

General Information

1995
Chassis: Telra PL2
CRT's:
A51-230X
A48KCS12XX
A48JRV90X01
A48KCS12XX01
A51JSY61X03
51GG95X-TC
A48JRV50X64
Remote Control:
830000012928
Door Flap: 905100007021
Main Power Button:
905111007030

Specifications

Picture Tube: 20" measured diagonally
 Colour System: PAL I
 Channel Coverage: UHF band channels 21 - 69 (470 - 862 MHz)
 Tuning System: 40 channels
 External Antenna: 75 ohm DIN type
 Speaker: 16 ohm x 2
 16 ohm tweeter x 2
 Audio output (RMS): 4W maximum
 AV Connection: 21 pin SCART
 Dimensions: 485(D) x 510(L) x 440(H) mm
 Weight: 19.5Kg
 Mains Supply: AC240V - 50Hz
 Power Consumption: 77W

Service Adjustments

Colour Television Adjustments

High Voltage Test

There is no high voltage adjustment component on the chassis to measure high voltage.

- 1: Connect the + probe of high voltage tester to the anode of CRT.
- 2: Adjust contrast and brightness to minimum.
- 3: Measure the high voltage as 23.5KV, that voltage is 24.5KV for 20" (51cm) screen size.
- 4: For maximum brightness, high voltage must be 22.5KV for 51cm.

Adjustment of Horizontal Oscillator

For the adjustment of horizontal oscillator C601 capacitor must be SHORT-CIRCUIT. Adjust P601 until an optimum stationary picture.

Adjustment of Horizontal Position

- 1: Apply test signal of cross-hatch with circle to RF input.
- 2: Centre the circle by using P601.

Adjustment of Supply Voltage

- 1: Adjust the volume, brightness and contrast to minimum.
- 2: Adjust the supply voltage on the pin of

Focus Adjustment

Adjust the thickness of lines until being minimum, by focus trimpot on the EHT transformer. By using cross-hatch or multi-burst test pattern.

39.5MHz PIF Adjustment

- 1: Disconnect the IF output of tuner from input.
- 2: Apply 39.5MHz white picture to IF input.
- 3: Connect the oscilloscope to video output.
- 4: Adjust the video signal by using L206 coil shown in fig. 1.
- 5: Make AFT adjustment after 39.5MHz adjustment.

AGC Delay Adjustment

- 1: Apply PAL colour bar signal which is 60dB uV amplitude (1mV) to the RF input.
- 2: Turn P200 which is AGC delay control trimpot clock-wise up to the end.
- 3: Adjust P200 until you find a picture without snow (noise).

AFT Adjustment

- 1: Disconnect the IF output from IF input.
- 2: Apply 39.5MHz signal with a PM5518 Phillips pattern generator to IF input.
- 3: Connect a digital voltmeter to AFT pin of IF.
- 4: Adjust L207 coil until the voltage of AFT pin of IF is 16V DC.

- 5: Re-connect the IF input.

Colour Sync Adjustment

- 1: Apply colour bar signal to RF input.
- 2: Connect a 8K2 resistor between the pins 8 and 16 of IC500 also connect pin 12 to ground (adjust contrast, brightness and colour to minimum).
- 3: Adjust the colour synchronisation by using CT500 trimmer cap to the best position.
- 4: Remove 8K2 resistor and ground connection.

Colour Gain Phase Adjustment

- 1: Apply PAL demodulator signal to RF input.
- 2: Connect the oscilloscope to the blue signal output.
- 3: Adjust the hanover bars to G-Y=0 level by using L601 coil then make minimum -V, +V changing of the hanover bars by using P500. Likewise test the other alternatives.

Signal: colour bar pattern.

Adjust: P500 minimum hanover bars.

