

ICC5 COLOUR TV

SERVICE INFORMATION

FERGUSON is a registered trade-mark.

COVERING MODEL 51L5Q

SHEET ONE OF TWO

SERVICING SAFETY NOTES

Do not disconnect any modules whilst the TV receiver is switched on.
It is advisable to power the TV receiver via an isolating transformer when servicing.
Any covers, cages etc. must be replaced after servicing.
Do not exceed the V2 HT voltage of 145V as this also sets the EHT.

OSCILLOGRAMS

The oscillograms shown in the circuit diagram are with a colourbar signal (white=100%, colour=75%), input voltage 2mV approx. Set brightness, contrast and colour controls for normal picture, unless stated otherwise.

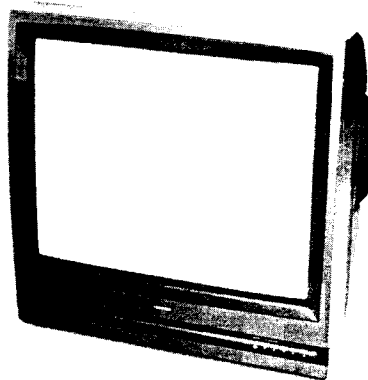
VOLTAGES

DC voltages measured with 240V approx. input voltage, and the measurements made with a 20k Ω /volt multimeter.

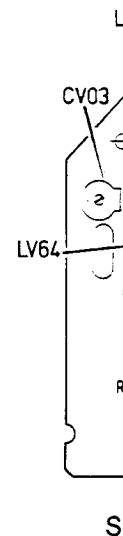
ACCESS FOR SERVICE

Disconnect the receiver from the mains supply by removing the mains plug from the wall socket. It is advisable to check both poles of the mains on-off switch for correct operation.

Remove the cabinet back by unscrewing the six retaining screws. The chassis frame hooks into the cabinet base and is held in position by the cabinet back.



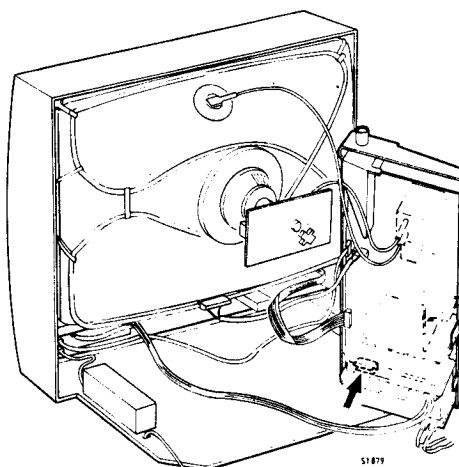
MODEL 51L5Q WITH REMOTE CONTROL,
STEREO SOUND, FASTTEXT, ON-SCREEN
GRAPHICS, PERITELEVISION AND S-VHS
FACILITIES



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

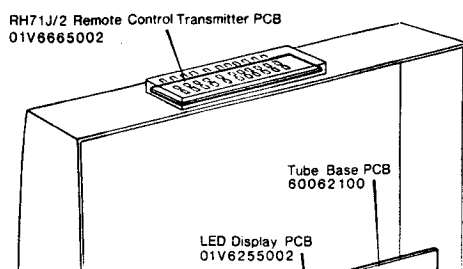
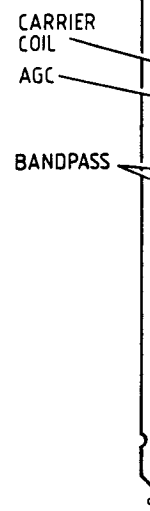


RH71J/2 REMOTE CONTROL
TRANSMITTER



Main Chassis Servicing Position
Push the chassis into the plastic
clip as shown

The lead lengths are sufficient to allow the main chassis to be turned and clipped into the vertical servicing position as shown in the diagram, but care is necessary in order to avoid fouling the video-chroma board against the CRT base board.

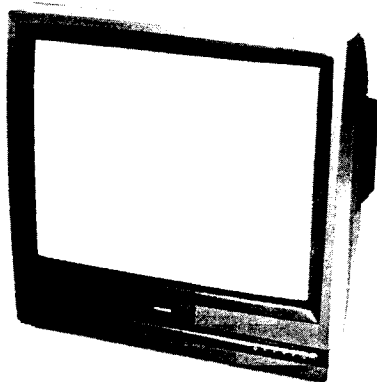


The following adjustments are located on the tube base PCB.

Note: The A1 and Picture White Adjustment are repeated in the full alignment sequence.

A1 VOLTAGE (PV90A)

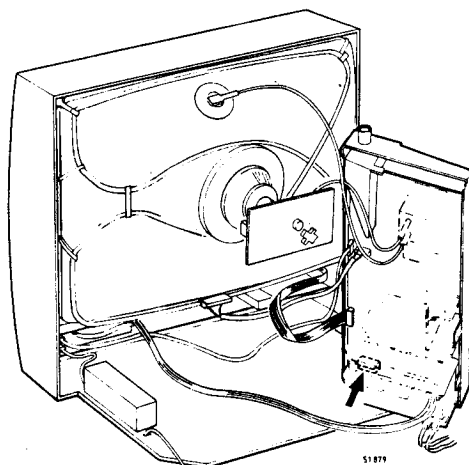
Adjust under normal reception conditions but with contrast and brightness at minimum to give a black screen. Check the voltage at the green cathode



MODEL 51L5Q WITH REMOTE CONTROL,
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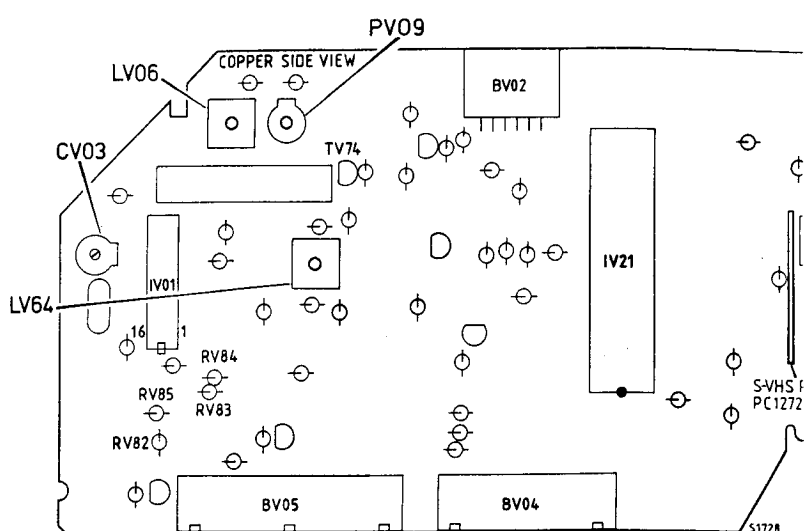


RH71J/2 REMOTE CONTROL
TRANSMITTER



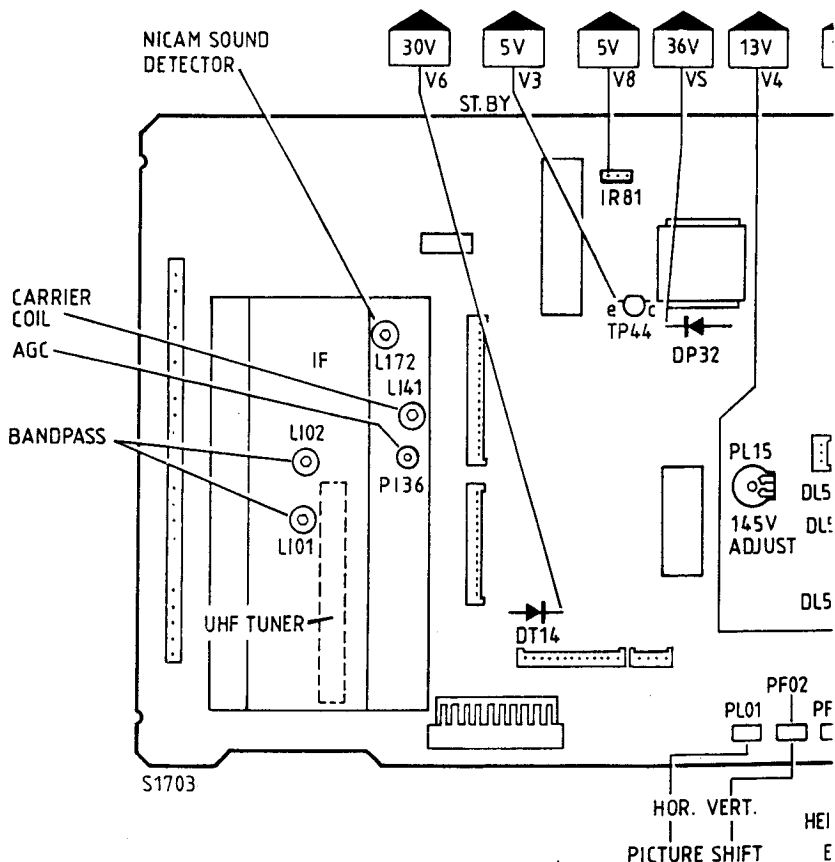
Main Chassis Servicing Position
Push the chassis into the plastic
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The lead lengths are sufficient to allow the main chassis to be turned and clipped into the vertical servicing position as shown in the diagram, but care is necessary in order to avoid fouling the video-chroma board against the CRT base board.



S-VHS Chroma/Video Board 50358200 Adjustment Diagram

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Main Board 10M4330002 Adjustment Diagram

The following adjustments are located on the tube base PCB.

Note: The A1 and Picture White Adjustment are repeated in the full alignment sequence.

A1 VOLTAGE (PV90A)

Adjust under normal reception conditions but with contrast and brightness at minimum to give a black screen. Check the voltage at the green cathode

- Adjust LI01 for a minimum at 37.6MHz and LI02 for a maximum at 33.7MHz - this order must be followed.
- Switch off the 12V supply and disconnect the detector probe and the wobbulator input.

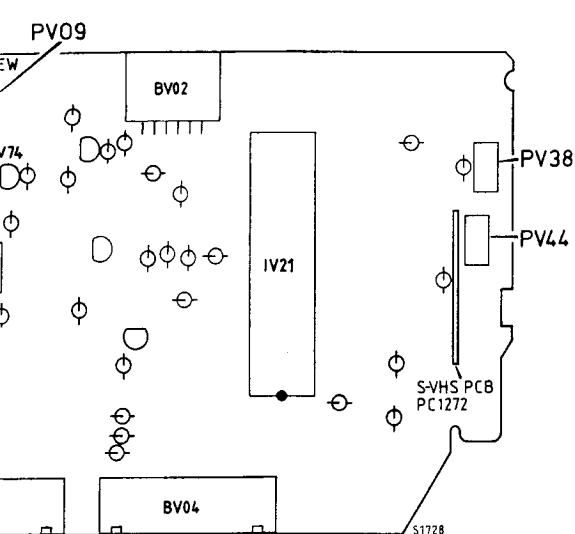
Carrier Coil LI41

- Connect the generator, set to 39.5MHz, in place of the wobbulator and the meter between LI36/11 and earth (generator output not to be less than

Luminance Chanr

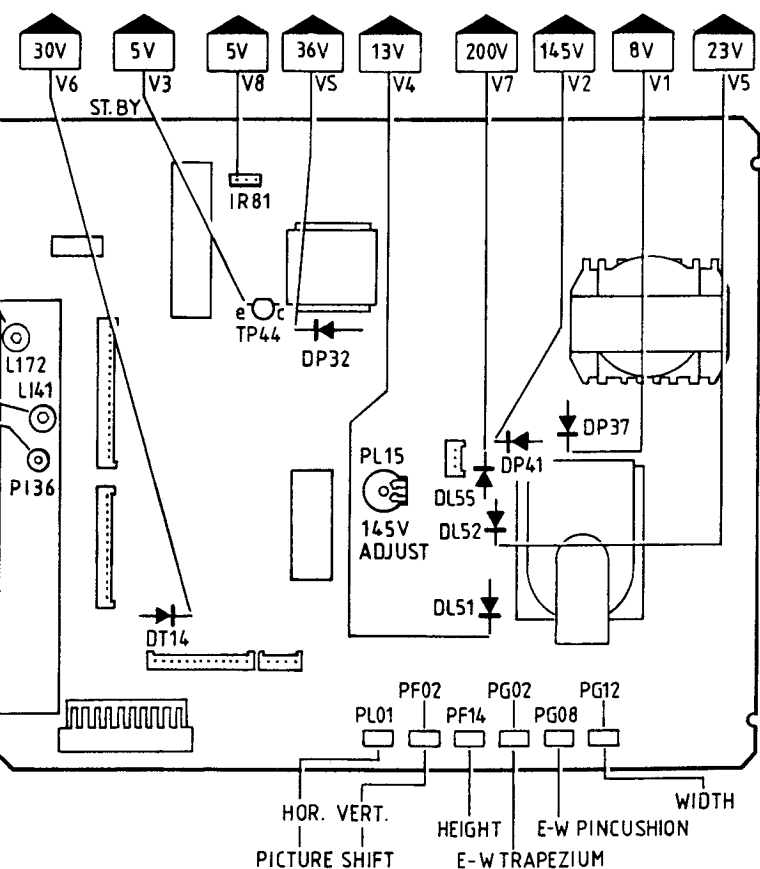
- Connect one inp between the emi
- Switch the receiv pattern generato raster.
- Adjust LV64 for i 6MHz signal.
- Switch the receiv the oscilloscope.

A1. Beam-limitinc



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Video Board 50358200 Adjustment Diagram



Board 10M4330002 Adjustment Diagram

minimum at 37.6MHz
 minimum at 33.7MHz -
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ator, set to 39.5MHz,
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 /11 and earth
 not to be less than

Luminance Channel

26. Connect one input of the oscilloscope between the emitter of TV74 and earth.
27. Switch the receiver on and set the pattern generator for an all-black raster.
28. Adjust LV64 for a minimum of the 6MHz signal.
29. Switch the receiver off and disconnect the oscilloscope.

A1. Beam-limiting and Grey-Scale

NICAM and ON-SCREEN GRAPHICS SERVICING ADJUSTMENTS

The following factory preset adjustments are carried out during manufacture and should not be readjusted in the field unless components affecting the settings are changed.

