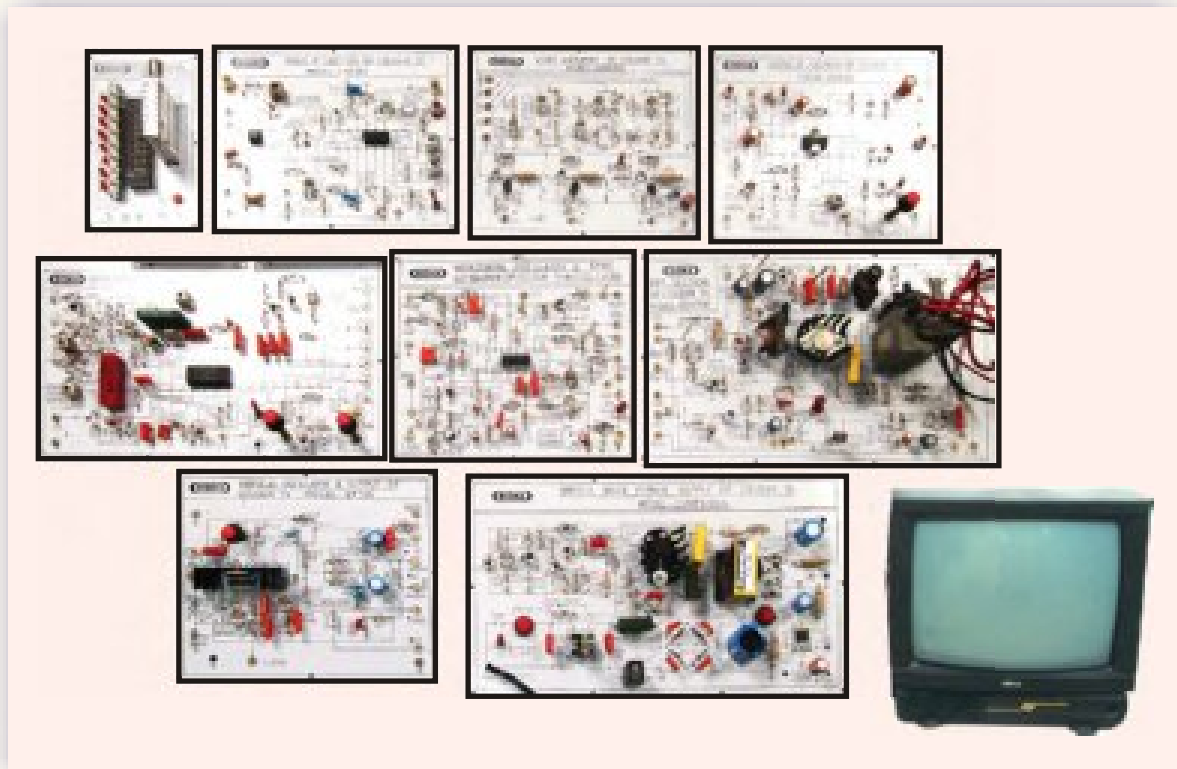




SEPARATE SECTIONS OF COLOUR T.V.

These boards are designed to provide experimental and theoretical knowledge of different following sections of Colour T.V. All components are soldered on Single pin tag on SINGLE PCB with full Circuit diagram. Hence any components can be removed or shorted or its value can be altered to understand its effect/function.



FEATURES

- ❖ Study of the general circuit of the Section.
- ❖ Tracing of the circuit and identification of different components.
- ❖ Understanding the alignment and adjustment procedure.
- ❖ Measurement of test point voltages.
- ❖ Observation of test point Waveforms.
- ❖ A detailed manual containing different practicals on these boards is provided along with the boards.
- ❖ A pattern generator having IF Output, Composite Video Output, V. Sync Output, H. Sync Output, SIF Output is required for experimenting on this section. e.g. "SIGNET" make Colour pattern generator - Model IE-1044. Also RF sweep generator is required.

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:-

SPECIFICATIONS

- (1) Electronic tuner section (with op. unit) for Colour T.V. Model CTU100
 1. Electronic Tuner used.
 2. Power supply requirement - 12V/100mA, 33V/100mA.
 3. AGC input 2.0 to 8.5 V.
 4. VHF Channels 2 to 12 and UHF Channels 21 to 68.

- (2) Video I.F section for Colour T.V. Model CVIF100
 1. IC used - SL 1430, SW 173, TDA 3541A
 2. Power supply requirement- 12V/100mA
 3. AFT ON/OFF Switch
 4. AGC Control.

- (3) Sound I.F. section for Colour T.V. Model CSIF100
 1. IC used CA1190
 2. Power supply requirement - 20V/300mA
 3. Maximum Sound output - 2.0 watts.
 4. Volume and Tone Control.

- (4) Horizontal oscillator section for Colour T.V. Model CH100
 1. IC used - TDA 1940.
 2. Power supply requirement - 12V/100mA, 20V/100mA.
 3. Pull-in- range - + 4.5%
 4. Sand castle pulse generation and H. Hold control.

- (5) Vertical oscillator and output section for Colour T.V. Model CV100
 1. IC used - TDA 1670A.
 2. Power supply requirement - 25V/2A
 3. Vertical Linearity, Height and frequency control.
 4. Thermal protection.

- (6) Video amplifier section for Colour T.V. Model CVA100
 1. Transistors used - BF 393
 2. Power supply requirement - 150V/100mA.
 3. Monochrome and Half-tone Adjustment controls.
 4. Video Bandwidth - 5 MHz.

- (7) Horizontal driver and EHT section for Colour T.V. Model CEHT100
 1. Transistors and ICs used - BD 115, BU 208D, IC uA 7812.
 2. Power supply requirement - 115V/200mA, 20V/200mA
 3. Horizontal linearity control.

- (8) Switch Mode Power Supply Section for Colour T.V. MODEL CSMPS100A
 1. Power supply : 230V AC, 50 Hz.
 2. Regulation range : 195V AC to 265V AC.
 3. Output Voltages at Full load : 115V DC - 300mA and
15V - 500mA
12V - 500mA
 4. Output Voltages at NO load : 115V O/P - 130V to 140 DC
15V O/P - 18 to 22V.
 5. Input Wattage : 60 watts.
 6. AC/DC Fuse Protection and short circuit protection.
 7. EMI Filter.
 8. P.C.B. Size : 16" x 7.5 "
 9. Standard Accessories : 1. A Manual having practical details.

- (9) Colour Decoder section for Colour T.V. Model CCD100
 1. IC Used - TDA 3561A
 2. Brightness, Contrast, Colour controls.
 3. Power supply requirement - 12V DC/100mA.
 4. Chroma and Luminance Delay Lines.

- (10) Picture tube, yoke, speaker and cabinet for Colour T.V. Model CPT100
 1. Picture Tube : - 20" Black and White
 2. Cabinet : - Wooden
 3. Speaker : - 8 Ohm, " x 5"
 4. Yoke : - Built-in
 5. CRT Socket with wiress