

**LCD COLOR TV TRAINER**

Model Number : GOTT-LCDTV-078

**DESCRIPTION**

The GOTT-LCDTV-078 is an ideal piece of training equipment to teach the operation of color LCD TV receivers, which allows the student to familiarize himself with the most advanced technological innovations. The tutor includes a fault generation module and a trainer for the I2 C Communications Bus. The block diagrams of the GOTT-LCDTV-078 intuitively show the different modules which make up the color LCD TV receiver. Its large number of test points allows the analysis and monitoring of the electric signals in the different functional blocks of the receiver. It is safe to operate since all the test points are protected against possible accidental short-circuits. Using the fault module it is possible to simulate the most common faults which can occur in the receiver with thus establishing methods of diagnosis and tracing. The trainer moreover incorporates a microcontroller which makes it possible to carry out practices related to the operation of the I2C communications BUS. Special attention has been paid to its design, obtaining a small-sized functional piece of equipment. Moreover, in its rest position, it can be used as a domestic desktop TV.

**FEATURES****COLOR TV RECEIVER**

- Screen PAL B/G/I and SECAM B / G / L / L' systems.
- NICAM audio digital system (PAL G, PAL I, SECAM L)
- On Screen Display (OSD)
- Tuning by synthesis of manual voltage or auto store through search and automatic memorization
- Infrared remote control
- LCD screen

**BLOCK DIAGRAMS**

- Power supply
- Microcontroller
- Sound
- Video
- System
- IF and demodulator

**FAULT SIMULATOR**

- |            |               |           |
|------------|---------------|-----------|
| • Tuner    | • Video Out   | • E-EPROM |
| • AGC      | • Audio Out   | • Red     |
| • Video In | • IR Receiver | • Green   |
| • Audio In | • Audio Amp   | • Blue    |

**GENERAL SPECIFICATION**

- Operating Conditions: 0 to 45°C, 85% or Less (R.H)
- Input power: AC240V, 50Hz 1-phase

**EXPERIMENT TOPICS :**

- |   |   |
|---|---|
| • Test Point Measurement                              | • Troubleshooting the E-EPROM Circuit                 |
| • Troubleshooting the Tuner and Tuner Control Circuit | • Troubleshooting the Remote Control Circuit          |
| • Troubleshooting the RGB Amplifier Circuit           | • Troubleshooting the Video In and Audio In Circuit   |
| • Troubleshooting the Sound Circuit                   | • Troubleshooting the Video Out and Audio Out Circuit |

**Manuals:**

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

**General Terms:**

- (1) Accessories will be provided where applicable.
- (2) Manuals & Training will be provided where applicable.
- (3) Designs & Specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

**Warranty:**

2 Years

**ORDERING INFORMATION :**

ITEM	MODEL NUMBER	CODE
LCD COLOR TV TRAINER	GOTT-LCDTV-078	078-000

\* Proposed design only, subject to changes without any notice.