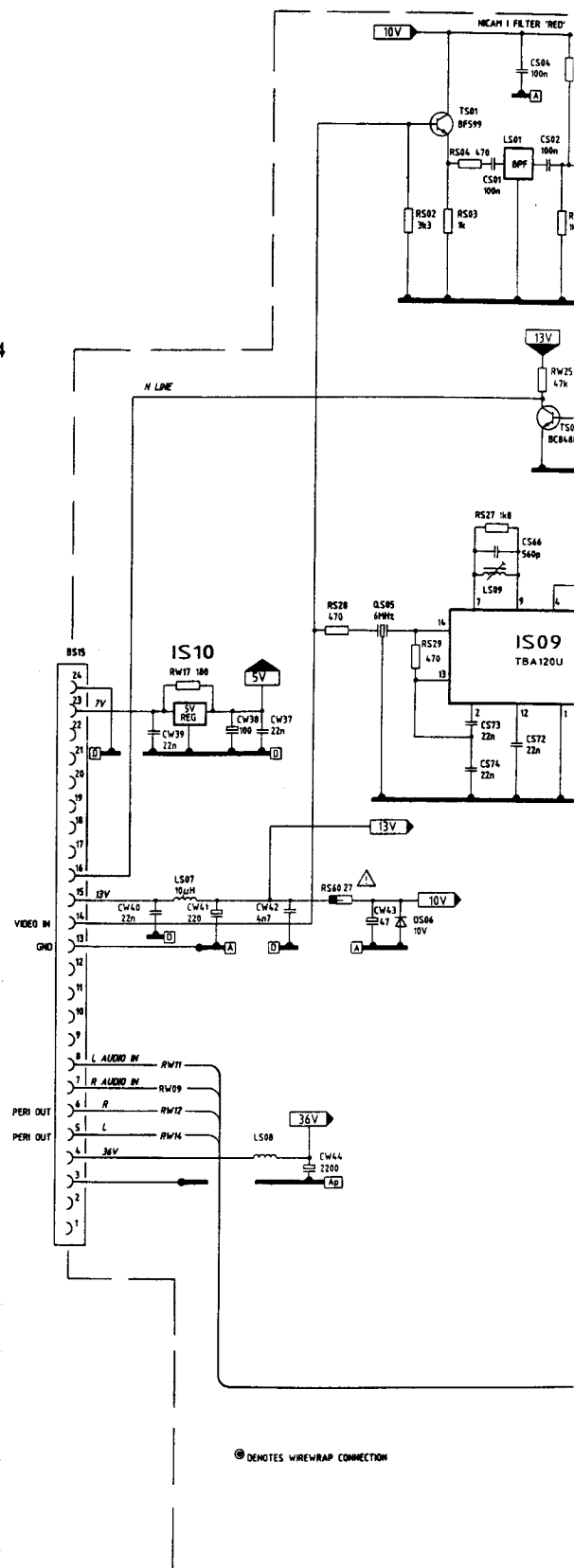
It is recommended that only qualified engineers having the correct servicing

FASTEXT AND ON-SCREEN GRAPHICS BOARD (01V6251002)

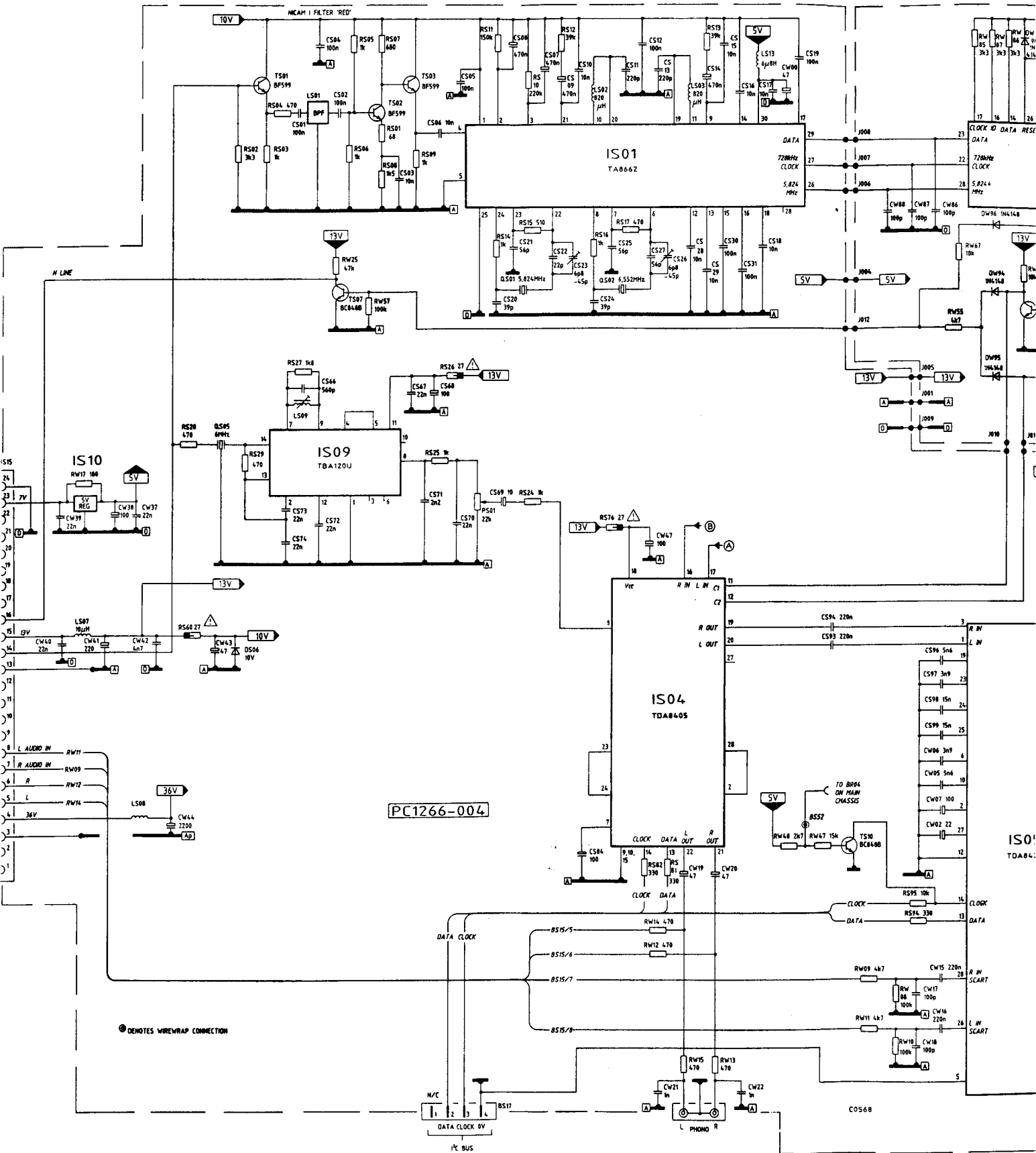
6MHz Clock (CV07)

Connect the frequency counter pin 17. Adjust CV07 for 6.00021 200Hz.

On-Screen Display Oscillator



⊗ DENOTES WIREWRAP CONNECTION



Stereo/Audio Board 80158100 and Sub Module 30649700 Circ

SCREEN VICING

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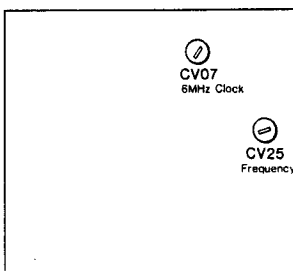
FASTTEXT AND ON-SCREEN GRAPHICS BOARD (01V6251002)

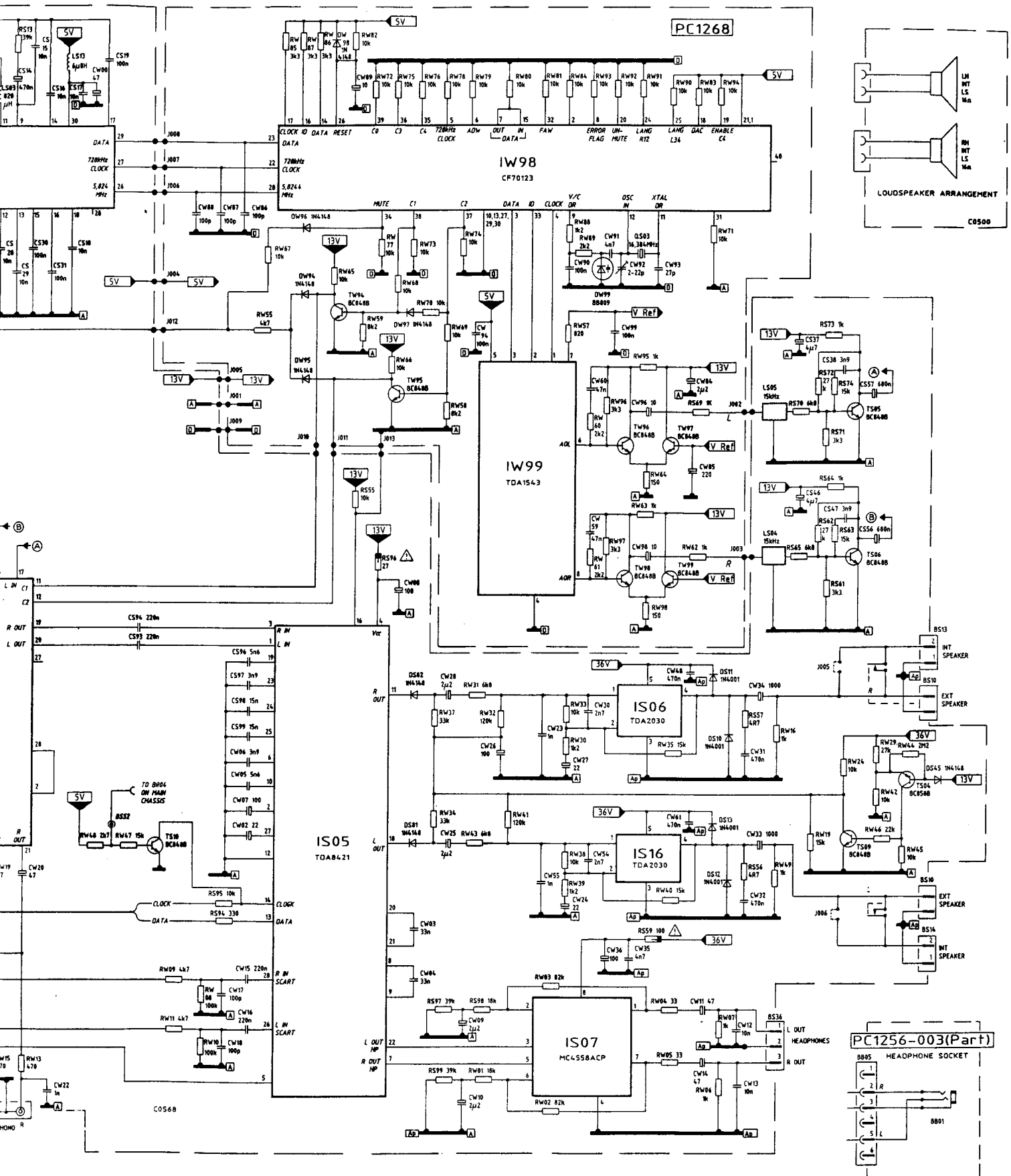
6MHz Clock (CV07)

Connect the frequency counter to IV03
pin 17. Adjust CV07 for 6.0002MHz $\pm$
200Hz.

On-Screen Display Oscillator

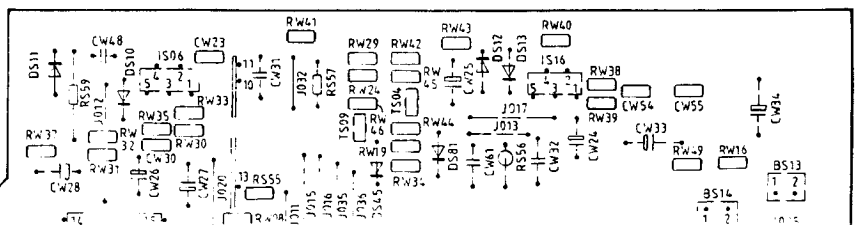
Fasttext (CV07)





80158100 and Sub Module 30649700 Circuit Diagram

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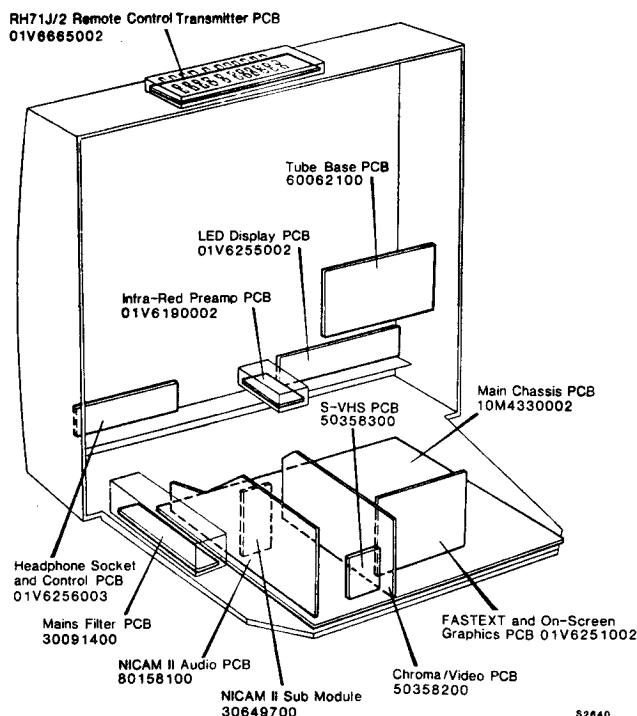
ACCESS FOR SERVICE

Disconnect the receiver from the mains supply by removing the mains plug from the wall socket. It is advisable to check both poles of the mains on-off switch for correct operation.

Remove the cabinet back by unscrewing the six retaining screws. The chassis frame hooks into the cabinet base and is held in position by the cabinet back.

Push the chassis into the plastic clip as shown

The lead lengths are sufficient to allow the main chassis to be turned and clipped into the vertical servicing position as shown in the diagram, but care is necessary in order to avoid fouling the video-chroma board against the CRT base board.



Printed Circuit Board Location Diagram

INSTALLATION

Power Supplies

Mains input 240V a.c. 50Hz. The receiver will operate from a mains input between 180V and 264V no adjustments being required. The chassis is isolated - however an area of the main PCB carries live mains and the usual precautions must be taken when servicing in this area.

Fuse

Mains input circuit reference FP05 20mm cartridge type T1.6A. Unclip the mains input filter cage for access.

Aerial Socket

Standard coaxial 75 ohms impedance.

Degaussing

Dual PTC thermistor unit running from the a.c. mains operates whenever the receiver is switched on from cold.

Customer Controls

See Operating Instructions for details.

WARNING

EHT Shock Hazard

The EHT must be safely discharged before attempting to disconnect the EHT lead from the tube anode.

Clip one end of a convenient lead, such as a meter lead, to the tube earthing strap on the tube body, fold back the suction cap and discharge the EHT through the lead. Press in one side of the spring clip which projects into the tube cavity to ease removal of the EHT connector.

IMPORTANT

Do not disturb the tube neck adjustments as these have been set for optimum performance during tube manufacture.

SERVICING ADJUSTMENTS

The following preset adjustments are not usually required during installation and should be made only if necessary after servicing.

SET V2 HT 145V (PL15)

Conditions are Programme 1 selected with locked picture but black screen, i.e. contrast, brightness and sound volume turned to minimum. Measure the V2 voltage at DP41 cathode (see chassis diagram) and if necessary adjust to 145V. Readjust controls for normal reception.

The following picture geometry adjustments are grouped in a row at the rear of the chassis and can be accessed through holes in the cabinet back.

PICTURE HEIGHT AND WIDTH (PF14 AND PG12)

Adjust for full vertical and horizontal scan consistent with correct proportions.

PICTURE SHIFT (PL01 horizontal and PF02 vertical)

If necessary, adjust to centre the picture. It may be necessary to readjust the vertical after making the horizontal adjustment.

