Scientech

Understanding Electroacoustic Training System

Scientech 2660BHF

Scientech 2660BHF Understanding Electroacoustic Training System is an ideal training platform to learn the operation and characteristics of elements of electroacoustic system. Microphone and Loud Speaker. It is demonstrator cum training platform specifically designed for the comprehensive practical study on frequency and directional response of Microphone and Loud speaker 5 band Stereo Graphic Equalizer, and Hi-Fi amplifier for the beginners with a basic knowledge of the various electronic building blocks and fundamentals of audio system.

This didactic product develops the sense of investigation within the student and familiarises him with repair techniques or design techniques. One of the main features of this training system is fault simulation to train on actual fault finding, by simulating faults on this platform. The complete construction diagram of microphone, speaker, equalizer and Hi-Fi amplifier are printed on the mimic. Finally this equipment allows user to do experiments and to observe waveforms/signals/voltages of different sections, which are guided thoroughly by theory and product tutorials, and enable the user to gain in-depth knowledge of the audio system.

Features

- Rotating Platform for microphone & Loudspeaker to plot characteristics
- 5-Band Stereo Graphic Equalizer for 108Hz, 340Hz, 1KHz, 3.4KHz, and 10KHz
- Audio Channels (Left & Right)
- Hi-Fi Amplifier (Left and Right) with Master control.
- Facility for connecting an external variable frequency source or an audio signal
- FM Radio Receiver with Remote control
- Complete block diagram of a 5-Band Stereo Graphic Equalizer, Hi-Fi amplifier, Microphone and Speaker on-board
- Easy measurement of voltages and observation of waveforms on Test points
- Exhaustive Product Tutorials explaining theory, circuit, experiments, procedure, typical waveforms, and voltages
- Solderless switched fault creation and troubleshooting

Technical Specifications

Audio Input	:	200Hz-10KHz (external/internal) variable frequency source or audio signal
Audio Output	:	Stereo (Left and Right)
Selective Frequencies	:	108Hz, 340Hz, 1KHz, 3.4KHz, and 10KHz
Hi-Fi Amplifier	:	2 Channel with Master control
FM Radio Receiver	:	88-108 MHz FM band
Microphones	:	Wired (Dynamic) and Cordless
Wireless Transmission	:	FM Transmission and reception
Speakers	:	8 ohms (2 nos.)
Mains Supply	:	110V-230V AC ± 10%, 50/60Hz
Weight	:	2 Kg. (approximately)
Dimension	:	W332 X D255 X H70

Scope of Learning

- Study of operation of 5-Band Stereo Equalizer & Hi-Fi Amplifier using audio signal
- Study the function of each band of Equalizer & Hi-Fi Amplifier using function generator
- Study of circuit description and functions of different sections of audio system
- Study and observation of waveforms/signals of different sections of audio system
- Study and measurement of voltages at test points of different sections of audio system
- Study of switch faults and troubleshooting in different sections of audio system
- To study the Directional response of a Microphone and loudspeaker in the horizontal plane at different frequencies
- To study the characteristics and frequency response of Microphone and Loudspeaker

Subject to Change

Designed and Manufactured in India by -

Scientech Technologies Pvt. Ltd.

94, Electronic Complex, Pardesipura, Indore-452010, India.

✆ +91-731-4211100, ✉ info@scientech.bz, www.ScientechWorld.com