

Color TV Trainer ST2651

- TV Receiver in open form with all components & controls placed on single PCB
- Each circuit block shown in different color 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 Color TV
- Fully documented Student Workbook and Operating Manual with TV glossary of terms
- Manual and remote control operation



Scienteck Colour TV Trainer ST2651 is an ideal training equipment to teach the operation of colour TV receivers. It allows the student to familiarize himself with the most advanced technological innovations.

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. ST2651 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. It can be also be used as a normal desktop Colour TV Receiver.

... the best learning tools !

Color TV Trainer ST2651

Technical Specifications

Standard	: CCIR-B-PAL-G,625 Lines
Channels	: 230 2- 4 VHF I (VL) 5- 12 VHF III (VH) 12- 100: BAND IV & V else: S BAND & HYPER BAND
Picture Tube Size	: 36 cms
RF input impedance	: 75 Ohms
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
ON Screen Display to set	: Volume, Brightness, Contrast Colour, Channel and Band Selection, Tuning.
Panel Control	: ON-OFF switch, stand by Menu, Vol +/- , Prog +/-
Remote Control Function	: Volume, Brightness, Stand by, Colour, Contrast, Channel Selection, Audio Mute, AV Mode, Zoom, Swap, Scan, Child Lock
PCB Size	: 19 x 15 inches
No. of Faults	: more than 40
No. of Test Points	: 50
I.F. Frequency	: Video - 38.9 MHz Audio- 33.4 MHz
Speaker Size(mm)	: 50 X 125
Accelerating Potential	: 24KV max.
Power Supply	: 230V \pm 10%, 50 Hz
Power Consumption	: 75 Watts (approx.)
Fuse	: 2A
Dimensions (mm)	: W590 X D 490 x H525
Weight	: 19 Kg. (approx.)



Experiments that can be performed

- ▶ Study of circuit of RF-Section
- ▶ Study of RF section through test points
- ▶ Study of fault simulation & rectification in RF Section.
- ▶ Study of circuit description of VIF section
- ▶ Study of VIF section through test points
- ▶ Study of fault simulation & rectification of VIF section
- ▶ Study of circuit of Video / Chroma section
- ▶ Study of Video / Chroma section through test points
- ▶ Study of fault simulation & rectification in Video / Chroma section
- ▶ Study of circuit of System Control Section
- ▶ Study of System Control Section through test points
- ▶ Study of fault simulation and Rectification in System Control System
- ▶ Study of circuit of Horizontal & Vertical Oscillator & Output Sections
- ▶ Study of Horizontal & Vertical output sections through test points
- ▶ Study of fault simulation & rectification in Horizontal and Vertical output sections
- ▶ Study of R-G-B Video output Section
- ▶ Study of Audio Sound section.
- and many more



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