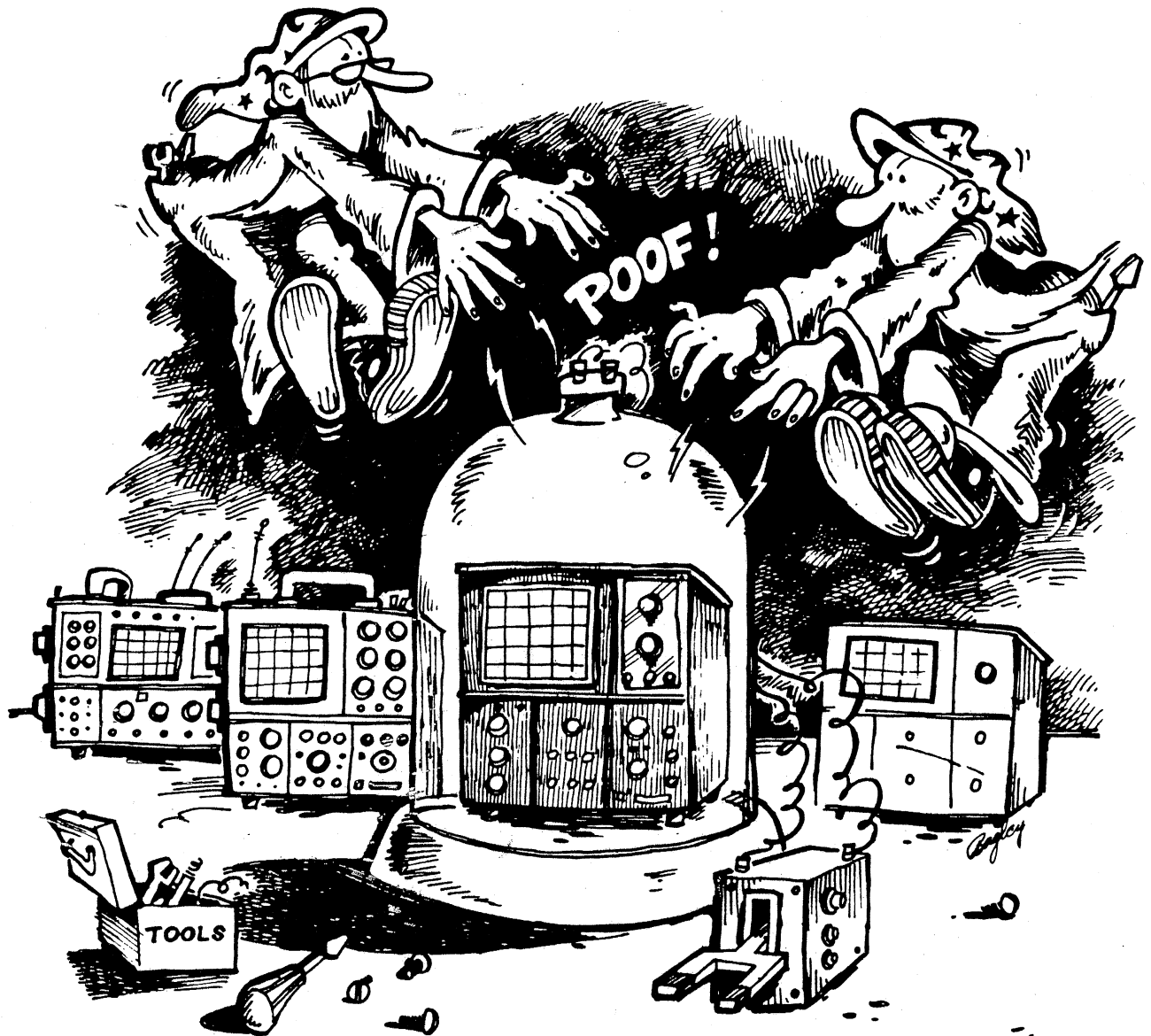


MODIFIED PRODUCTS



Dick Taylor 7925

Tektronix®
COMMITTED TO EXCELLENCE

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GENERAL

Many of the modified products listed in this document have added performance features. However, they may require the compromise or degradation of certain standard product features. To avoid dissatisfied customers, make sure that the customer is fully aware of the limitations and capabilities of any modified product being considered. Specification Control Drawings that detail differences between standard product characteristics and those of the modified item are available from Modified Products and are in a form that can, and should, be given to the customer. Most of the mods listed in this document will have a record in the fiche for quick reference.

