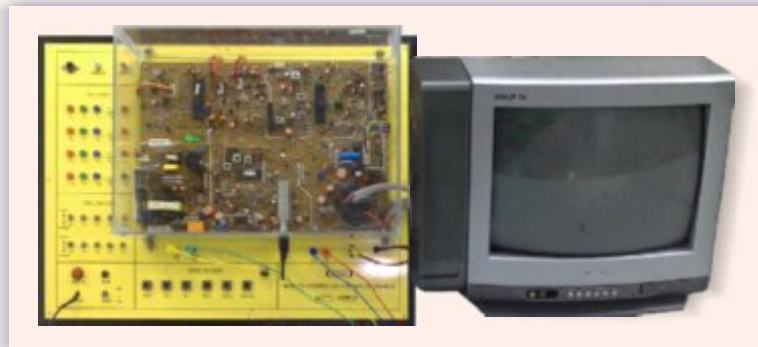




REMOTE COLOUR TV TRAINER

MODEL - CDM102

This trainer has been designed with a view to provide theoretical and practical knowledge of a general REMOTE COLOUR T.V. on SINGLE P.C.B. of size 19"x15" with FAULT CREATING FACILITIES.



Colour TV Trainer CDM101 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.

Section-wise 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.

CDM101 is safe to operate because all the test points are protected against accidental short-circuits.

By using the fault simulation method, it is possible to introduce the most common breakdowns 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.

FEATURES

1. TV Receiver in open form with all components & controls placed on single PCB
2. Each circuit block shown in different color for easy identification
3. Solderless fault creation & Rectification
4. Legend printing on PCB
5. More than 50 Test points
6. Compact Design- Sliding Main board with locking facility
7. Can be used as Desktop Colour TV
8. Fully documented Operating Manual with glossary of terms
9. Manual and remote control operation
10. Detachable CRT Unit

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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Dealer:-

SPECIFICATIONS

1. Standard : CCIR-B-PAL-G, 625 Lines
2. Channels : 230
2 - 4 VHP I (VL), 5 - 12 VHP III (VH)
12 - 100 : BAND IV & V, else : S BAND & HYPER BAND
3. Picture Tube Size : 36 cms. Diagonal
4. RF Input Impedance : 75 W
5. Circuit Blocks : System Control Circuit, Video IF, Sound Section, Tuner Section, Horizontal Oscillator, Horizontal Output, Vertical Oscillator, Vertical output, Video & Chroma Section, Power Supply, AV sections
6. ON Screen Display to set : Volume, Brightness, Contrast, Colour, Channel & Band Selection, Tuning
7. Panel Control : ON-OFF switch, stand by Menu Vol +/- , Prog +/-
8. Remote Control Function : Volume, Brightness, Stand by, Colour, Contrast, Channel Selection, Audio Mute, AV Mode, Zoom, Swap, Scan, Child Lock
9. PCB Size (mm) : 475 × 375
10. No. of Faults : 10
11. No. of Test Points : 20
12. I.F. Frequency : Video - 38.9 MHz, Audio - 33.4 MHz
13. Speaker Size (mm.) : 50 × 125
14. Accelerating Potential : 24 KV max.
15. Operating Voltage for EHT : 110 V
17. Power Supply : 220 V ±15 %, 50 Hz / 60 Hz on request
18. Power Consumption : 75 VA (approx.)

EXPERIMENTS

1. Study of RF-Section through test points, fault simulation & rectification
2. Study of VIF section through test points, fault simulation & rectification
3. Study of Video / Chroma section through test points, fault simulation & rectification
4. Study of System Control Section through test points, fault simulation & rectification
5. Study of circuit of Horizontal & Vertical Oscillator & Output Sections
6. Study of Horizontal & Vertical output sections through test points, fault simulation & rectification
7. Study of R-G-B Video output Section
8. Study of Audio Sound section