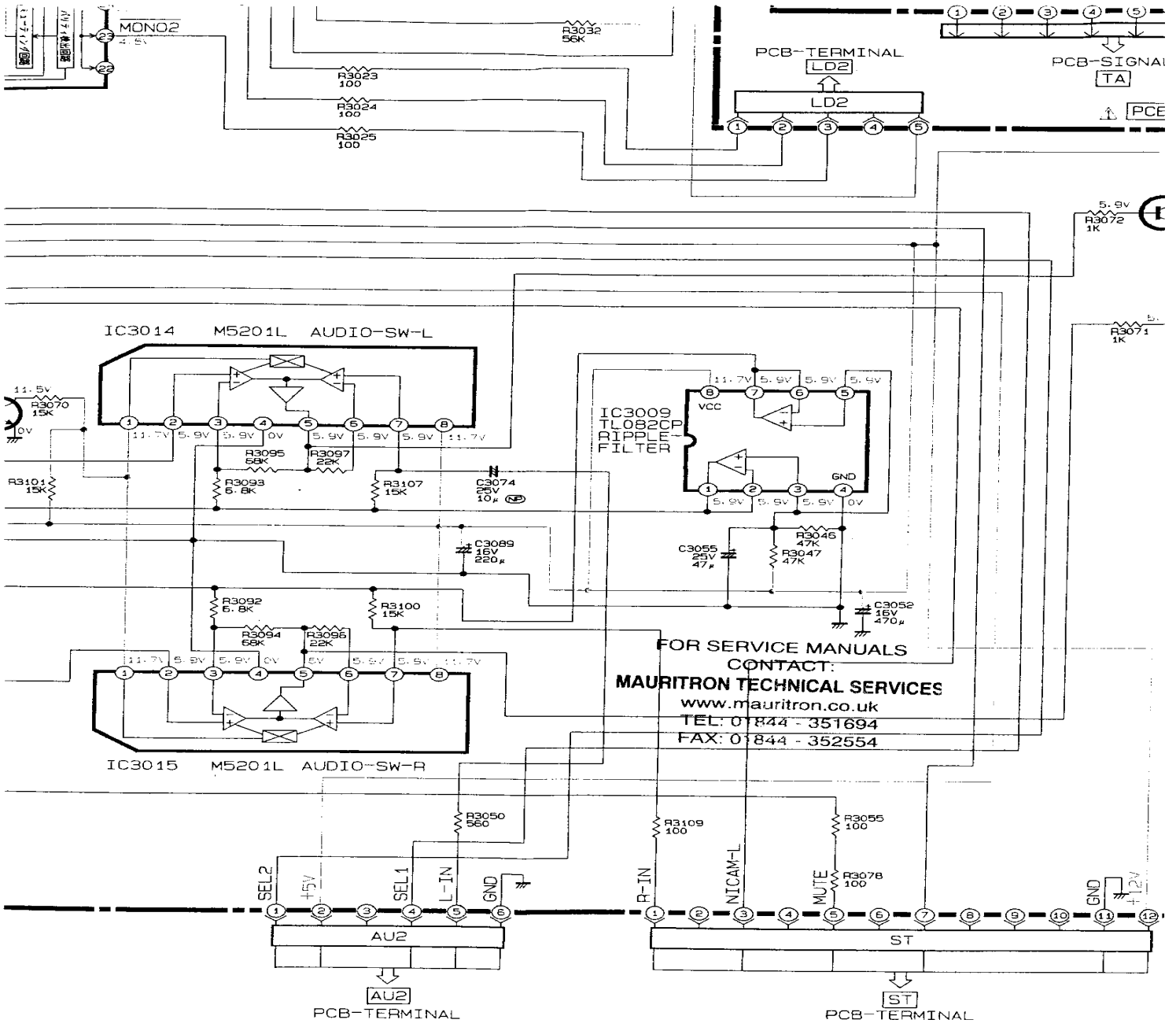


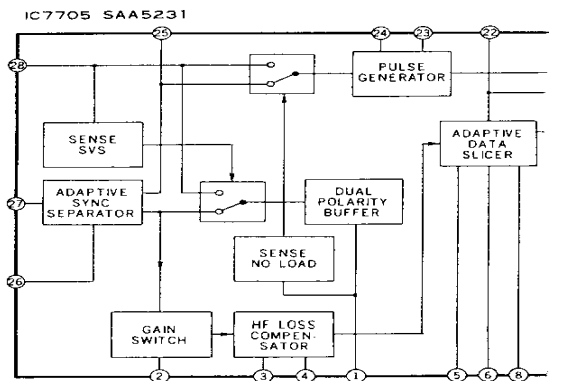
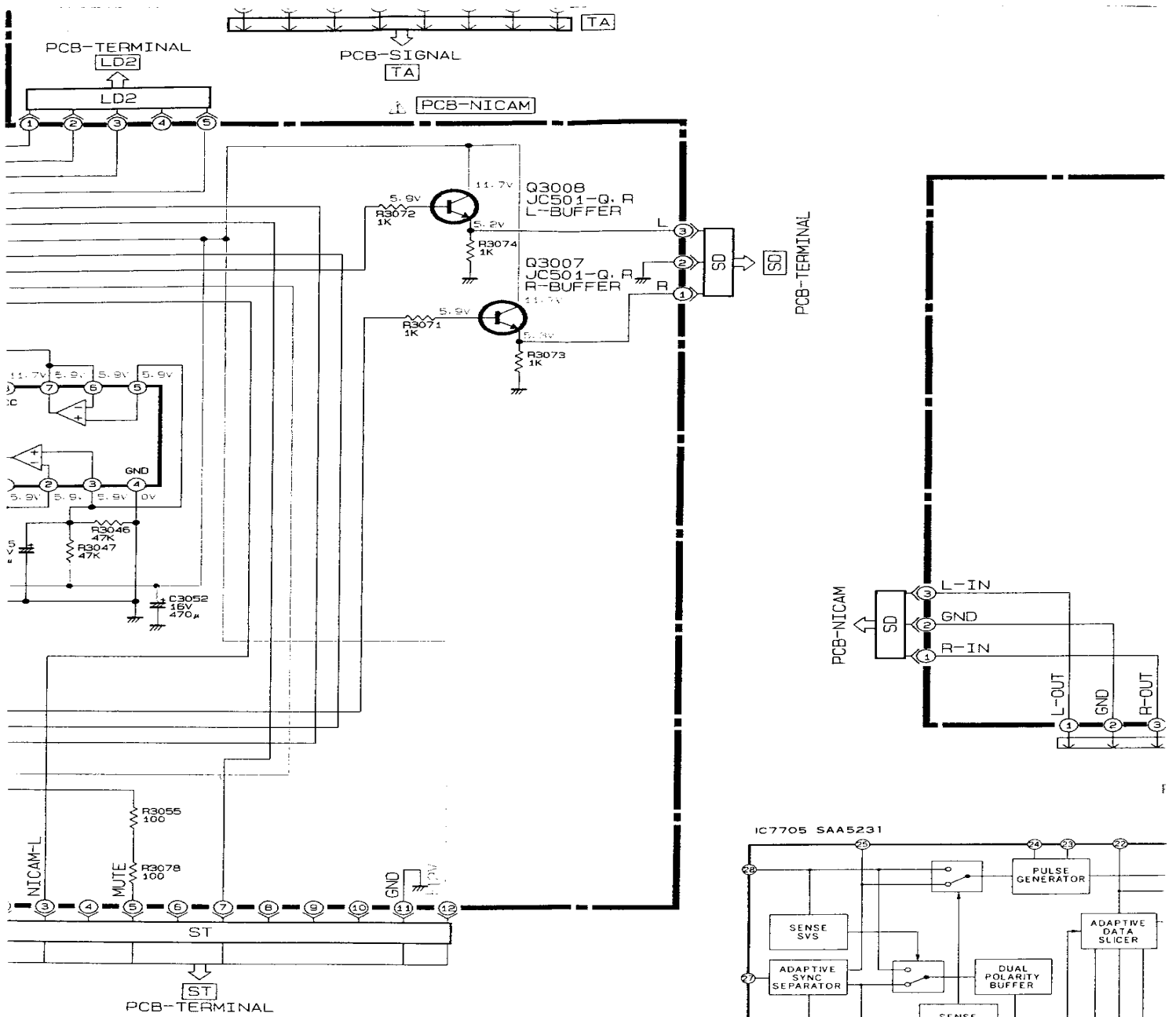
37F-14000A12 L. P. F-L

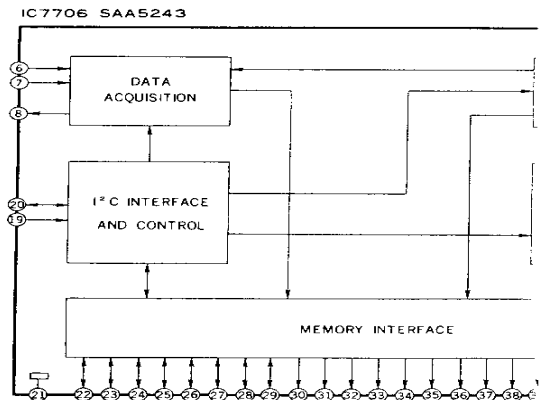
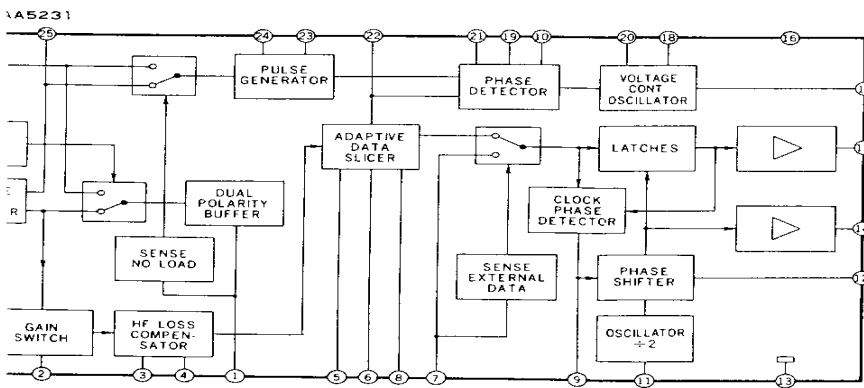
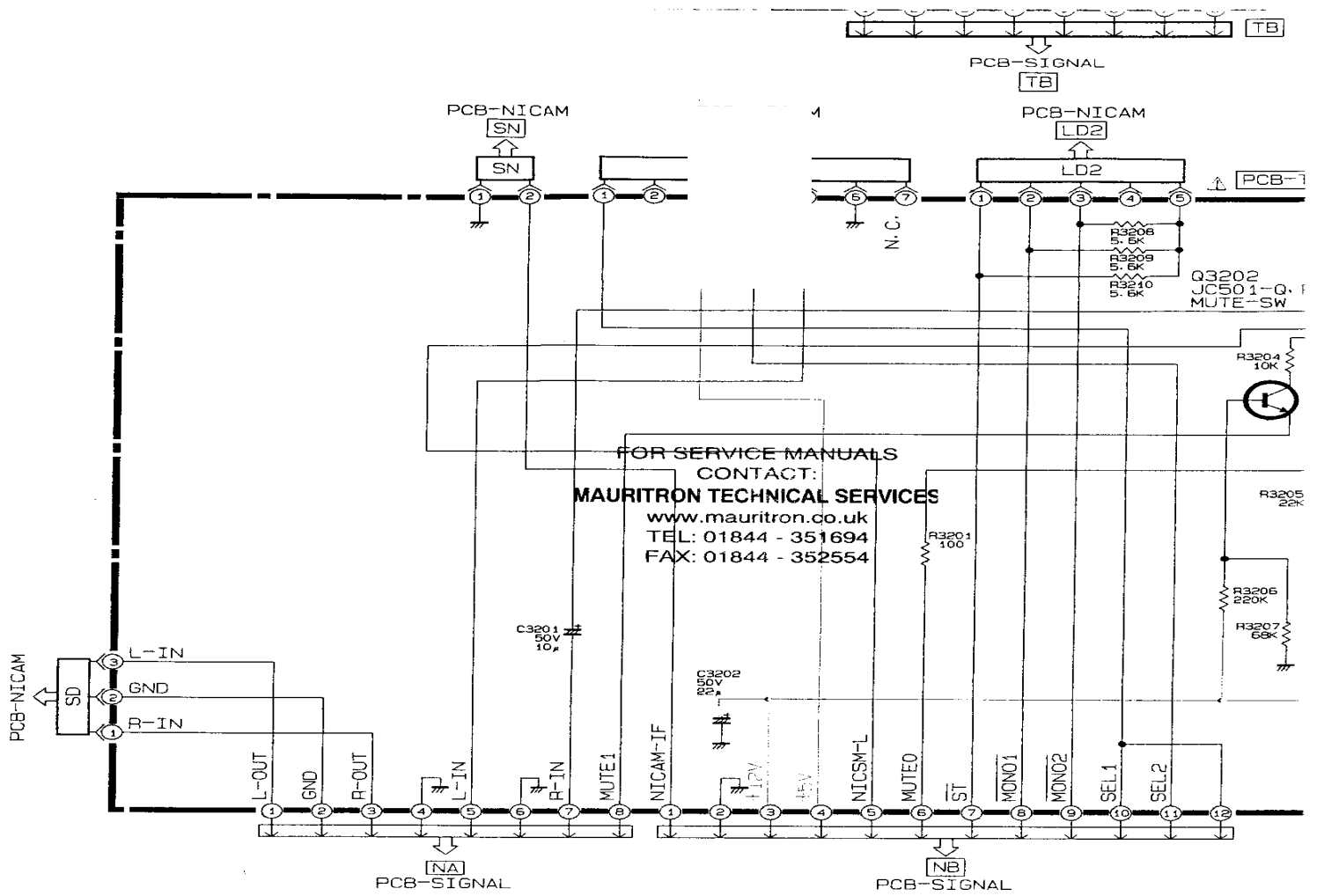