EAST-WEST PINCUSHION (PG08)

Adjust to remove bowing at the left and right-hand edges of the picture.

EAST-WEST TRAPEZIUM (PG02)

Adjust to give equal width at top and bottom of picture.

The following adjustments are located on the tube base PCB.

Note: The A1 and Picture White Adjustment are repeated in the full alignment sequence.

A1 VOLTAGE (PV90A)

Adjust under normal reception conditions but with contrast and brightness at minimum to give a black screen. Check the voltage at the green cathode (pin 6) and, if necessary adjust for 150V. Restore normal picture.

FOCUS VOLTAGE (PV90B)

Adjust for overall picture sharpness.

PICTURE WHITE ALIGNMENT (PV50 AND PV70)

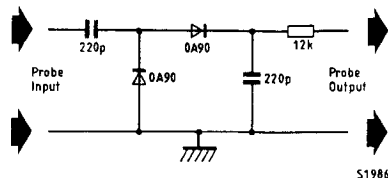
Use a Greyscale wedge or test card to observe results. Adjust PV50 (red) and PV70 (blue) for clean peak white, free from colouration.

ALIGNMENT

Full alignment sequence excluding picture geometry adjustments

Equipment Required

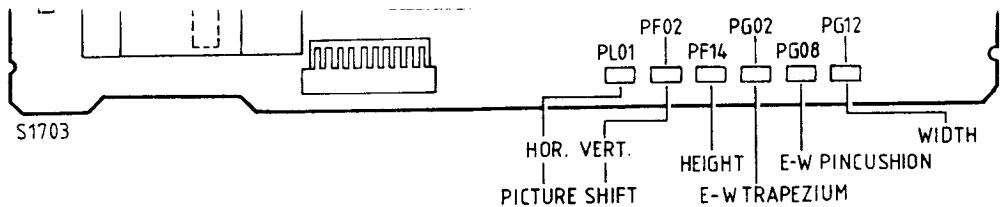
1. An IF wobulator with markers at 33.7MHz and 37.6MHz.
2. An oscilloscope capable of displaying 100mV at 6MHz and, also, of functioning in the XY mode, i.e. dual input.
3. Non-metallic trimming tools, including an 8 BA(4mm) non-metallic box spanner.
4. A multirange meter (20k Ω /V) such as the Avometer Model 8.
5. A signal generator covering 5MHz to 40MHz and capable of FM to 100kHz deviation with a modulating frequency of 1kHz.
6. An 8 ohm 2W resistor.
7. UHF pattern generator providing the usual colourbar sequence and an all-black and all-white raster plus sound.
8. A separate power supply providing 12V at 300mA, 4.25V at 10mA and 2V at 10mA.
9. A detector probe such as the one shown.



Bandpass LI01 and LI02

1. Connect the wobulator output lead, via a series 3.9k Ω resistor and 1nF capacitor, between the junction of LI01/LI02 and earth.
2. Connect the input of the detector probe across RI32 and its output to the oscilloscope (should the wobulator not be provided with its own detector probe).
3. Set the wobulator centre-frequency to 36.5MHz and the output to maximum, with markers at 37.6MHz and 33.7MHz. Connect the 12V supply between BS15/15 and earth.
4. Switch on the 12V supply and adjust the Y gain of the display for a full scale

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necessary in order
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Main Board 10M4330002 Adjustment Diagram

The following adjustments are located on the tube base PCB.

Note: The A1 and Picture White Adjustment are repeated in the full alignment sequence.

A1 VOLTAGE (PV90A)

Adjust under normal reception conditions but with contrast and brightness at minimum to give a black screen. Check the voltage at the green cathode (pin 6) and, if necessary adjust for 150V. Restore normal picture.

FOCUS VOLTAGE (PV90B)

Adjust for overall picture sharpness.

PICTURE WHITE ALIGNMENT (PV50 AND PV70)

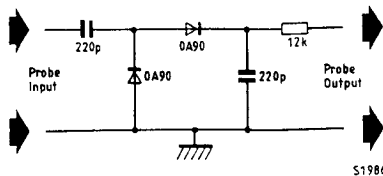
Use a Greyscale wedge or test card to observe results. Adjust PV50 (red) and PV70 (blue) for clean peak white, free from colouration.

ALIGNMENT

Full alignment sequence excluding picture geometry adjustments

Equipment Required

- 1. An IF wobblator with markers at 33.7MHz and 37.6MHz.
- 2. An oscilloscope capable of displaying 100mV at 6MHz and, also, of functioning in the XY mode, i.e. dual input.
- 3. Non-metallic trimming tools, including an 8 BA(4mm) non-metallic box spanner.
- 4. A multirange meter (20kΩ/V) such as the Avometer Model 8.
- 5. A signal generator covering 5MHz to 40MHz and capable of FM to 100kHz deviation with a modulating frequency of 1kHz.
- 6. An 8 ohm 2W resistor.
- 7. UHF pattern generator providing the usual colourbar sequence and an all-black and all-white raster plus sound.
- 8. A separate power supply providing 12V at 300mA, 4.25V at 10mA and 2V at 10mA.
- 9. A detector probe such as the one shown.



Bandpass LI01 and LI02

- 1. Connect the wobblator output lead, via a series 3.9kΩ resistor and 1nF capacitor, between the junction of CI01/CI02 and earth.
- 2. Connect the input of the detector probe across RI32 and its output to the oscilloscope (should the wobblator not be provided with its own detector probe).
- 3. Set the wobblator centre-frequency to 36.5MHz and the output to maximum, with markers at 37.6MHz and 33.7MHz. Connect the 12V supply between BS15/15 and earth.
- 4. Switch on the 12V supply and adjust the Y gain of the display for a full scale

- 5. Adjust LI01 for a minimum at 37.6MHz and LI02 for a maximum at 33.7MHz - this order must be followed.
- 6. Switch off the 12V supply and disconnect the detector probe and the wobblator input.

Carrier Coil LI41

- 7. Connect the generator, set to 39.5MHz, in place of the wobblator and the meter between LI36/11 and earth (generator output not to be less than 100mV p.d. across 75 ohms). Connect the 2V supply between LI36/4 and earth. Meter on 0V-10V range.
- 8. Switch on the 12V and 2V supplies.
- 9. Adjust LI41 for a minimum meter reading.
- 10. Switch off the supplies and disconnect the generator, the supplies and the meter.

AGC

- 11. Connect the pattern generator to the aerial input socket and adjust the generator output for 1.5mV p.d across 75 ohms. The generator should be set to channel 27, vision carrier, 519.25MHz, with the colourbar sequence.
- 12. Adjust potentiometer PI36 maximum clockwise.
- 13. Switch the receiver on and adjust the tuner to channel 27.
- 14. Mute volume and adjust brightness, contrast, and colour for normal viewing, i.e. normalise condition.
- 15. Adjust PI36 until noise appears and then finally adjust for the condition where noise just disappears.
- 16. Switch the receiver off.

S-VHS Luminance/Chroma Video Module (50358200)

Chrominance Channel

- 17. Short-circuit pins 5 and 6 of IV01.
- 18. Apply 4.25V to pin 2 of IV01.
- 19. Switch the receiver on and adjust CV03 for the slowest scrolling of the colour signal.
- 20. Switch off, remove the short and the applied voltage.
- 21. Connect one input of the oscilloscope between the junction of RV82/83 and earth and the other input between the junction of RV84/85 and earth. Switch the oscilloscope to the XY mode.
- 22. Switch the receiver on and adjust the respective Y gains of the oscilloscope to obtain a full scale vector style display.
- 23. Adjust PV09 for minimum amplitude of the centre dot and LV06 to obtain single dots for the 6 colours of the colourbar.
- 24. Repeat sequence 23 once more. If suitable test equipment is not to hand then PV09 and LV06 can be adjusted for minimum venetian blind effect whilst observing an off-air test card (normalised colour condition). Check for satisfactory results by advancing the colour control.
- 25. Switch the receiver off and disconnect the oscilloscope.

Luminance Channel

- 26. Connect one input of the oscilloscope between the emitter of TV74 and earth.
- 27. Switch the receiver on and set the pattern generator for an all-black raster.
- 28. Adjust LV64 for a minimum of the 6MHz signal.
- 29. Switch the receiver off and disconnect the oscilloscope.

A1, Beam-limiting and Grey-Scale

- 30. Connect the meter, 600V range, between pin 6 of the CRT and earth.
- 31. Switch the receiver on and make sure that the pattern generator is still providing an all-black raster on channel 27.
- 32. Set PV38 and PV44 to maximum anti-clockwise.
- 33. Adjust the A1 control (PV90A) on the tube base board, for a reading of 150V on the meter.
- 34. Disconnect the meter and connect it between BV02/1 and earth (0V-3V range). Set the pattern generator to provide the colourbar sequence.
- 35. Note the reading on the meter and adjust PV38 for a 0.5V increase on this reading.
- 36. Set the pattern generator to provide an all-white raster and adjust contrast to maximum.
- 37. Note the reading on the meter and adjust PV44 for a 0.7V decrease on this reading.
- 38. Disconnect the meter and adjust PV50 and PV70, on the tube base board, for the desired white. Alternatively, reset the pattern generator for the colourbar sequence; normalise contrast and brightness and adjust colour to minimum. Adjust PV50 and PV70 for optimum greyscale performance. N.B Should the pattern generator be incapable of providing an all-black and all-white signal, then adjustment of the A1 control requires that the contrast, brightness and colour be set to minimum. Adjustment of PV44 requires that contrast, brightness and colour be set to maximum.
- 39. Switch-off and disconnect the pattern generator.

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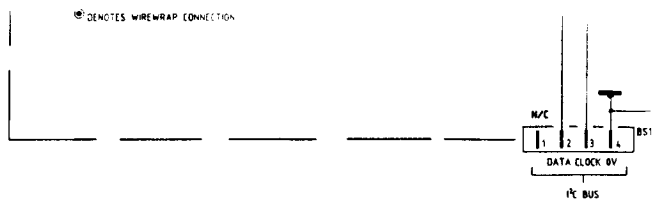
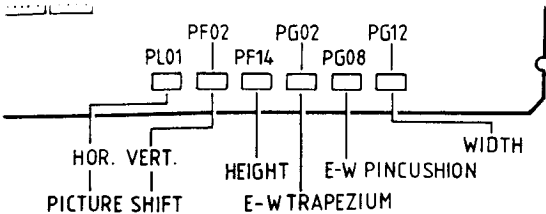
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002 Adjustment Diagram

Luminance Channel

26. Connect one input of the oscilloscope between the emitter of TV74 and earth.
27. Switch the receiver on and set the pattern generator for an all-black raster.
28. Adjust LV64 for a minimum of the 6MHz signal.
29. Switch the receiver off and disconnect the oscilloscope.

A1, Beam-limiting and Grey-Scale

30. Connect the meter, 600V range, between pin 6 of the CRT and earth.
31. Switch the receiver on and make sure that the pattern generator is still providing an all-black raster on channel 27.
32. Set PV38 and PV44 to maximum anti-clockwise.
33. Adjust the A1 control (PV90A) on the tube base board, for a reading of 150V on the meter.
34. Disconnect the meter and connect it between BV02/1 and earth (0V-3V range). Set the pattern generator to provide the colourbar sequence.
35. Note the reading on the meter and adjust PV38 for a 0.5V increase on this reading.
36. Set the pattern generator to provide an all-white raster and adjust contrast to maximum.
37. Note the reading on the meter and adjust PV44 for a 0.7V decrease on this reading.
38. Disconnect the meter and adjust PV50 and PV70, on the tube base board, for the desired white. Alternatively, reset the pattern generator for the colourbar sequence; normalise contrast and brightness and adjust colour to minimum. Adjust PV50 and PV70 for optimum greyscale performance. N.B Should the pattern generator be incapable of providing an all-black and all-white signal, then adjustment of the A1 control requires that the contrast, brightness and colour be set to minimum. Adjustment of PV44 requires that contrast, brightness and colour be set to maximum.
39. Switch-off and disconnect the pattern generator.

NICAM and ON-SCREEN GRAPHICS SERVICING ADJUSTMENTS

The following factory preset adjustments are carried out during manufacture and should not be readjusted in the field unless components affecting the settings are changed.

It is recommended that only qualified engineers having the correct servicing equipment should attempt any of the NICAM adjustments or the performance of the decoder may be impaired.

Equipment Required

1. A 7-digit, or more, frequency counter capable of resolving greater than 20MHz. The counter must be fitted with 10:1 probe.
2. A TV pattern generator providing, at least, a 1kHz tone at ± 20 kHz deviation.
3. General purpose oscilloscope (CRO).
4. Non-metallic trimming tools.

MAIN CHASSIS

Sound Detector (LI72)

Connect the oscilloscope to PL/SK BS15 pin 14. Connect the pattern generator at any convenient channel and adjust LI72 for minimum video signal on CRO display.

NICAM AUDIO BOARD (80158100)

Sound Detector (LS09)

Connect the oscilloscope to pin 8 of IS09. Connect the pattern generator at any convenient channel and adjust LS09 for maximum recovered audio.

(PS01)

Connect the oscilloscope to pin 20 of IS04. Adjust PS01 to give the same FM output as the NICAM output.

NICAM 5.824 MHz Clock (CS23)

Connect the frequency counter to pin 26 of IS01. Without any aerial input signal, adjust CS23 for 5.824 MHz (Range: 5.82390 MHz-5.82440MHz).

6.552 MHz clock (CS26)

Connect the frequency counter to pin 8 of IS01. Without any aerial signal, adjust CS26 for 6.5518 MHz (Range: 6.551699 MHz-6.55209 MHz).

SUB MODULE (30649700)

NICAM 16.384 MHz Demultiplexing Clock, if fitted (CW92)

With a NICAM signal present, connect the oscilloscope to pin 9 of IW98 and adjust CW92 for 25% mark/space ratio.

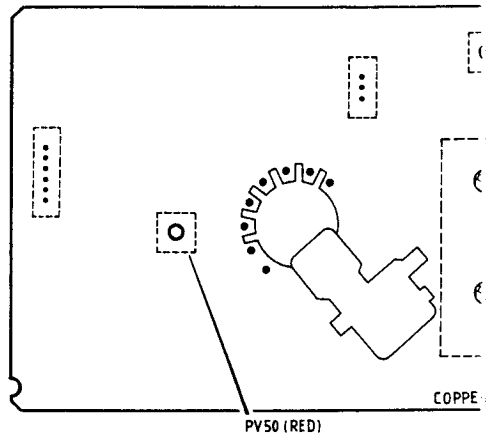
FASTEXT AND ON-SCREEN GRAPHICS BOARD (01V6251002)

6MHz Clock (CV07)

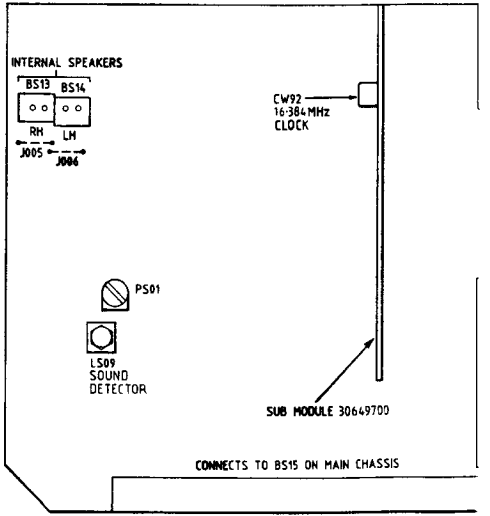
Connect the frequency counter to IV03 pin 17. Adjust CV07 for 6.0002MHz $\pm$ 200Hz.