As with all modified products, it is the salesmans responsibility to convey the terms and conditions regarding the sale of these modifications. The standard terms and conditions regarding cancellation and/or rescheduling of modified products are detailed on Attachment T2 which must accompany any quotation to the customer for a modified product.

GUIDELINES

1. Do not assume combined mod compatibility.

While some of these mods are mutually compatible, others are not. Contact Modified Products regarding questions on compatibility of mods.

2. Do not quote "040-type field mod kits" for the mods listed. Some of these mods are not feasible to attempt as field kits. Contact Ken Hedin ext. 5673 for information and quotes for field kits or special parts used in modified products.

3. Get a quote.

All custom modifications need to have valid Modified Product Quotes (MPQ) referenced on the order. Most MPQs are valid for 30 days and are only valid for the instrument type quoted (with options) and the quantity quoted. All variances between the MPQ as issued and the resulting order need to be resolved between Modified Products and the field office (CSR or salesman). For further information, or to request a quote, contact Dick Taylor, ext. 5522, Del. Sta. 58-134.

200 SERIES MODIFICATIONS

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod 125M</u>	DC power input and mode selector switch permitting operation from AC or internal batteries (Normal Mode) or from 12 V external DC, and charging of internal batteries from an external 12 VDC source.	212	\$ 95
<u>Mod 126P</u>	Ext Z-Axis Input AC-coupled via a Winchester SM 3SM connector at the rear.	212 214	60
<u>Mod 161Q</u>	AC input capacitors changed for operation from <u>230 V</u> (nominal) 60 Hz power lines. Accommodation range is 215 to 250 V RMS.	212 214	50
<u>Mod 198G</u>	10 X slower sweeps; 50 microsec/div to .5 sec/div.	214	125
<u>Mod 717M</u>	Probe length increased from 42" to 66"	212 213 214	35

400 SERIES MODIFICATIONS

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod 128T</u>	X2.5 Vertical Magnifier in each channel. Magnification is selected by pulling out the Variable Volts/Div knob. Bandwidth is reduced to approximately 70 MHz with the Magnifier enabled.	465	\$ 125
<u>Mod 135L</u>	B Sweep VARIABLE TIME/DIV control on rear panel; operates front-panel "UNCAL" indicator light.	465 466	50
<u>Mod 157T</u>	A Sweep Sawtooth output in lieu of B Sweep Gate output. Amplitude is approximately 1 V per division.	464 465 466	75
<u>Mod 178F</u>	Vertical Chop Rate changed to 1 MHz.	464 465 466	65
<u>Mod 721U</u>	Remote SS Reset & Remote or End-of-Sweep flash graticule, TTL-compatible.	485	500

NOTE: Rackmount adapters for the 464 and 466 are available through Modified Products. Contact Ken Hedin (Ext. 5673) for price and availability. These adapters are available only as a modified part and will not be installed by instrument manufacturing.

600 SERIES MODIFICATIONS

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod DB</u>	Illuminated <u>external</u> graticule. 8 X 10 div ruling. Front panel scale illum. control. (Not compatible with time base option.)	603	\$ 125
<u>Mod DF</u>	"Gamma Correction." Equipped with a nonlinear Z-axis amplifier to provide first order gamma correction for low intensity levels.	606	50
<u>Mod DG</u>	"Blanking Input." Analog -Z input changed to "Blanking" logic input. A logic low (0 to +0.8 V) provides normal Z axis operation (beam on), and a logic high (+3 to +5.5 V) disables the +Z input and INTENSITY control (beam off). May be driven by most logic families (RTL, DTL, TTL, MOS, CMOS, etc.).	606	75
<u>Mod EA</u>	Added securing and ECB sealing to provide extended storage temperature, humidity, vibration and shock ratings. <u>Temperature (Non-op):</u> -62° to +75°C. <u>Humidity:</u> To 95%, 30° to 60°C, 120 hr. <u>Vibration:</u> .06" p-p @ 5 Hz to .006" p-p @ 50 Hz (0.7 g max). <u>Shock:</u> 30 g X 11 ms half-sine.	603 604	100
<u>Mod FD</u>	Voltage programmable PERSISTENCE via rear panel REMOTE PROGRAM connector. Added rear panel selector switch for front-panel/remote persistence.	607	160