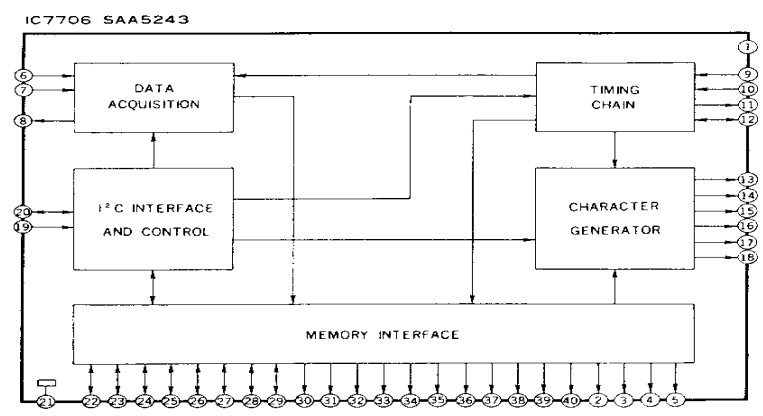
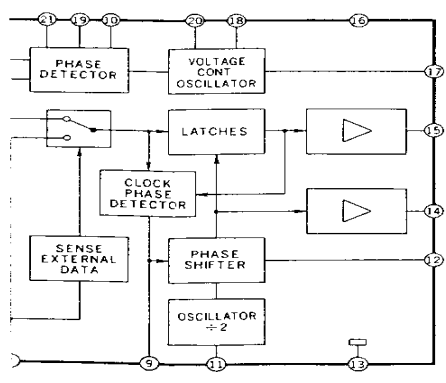
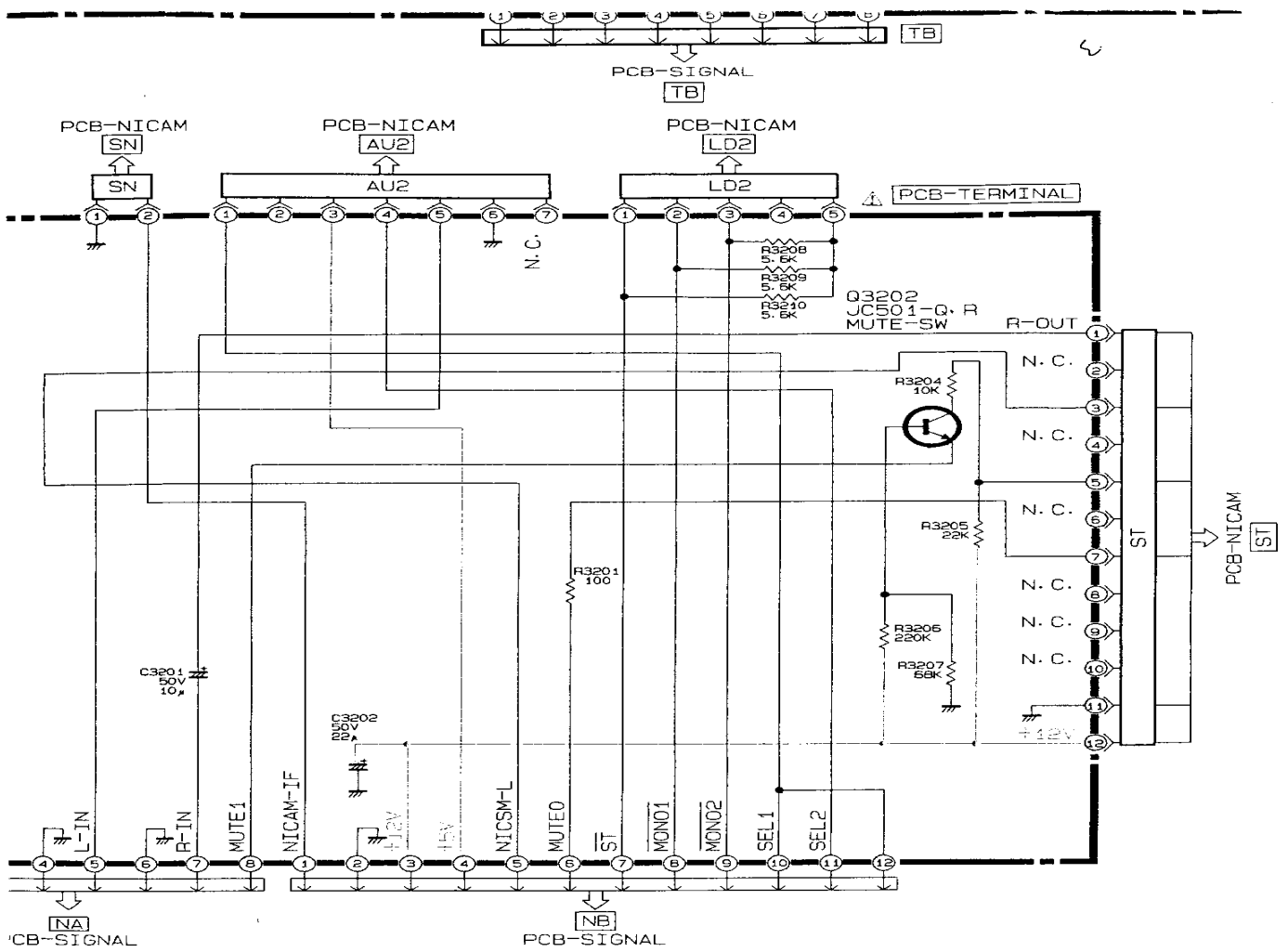
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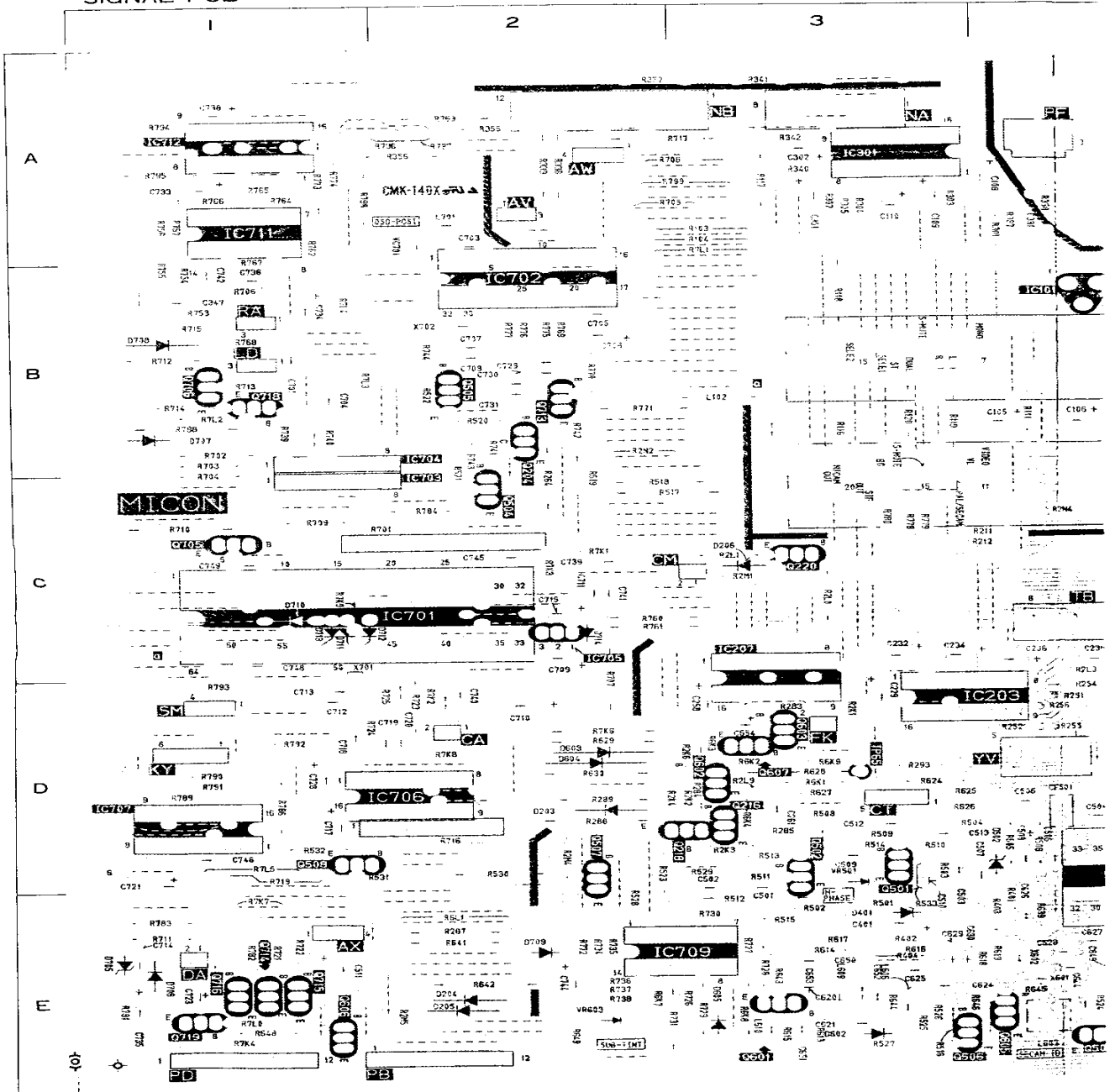