On-Screen Display Oscillator Frequency (CV25)

Connect the frequency counter to IV05 pin 5. Obtain an on-screen display as per the instruction manual. Adjust CV25 for 5.7MHz $\pm$ 100kHz in order to centre the On-Screen Graphics display.



Tube Base Board 60062100 Adjustments



NICAM Stereo Board 801 Adjustment Diagram

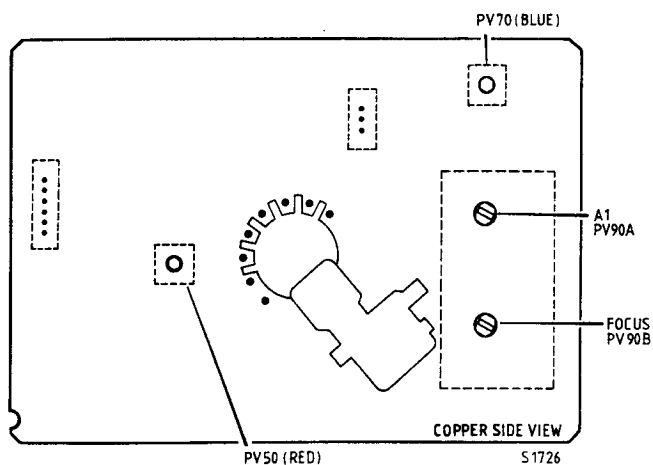
**FASTEXT AND
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BOARD (01V6251002)**

On-Screen Display Oscillator Frequency (CV25)

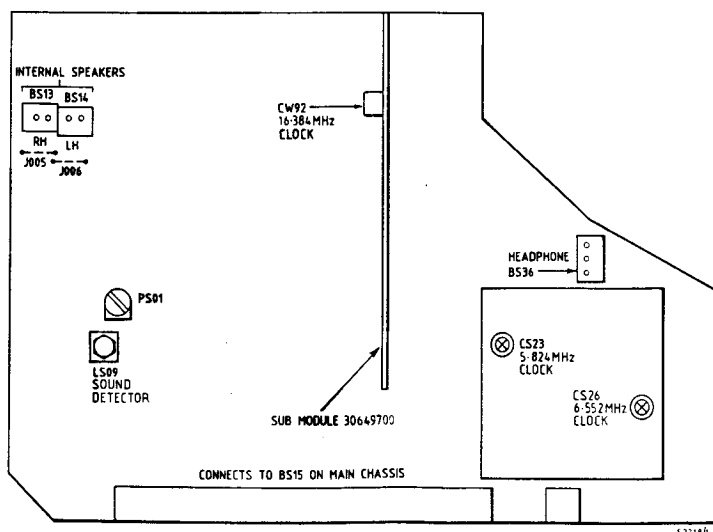
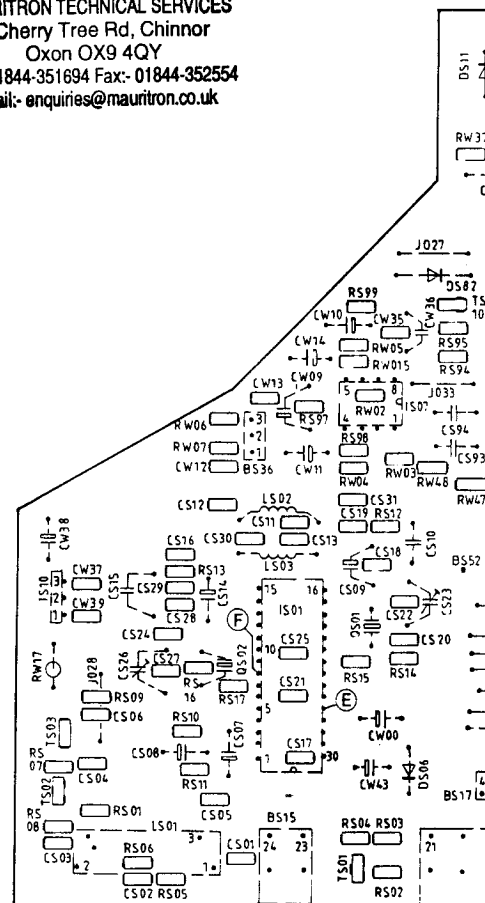
CV07
8MHz Clock

CV25
Frequency

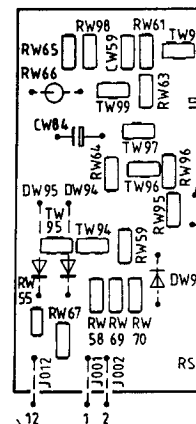
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Oxon OX9 4QY
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Email: enquiries@mauritron.co.uk

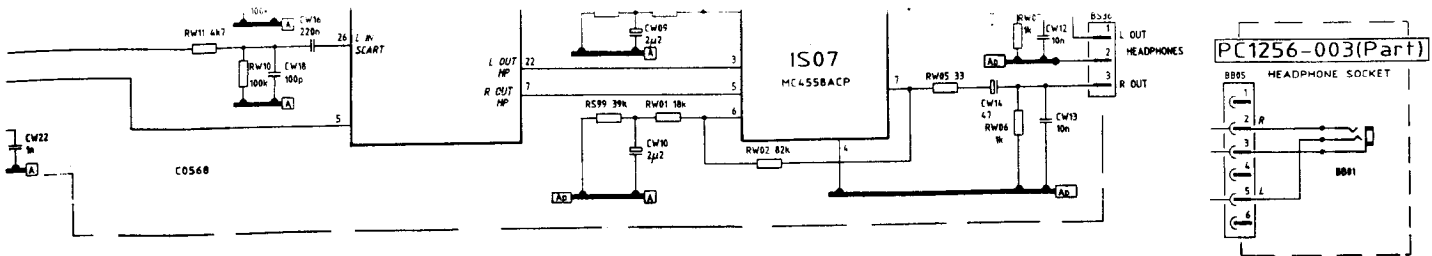


Tube Base Board 60062100 Adjustment Diagram

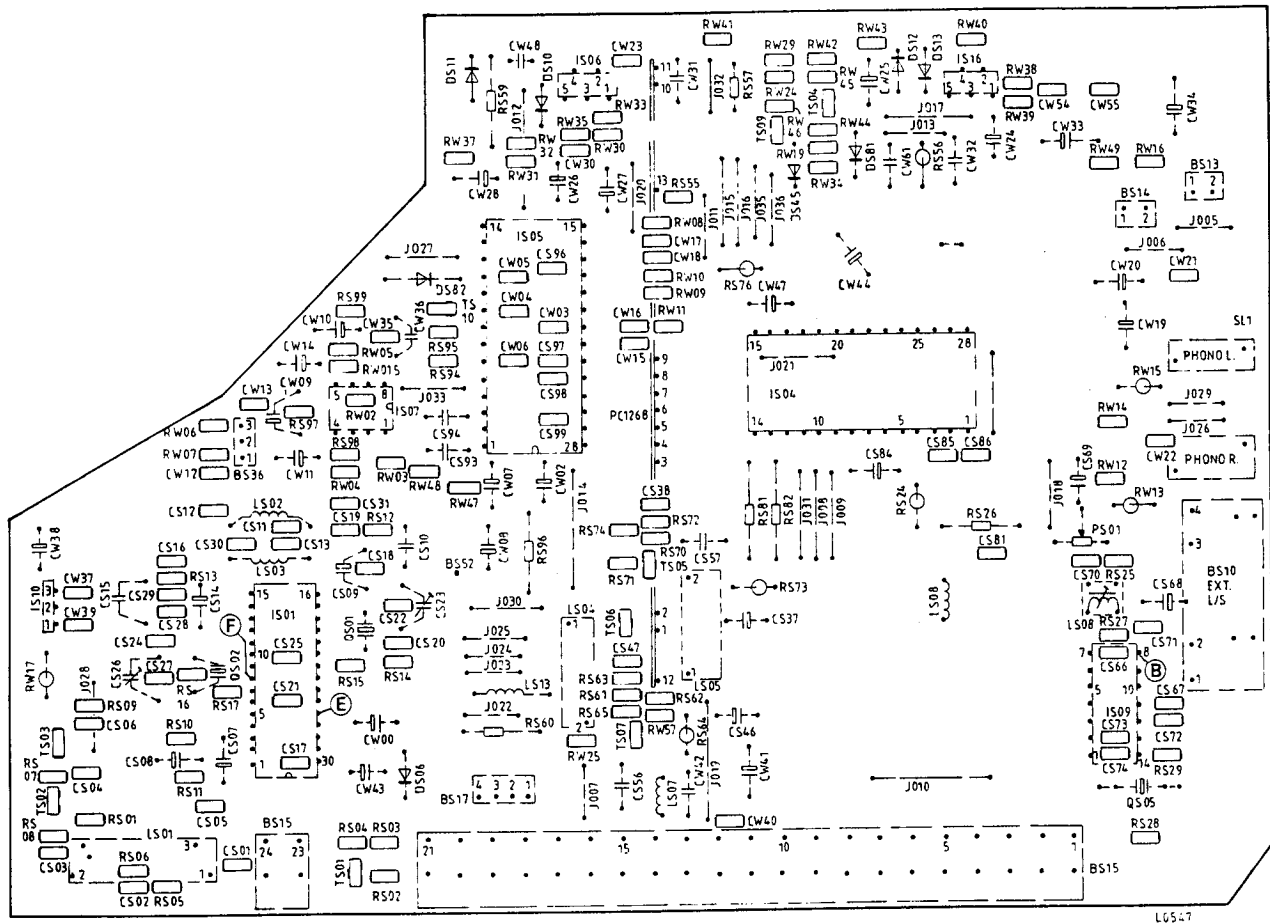


NICAM Stereo Board 80158100 Adjustment Diagram

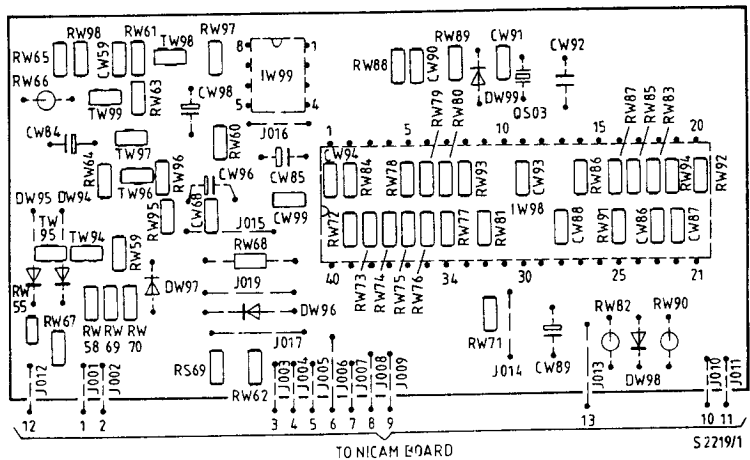




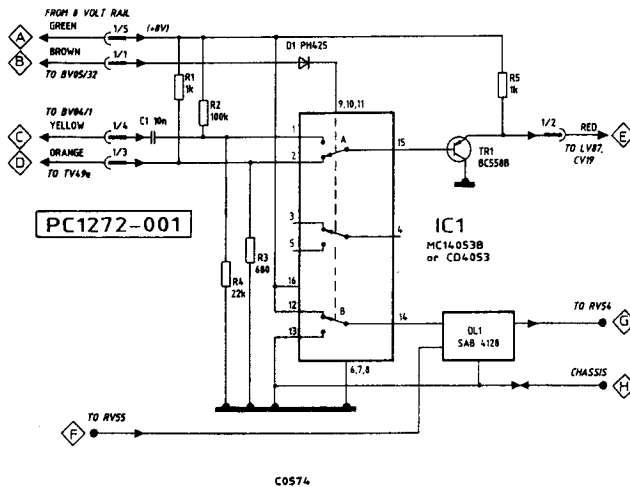
8100 and Sub Module 30649700 Circuit Diagram



Stereo/Audio Board 80158100
Component Location Diagram
-viewed through Copper Side

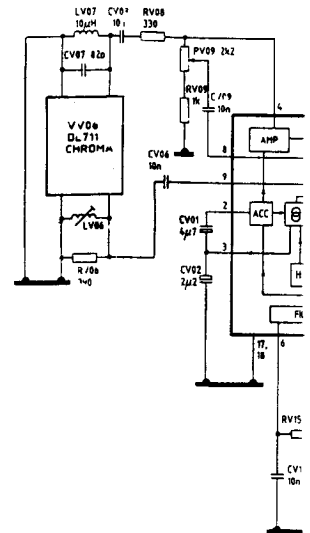


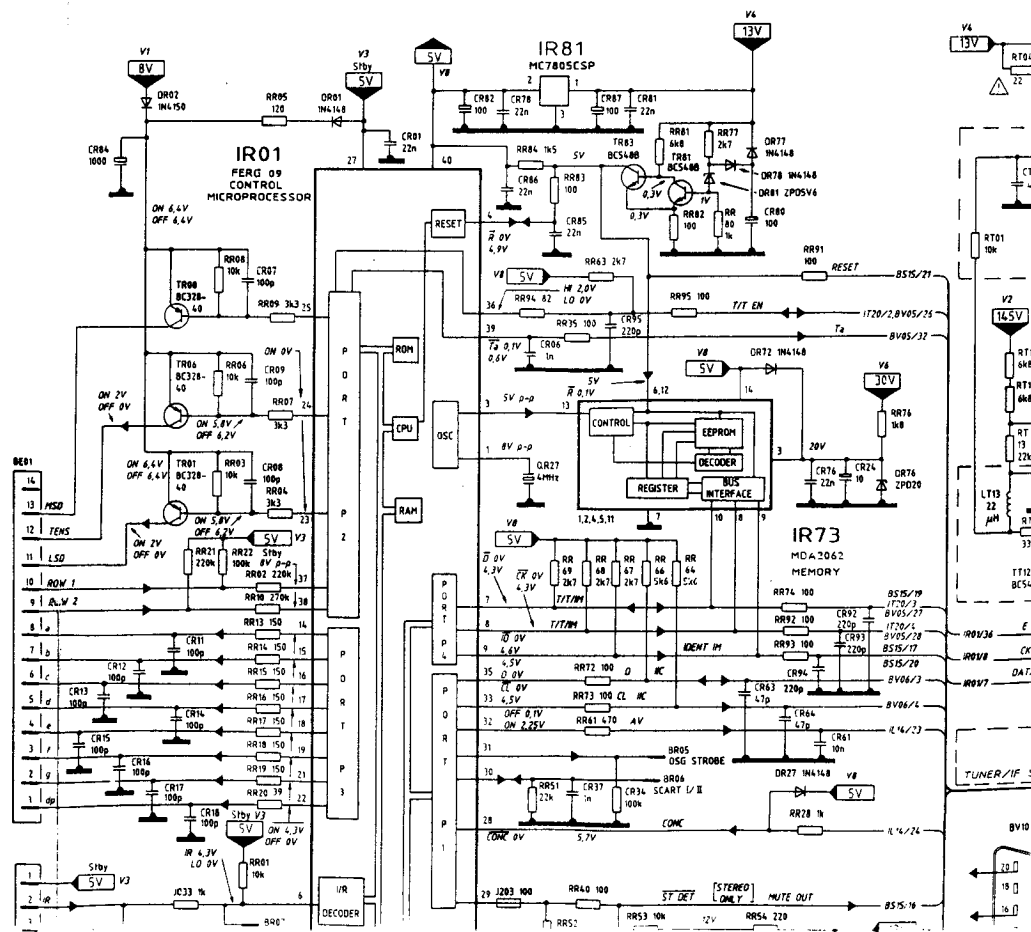
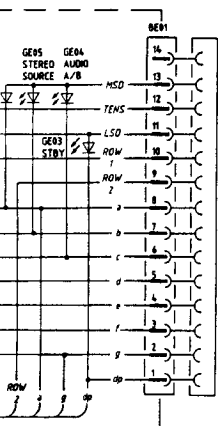
Sub Module 30649700
Component Location Diagram