600 Series Modifications - cont'd

		AVAILABLE ON	MOD PRICE
<u>Mod 133C</u>	EXT TRIG INPUT added to J200. INT/EXT SOURCE switch added to rear panel. (Instruments with Time base options).	603 604	\$ 50
<u>Mod 152E</u>	Type number and identification moved from the front panel and access door to the rear panel.	603 604 606 607	50
<u>Mod 818B</u>	X, Y and Z inverting inputs added to J200 for differential inputs.	603 604 607	35

5100 SERIES MODS

Input Connectors, Parallel Rear Panel:

1. Adds 75 to 100 pf to plug-in input C.
2. Eliminates use of passive attenuator probes (X1 may be OK).
3. Rating is 400 volts DC or p-p AC.
4. Requires compatibly modified plug-ins.

A. INSTRUMENT MODIFICATIONS:

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod 817A</u>	One input per compartment, BNC (1+1+1), 3 coax cables from rear panel to plug in interface connectors. (see 817G plug-in mods).	5110 5111 5112 5113 5115	\$ 85
<u>Mod 817B</u>	Two inputs per compartment, BNC (2+2+2), 6 coax cables from rear panel to plug-in interface connectors (see 817H plug-in mods).	5110 5111 5112 5113 5115	125
<u>Mod 817C</u>	Differential to each Vertical compartment and BNC to Horizontal compartment; 4-pin Bendix via twisted cable from rear panel to each Vertical plug-in interface connector. For use with 50 micro V/Div to 50 V/Div differential plug-ins. (see 5A21N, Mod 817H)	5110 5111 5112 5113 5115	175
<u>Mod 817M</u>	Four inputs per Vertical and one input to the Horizontal compartments, BNC (4+4+1); 9 coax cables from rear panel to plug-in interface connectors. (see 817N plug-in mods).	5110 5111 5112 5113 5115	195

5100 Series Mods - cont'd

Input Connectors, Parallel Rear Panel:

B. PLUG-IN MODIFICATIONS:

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod 817G</u>	All having a single signal or trigger input.	5A15N 5A23N 5A24N* 5B10N 5B12N 5B13N	\$ 35
<u>Mod 817H</u>	Having two inputs at 1 mv/Div or lower sensitivity. For use in Vertical compartment of Mod 817B or 817M Indicators	5A18N 5A19N	50
<u>Mod 817H</u>	Having differential inputs. Requires <u>Mod 817C</u> mainframe. 5A19N 817H can be used in <u>Mod 817B</u> mainframes.	5A21N	50
<u>Mod 817N</u>	Having four inputs, which can be used in each Vertical compartment, for up to 8-trace operation. Requires <u>Mod 817M</u> Indicators.	5A14N	50

NOTE: Modified mainframes will accept either standard or modified plug-ins. Modified plug-ins are keyed for insertion into modified mainframes only. THESE MODIFIED PLUG-INS ARE NOT USEABLE IN 5400 SERIES MAINFRAMES.

*DC input only.

5100 SERIES MODS

Output Connectors, Rear Panel:

SPECS: These output buffer amplifiers provide 1 V/Div output (into 1 M Ω) or 0.05 V/Div (into 50 Ω). Deflection signals (Vert and Horiz) are available at interface via added square pins. Independent channels out of multi-channel plug-ins & certain gate & sawtooth signals are available only with modified plug-ins.

A. INSTRUMENT MODIFICATIONS:

		AVAILABLE ON	MOD PRICE
<u>Mod 719H</u>	Composite X, Y and Z axis outputs via 3 wideband buffer amplifiers suitable for driving a slave indicator. Vertical chopping rate reduced from ≈ 100 kHz to ≈ 4 kHz to be compatible with large screen monitor application (e.g. 613). Use with multi-channel amplifiers (5A18N, 5A14N) will provide multiplexed output.	5110/R	\$ 300
<u>Mod 768T</u>	Three output amplifier, BNC connectors, 3 signal output buffer amplifiers can be patched to any of the 15 signal sources available at interface or auxiliary boards	5110 5111 5112 5113 5115	225
<u>Mod 768U</u>	Three signal output amplifiers to rear panel BNC connectors, for composite X, Y and ANALOG Z AXIS OUTPUT (for driving a slave indicator).	5110 5111 5115	275
<u>Mod 768Y</u>	Four output amplifiers, BNC connectors, 4 signal output buffer amplifiers can be patched to any of the 15 signal sources available at interface or auxiliary boards.	5110 5111 5112 5113 5115	250
<u>Mod 768X</u>	Six output amplifiers, BNC connectors, 6 signal output buffer amplifiers can be patched to any of the 15 signal sources available at interface or auxiliary boards.	5110 5111 5112 5113 5115	275

NOTE: Modified mainframes will accept either standard or modified plug-ins. Modified plug-ins are keyed for insertion into modified mainframes only.

