

Zenith Color TV for 1978

We continue with our review of changes, improvements and innovations in color television for 1978. This month—the 'updating' of the Zenith "J" line. By Don W. Mason

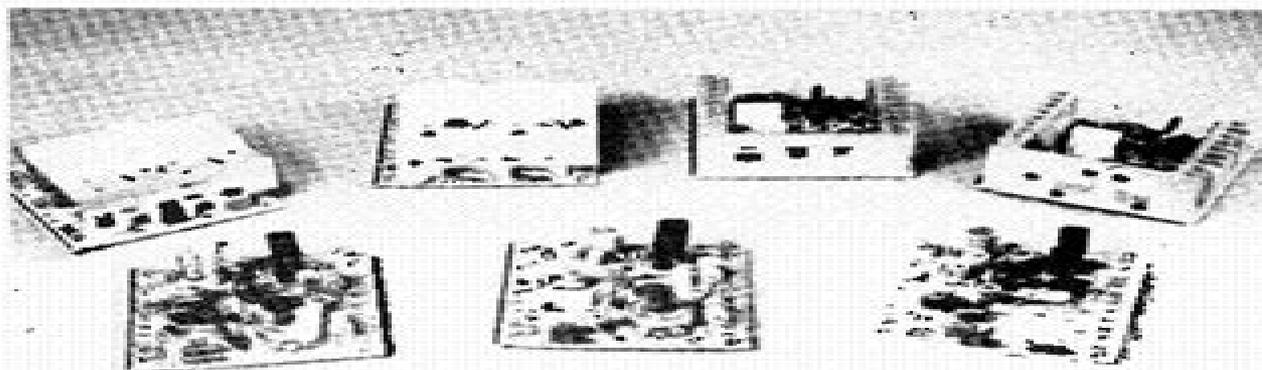


Fig. 1—Modules used in vertical circuitry in the Zenith J line of color TV. Top four modules are DC-coupled, and bottom three are AC-coupled modules.

As with most other TV set manufacturers this year, Zenith is "updating" its color television line for 1978—refining the circuitry and adding new customer features—rather than introducing new chassis and new models. (Zenith has introduced a new videocassette recorder and a new black-and-white TV chassis, however, as additions to their 1978 product line.) The improvements in circuitry are concentrated on the "J" line of Zenith color chassis. Circuits involved are: vertical, horizontal, high voltage multiplier, low level luminance, video output, IF and the tuner.

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The Vertical Modules

The seven different modules (Fig. 1) used in the vertical circuit of the Zenith "J" line of receivers are of two basic types: AC-coupled and DC-coupled. AC-coupled modules are used in the 100 and 110 degree deflection receivers, and DC-coupled modules are used in the 90-degree deflection receivers. The DC-coupled

modules are completely interchangeable, but the AC-coupled modules are not, and must be used as intended with specific chassis and deflection angle receivers.

Actually, the AC-coupled modules can be interchanged for servicing purposes, but should not be left in the receiver for normal operation as a poor linearity condition will exist.

A schematic of AC-coupled vertical module 9-120-01A is provided in Fig. 2. Whenever servicing for vertical problems involving this module, the emitter resistors, RX213 and RX214, of the output amplifiers should be checked for an open condition. And, if resistor RX728 has opened, do not replace the module before checking for a short or other fault in the output transistor, deflection yoke, or the wiring. If resistor RX728 failed because of a short, and the short is not removed or repaired, the replacement module will also fail.

The Horizontal Sweep System

Several improvements have

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JR Anderson



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