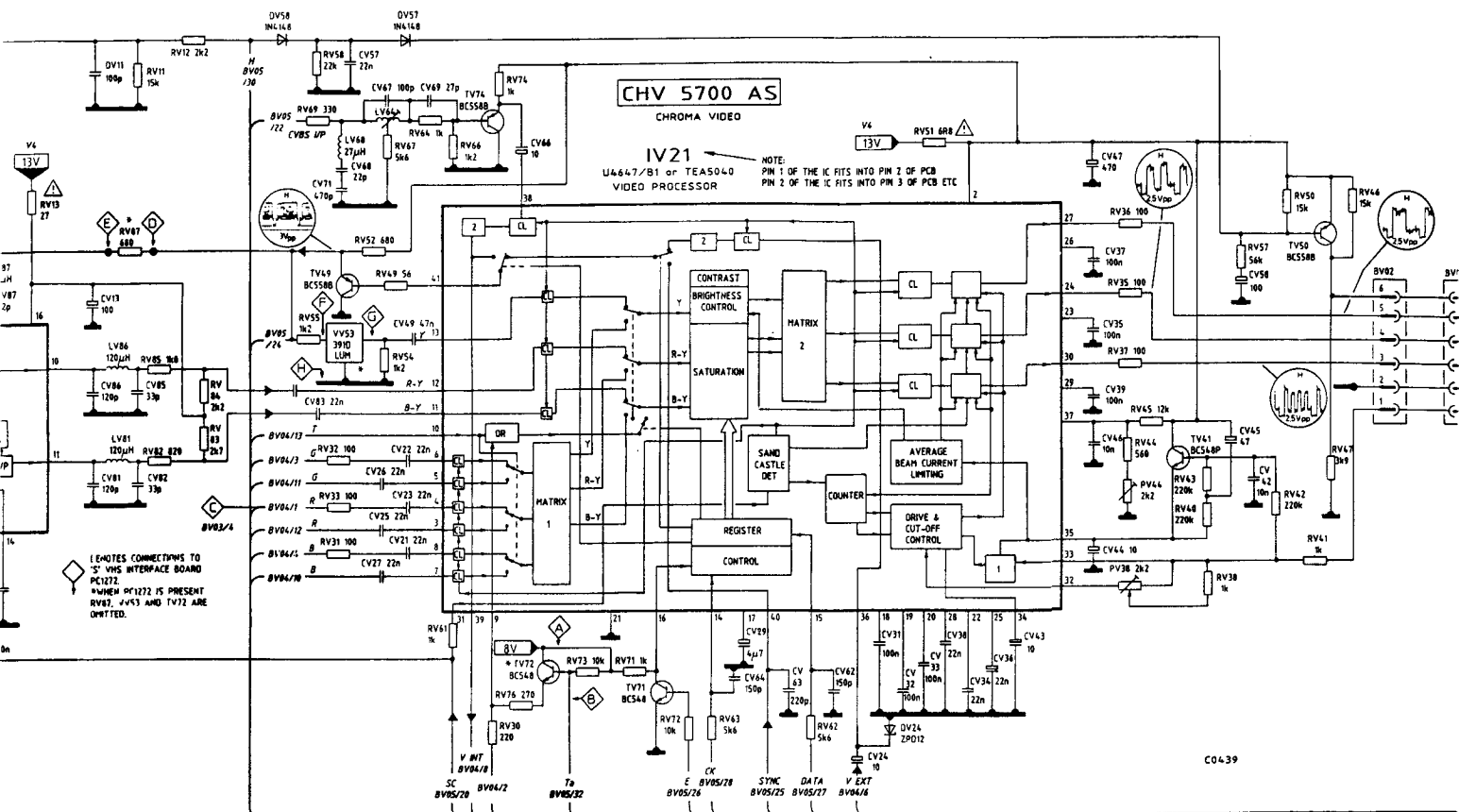


S-VHS Interface 50358300

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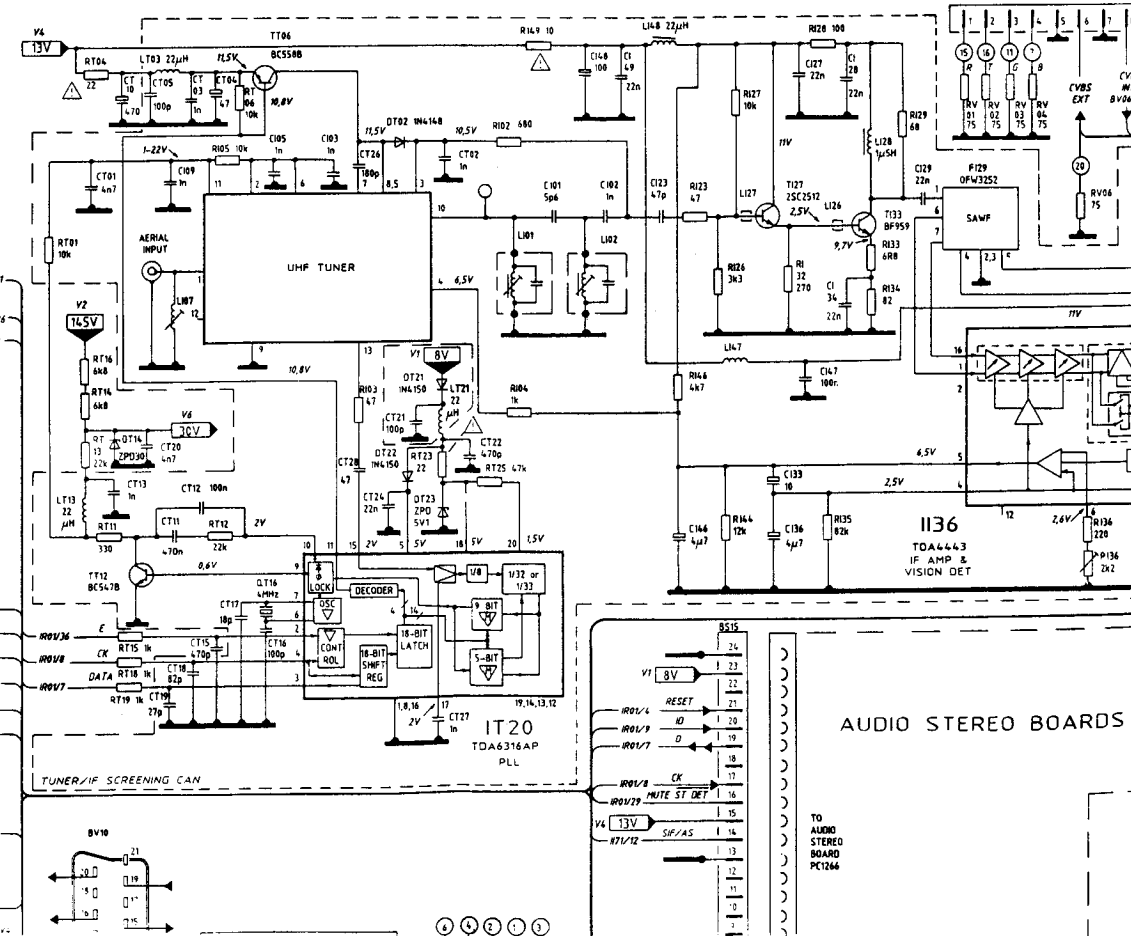
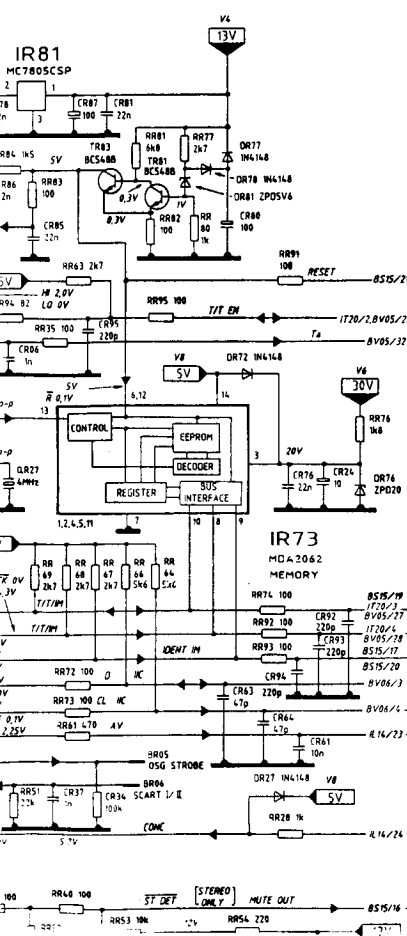






Chroma/Video 50358200

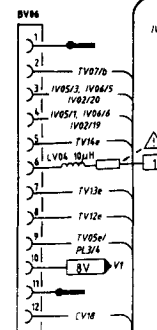
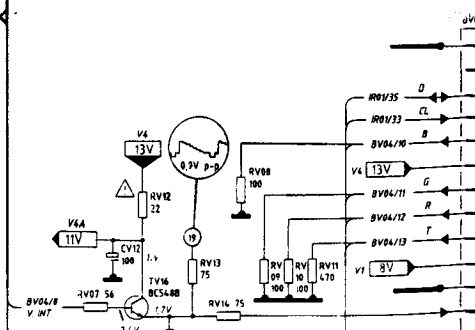
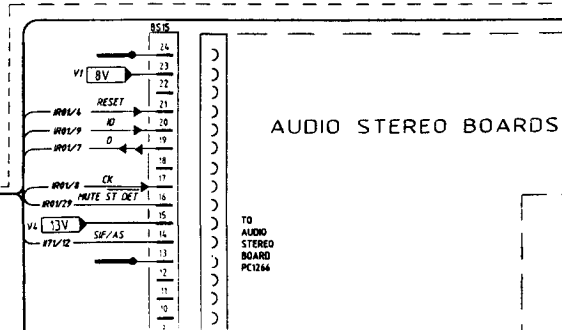
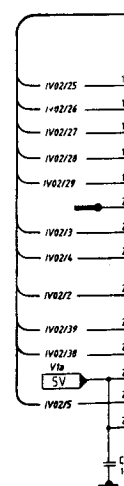
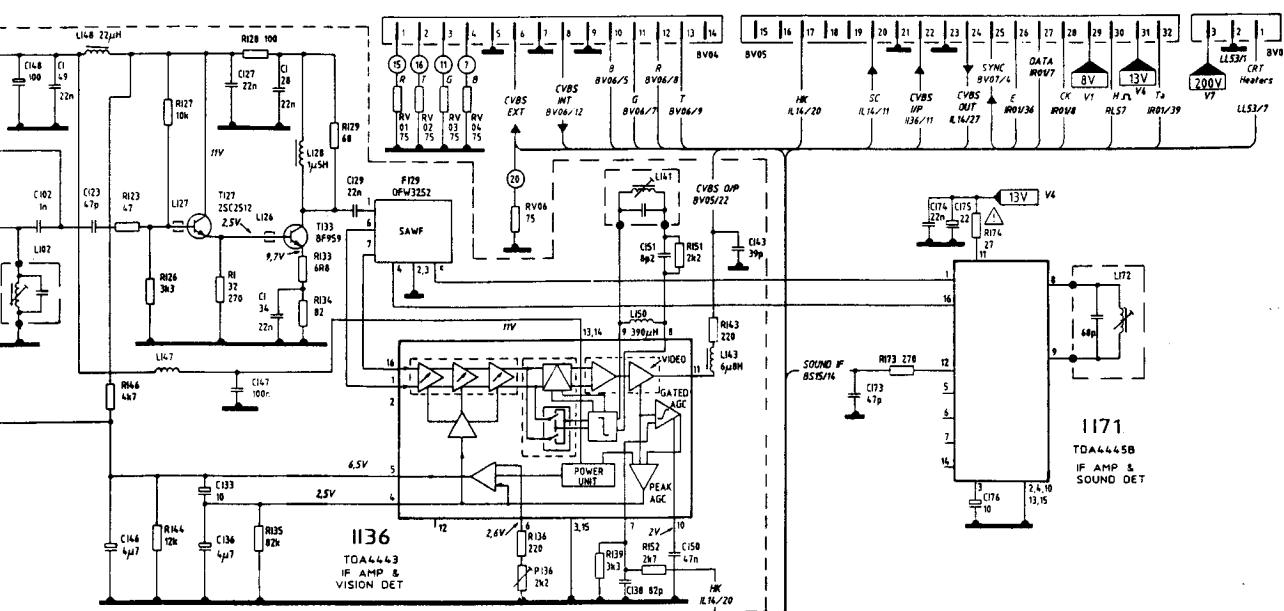
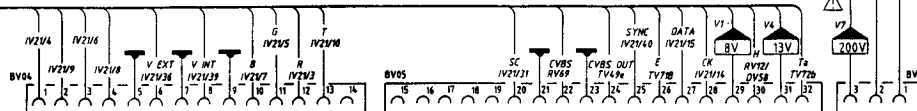
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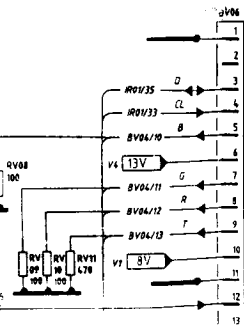