5100 Series Mods - cont'd

Amplifier Outputs Only:

B. PLUG-IN MODIFICATIONS:

Unmodified plug-ins give outputs representative of the signals available at the interface. For signals available within the plug-ins only, see the following mods:

		AVAILABLE ON	MOD PRICE
<u>Mod 768V</u>	Independent Channel 1 and 2 signal output via plug-in interface connector (dual-trace).	5A18N 5A26	\$ 75
<u>Mod 768W</u>	A Gate and Sawtooth signal output via the plug-in interface connector.	5B10N 5B12N	35
<u>Mod 768Z</u>	A Gate and B Gate signal outputs via plug-in interface connector.	5B12N	35
<u>Mod 769G</u>	A, B Gates and Delayed Trigger Out.	5B12N	50
<u>Mod 769N</u>	A Gate, B Gate, A Sawtooth, and B Sawtooth via the plug-in interface connector.	5B12N	50
<u>Mod 769Q</u>	3.7 μ A/Div Signal Output w/o positioning or variable Volts/Div control effects, via plug-in interface connector.	5A21N 5A22N	50

NOTE: Modified mainframes will accept either standard or modified plug-ins. Modified plug-ins are keyed for insertion into modified mainframes only. THESE MODIFIED PLUG-INS ARE NOT USEABLE IN 5400 SERIES MAINFRAMES.

5100 SERIES MODS

Graticule Modifications

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod DA</u>	External illuminated graticule; standard 8 X 10 pattern; rear panel SCALE ILLUM control.	5111 5113 5115	\$ 125
<u>Mod 172Z</u>	External, non-illuminated standard catalog pattern supplied on external, removable graticule.	5110 5111 5112 5113 5115	\$ 50
<u>Mod 174T</u>	Internal, non-illuminated, 10 X 10 cm grid.	5110 5111 5112 5113	50
<u>Mod 172F</u>	Internal, illuminated, standard catalog pattern graticule.	5110 5112	125
<u>Mod 172G</u>	Internal, illuminated, 10 X 10 cm grid.	5110 5112	125

NOTE: Internal illuminated graticule not available on storage instruments in this product line.

5100 SERIES MODS
OTHER USEFUL MODIFICATIONS

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod 135B</u>	Remote Erase, TTL or ground closure to rear 25-pin Cinch DC 25S connector <u>NOTE:</u> This mod will provide for remote erase of upper, lower or both halves of the split screen as selected by the front panel pushbutton selector switches.	5111 5113 5115	\$ 125
<u>Mod 135J</u>	Auto/Remote Erase, variable View Time/Save; sweep lockout, provision for X-Y operation, Erase Interval Output, etc.	5111 5113 5115	230
<u>Mod 710R</u>	X-Y operation, right Vertical compartment switchable from Vertical to Horizontal operation. For use with standard amplifier plug-ins. Requires 5B10N Mod 711C.	5110 5111 5112 5113 5115	95
<u>Mod 711C</u>	X-Y operation plus control of unblanking. One switch position allows operation of time base as unblanking generator. See 5100 Series, Mod 710R.	5B10N	50
<u>Mod FB</u>	Invert for each channel, with internal switches.	5A14N	95

5400 SERIES MODIFICATIONS

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod HB</u>	Two VERT SIG OUT facilities via Rear Panel BNCs. 0.5 V/Div Open Circuit or 25 mV/Div into 50Ω. Use with multi-channel amplifiers is not recommended since output will contain chop or alternate switching transition as well as signal voltage.	5440/R 5441/R	\$ 175
<u>Mod HC</u>	Five added rear-panel BNC connectors providing VERT SIG OUT and +GATE OUT. SAW-TOOTH OUT signals are available when Mod HA Time Base is used in Horizontal compartment.	5440/R 5441/R	300
<u>Mod 172Z</u>	External (removable) Illuminated Graticule. Standard 8 X 10 Div pattern.	5440/R	125
<u>Mod 816G</u>	2 + 2 + 2 rear BNC I/O via 4-position coax holders at interface.	5440/R 5441/R	175

