

Colour TV Trainer is an ideal training equipment to teach the operation of colour TV receivers. The complete circuit of colour TV 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 manual. 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.

01. TV Receiver in open form with all components & controls placed on single PCB
02. Each circuit block shown in different colour for easy identification
03. Solderless fault creation & Rectification
04. Legend printing on PCB
05. More than 50 test points
06. Compact Design-Sliding Main board with locking facility
07. Can be used as Desktop Colour TV
08. Fully documented Operating Manual with glossary of terms
09. Manual and remote control operation
10. Detachable CRT Unit.



Experiments that can be performed

01. Study of RF-Section through test points, fault simulation & rectification
02. Study of VIF- section through test point, fault simulation & rectification
03. Study of Video/Chroma section through test points, fault simulation & rectification
04. Study of System Control Section through test points, faults simulation & rectification
05. Study circuit of Horizontal & Vertical Oscillator & Output sections
06. Study of circuit of Horizontal & Vertical output sections through test points fault simulation & rectification
07. Study of R-GB video output Section
08. study of Audio Sound section and many more.

Technical Specifications:

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| 01. Standard | : | CCIR-B-PAL-G, 625 Lines |
| 02. Channels | : | 230 2-4VHP: I (VL), 5 - 12VHP III (VH)
12 - 100 : BAND IV & V, else : SBAND & HYPERBAND |
| 03. Picture Tube Size | : | 36cms. Diagonal |
| 04. RF Input Impedance | : | 75W |
| 05. 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 |
| 06. ON Screen Display to set | : | Volume Brightness, Contrast, Colour Channel & Band Selection Tuning |
| 07. Panel Control | : | ON-OFF Switch, Stand by Menu Vol +/- Prog +/- |
| 08. Remote Control Function | : | Volume, Brightness, Stand by, Colour, Contrast, Channel Selection, Audio Mute, AV Mode, Zoom, Swap, Scan Child Lock |
| 07. PCB Size | : | 475 x 375mm |
| 08. No. of Faults | : | 21 |
| 09. No. of test Points | : | 55 |
| 10. I.F. Frequency | : | Video - 38.9MHz, Audio - 33.4MHz |
| 11. Speaker Size | : | 50 x 125mm |
| 12. Accelerating Potential | : | 24KV max |
| 13. Operating Voltage for EHT | : | 110V |
| 14. Mains Supply | : | 230V ± 15%, 60Hz on request |
| 15. Power Consumption | : | 75VA (Approx) |

Note: Specifications are subject to change.

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