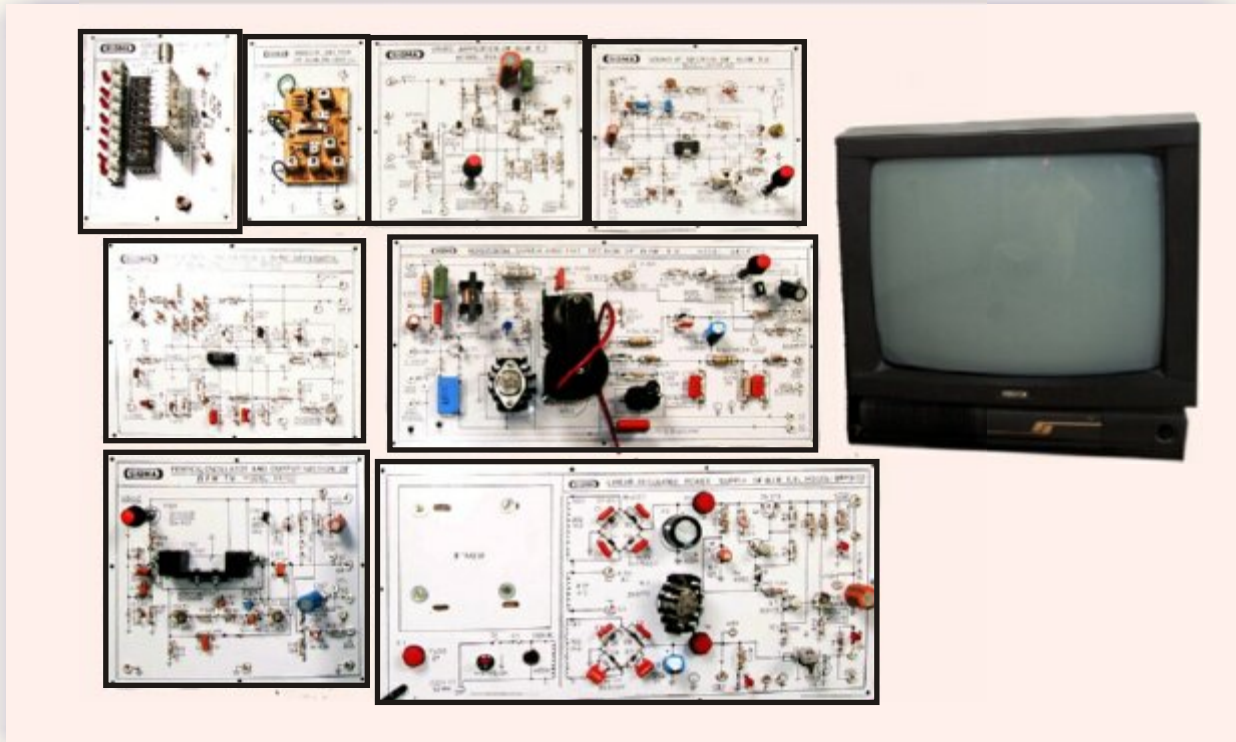




SEPARATE SECTIONS OF BLACK & WHITE T.V.

These boards are designed to provide experimental and theoretical knowledge of different following sections of Black and White 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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SPECIFICATIONS

(1). Tuner section for B/W T.V. Model BTU100

1. Mechanical Tuner used.
2. Power supply requirement - 12V/100mA.
3. AGC input 1.5 to 2.3 V.
4. VHF Channels 2 to 12.

(2). Video I.F section for B/W T.V. Model BVIF100

1. IC used CA 3068
2. Power supply requirement - 12V/100mA
3. AGC Transistor - BC 558B.
4. IF Gain & AGC Control.

(3). Sound I.F section for B/W T.V. Model BSIF100

1. IC used - CA 1190
2. Power supply requirement - 20V/700mA
3. Maximum Sound output - 2.0 Watts.
4. Volume and Tone Control.

(4). Horizontal oscillator section for B/W T.V. Model BH100

1. IC used- CA 920.
2. Power supply requirement- 12V/100mA
3. Pull-in range - + 4.5%
4. Horizontal Hold Control.

(5). Vertical oscillator and output section for B/W T.V. Model BV100

1. IC used- UPC 1031
2. Power supply requirement - 20V/2A
3. Vertical Linearity, Height and frequency control.
4. Thermal and over voltage protection.

(6). Video amplifier section for B/W T.V. Model BVA100

1. Transistor used - BF 495C, BC 548B and BD 115.
2. Power supply requirement - 12V/100mA & 110V/100mA.
3. Contrast control and Brightness control.
4. Video Bandwidth - 5MHz.

(7). Horizontal driver and EHT section for B/W T.V. Model BEHT100

1. Transistors used - BD 115, BU 205.
2. Power supply requirement - 110V/100mA
3. Linearity control.
4. Thermal Fuse Protection.

(8). Linear regulated power supply section for B/W T.V. Model BRPS100

1. Output Voltage - 100V DC/300mA - Regulated
20V DC/700mA - Unregulated
12V DC/100mA - Regulated
6.3V AC/300mA - Unregulated.
2. AC/DC Fuse Protection.
3. LED Output Indicators.

(9). Picture tube, yoke, speaker and cabinet section for B/W T.V. Model BPT100

1. Picture Tube - 20" Black and White
2. Cabinet - Wooden
3. Speaker - 8 Ohm," x 5"
4. Yoke - Built-in
5. CRT Socket with wires.