5400 SERIES PLUG-IN MODIFICATIONS

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod HA</u>	Two Sawtooth out, 50 mV/div via Interface C3-C4. For use in 5440/5441, Mod HC	5B42 5B44	\$ 125
<u>Mod HC</u>	One Sawtooth out, 50 mV/div via Interface C4. For use in 5440/5441, Mod HC.	5B40	75
<u>Mod 816C</u>	Ext Trig/Amplifier input paralleled to rear holder, position 1.	5B40 5B42	50
<u>Mod 816H</u>	2 front panel inputs paralleled to rear connector holder, positions 1 and 2.	5A38	50
<u>Mod 818H</u>	Rear inputs, internal switch for front/rear selection.	5A48	125
<u>Mod 818J</u>	Rear input via connector holder, internal front-rear selector switch, as 5A48 Mod 818H.	5A45	75
<u>Mod FC</u>	Provides scale factor readout when used with the 5400 Series readout equipped oscilloscopes. Not compatible with 5100 Series input/output modifications.	5A21N 5A22N	75

7000 SERIES MODIFICATIONS

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod DB</u>	External (removable) illuminated graticule with standard 8 X 10 div pattern.	7844/R R7903	\$ 200
<u>Mod UB</u>	Delete readout, add passive board for terminations, etc. FP controls retained, similar to Option in other 7000-series.	7844	-300
<u>Mod 129G</u>	Second <u>Calibrator</u> circuit with front-panel output connectors and controls. Provides close tolerance time (1 μ sec and 1 ms within 0.05%, 0 to 50°C) and amplitude (within 0.5% for 60 mV into an open circuit and 30 mV into 50 ohms, 0 to 50°C) with rise-time of <1 ns (10 to 90%) into 50 Ω , 0 to 50°C.	7704A	325
<u>Mod 172W</u>	External illuminated graticule	7313/R	125
<u>Mod 172Z</u>	External illuminated graticule	7603/R	
		7613/R	
		7623A/R	
		7633/R	
<u>Mod 178G</u>	Repetition rate of Chop Mode clock generator increased from 2 MHz to approximately 8 MHz, for 2 MHz multi-trace channel repetition rates. When used with 7A26, the 7A26 must have Modification 178G also.	7623A/R 7633/R 7844 R7903 7904	75
<u>Mod 302P</u>	Readout circuits deleted; rear-panel PROBE POWER connectors retained.		-300

7000 Series Modifications - cont'd

		AVAILABLE ON	MOD PRICE
<u>Mod 721K</u>	Independently triggerable <u>pulsed</u> graticule illumination (1/2 sec) and modified single-shot readout, with mode, manual trigger, and preset level controls at the front panel. An end-of-sweep trigger output is also provided, for after-single-sweep triggering of the graticule and readout. Similar to but not exactly the same as Option 10 on the R7903 listed in the general catalog.	7904	\$ 295
<u>Mod 769W</u>	Two Vertical Signals Out, DC-100 MHz, 25 mV/div into 50 ohms.	7844/R	300
<u>Mod 816G</u>	Six added rear-panel BNC connectors, with two coaxial input-output lines to each of the three plug-in compartments, for use with compatibly-modified 7-series plug-in units.	R7603 R7613 R7623A R7633	125
<u>Mod 818F</u>	2 + 2 + 1 + 1 rear BNC to plug-in connectors.	R7844	150

7000 SERIES

PLUG-IN MODIFICATIONS

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod FB</u>	<u>Gated X-Y</u> mode providing timed unblanking triggerable from the external deflection signal. Useful for single-shot applications requiring X-Y displays with storage mainframes. Not available with Option 5 (TV triggering).	7B53A	\$ 150
<u>Mod GB</u>	Preamplifier gain increased to provide a fastest sweep rate of 5 ns/Div (0.5 ns/Div with MAG). Sweep rates slower than 10 μ s/Div and HOLDOFF control are deleted. Provides 20 divisions of sweep length unmagnified. Not available with Option 2 (X-Y operation).	7B80	250
<u>Mod JB</u>	Two rear inputs via interface C1, C2, selectable by internal cable patch.	7A24	125
<u>Mod 115X</u>	Added <u>DC Offset</u> circuit providing up to ± 200 div (2000 div with MAG X10) baseline offset within the input dynamic range, with uncalibrated COARSE and FINE front-panel variable controls.	7A15A	125
<u>Mod 178G</u>	Channel switching modified for 2 MHz chop rate in 7000-series Mod 178G mainframes.	7A24 7A26	25
<u>Mod 816B</u>	Coaxial input line via the interface connector wired in parallel with the <u>front-panel INPUT</u> connector.	7A15A	50