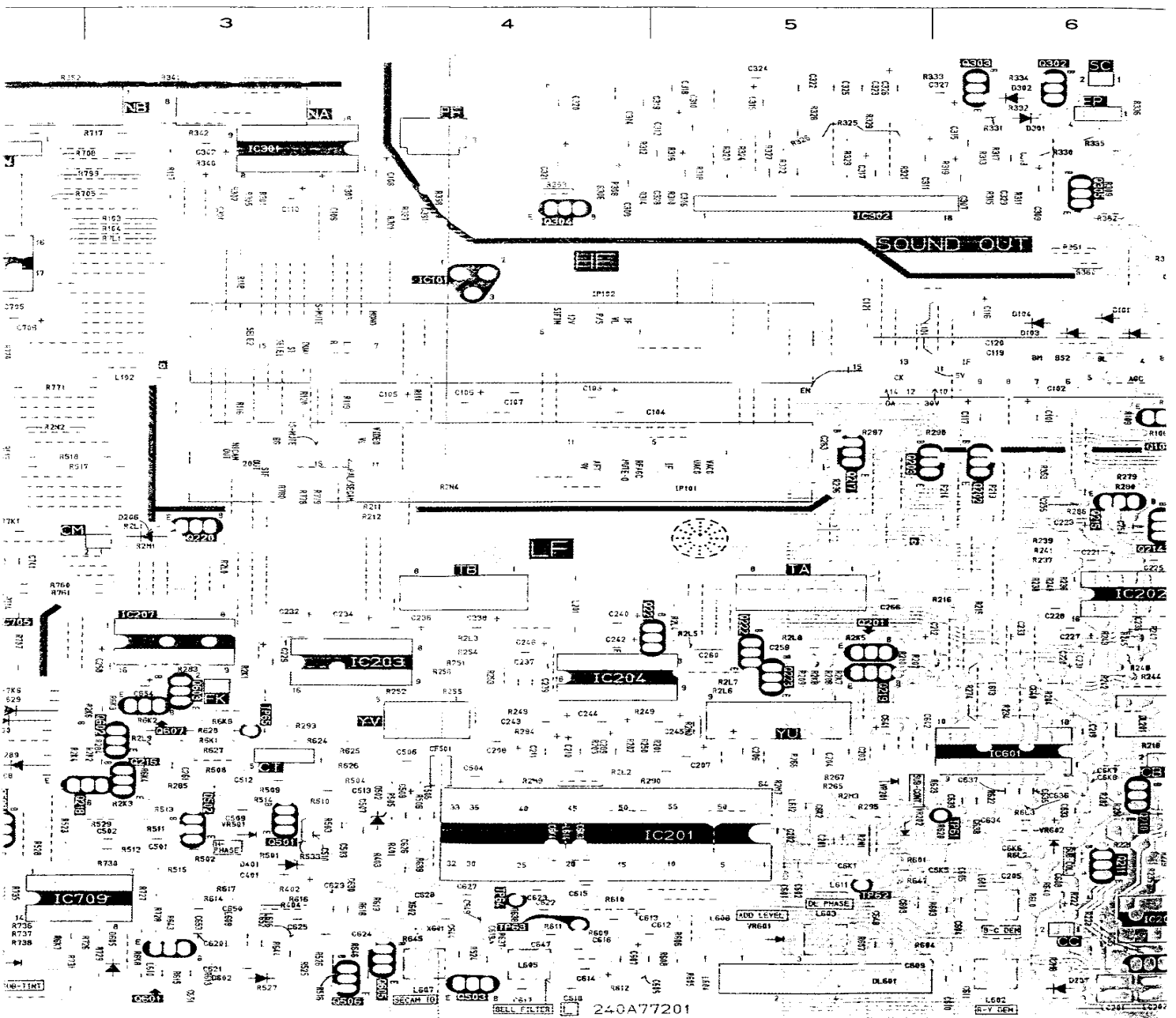




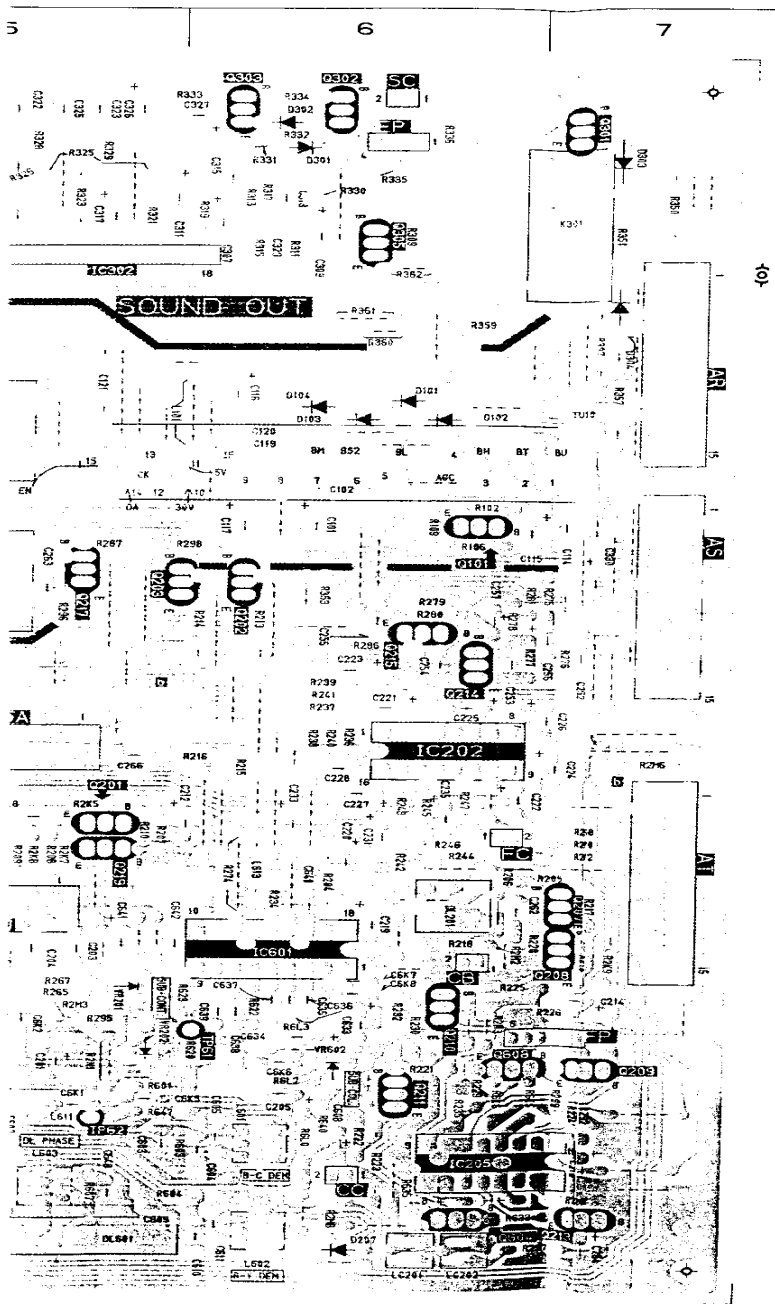
SIGNAL-PCB



10



240A77201



SIGNAL - PCB

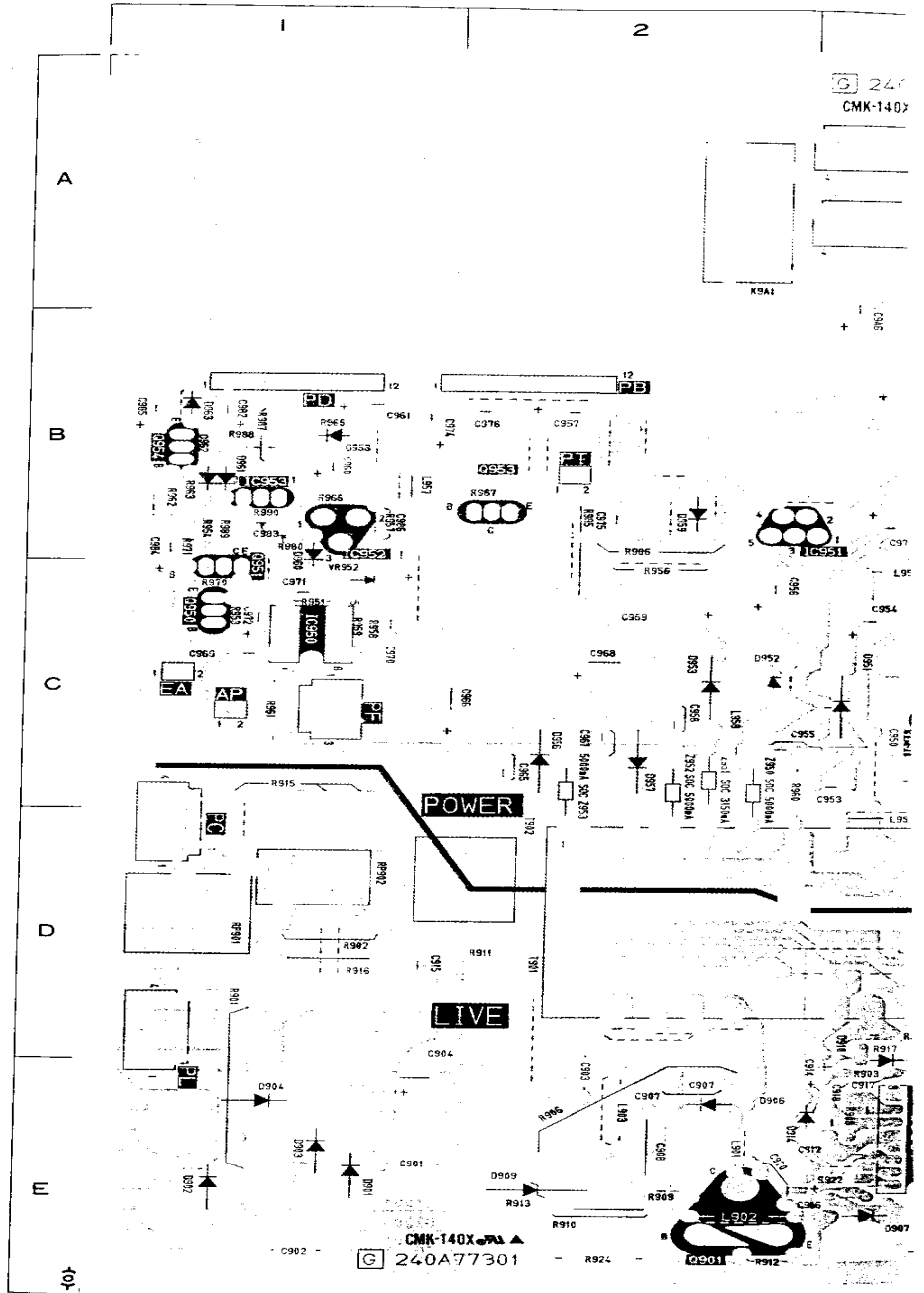
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| D102 | B-6 |
| D103 | B-6 |
| D104 | B-6 |
| D203 | D-2 |
| D204 | E-2 |
| D205 | E-2 |
| D206 | C-3 |
| D207 | E-6 |
| D301 | A-6 |
| D302 | A-6 |
| D303 | A-7 |
| D304 | B-7 |
| D401 | E-3 |
| D502 | D-4 |
| D602 | E-3 |
| D603 | D-2 |
| D604 | D-2 |
| D605 | E-3 |
| D705 | E-1 |
| D706 | E-1 |
| D707 | B-1 |
| D708 | B-1 |
| D709 | E-2 |
| D710 | C-1 |
| D711 | C-1 |
| D712 | C-2 |
| D713 | C-1 |
| IC101 | B-4 |
| IC201 | D-5 |
| IC203 | D-4 |
| IC202 | C-6 |
| IC204 | D-4 |
| IC205 | E-6 |
| IC207 | C-3 |
| IC301 | A-3 |
| IC302 | A-5 |
| IC601 | D-6 |
| IC701 | C-2 |
| IC702 | B-2 |
| IC703 | C-2 |
| IC704 | B-2 |
| IC705 | C-2 |
| IC706 | D-2 |
| IC707 | D-1 |
| IC709 | E-3 |
| IC712 | A-1 |
| IC711 | A-1 |
| L601 | E-6 |
| L602 | E-6 |
| L603 | E-5 |
| L605 | E-4 |
| L607 | E-4 |
| LC201 | E-6 |

