

Product Name :
Colour TV Training

Product Code :
NLAB-ELECTRONICSAB210032



Description :

Colour TV Training

Technical Specification :

Colour TV Trainer is an ideal training equipment to teach the operation of colour TV receivers. The complete circuit of colourTV Receiver is printed on single PCB. Sectionwise coloured printing on PCB helps in easy understanding of function of different blocks. More than 50 test points allow the analysis and monitoring of the signals in different sections. It safe to operate because all the test points are protected against accidental shortcircuits. By using the fault simulation method, it is possible to introduce the most common breakdown and their rectification. Technical manual includes circuit diagram with component list of each section. Test point details with typical voltages and wave forms are provided in the manul. The Trainer has been specially designed with Sliding Main Board with locking facility. The detachable CRT Unit is another feature. It can also be used as a normal desktop Colour TV Receiver.

TV Receiver in open form with all components&controls placed on single PCB

Each circuit block shown in different colour for easy identification

Solderless fault creation&Rectification

Legend printing on PCB

More than 50 test points

Compact Design-Sliding Main board with locking facility

Can be used as Desktop Colour TV

Fully documented Operating Manual with glossary of terms

Manual and remote control operation

Detachable CRT Unit.

Experiments that can be performed

Study of RF-Section through test points, fault simulation&rectification

Study of VIF- section through test point, fault simulation&rectification

Study of Video/Chroma section through test points, fault simulation&rectification

Study of System Control Section through test points, faults simulation&rectification

Study circuit of Horizontal&Vertical Oscillator&Output sections

Study oc circuit of Horizontal&Vertical output sections through test points fault simulation&rectification

Study of R-GBvideo output Section

Study of Audio Sound section and many more.

Technical Specifications:

Standard : CCIR-B-PAL-G, 625 Lines

Channels : 230 2-4VHP: I (VL), 5 - 12VHP III (VH), 12 - 100 :BAND IV&V, else : SBAND & HYPERBAND

Picture Tube Size : 36cms. Diagonal

RF Input Impedance : 75W

Circuit Blocks : System Control Circuit, Video IF, Sound, Tuner Section, Horizontal Oscillator, Horizontal Output, Vertical Oscillator, Vertical output, Video&Chroma Section, Power Supply, AV sections

ON Screen Display to set : Volume Brightness, Contrast, Colour Channel&Band Selection Tuning

Panel Control : ON-OFF Switch, Stand by MenuVol + / - Prog + / -

Remote Control Function : Volume, Brightness, Stand by, Colour, Contrast, Channel Selection, Audio Mute, AV Mode, Zoom, Swap, Scan Child Lock

PCB Size : 475 x375mm

No. Pf Faults : 21

No. of test Points : 55

I.F. Frequency : Video - 38.9MHz, Audio - 33.4MHz

Speaker Size : 50 x125mm

Accelerating Potential : 24KVmax

Operating Voltage for EHT : 110V

Mains Supply : 230V $\pm 15\%$, 60Hz on request

Power Consumption : 75VA(Approx)

Dimensions : W590x D490 x H525

Weight : 19Kg. (Approx)

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