7000 Series Plug-In Modifications - cont'd

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod 816H</u>	Coaxial line via the interface connector wired in parallel with each <u>front-panel INPUT</u> connector.	7A18	\$ 75
<u>Mod 816J</u>	MAIN TRIGGER IN & DLY'D TRIGGER IN connectors parallel to interface connector C1 and C2.	7B53A	75

<u>TM500 MODIFICATIONS</u>		<u>MOD PRICE</u>
<u>DC505A Mod GA</u>	Faster display-rate and scan-clock rates to allow Period and Width measurements at up to 500 measurements/second.	\$ 95
<u>DD501 Mod JA</u>	FP input connector disconnected. Input via rear interface. For use with TG501 Mod JA and TM506 Mod JA.	25
<u>DM501 Mod 718D</u>	200 mV range; temperature feature deleted.	25
<u>PS051-1 Mod 730E</u>	+5 V supply deleted; connector, BAL, CAL facilities for strain-gage-type transducers.	100
<u>PS501-1 Mod 730F</u>	Special connectors and controls for service as Rotation Function Generator power supply and interconnect adapter.	125
<u>RG501 Mod 198F</u>	All timing ranges increased X10 for 100 μ s to 100 s duration.	125
<u>SG502 Mod 135W</u>	Added FINE FREQUENCY control on front panel.	95
<u>SG503 Mod 719X</u>	"FM" input, 620 Ω , DC coupled, 500 kHz to 250 MHz bands only. Deviations from ± 1 kHz at 2.5 MHz to ± 600 kHz at 250 MHz may be obtained.	125
<u>TG501 Mod HB</u>	TRIG DIVIDED BY 10/DIVIDED BY 100 (frequency) output via added front panel BNC. Internal Divided by 10/Divided by 100 selector.	100
<u>TG501 Mod JA</u>	10 MHz clock output via rear interface pins. For use with DD501 Mod JA and TM506 Mod JA.	30
<u>TM506/R Mod AA</u>	Cooling fan changed to 48-440 Hz type to allow 400 Hz operation.	150
<u>TM506 Mod JA</u>	Coaxial interconnect added between J10 (B27-B28) and J20 (B24-B25) for use with DD501 Mod JA and TG501 Mod JA. Barrier keys added in compartments 1 and 2.	35

PHOTOMETER MODIFICATIONS

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod 186A</u>	Filter for 450 \pm 25 nm response; sensitivity reduced X100; cosine corrected.	J6512	\$ 25
<u>Mod 717A</u>	Added 25-pin connector on cabinet top providing Digital logic and BCD readout outputs, a "hold" input and an analog signal output.	J16	85
<u>Mod 717Q</u>	ND2 Filter added to reduce sensitivity by a factor of 100. Readout decimal location shifted for correct readout.	J6501 J6502 J6511 J6512	75
<u>719V</u>	ND2 Filter (Mod 717Q); cable shortened to 6'.	J6511	75

FDI PRODUCTS MODIFICATIONS

<u>Mod FA</u>	Added DOT POS control providing a movable frequency-measurement point when using the TR502 Tracking Generator.	7L13	195
<u>Mod GB</u>	Cable dielectric pushbuttons and VAR control replaced by two rotary switches providing cable Vp factor of 0.2 to 1.0 in 0.01 increments.	1503	225
<u>Mod GC</u>	Added down-converter with switching facilities for three-range use: 0-5 MHz, 8-13 MHz, and 19-24 MHz.	L1	800
<u>Mod 139T</u>	COARSE tuning range changed from 0-1800 MHz to 0-180 MHz. An internal switch restores normal range.	7L12	75
<u>Mod 139U</u>	Input filter deleted; tuning range and Max Span Mode increased to 0-2500 MHz.	7L12 7L13	275 350