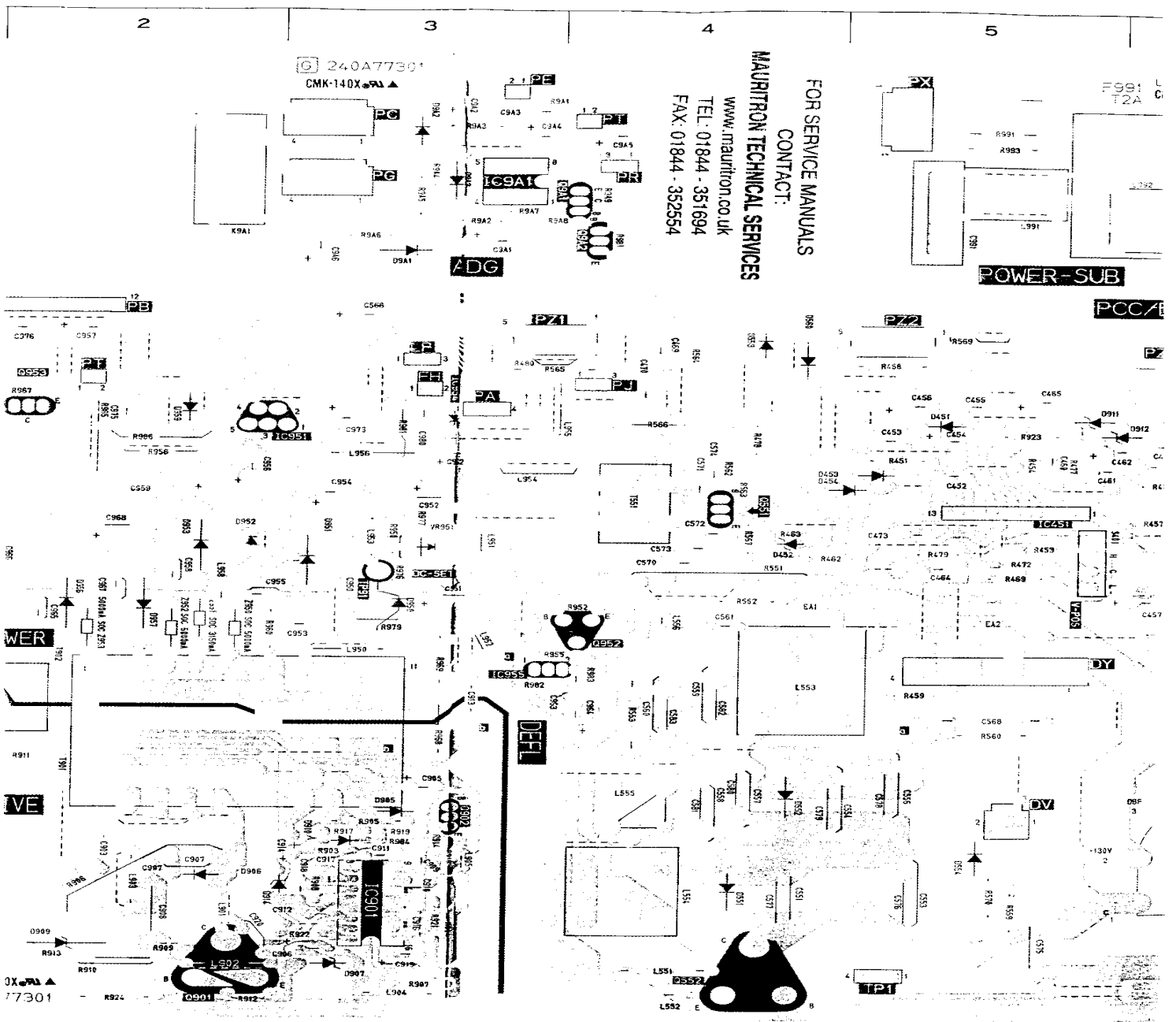
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| Q101 | B-6 |
| Q201 | C-5 |
| Q202 | C-6 |
| Q203 | C-5 |
| Q204 | C-2 |
| Q207 | D-7 |
| Q208 | D-7 |
| Q209 | E-7 |
| Q210 | D-6 |
| Q211 | E-6 |
| Q213 | E-7 |
| Q214 | C-6 |
| Q215 | C-6 |
| Q216 | D-3 |
| Q217 | C-5 |
| Q218 | D-3 |
| Q219 | D-5 |
| Q220 | C-3 |
| Q221 | C-5 |
| Q222 | C-5 |
| Q223 | D-5 |
| Q301 | A-7 |
| Q302 | A-6 |
| Q303 | A-6 |
| Q304 | A-4 |
| Q305 | A-6 |
| Q501 | E-3 |
| Q502 | D-3 |
| Q503 | E-4 |
| Q504 | C-2 |
| Q505 | B-2 |
| Q506 | E-3 |
| Q507 | D-2 |
| Q508 | D-1 |
| Q601 | E-3 |
| Q602 | D-3 |
| Q603 | D-3 |
| Q604 | E-6 |
| Q605 | E-4 |
| Q606 | E-1 |
| Q607 | D-3 |
| Q608 | D-6 |
| Q705 | C-1 |
| Q706 | B-1 |
| Q713 | B-2 |
| Q714 | E-1 |
| Q715 | E-1 |
| Q716 | E-1 |
| Q718 | B-1 |
| Q719 | E-1 |
| TP61 | D-6 |
| TP62 | E-5 |
| TP63 | E-4 |
| TP64 | E-4 |
| TP65 | D-3 |

| SYMBOL NO. | ADD |
|------------|-----|
| VC701 | A |
| VR201 | D |
| VR202 | D |
| VR501 | D |
| VR601 | E |
| VR602 | D |
| VR603 | E |

MBC-DEFL-PCB

| SYMBOL NO. | ADDRESS | SYMBOL NO. | ADDRESS |
|------------|---------|------------|---------|
| LC202 | E-6 | VC701 | A-2 |
| Q101 | B-6 | VR201 | D-5 |
| Q201 | C-5 | VR202 | D-5 |
| Q202 | C-6 | VR501 | D-3 |
| Q203 | C-5 | VR601 | E-5 |
| Q204 | C-2 | VR602 | D-6 |
| Q207 | D-7 | VR603 | E-2 |
| Q208 | D-7 | | |
| Q209 | E-7 | | |
| Q210 | D-6 | | |
| Q211 | E-6 | | |
| Q213 | E-7 | | |
| Q214 | C-6 | | |
| Q215 | C-6 | | |
| Q216 | D-3 | | |
| Q217 | C-5 | | |
| Q218 | D-3 | | |
| Q219 | D-5 | | |
| Q220 | C-3 | | |
| Q221 | C-5 | | |
| Q222 | C-5 | | |
| Q223 | D-5 | | |
| Q301 | A-7 | | |
| Q302 | A-6 | | |
| Q303 | A-6 | | |
| Q304 | A-4 | | |
| Q305 | A-6 | | |
| Q501 | E-3 | | |
| Q502 | D-3 | | |
| Q503 | E-4 | | |
| Q504 | C-2 | | |
| Q505 | B-2 | | |
| Q506 | E-3 | | |
| Q507 | D-2 | | |
| Q508 | D-1 | | |
| Q601 | E-3 | | |
| Q602 | D-3 | | |
| Q603 | D-3 | | |
| Q604 | E-6 | | |
| Q605 | E-4 | | |
| Q606 | E-1 | | |
| Q607 | D-3 | | |
| Q608 | D-6 | | |
| Q705 | C-1 | | |
| Q706 | B-1 | | |
| Q713 | B-2 | | |
| Q714 | E-1 | | |
| Q715 | E-1 | | |
| Q716 | E-1 | | |
| Q718 | B-1 | | |
| Q719 | E-1 | | |
| TP61 | D-6 | | |
| TP62 | E-5 | | |
| TP63 | E-4 | | |
| TP64 | E-4 | | |
| TP65 | D-3 | | |





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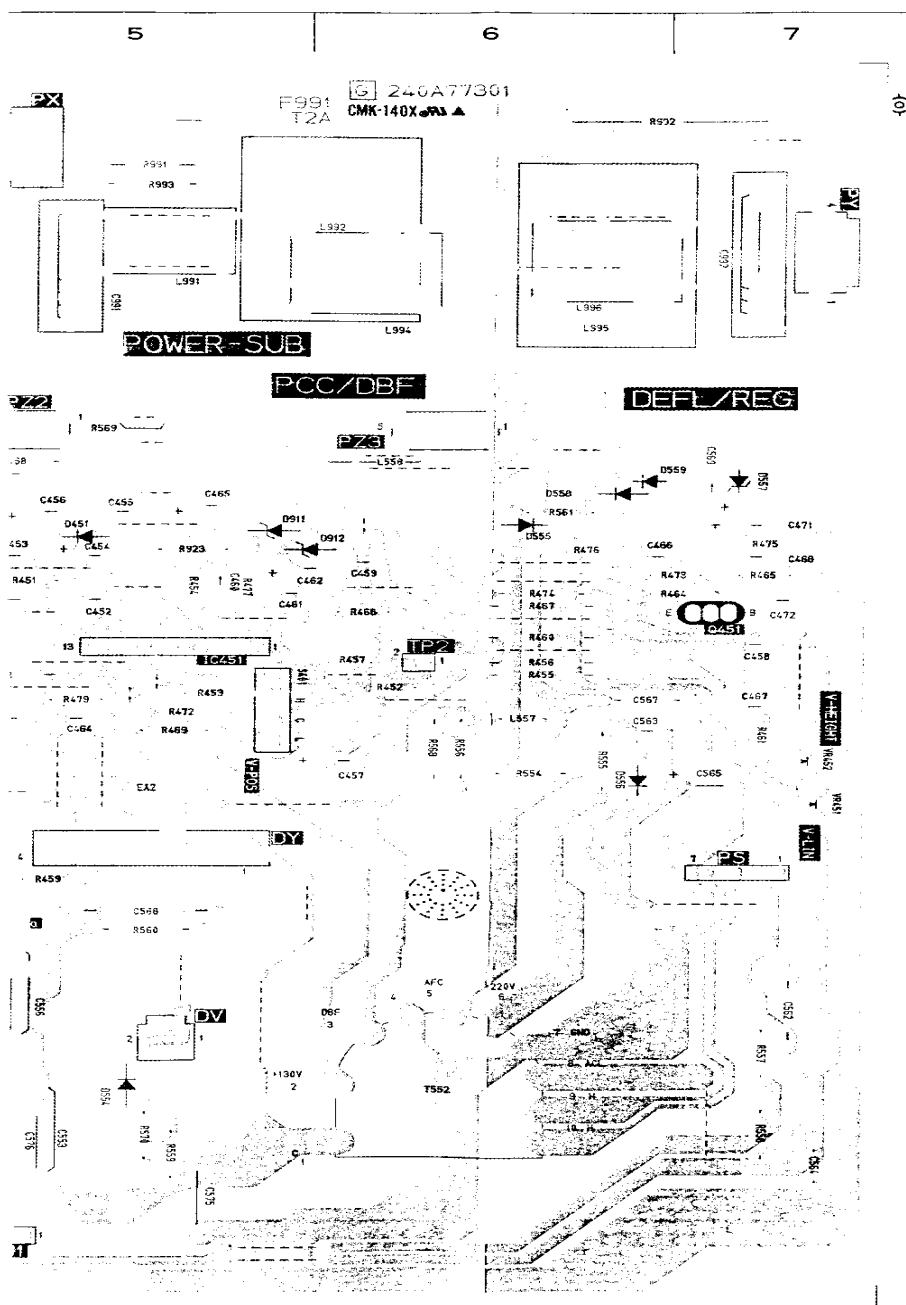
POWER-SUB

