



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

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|--------------------------|---|
| 1. Keyboard | : 49 Keys |
| 2. Voice | : 100 (00-99) |
| 3. Style | : 20 (00 19) |
| 4. Power Mode | : Off, normal, single finger, fingered, auto bass. |
| 5. Volume | : Master volume, accomap Volume. |
| 6. Rhythm Control | : Intro/fill in 1,2 Synchro start, start/stop |
| 7. Voice/Style select | : -,+,0,1,2,3,4,5,6,7,8,9 voice, style. |
| 8. Dual voice | : ON/OFF. |
| 9. Transpose | : ▲ ▼ |
| 10. Tempo | : ▼ ▲ |
| 11. Demonstration | : Start/Stop |
| 12. Chord Memory | : Record/End, Start Bank 1, 2. |
| 13. Auxiliary Jacks | : Headphones/Auxiliary Output. |
| 14. Tone Generators | : FM Tone Generator (for voices)
PCM Tone Generator (for the rhythm patterns). |
| 15. Main Amplifier | : Stereo 2W x 2. |
| 16. Speakers | : 4 ohm - 2 Nos. |
| 17. Faults | : Non destructive 15 faults through toggle switches. |
| 18. Power Supply | : 230V AC, 50Hz, single phase. |
| 19. Standard Accessories | : 1. Training Manual. |

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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Dealer:-

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