



OMEGA TYPE DB-15 Tape Recorder Demonstrator-Cum-Trainer has been designed with a view to provide practical/experimental knowledge of the latest circuit of IC based Tape Recorder on Single glass epoxy PCB, with Fault Creating Facility.

All components are soldered on single pin tags on PCB with full circuit diagram screen printed on component side. Hence any component can be removed or shorted or its value can be altered to understand its effect / function. The voltage at any point can be measured easily and the wave form can be observed. Faults can be created by removing any part.

Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT

- 01 Study of the latest Tape Recorder Circuit based on IC TBA810.
- 02 Tracing the circuit and identify different components.
- 03 Creating the faults by switches and servicing them.
- 04 Understanding the alignment procedure.
- 05 Testing and experimenting various sections.
- 06 Measurement of different voltages and observing various waveforms.

SPECIFICATIONS

- 01 Power Supply : 230V AC $\pm 5\%$, 50Hz, 6V D.C., 1.5 x 4 Cell no. 950/1050.
- 02 Power output : 4 Watt Maximum.
- 03 Current consumption : 750mA (Approx.).
- 04 Frequency response : 100 Hz to 10 KHz.
- 05 Tone control : $\pm 10\%$ (High frequency) cut boost.
- 06 Speaker : 8 Ohms, 4" Size.

- 07 Tape Speed : 4.75 cm per second.
- 08 Tape type : Compact Cassette, C-60 & C-90.
- 09 Erase system : D.C. Erase.
- 10 Recording bias : A.C. Bias.
- 11 Recording : Automatic level control.
- 12 Speech/Music control : Manual.
- 13 Recording level indicator : L.E.D. Type.
- 14 Power indicator. : L.E.D. Type.
- 15 Output level indicator. : L.E.D. Type.
- 16 Cassette stopping system : Automatic (at the end of the tape).
- 17 Mechanism Keys : Rewinding, Fast Forward winding, Play Back, Stop/Eject, Pause and Recording.
- 18 Built in condenser mike.
- 19 Auxiliary input socket.
- 20 External mike socket.
- 21 External speaker socket.
- 22 Remote control socket (with mike).
- 23 Sound Monitor switch.
- 24 External battery socket provided.
- 22 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 23 Weight : 4.7Kg.
- 23 Dimension : W415 X H165 x D315 (mm)

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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