PCC

DEFI

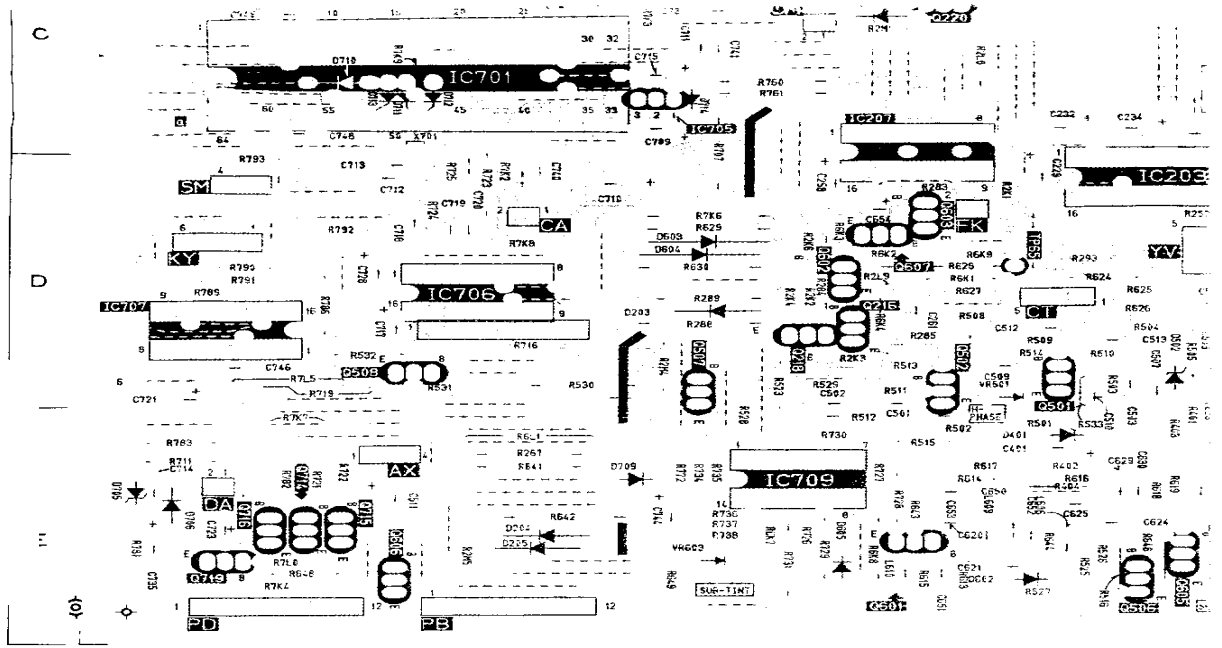
TP1

77301

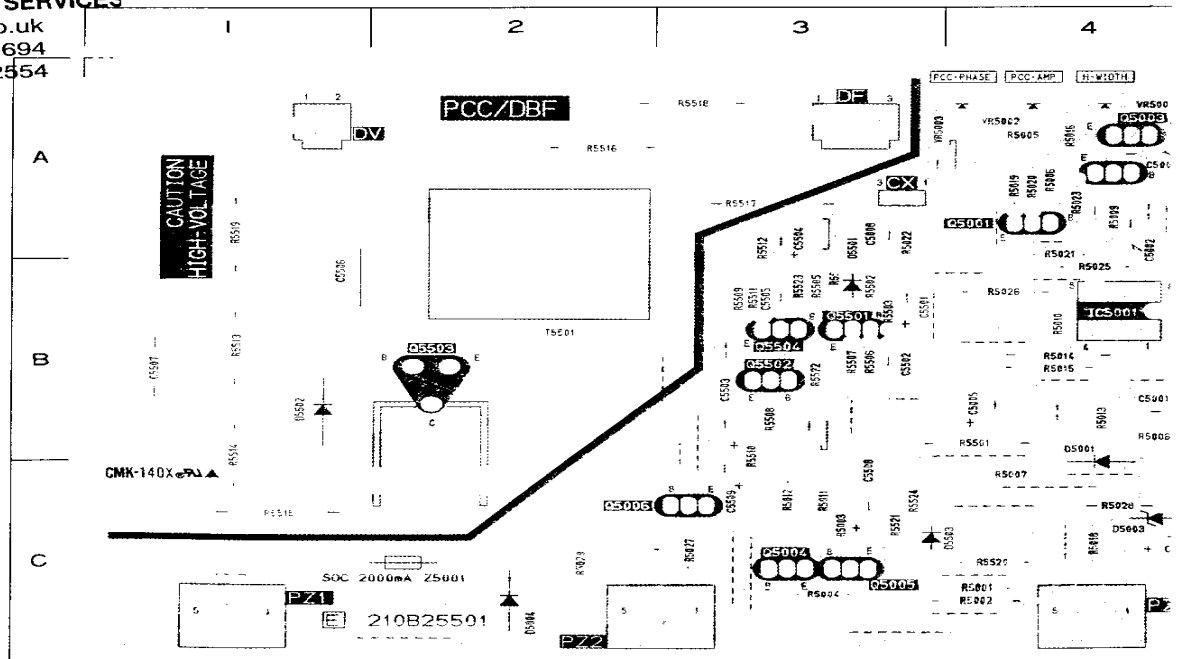


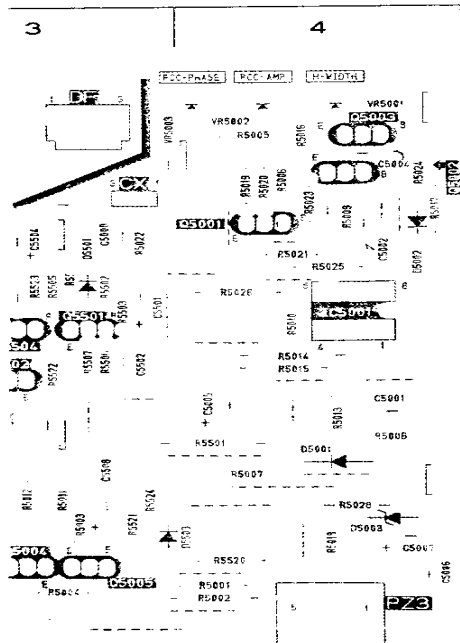
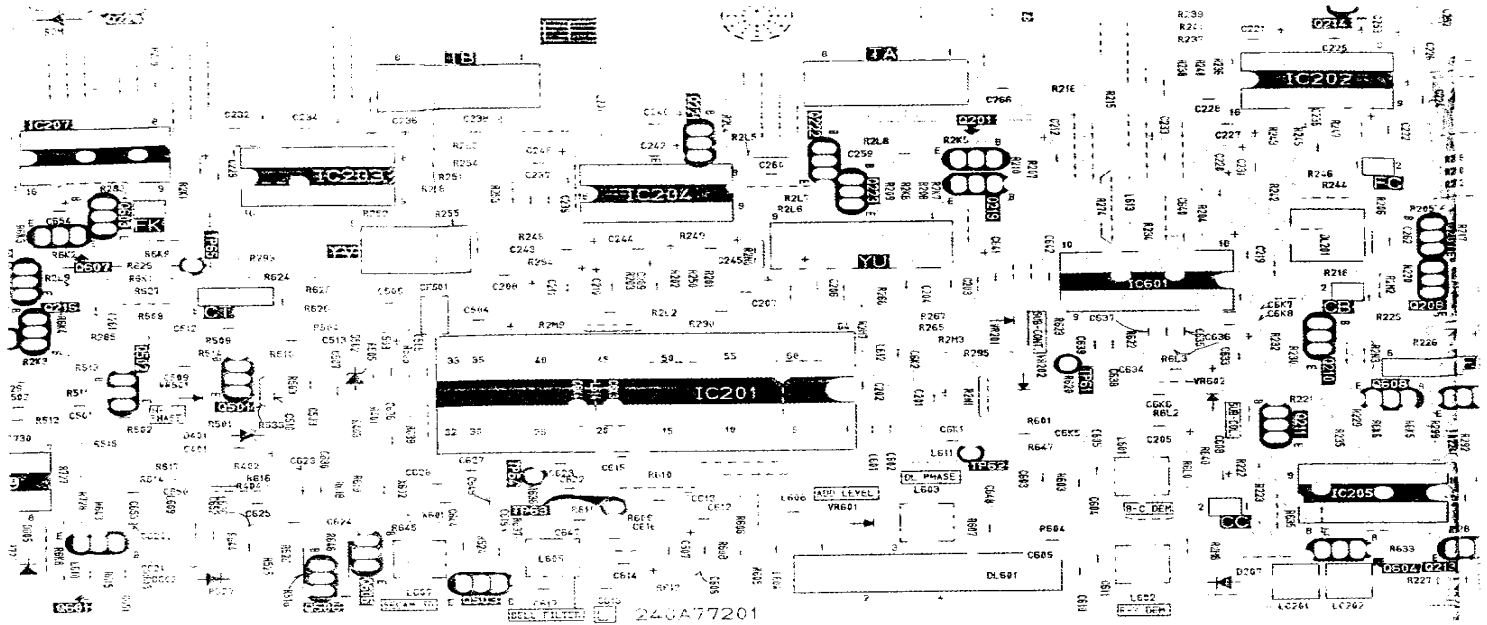
MBC - DEFL - PCB

| SYMBOL NO. | ADDRESS | SYMBOL NO. | ADDRESS |
|------------|---------|------------|---------|
| D451 | B-5 | Q901 | E-2 |
| D452 | C-4 | Q902 | D-3 |
| D453 | C-4 | Q950 | C-1 |
| D454 | C-4 | Q951 | C-1 |
| D551 | E-4 | Q952 | C-4 |
| D552 | D-4 | Q953 | B-2 |
| D553 | B-4 | Q954 | B-1 |
| D554 | E-5 | Q9A1 | A-3 |
| D555 | B-6 | Q9A2 | A-4 |
| D556 | C-6 | | |
| D557 | B-7 | | |
| D558 | B-6 | TP91 | C-3 |
| D559 | B-6 | | |
| D560 | B-4 | | |
| D901 | E-1 | VR451 | C-7 |
| D902 | E-1 | VR452 | C-7 |
| D903 | E-1 | VR951 | C-3 |
| D904 | E-1 | VR952 | C-1 |
| D905 | D-3 | | |
| D906 | E-2 | | |
| D907 | E-3 | | |
| D909 | E-2 | | |
| D910 | D-3 | | |
| D911 | B-5 | | |
| D912 | B-6 | | |
| D914 | E-2 | | |
| D950 | C-3 | | |
| D951 | C-3 | | |
| D952 | C-2 | | |
| D953 | C-2 | | |
| D956 | C-2 | | |
| D957 | C-2 | | |
| D958 | B-1 | | |
| D959 | B-2 | | |
| D960 | B-1 | | |
| D961 | B-1 | | |
| D962 | B-1 | | |
| D963 | B-1 | | |
| D9A1 | B-3 | | |
| D9A2 | A-3 | | |
| D9A3 | A-3 | | |
| | | | |
| F991 | A-5 | | |
| | | | |
| IC451 | C-5 | | |
| IC901 | E-3 | | |
| IC950 | C-1 | | |
| IC951 | B-2 | | |
| IC953 | B-1 | | |
| IC954 | B-3 | | |
| IC952 | B-1 | | |
| IC955 | D-3 | | |
| IC9A1 | A-3 | | |
| | | | |
| Q451 | C-7 | | |
| Q551 | C-4 | | |
| Q552 | E-4 | | |



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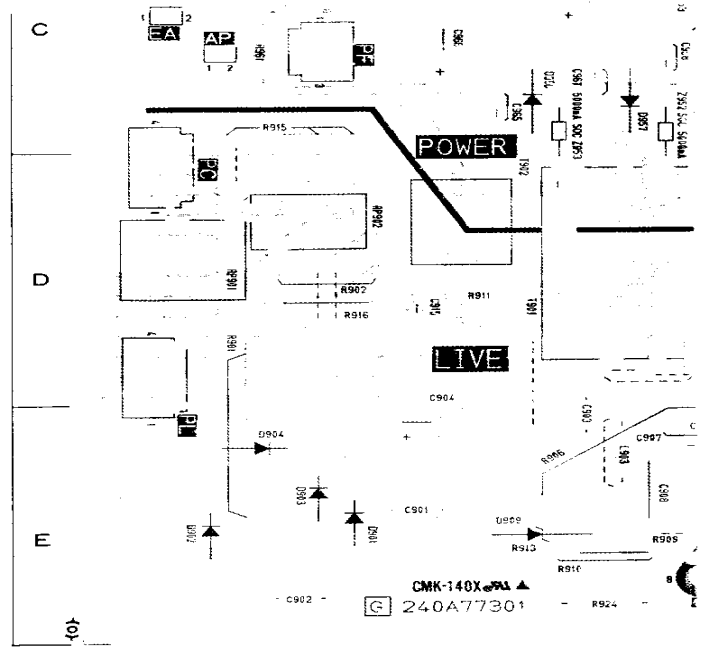




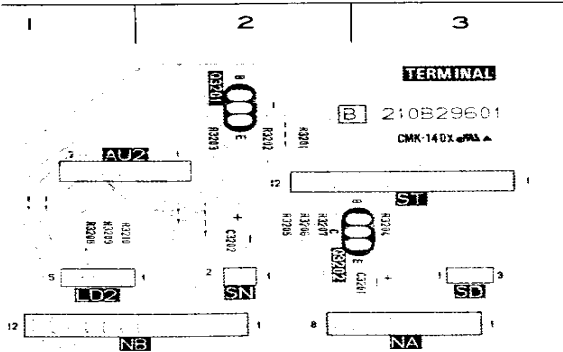
PCC/DBF - PCB

| SYMBOL NO. | ADDRESS |
|------------|---------|
| D5001 | B- 4 |
| D5002 | A- 4 |
| D5003 | C- 4 |
| D5004 | C- 2 |
| D5501 | A- 3 |
| D5502 | B- 1 |
| D5503 | C- 3 |
| IC5001 | B-4 |
| Q5001 | A- 4 |
| Q5002 | A- 4 |
| Q5003 | A- 4 |
| Q5004 | C- 3 |
| Q5005 | C- 3 |
| Q5006 | C- 2 |
| Q5501 | B- 3 |
| Q5502 | B- 3 |
| Q5503 | B- 2 |
| Q5504 | B- 3 |
| VR5001 | A- 4 |
| VR5002 | A- 4 |
| VR5003 | A- 3 |

| | | | | | |
|-------|-----|------|-----|--|--|
| IC101 | B-4 | 0501 | E-3 | | |
| IC201 | D-5 | 0502 | D-3 | | |
| IC203 | D-4 | 0503 | E-4 | | |
| IC202 | C-6 | 0504 | C-2 | | |
| IC204 | D-4 | 0505 | B-2 | | |
| IC205 | E-6 | 0506 | E-3 | | |
| IC207 | C-3 | 0507 | D-2 | | |
| IC301 | A-3 | 0508 | D-1 | | |
| IC302 | A-5 | 0601 | E-3 | | |
| IC601 | D-6 | 0602 | D-3 | | |
| IC701 | C-2 | 0603 | D-3 | | |
| IC702 | B-2 | 0604 | E-6 | | |
| IC703 | C-2 | 0605 | E-4 | | |
| IC704 | B-2 | 0606 | E-1 | | |
| IC705 | C-2 | 0607 | D-3 | | |
| IC706 | D-2 | 0608 | D-6 | | |
| IC707 | D-1 | 0705 | C-1 | | |
| IC709 | E-3 | 0706 | B-1 | | |
| IC712 | A-1 | 0713 | B-2 | | |
| IC711 | A-1 | 0714 | E-1 | | |
| | | 0715 | E-1 | | |
| | | 0716 | E-1 | | |
| | | 0718 | B-1 | | |
| | | 0719 | E-1 | | |
| | | | | | |
| L601 | E-6 | TP61 | D-6 | | |
| L602 | E-6 | TP62 | E-5 | | |
| L603 | E-5 | TP63 | E-4 | | |
| L605 | E-4 | TP64 | E-4 | | |
| L607 | E-4 | TP65 | D-3 | | |
| | | | | | |
| LC201 | E-6 | | | | |

