



10944A is a LCD/LED Colour TV Trainer is an ideal training equipment to teach the operation of LCD/LED colour TV receivers. The complete Block of LCD/LED TV Receiver is printed on single PCB for easy understanding of function of different blocks. Test points allow the analysis and monitoring of the signals in different sections. By using the fault simulation method, it is possible to introduce the most common breakdown and their rectification.

#### Technical Specification

- Display : 32"Diagonal Size ,Flat panel LCD/LED display
  - Max Resolution : 1280 x 1024
  - Aspect ratio : 4: 3
- Image
  - Brightness : 300 cd/m2
  - Contrast Ratio : 350: 1
  - Max H-ViewAngle : 160
  - Max V-ViewAngle : 160
- Interface
  - Analog Video Input : RGB VGA (HD-15)
  - Analog Video Input : S-Video
  - Composite Video Input : RCAYellow,
  - Audio Input : RCA- Left (White), Right (Red)
  - Antenna RF Input : RF - SDTV/PAL
- Tuner Channels : 2 to 69
- Screen display : Volume, Brightness, Contrast, Color, Channel, Tuning
- Remote Control functions : On screen display of Volume, Brightness, Contrast, Channel
- Audio Amplifier : 3WPMPO
- All interconnections are made using 2mm socket.
- Test points are provided to analyze signals at various points.
- 8 no's of Fault Switches Provided
- All ICS are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCBwith Block Diagram.

Note: Specifications are subject to change.

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- Attractive Metal Enclosure
- User Manual for Experiments

#### Experiments That Can Be Performed:

- To Study Specifications of HDTV.
- To Study the Block Diagram and working principle
- To Study Input/output signals of different sections
- To Study Complete circuit with different sections
- To Study Remote Section
- To understand/observe the function of external and Internal controls
- To measure Test Point Voltages for different sections.
- To observe Test Point Waveforms for different sections
- To measure Video and Audio gain (sensitivity) with Pattern Generator
- To demonstrate and understand different types of faults
- To study faults diagnosis method
- To study IC's used in HDTV