SIF Detector Adjustment

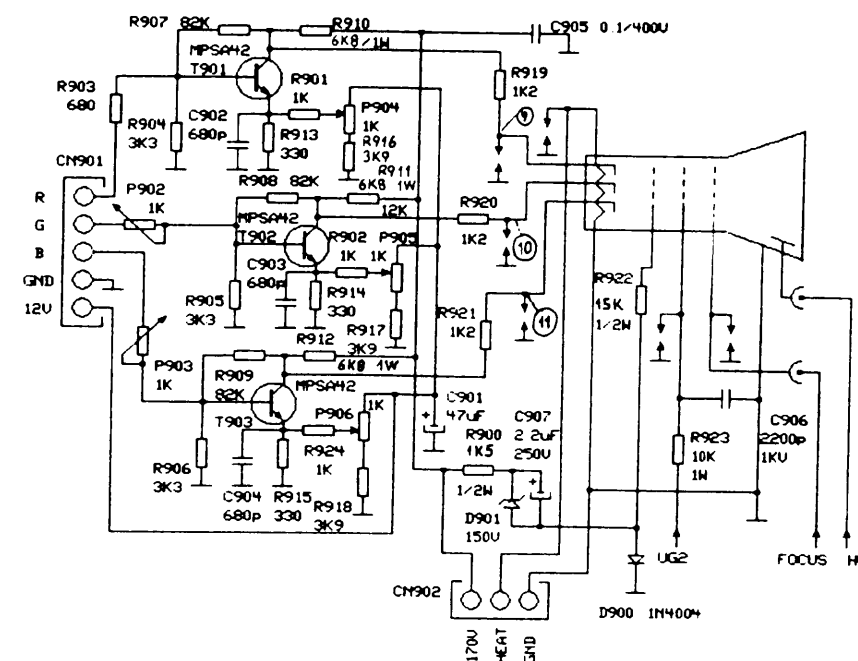
- 1: Apply 1KHz sound signal with test pattern to RF input.
- 2: Adjust the maximum sound output by using L208 which is SIF detector coil.

White-Balance Adjustment

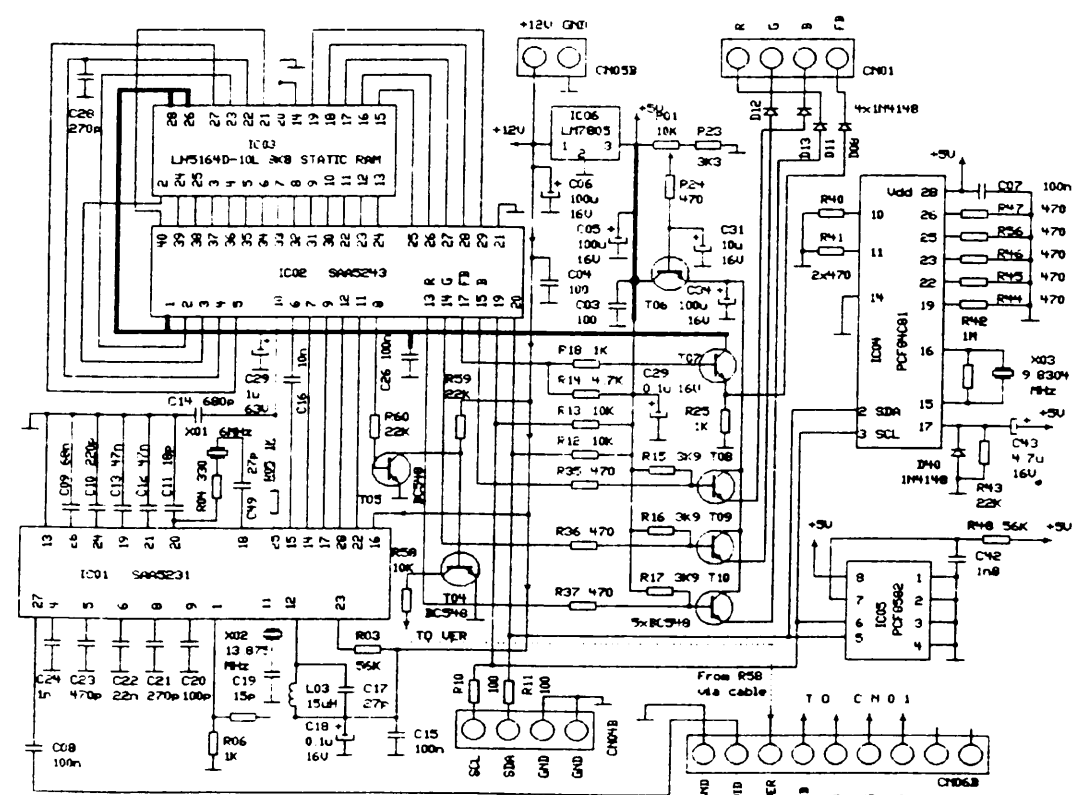
- 1: Apply only white pattern to RF input and wait 15 minutes for heating, to allow CRT to reach stable tempera-

- ture.
- 2: Adjust P904, 905, 906 which are RGB bias control trimptots to anti clockwise at rear side.
- 3: Adjust P902 and ,903 which are G, B driver trimptot, to mid point.
- 4: Adjust brightness, contrast and colour to minimum.
- 5: Turn the screen voltage trimptot on the EHT transformer to clockwise until any visible picture appears on the screen.
- 6: Adjust brightness to 15% dark picture.
- 7: Adjust grey level by using P904, 905, 906 an ideal level.
- 8: Adjust brightness and contrast to max. Then adjust P902 and P903, which are G, B driver trimptots, until you obtain a white level IF appears any colour on screen.

CRT Diagram



Teletext Diagram



Remote Control Diagram