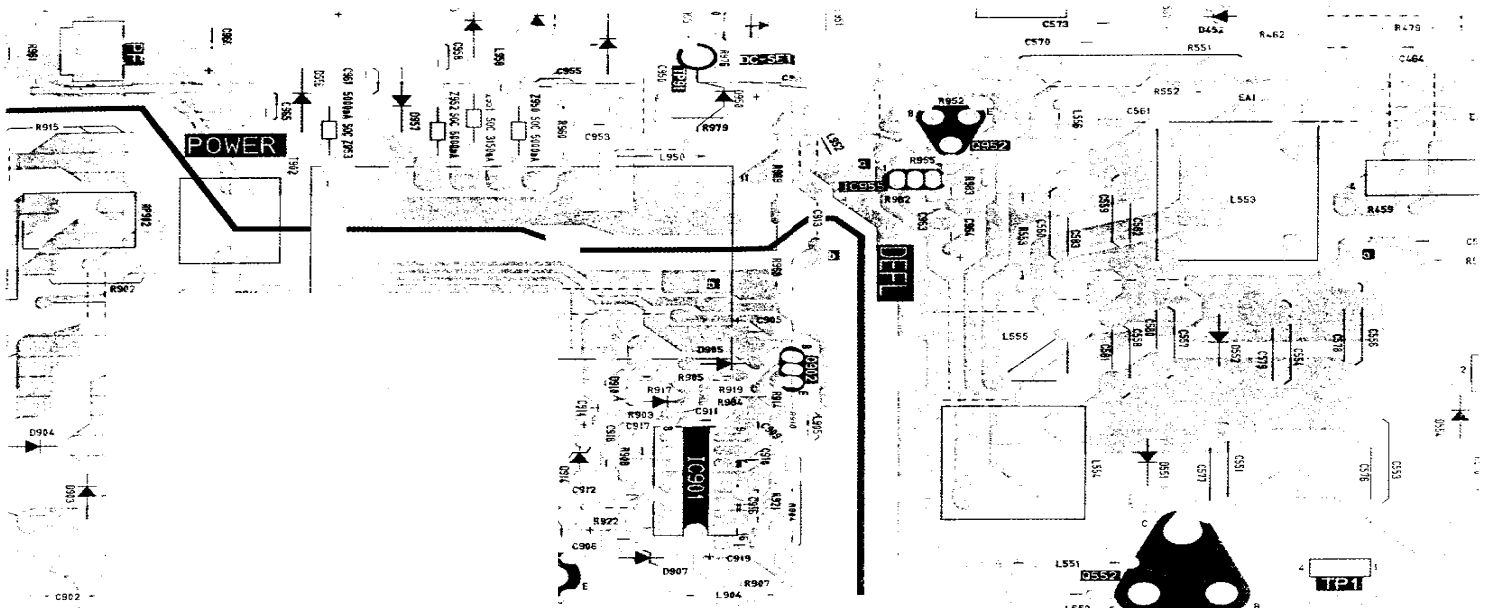


MAIN-PCB



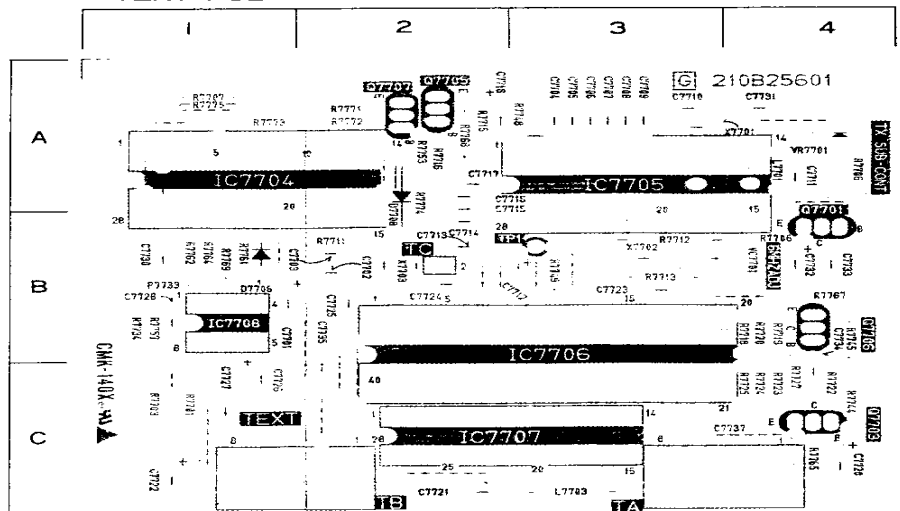
TERMINAL - PCB

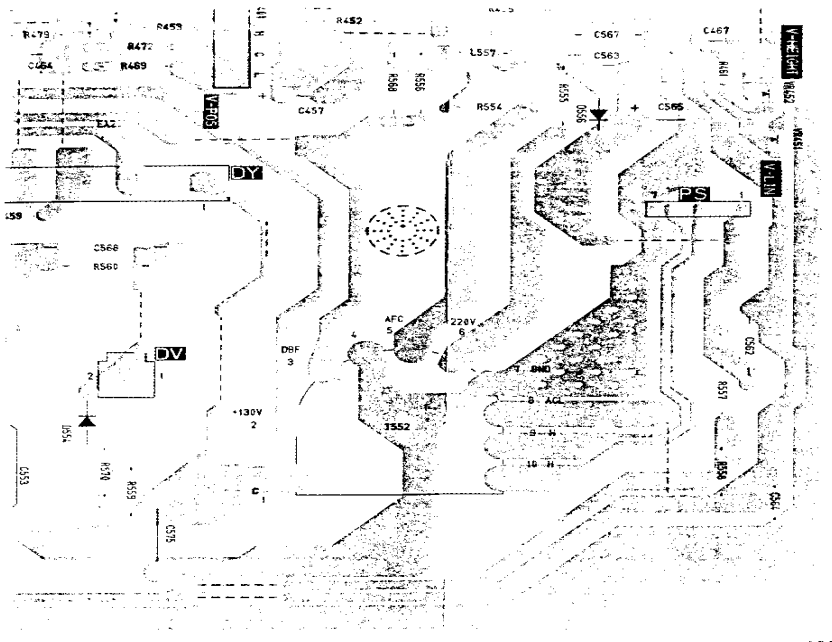
| SYMBOL NO. | ADDRESS |
|------------|---------|
| Q3201 | A- 5 |
| Q3201 | A- 2 |
| Q3201 | C- 5 |
| Q3201 | C- 2 |
| Q3202 | B- 5 |
| Q3202 | B- 2 |
| Q3202 | D- 5 |
| Q3202 | D- 2 |



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TEXT-PCB



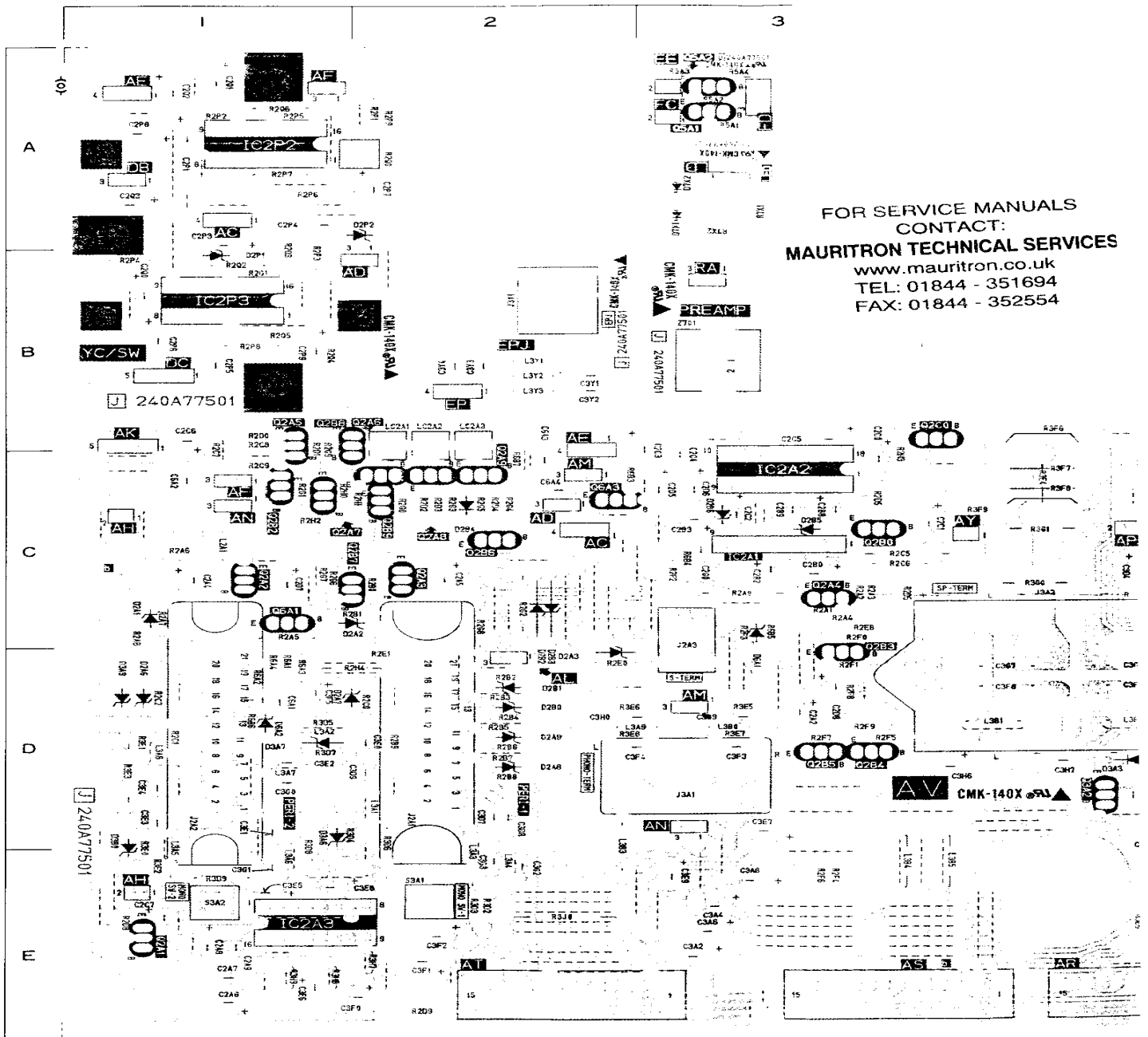


| | | | |
|-------|-----|--|--|
| D953 | C-2 | | |
| D956 | C-2 | | |
| D957 | C-2 | | |
| D958 | B-1 | | |
| D959 | B-2 | | |
| D960 | B-1 | | |
| D961 | B-1 | | |
| D962 | B-1 | | |
| D963 | B-1 | | |
| D9A1 | B-3 | | |
| D9A2 | A-3 | | |
| D9A3 | A-3 | | |
| | | | |
| F991 | A-5 | | |
| | | | |
| IC451 | C-5 | | |
| IC901 | E-3 | | |
| IC950 | C-1 | | |
| IC951 | B-2 | | |
| IC953 | B-1 | | |
| IC954 | B-3 | | |
| IC952 | B-1 | | |
| IC955 | D-3 | | |
| IC9A1 | A-3 | | |
| | | | |
| Q451 | C-7 | | |
| Q551 | C-4 | | |
| Q552 | E-4 | | |

TEXT - PCB

| SYMBOL NO. | ADDRESS |
|------------|---------|
| D7706 | B-1 |
| D7708 | B-2 |
| | |
| IC7704 | A-1 |
| IC7705 | A-3 |
| IC7706 | B-3 |
| IC7707 | C-2 |
| IC7708 | B-1 |
| | |
| Q7701 | B-4 |
| Q7703 | C-4 |
| Q7705 | A-2 |
| Q7706 | B-4 |
| Q7707 | A-2 |
| | |
| TP1 | B-3 |
| | |
| VC7701 | B-4 |
| | |
| VR7701 | A-4 |

