SYNTHESIZER TRAINER

MODEL SYNTH100

This trainer has been designed with a view to provide a live demonstration of the working of a synthesizer.



FEATURES

- The circuit/ mechanical assembly is mounted on suitable board for the students to visually observe the electronic circuits * and mechanical parts easily.
- * The block diagram and details of test are provided on charts.
- The provision is made to measure/observe the voltage and waveforms at various strategic points through sockets. * * *
- 15 non-destructive faults creating facility is provided.
- The trainer is enclosed in a laminated wooden cabinet with lockable lid and 3mm transparent acrylic cover to cover the circuit and mechanical assembly from the top bottom.

SPECIFICATIONS

1. Keyboard

SIGMA

- 2. Voice
- 3. Style
- 4. Power Mode
- 5. Volume
- **Rhythm Control** 6.
- 7. Voice/Style select
- 8. Dual voice
- 9. Transpose
- 10. Tempo
- 11. Demonstration
- 12. **Chord Memory**
- 13. Auxiliary Jacks
- 14. **Tone Generators**
- 15. Main Amplifier
- 16. Speakers
- 17. Faults
- **Power Supply** 18.
- 19. Standard Accessories
- 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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- : 49 Kevs
- 100 (00-99)
- : 20 (00 19)
- : Off, normal, single finger, fingered, auto bass.
- Master volume, accomap Volume.
- Intro/fill in 1,2 Synchro start, start/stop :
- -,+,0,1,2,3,4,5,6,7,8,9 voice, style. :
- ON/OFF.
- A V

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- V A
- Start/Stop 1
- Record/End, Start Bank 1, 2. :
- Headphones/Auxiliary Output. :
- FM Tone Generator (for voices) :

PCM Tone Generator (for the rhythm patterns).

- : Stereo 2W x 2.
- 4 ohm 2 Nos. :
- : Non destructive 15 faults through toggle switches.
- 230V AC, 50Hz, single phase. :
- : 1. Training Manual.

EXPERIMENTS

- 1. To Study of Block Diagram and working principle.
- 2. To study Input and Output Signals.
- 3. To study Internal and External Controls.
- 4. To study Operating method.
- 5. To study Power supply section
- 6. To study of tone generator section
- 7. To study of PCM generator section
- 8. To carry out alignment and adjustment procedure.
- 9. To create and demonstrate faults.
- 10. To study Fault finding methods.
- 11. To measurement Test Point Voltages.
- 12. To observe Test Point Waveforms.
- 13. To study of Data sheets of ICs used
- 14. To study of Technical Words used.
- 15. To study complete Circuit Diagram