

TEKTRONIX®

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5B42

MOD 816C

MODIFICATION INSERT

Scan by Zenith

5B42
MOD 816C

This manual insert describes MOD 816C as it applies to the Tektronix 5B42 Delaying Time Base plug-in unit. MOD 816C adds a rear-panel coaxial connector in a holder adjacent to the rear card-edge interface connector. The added connector provides external trigger or deflection input signals in parallel with the front-panel EXT TRIG INPUT/EXT HORIZ AMPL connector, via the rear-panel I/O facilities of a compatibly-modified 5400-Series oscilloscope (e.g., 5440 MOD 816C).

CHARACTERISTICS

Input RC. Low-frequency shunt RC characteristic at the front or rear input connector will be the parallel combination of the following:

1. Normal 5B42 input characteristic: 1 M Ω , 20 pF.
2. Added cable and connector capacitance in the plug-in unit: not more than 40 pF.
3. Cable and connector capacitance in the modified oscilloscope. typically 35 to 50 pF.
4. Characteristics of cables or circuits attached to the opposite connector.

Probe Compatibility. When the plug-in unit is installed in an oscilloscope with compatible rear input facilities, total input capacitance is beyond the compensation range of conventional passive attenuator probes, and their use is not recommended. With no connection at the opposite input, probes of the "X1" type may be used with allowance for increased capacitive loading of the signal source.

High Frequency or Fast-Rise Trigger Signals. The external trigger line should be terminated when working with trigger signals of less than 50 ns risetime or over 10 MHz frequency. Terminate rear inputs at the front-panel connector, or front-panel inputs at the rear-panel connector (only).

CALIBRATION NOTE

Calibrate the 5B42 MOD 816C using a modified main frame to check rear input (when checking front input, terminate the rear input).

MECHANICAL PARTS LIST

Add:

030-0833-03	1	CONNECTOR BODY, REAR
211-0514-00	2	SCREW, 6-32 x 0.750, PHS