MBC-AV-PCB



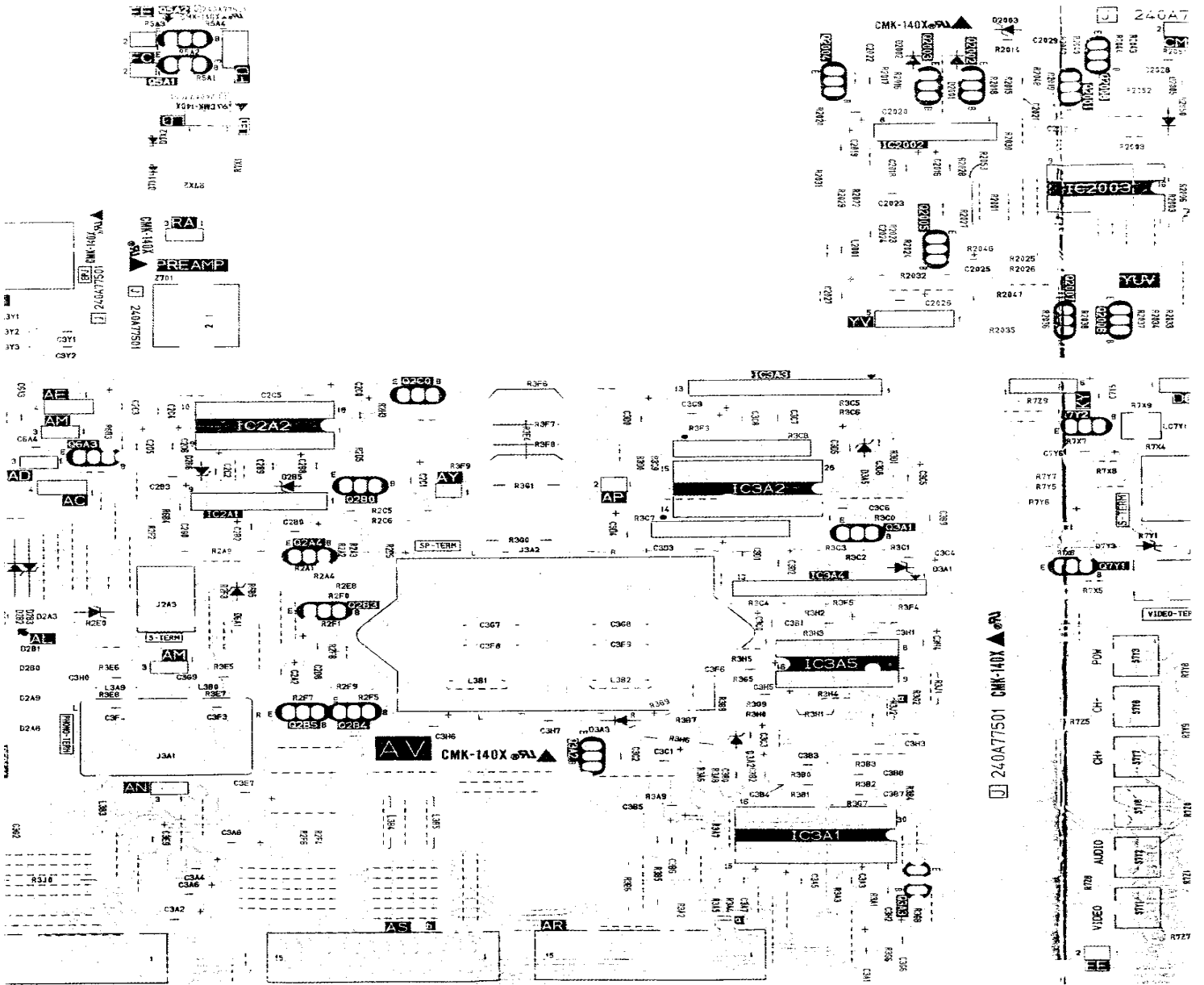
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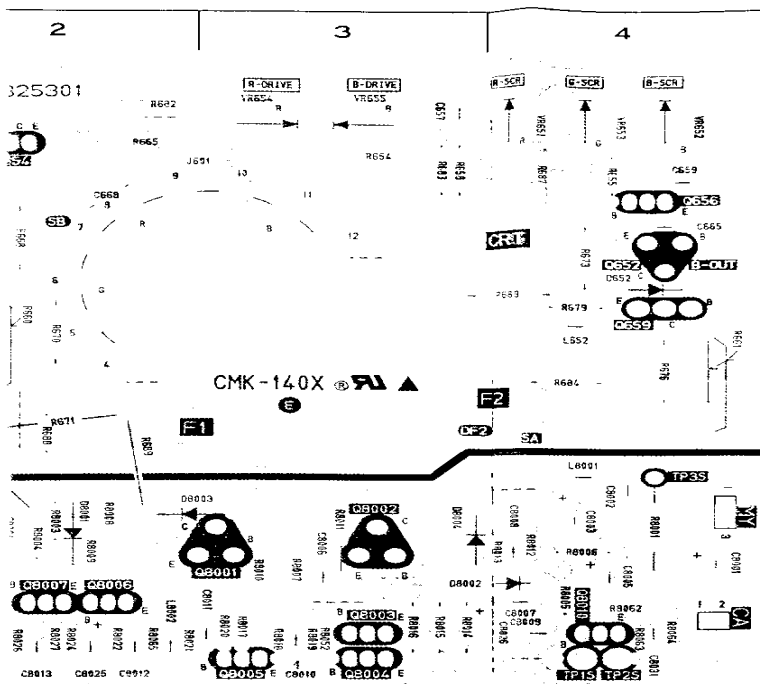
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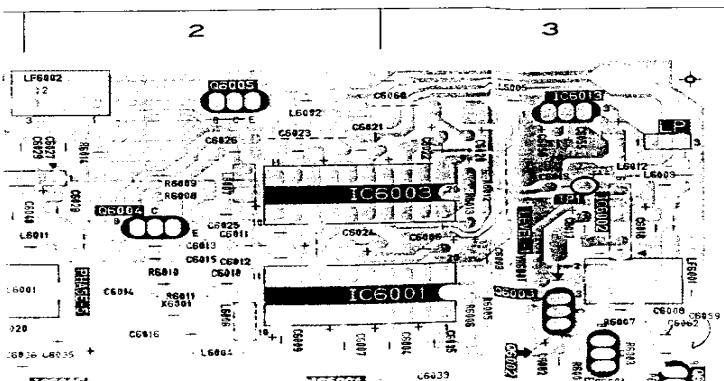
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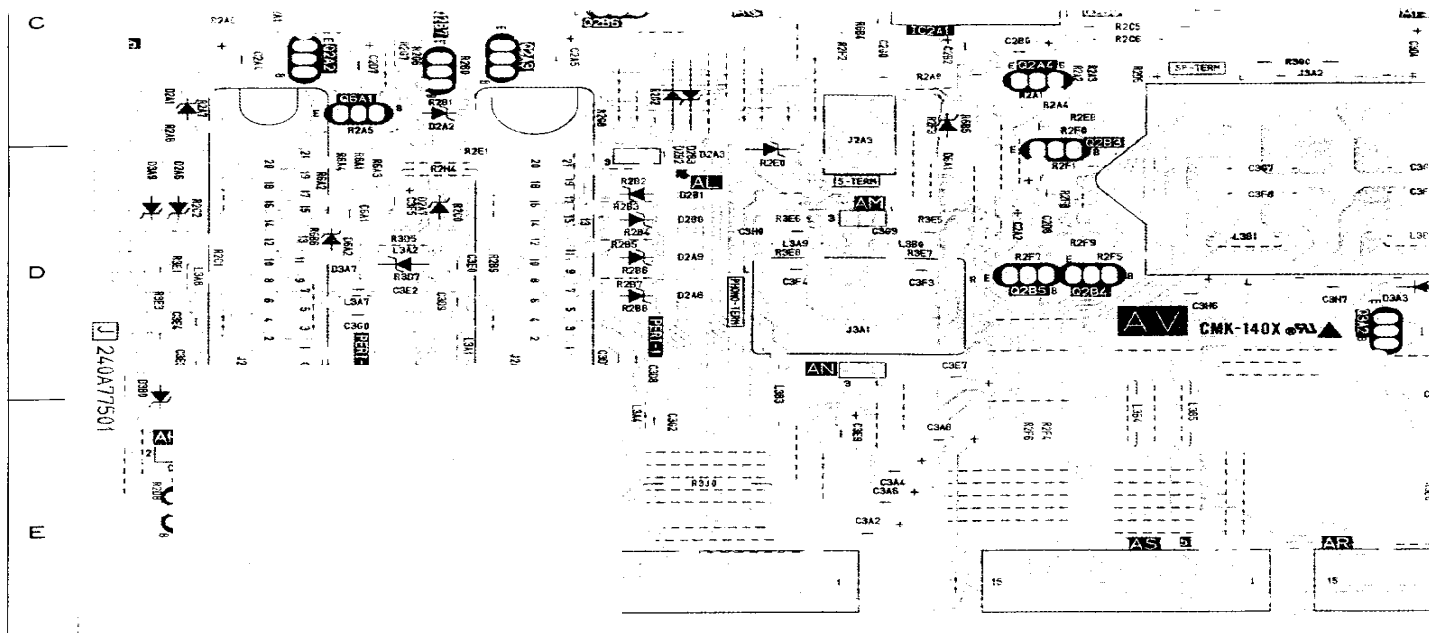
VMCR7 - PCB

| SYMBOL NO. | ADDRESS |
|------------|---------|
| D651 | B-1 |
| D652 | B-4 |
| D653 | B-1 |
| D654 | A-1 |
| D655 | B-1 |
| D8001 | C-2 |
| D8002 | C-3 |
| D8003 | C-2 |
| D8004 | C-3 |
| | |
| | |
| 0651 | A-1 |
| 0652 | A-4 |
| 0653 | A-1 |
| 0654 | A-2 |
| 0655 | A-1 |
| 0656 | A-4 |
| 0657 | A-1 |
| 0658 | B-2 |
| 0659 | B-4 |
| 0660 | B-1 |
| 08001 | C-3 |
| 08002 | C-3 |
| 08003 | C-3 |
| 08004 | C-3 |
| 08005 | C-3 |
| 08006 | C-2 |
| 08007 | C-2 |
| 08008 | C-2 |
| 08009 | C-1 |
| 08010 | C-4 |
| 08012 | C-1 |
| | |
| | |
| TP1S | C-4 |
| TP2S | C-4 |
| TP3S | C-4 |
| | |
| | |
| VR651 | A-4 |
| VR652 | A-4 |
| VR653 | A-4 |
| VR654 | A-3 |
| VR655 | A-3 |



DCF - PCB

| SYMBOL NO. | ADDRESS |
|------------|---------|
| IC6001 | A-3 |
| IC6002 | A-3 |
| IC6003 | A-3 |
| IC6004 | B-2 |
| IC6005 | B-2 |
| IC6006 | B-1 |
| IC6007 | A-1 |
| IC6008 | A-1 |
| IC6009 | A-1 |
| IC6010 | B-2 |
| IC6011 | B-2 |
| IC6012 | B-3 |
| IC6013 | A-3 |
| | |
| | |
| 06001 | B-3 |
| 06002 | B-3 |