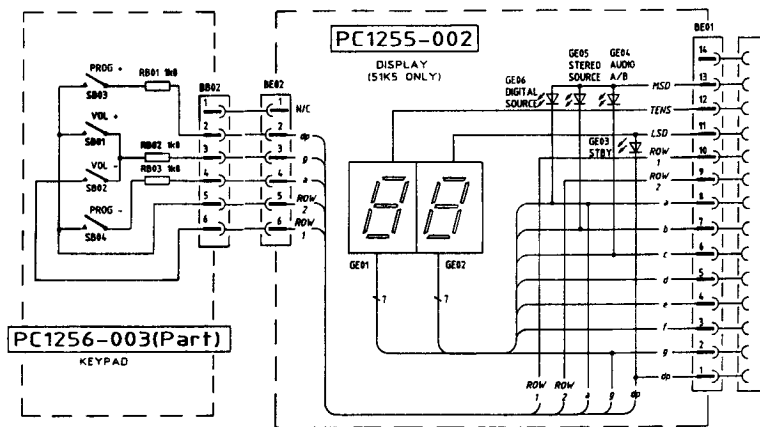
AUDIO STEREO BOARDS

TO
 AUDIO
 STEREO
 BOARD
 PC1266

CRT BASE

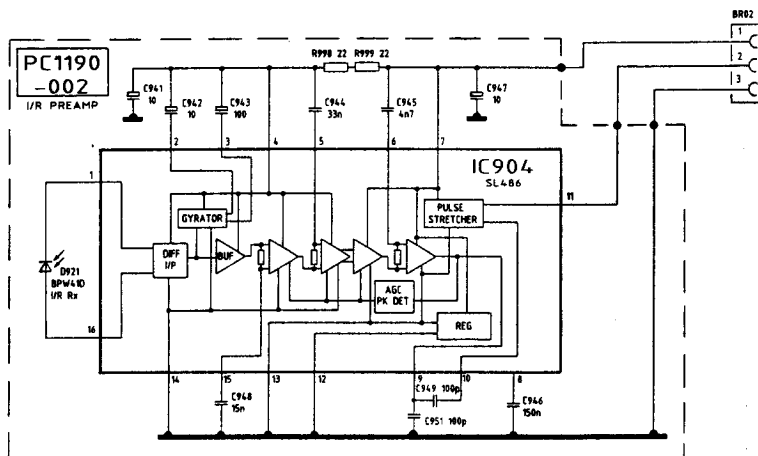




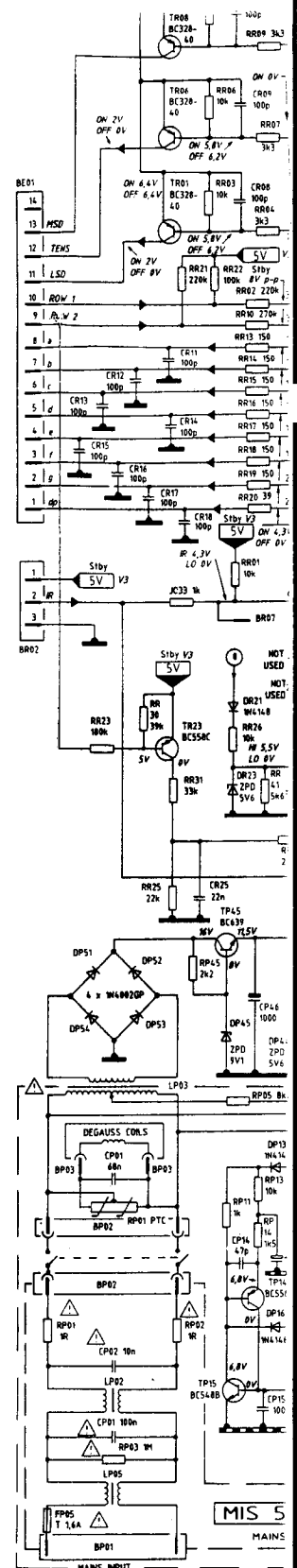


Keypad 01V6256003

LED Display 01V6255002



Infra-Red Preamp 01V6190002



Mains Filter 3009

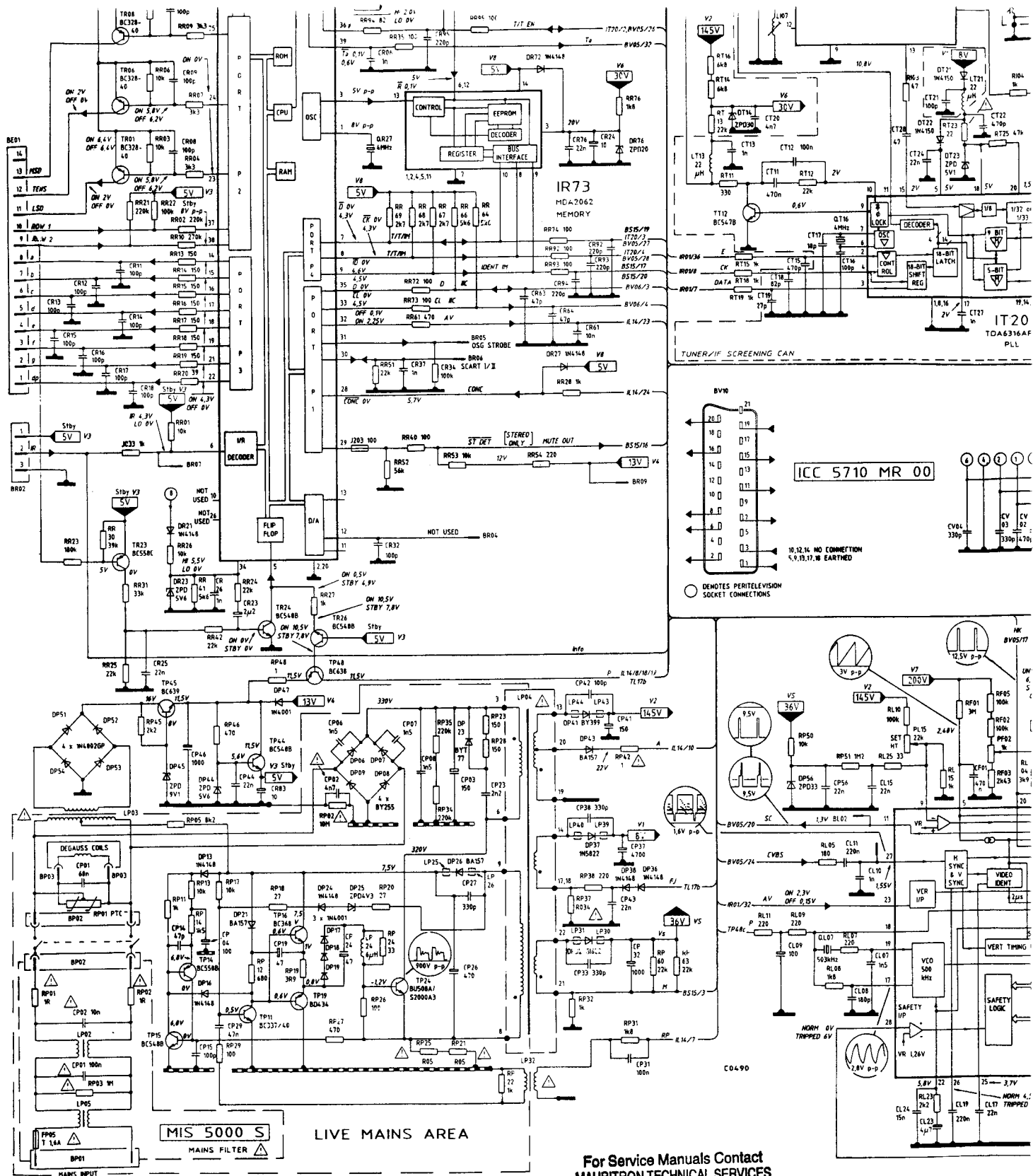
MODEL 51L5Q

CIRCUIT DIAGRAM

SPARES ORDERING

When ordering replacements always quote the model number, component reference (if known), description and part number.

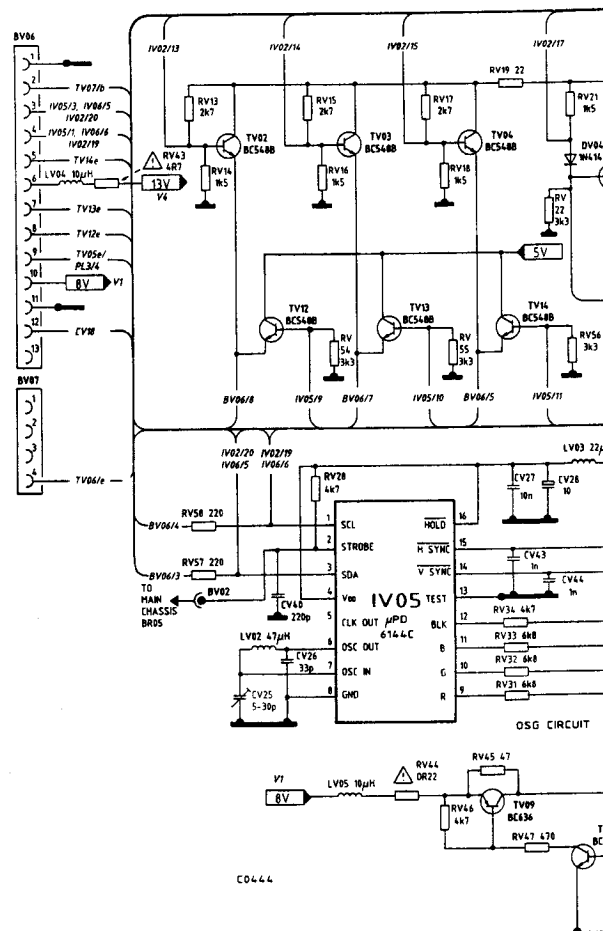
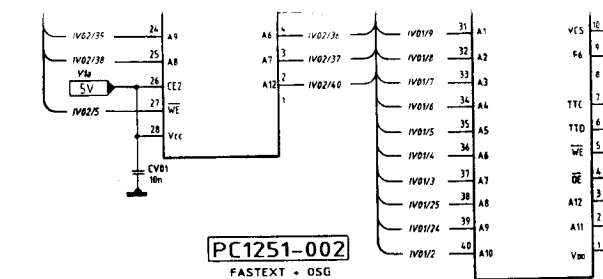
PCB Name/Assembly Type Number	Quote Part Number below when ordering spares
Model 51L5Q Main Chassis Assembly, ICC5 710 MR 00	10M4330002
CRT Base PCB Assembly, CRT 5513 S	60062100
Remote Control Transmitter Assembly, Type RH71J/2	10M4255001/2
RH71J/2 PCB Assembly, PC1665-002	01V6665002
Chroma/Video PCB Assembly, CHV 5700 AS	50358200
FASTEXT/On-Screen Graphics PCB Assembly, PC1251-002	01V6251002
Mains Filter PCB Assembly, MIS 5000 S	30091400
Infra-Red Preamplifier Assembly, PC1190-002	10M4102001
LED Display PCB Assembly, PC1255-002	01V6255002
Headphone Socket/Keypad PCB Assembly, PC1256-003	01V6256003
NICAM II Module Assembly, PC1266-004	80158100
NICAM Sub PCB Assembly, PC1268-001	30649700
S-VHS Interface PCB Assembly, PC1272-001	50358300



Mains Filter 30091400

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Main E



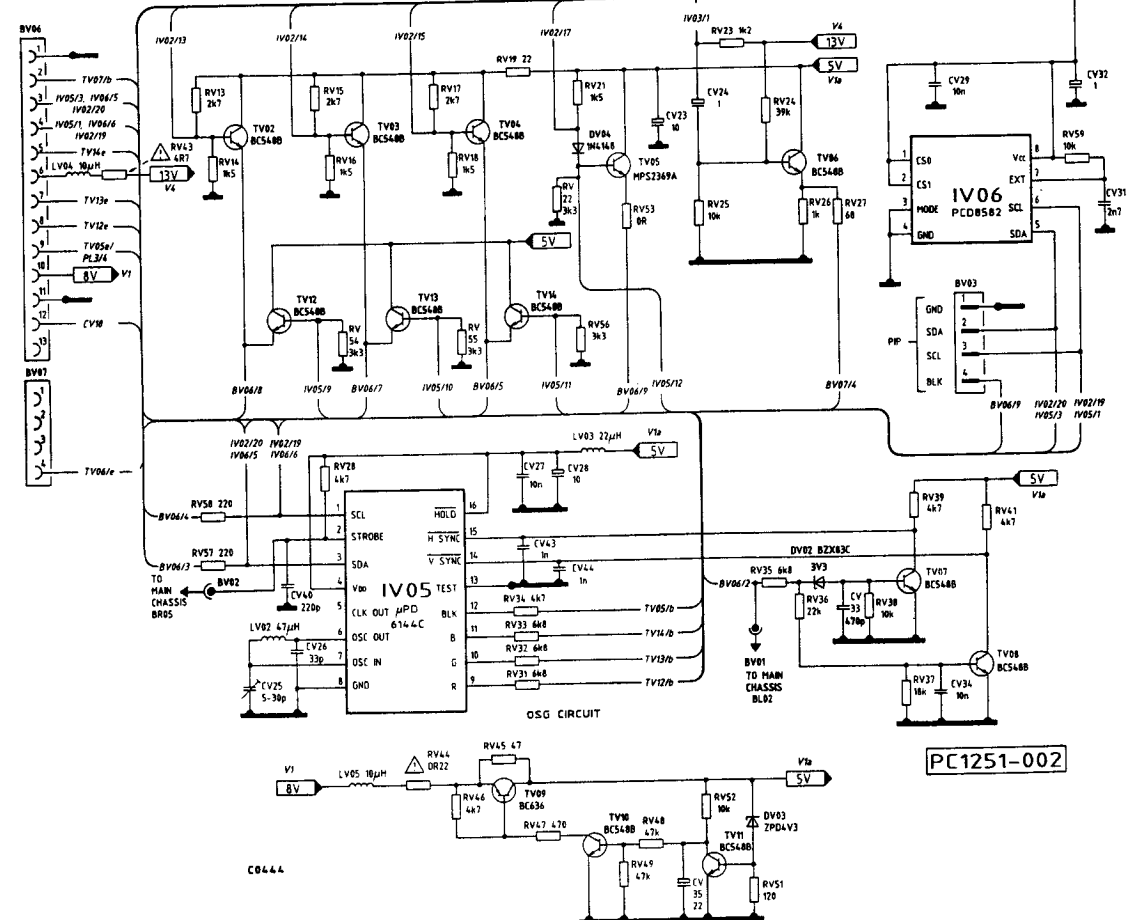
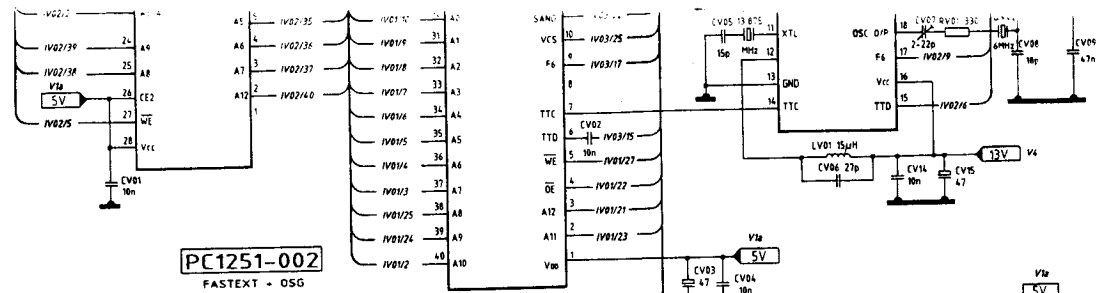
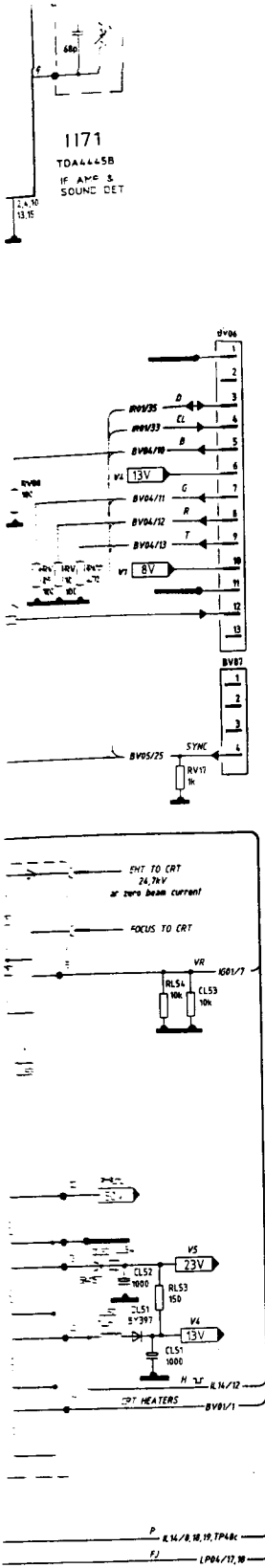
FASTEXT and On
01V6251002

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TEL: 081-8
FAX: 081-4

FERGUSON

00XM03500



FASTEXT and On-Screen Graphics
01V6251002

FERGUSON LIMITED

SERVICE DIVISION
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FAX: 081-443 1899. TELEX 264905 FERGSVC G.

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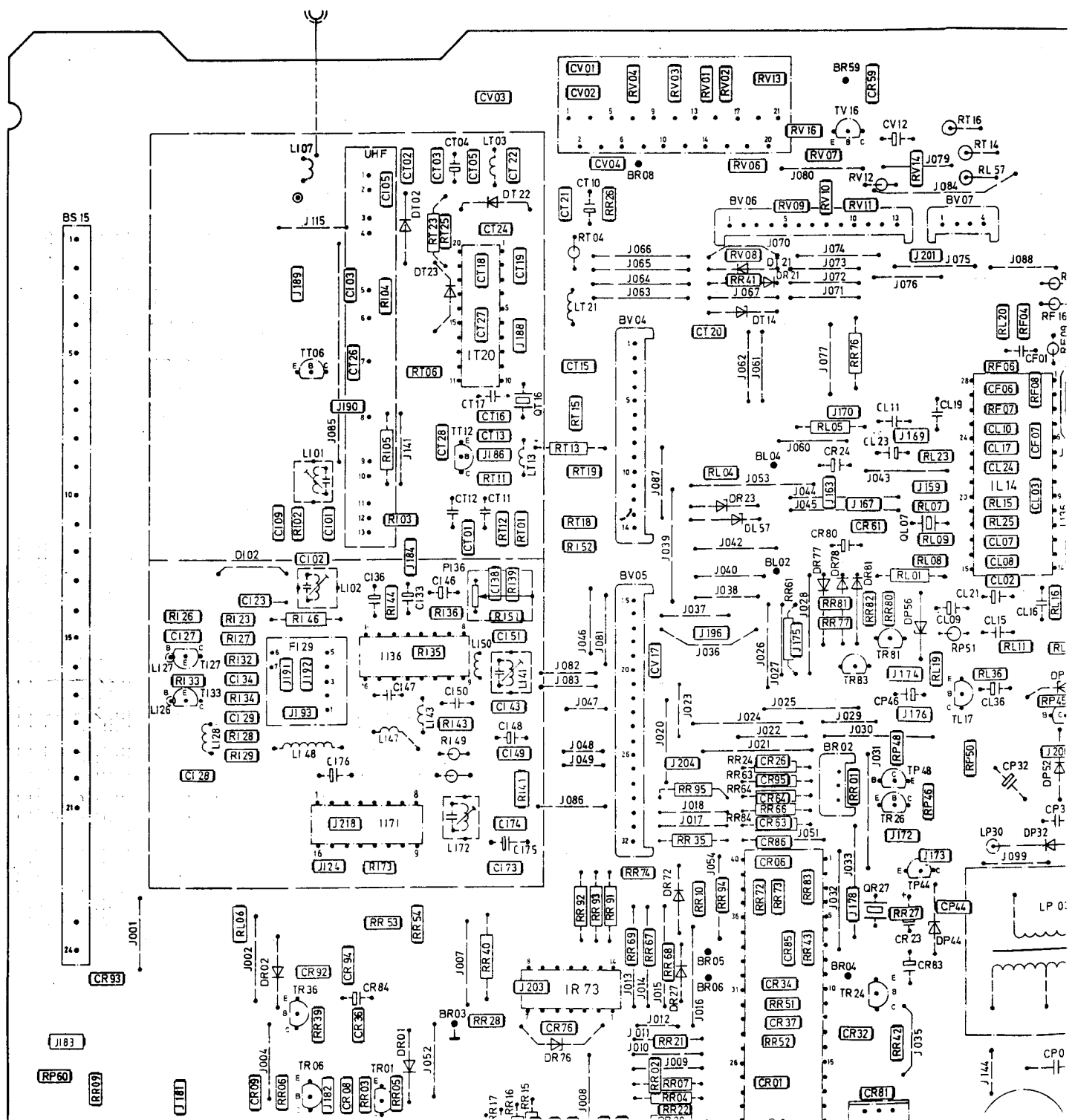
ICC5 COLOUR TV SERVICE INFORMATION

COVERING MODEL 51L5Q

SHEET TWO OF TWO

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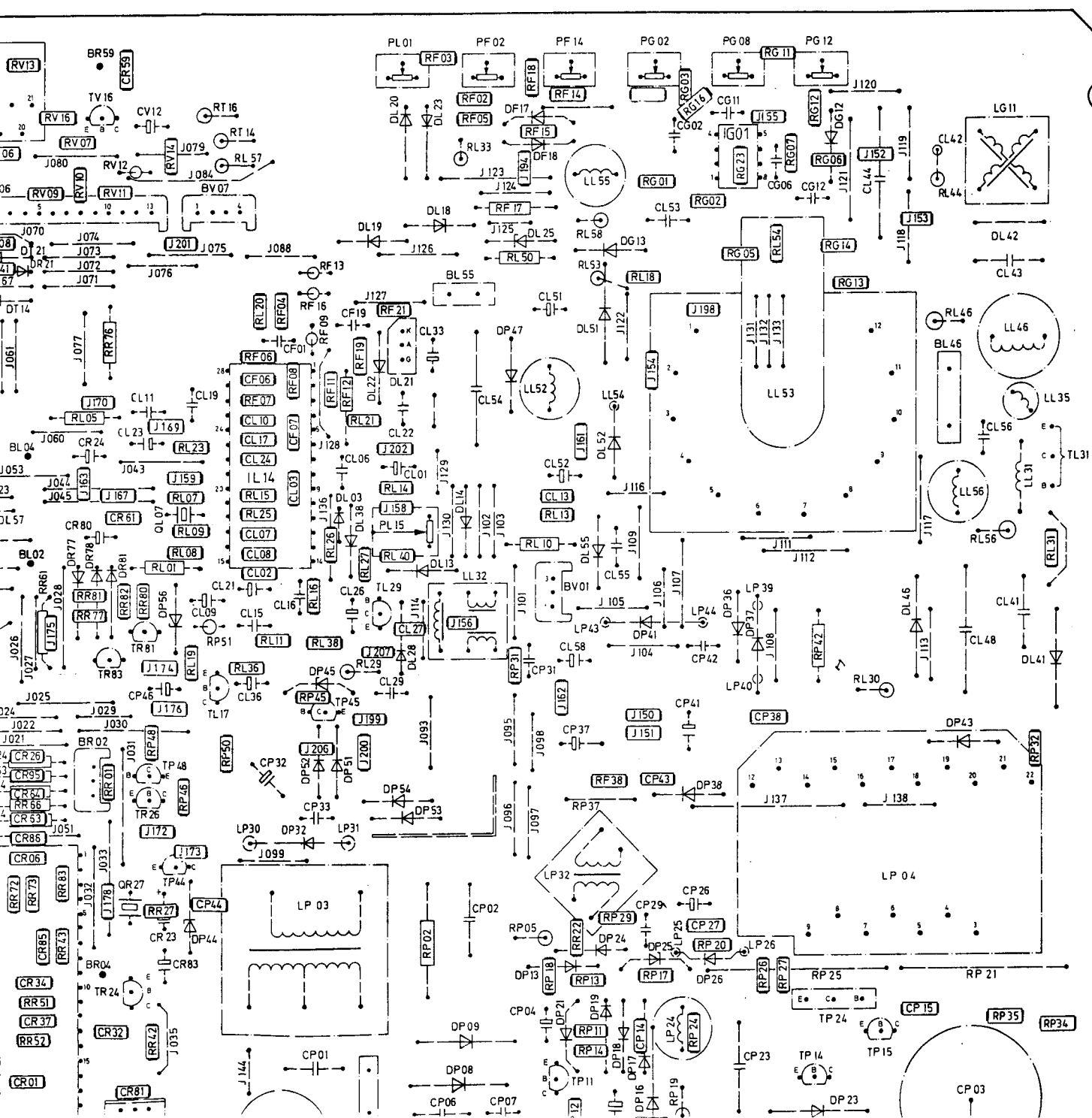


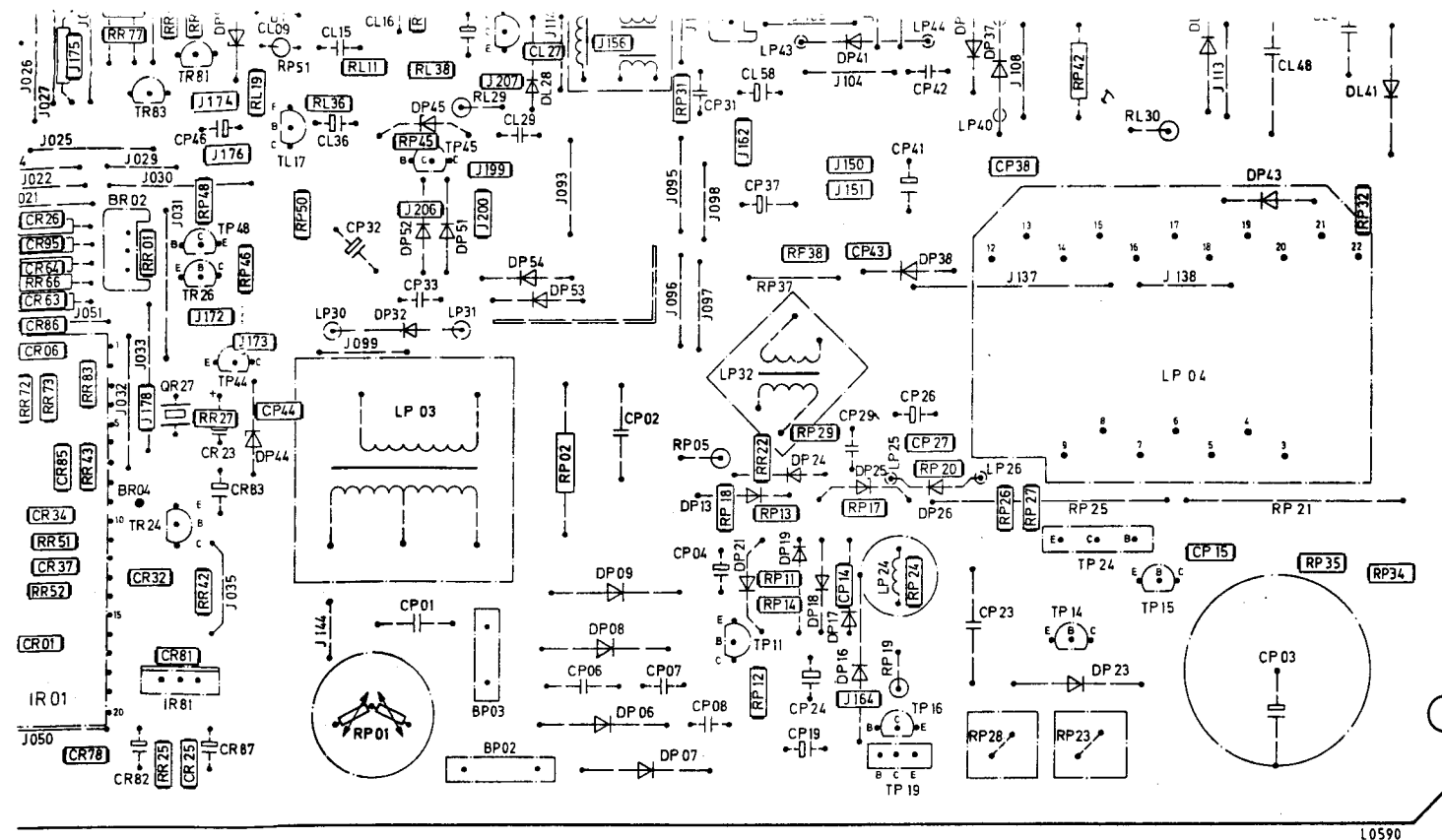
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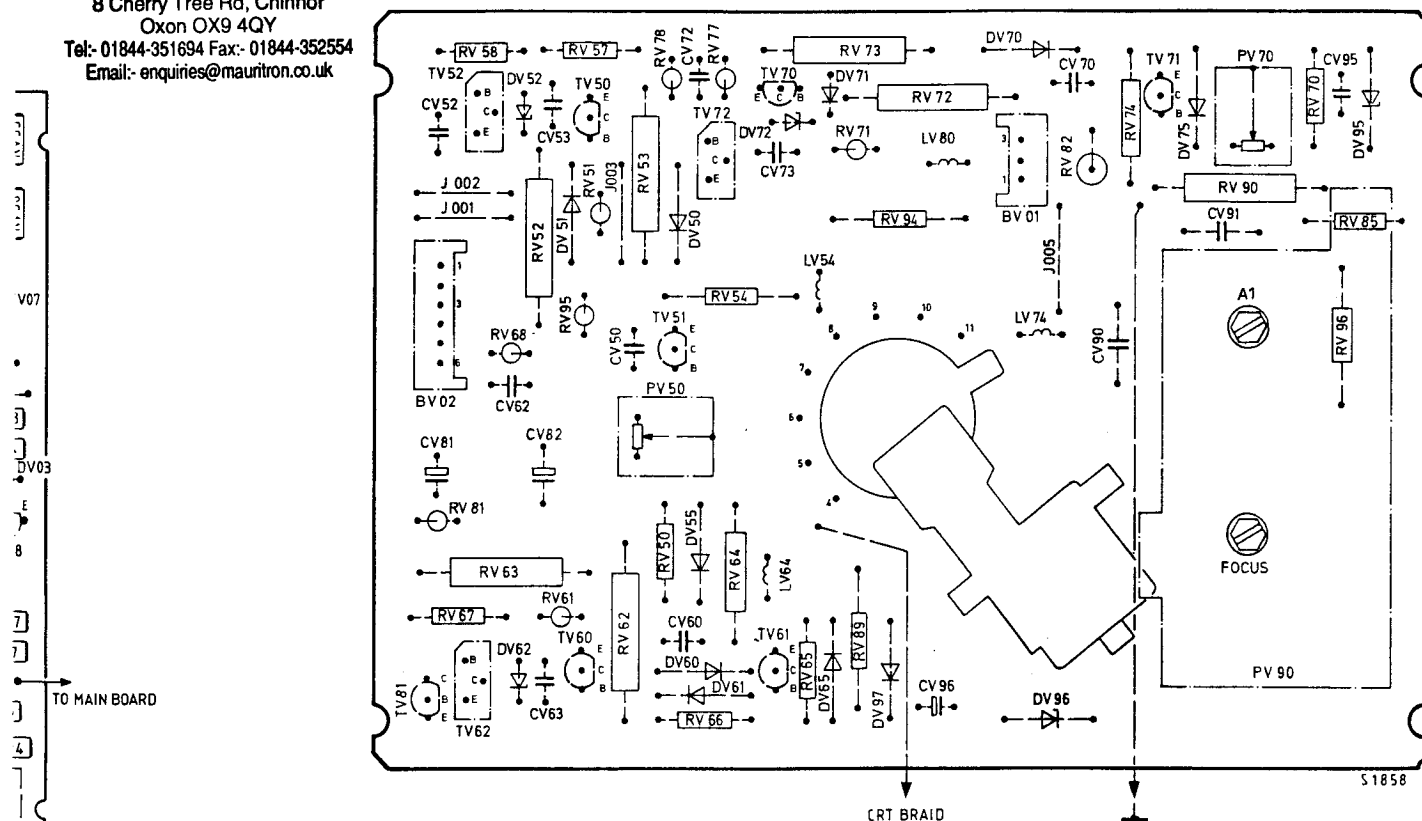