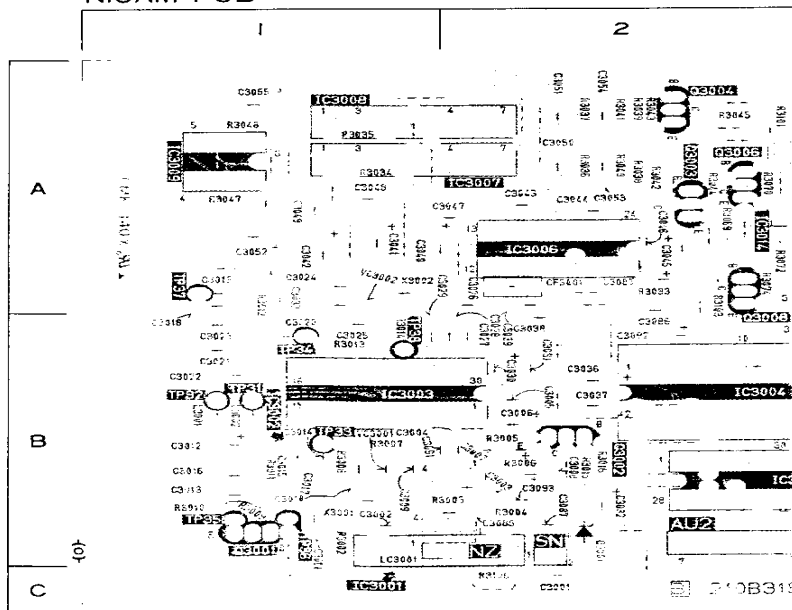
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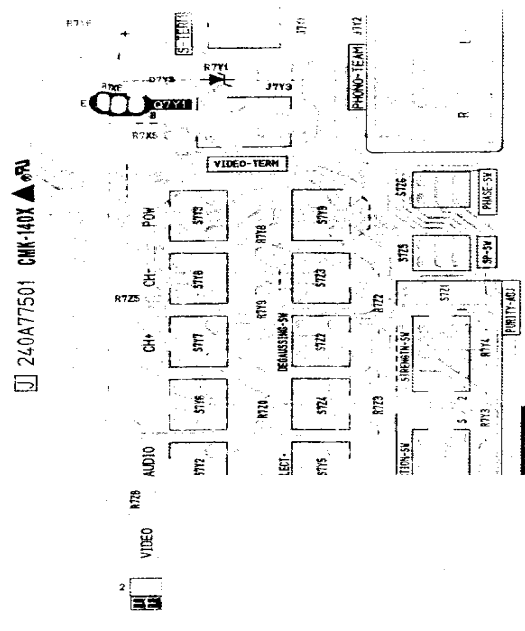
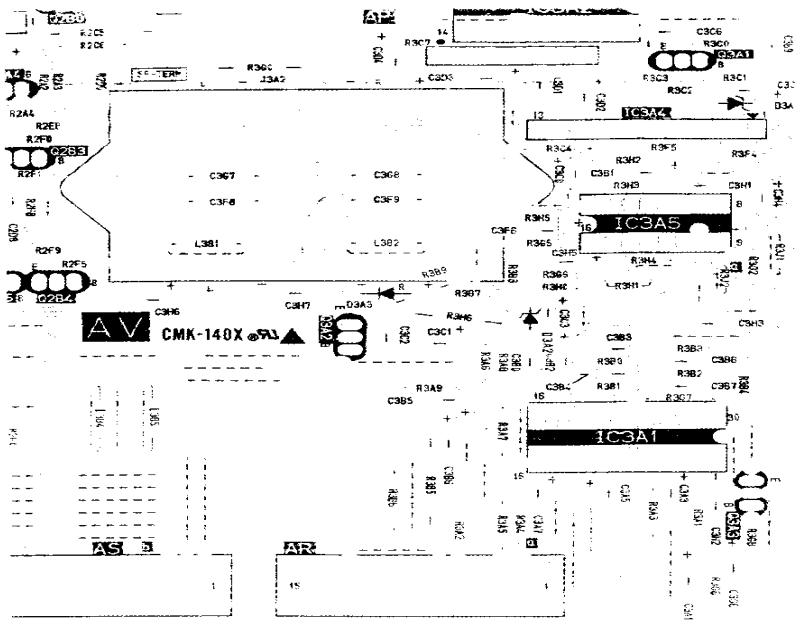
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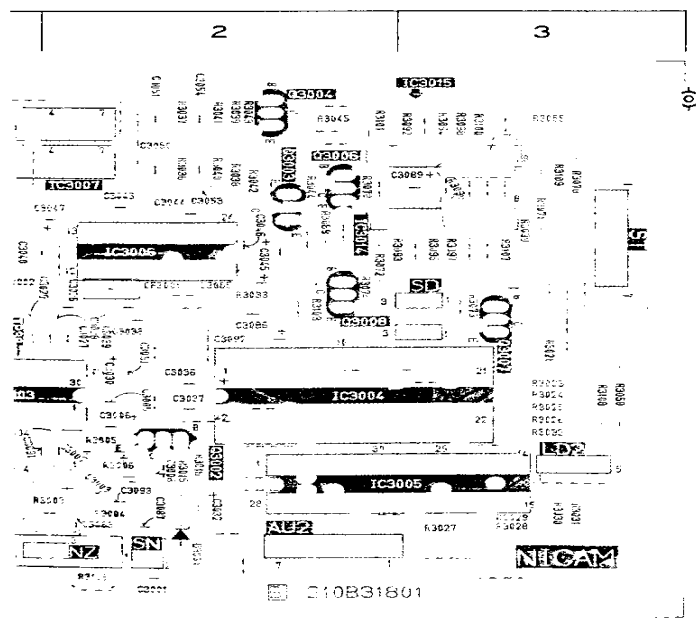
FAX: 01844 - 352554

NICAM-PCB





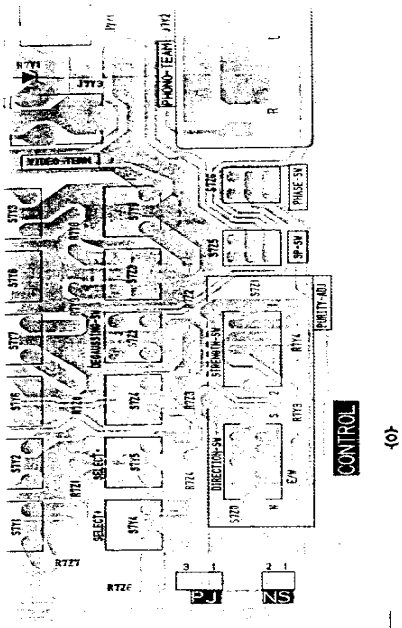
240A77501 CMK-140X



NICAM-PCB

| SYMBOL NO. | ADDRESS |
|------------|---------|
| IC3001 | C-1 |
| IC3002 | B-1 |
| IC3003 | B-1 |
| IC3006 | A-2 |
| IC3007 | A-2 |
| IC3008 | A-1 |
| IC3009 | A-1 |
| IC3014 | A-2 |
| IC3015 | A-3 |
| Q3001 | B-1 |
| Q3002 | B-2 |
| Q3003 | A-2 |
| Q3004 | A-2 |
| Q3004 | B-2 |
| Q3005 | B-2 |
| Q3006 | A-2 |
| Q3007 | B-3 |
| Q3008 | A-2 |
| TP31 | B-1 |
| TP32 | B-1 |
| TP33 | B-1 |
| TP34 | B-1 |
| TP35 | B-1 |
| TP36 | B-1 |
| TP37 | A-1 |
| TP38 | B-1 |

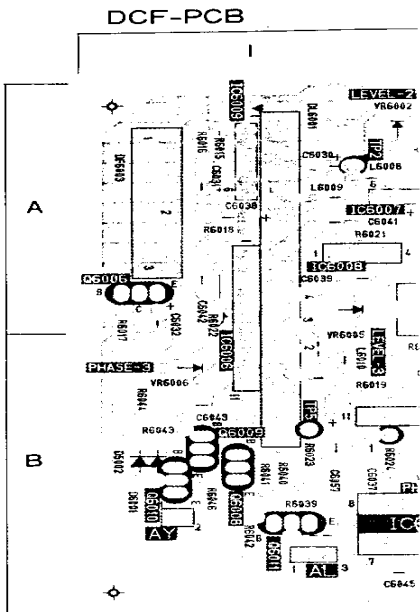
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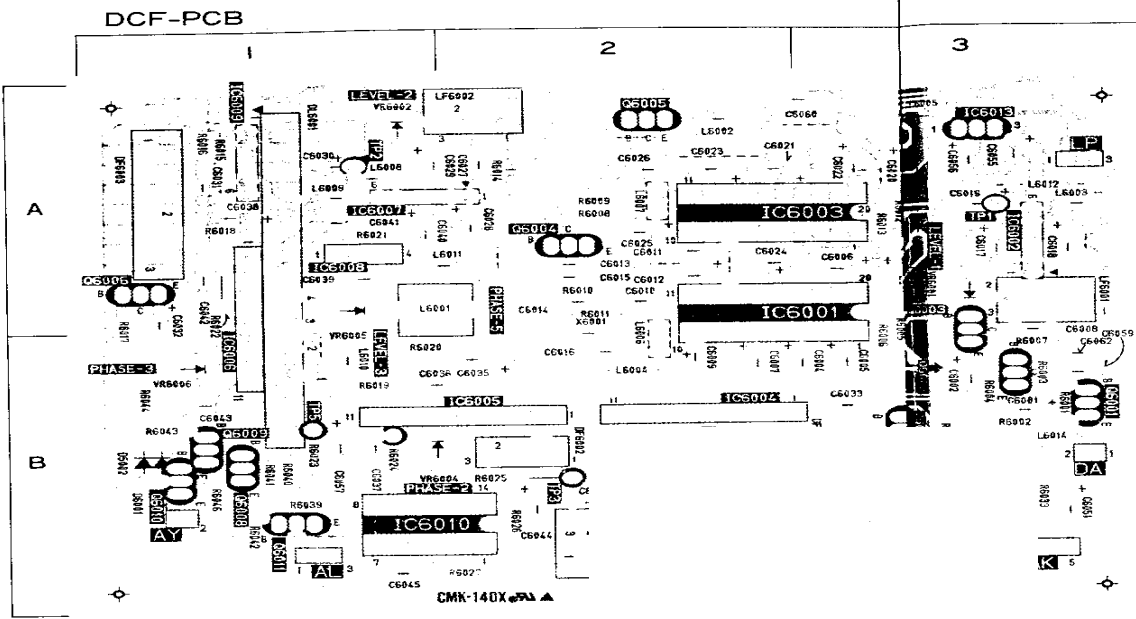
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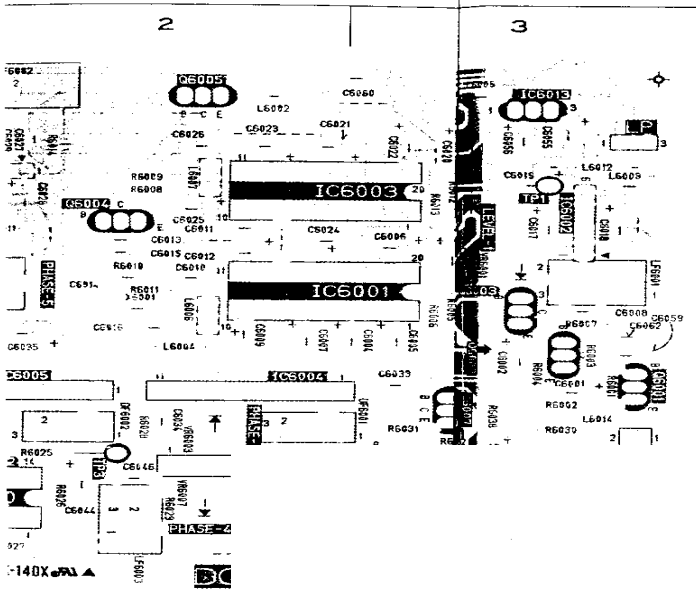
| | |
|--------|-----|
| D6A1 | D-3 |
| D6A2 | D-1 |
| D7X1 | A-3 |
| D7X2 | A-3 |
| D7Y3 | C-6 |
| D7Y4 | C-6 |
| | |
| IC2001 | B-7 |
| IC2002 | A-5 |
| IC2003 | A-6 |
| IC2A1 | C-3 |
| IC2A2 | C-3 |
| IC2A3 | E-1 |
| IC2P2 | A-1 |
| IC2P3 | B-1 |
| IC3A1 | E-5 |
| IC3A2 | C-5 |
| IC3A3 | B-5 |
| IC3A4 | C-5 |
| IC3A5 | D-5 |
| | |
| Q2001 | A-6 |
| Q2002 | A-5 |
| Q2003 | A-5 |
| Q20 | |
| Q20 | |
| Q20 | |
| Q20 | |

| | |
|------|-----|
| 07Y2 | C-6 |
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TEL: 01844 35100
 FAX: 01844 - 352554





| | |
|-------|-----|
| TP1S | C-4 |
| TP2S | C-4 |
| TP3S | C-4 |
| VR651 | A-4 |
| VR652 | A-4 |
| VR653 | A-4 |
| VR654 | A-3 |
| VR655 | A-3 |

DCF - PCB

| SYMBOL NO. | ADDRESS |
|------------|---------|
| IC6001 | A-3 |
| IC6002 | A-3 |
| IC6003 | A-3 |
| IC6004 | B-2 |
| IC6005 | B-2 |
| IC6006 | B-1 |
| IC6007 | A-1 |
| IC6008 | A-1 |
| IC6009 | A-1 |
| IC6010 | B-2 |
| IC6011 | B-2 |
| IC6012 | B-3 |
| IC6013 | A-3 |
| Q6001 | B-3 |
| Q6002 | B-3 |
| Q6003 | A-3 |
| Q6004 | A-2 |
| Q6005 | A-2 |
| Q6006 | A-1 |
| Q6007 | B-3 |
| Q6008 | B-1 |
| Q6009 | B-1 |
| Q6010 | B-1 |
| Q6011 | B-1 |
| TP1 | A-3 |
| TP2 | A-1 |
| TP3 | B-2 |
| TP5 | B-1 |
| TP6 | B-3 |
| VR6001 | A-3 |
| VR6002 | A-1 |
| VR6003 | B-2 |
| VR6004 | B-2 |
| VR6005 | B-1 |
| VR6006 | B-1 |
| VR6007 | B-2 |
| VR6008 | B-2 |