L0590

Component Location Diagram-viewed through Copper Side

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S1858

Tube Base Board 60062100 Component Location Diagram-viewed through Copper Side

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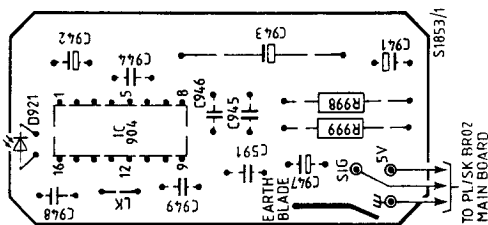
SERVICE DIVISION

PO BOX 1594, CROWN ROAD, ENFIELD, MIDDLESEX EN1 1DY.

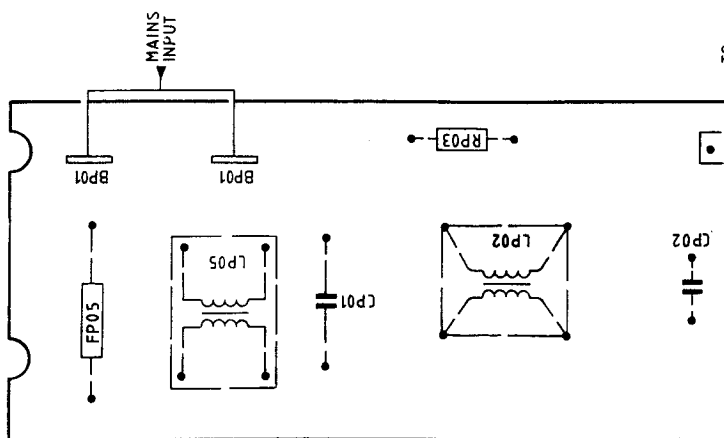
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FAX: 081-443 1899. TELEX 264905 FERGSVC G.

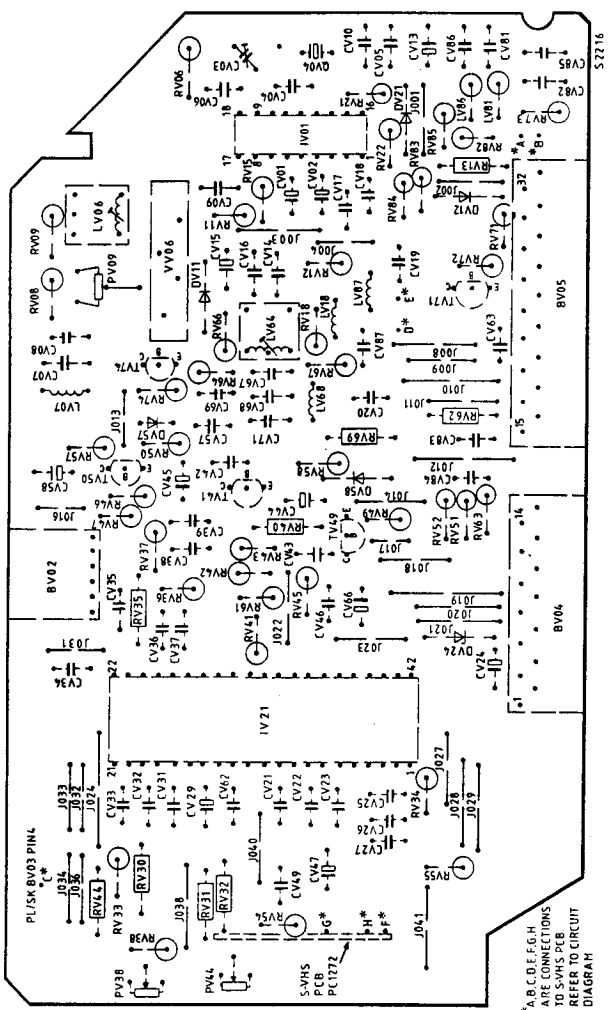
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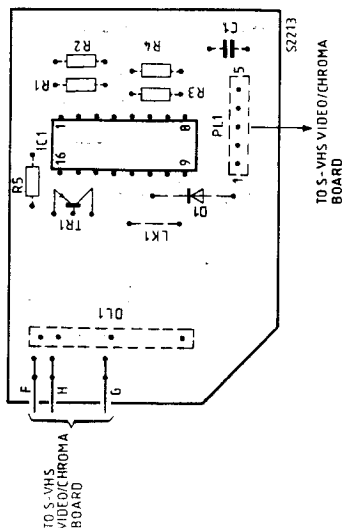
Infra-Red Preamplifier Board 01V6190002
Component Location Diagram-
viewed through Copper Side

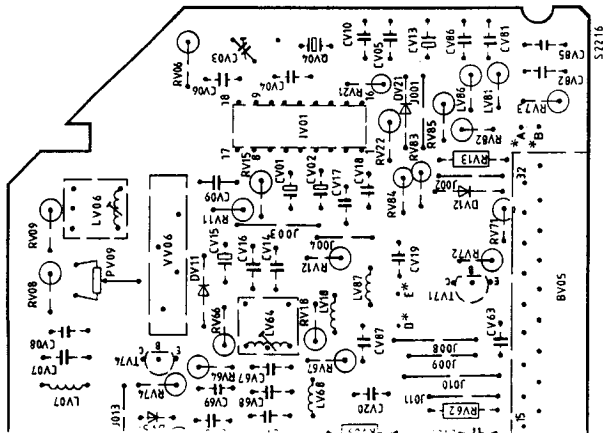


S-VHS Chroma/Video Board 50358200 Component Location Diagram-viewed through Copper Side

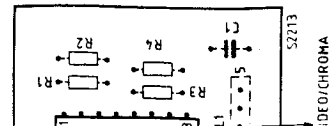


S-VHS Interface Board 50358300
Component Location Diagram
-viewed through Copper Side

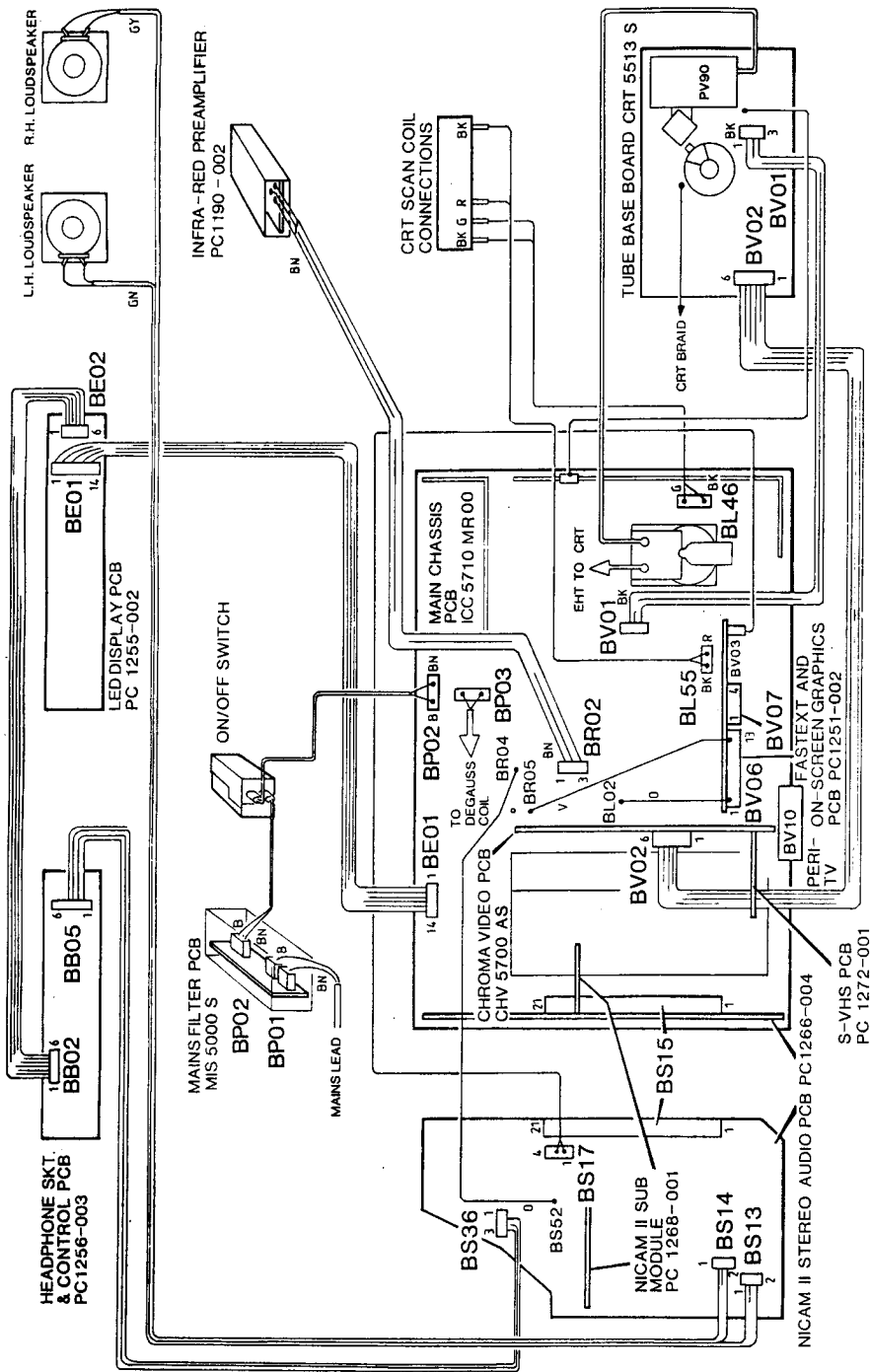




on Diagram-viewed through Copper Side

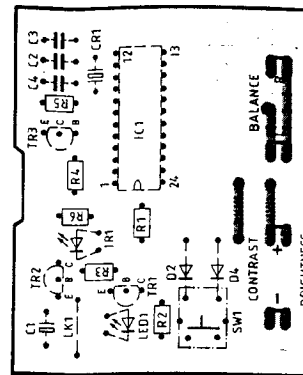


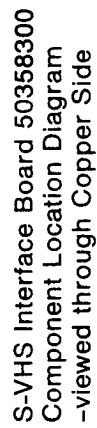
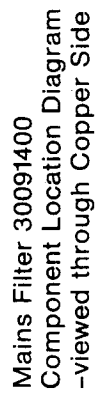
3300
n
e



Model 51L5Q Wiring Interconnections Diagram

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TO PLUGK BS36, NICAM STEREO PCB

TO PLUGK BE02, LED DISPLAY PCB

BB05

BB01

J002

SB04

SB03

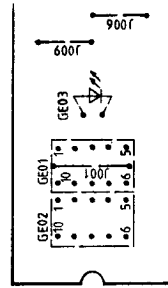
SB02

RB03

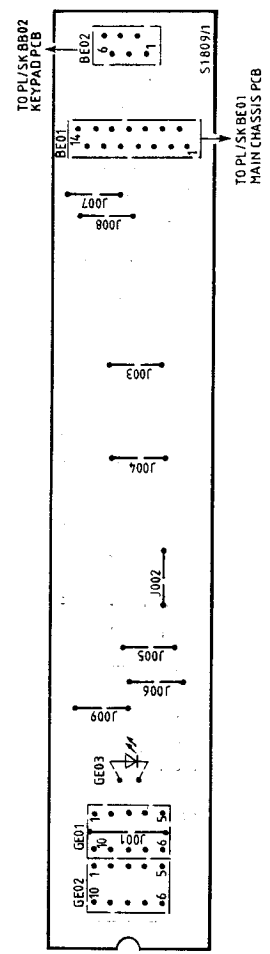
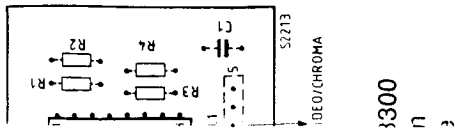
RB01

RB02

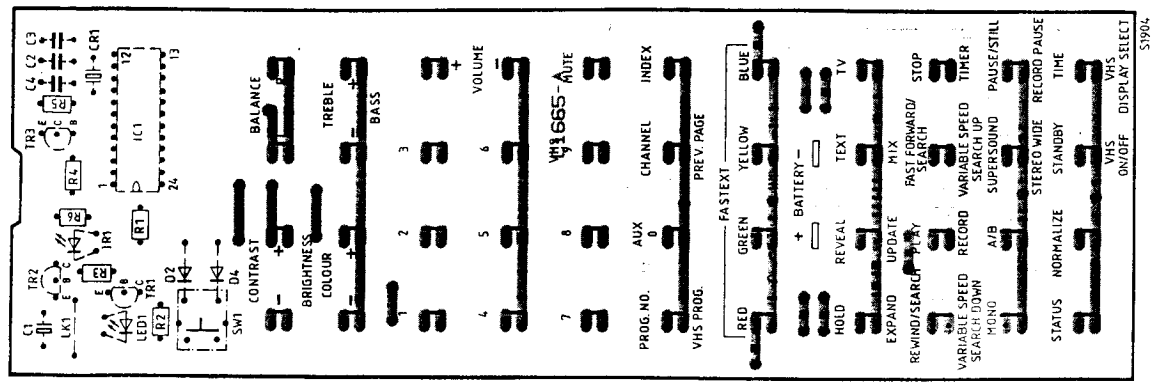
SB01

Headphone Socket and Control Board 01V6256003
Component Location Diagram-viewed through Copper Side

LED Display Board Component List



LED Display Board 01V6255002
Component Location Diagram-viewed through Copper Side



RH71J/2 Transmitter Board 01V6665002
Component Location Diagram
-viewed through Copper Side