CURVE TRACERS MODIFICATIONS

		<u>AVAILABLE ON</u>	<u>MOD PRICE</u>
<u>Mod DA</u>	Illuminated external graticule with rear panel SCALE ILLUM control. Std. 8 X 10 div graticule or Option 10 (10 X 10 cm) graticule is available.	577/D1	\$ 125
<u>Mod 172G</u>	Internal illuminated graticule. 10 X 10 cm pattern.	577/D2	125

SCOPEMOBILE MODIFICATIONS

<u>Mod BD</u>	Added housing for storage of up to four 7-series plug-in units. 5-series and TM500 series units may be stored in the housing, but no positive latching facilities are provided for them.	Model 3	\$ 75
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INST.	MOD	PRICE	DESCRIPTION
5111A/R 5113/R	135J	\$295	AUTO ERASE WITH VARIABLE VIEW TIME AND SAVE. REAR REMOTE CON ADDED.
5110/R	172F	\$250	INTERNAL ILLUMINATED STD PATTERN GRATICULE
5110/R	172Z	\$100	EXTERNAL GRATICULE-NOT ILLUM.
5110/R	709V	\$400	BENTLEY NEVADA MOD. INT ILLUM GRAT; XY/YT SWITCHING; AC COUPLED Z AXIS; BENTLEY LOGO ON FRONT PANEL
51XX/R	710R	\$150	XY/YT SWITCHING OF CENTER COMPARTMENT SIG VIA ADDED SWITCH ON 5B10N
51XX/R	768T	\$275	3 SIGNAL OUTPUT BUFFERS TO REAR BNC'S.
51XX/R	768X	\$395	6 SIGNAL OUTPUT BUFFERS TO REAR BNC'S.
51XX/R	817A	\$200	3 REAR BNC FOR SIG INPUT
51XX/R	817B	\$250	6 REAR BNC FOR SIG INPUT
51XX/R	817C	\$325	2 DIFFERENTIAL AND 1 SINGLE ENDED REAR INPUTS.
51XX/R	817M	\$300	9 REAR BNC FOR SIG INPT. 4+4+1
511A/R 5113/R	DA	\$200	EXT. ILLUM. GRAT. STD. PATTERN
5110/R	WP	\$75	5000 HR ELAPSED TIME INDICATOR
5110/R	434A	\$400	172F + 710R
5111A/R 5113/R	450F	\$595	135J + 817M
5111A/R 5113/R	450J	\$690	135J + 768X
5111A/R 5113/R	450X	\$495	135J + 817A
51XX/R	450Z	\$475	768T + 817A
5111A/R 5113/R	LG	\$375	DA + 710R
5110/R	LS	\$650	172F + 710R + 817B
5111A/R 5113/R	LY	\$550	DA + 710R + 817B
5110/R	MA	\$675	172F + 710R + 768T
5110/R	WQ	\$400	WP + 817C

INST.	MOD	PRICE	DESCRIPTION
5A14N	817N	\$85	INPUTS WIRED TO REAR FOR USE IN MOD 817M MAINFRAMES.
5A15N 5B10N 5B12N	817G	\$85	INPUT WIRED TO REAR FOR USE IN MOD 817(X) MAINFRAMES.
5A18N 5A19N 5A21N-----	817H	\$100	EACH INPUT WIRED TO REAR (REQUIRES MOD 816C MAINFRAME)
5A18N 5A26	768V	\$125	CH1 AND CH2 SIGNALS TO REAR FOR INDEPENDENT SIGNALS OUT WITH MOD 768X MAINFRAME
5A19N	709V	\$75	BENTLEY NEVADA. CONTROLS DELETED
5A19N 5A21N 5A22N	769Q	\$75	SIG TO REAR WITHOUT EFFECTS OF POSITION
5B10N 5B12N	768W	\$85	"A" GATE AND "A" SAWTOOTH SIGNALS TO REAR.
5B10N	711C	\$85	ADDED CONTRL FOR XY/YT SWITCHING IN MOD 710R MAINFRAME.
5B10N	718V	\$115	BENTLEY NEVADA. LIKE 711C WITH BINDING POST TRIGGER INPUT CON. ETC.
5B12N	768Z	\$85	"A" GATE AND "B" GATES TO REAR
5B12N	769G	\$95	"A" GATE , "B" GATE, AND DLY'D TRIG TO REAR
5B10N	433L	\$170	711C + 817G

<u>INST.</u>	<u>MOD</u>	<u>PRICE</u>	<u>DESCRIPTION</u>
5440/R 5441/R	816G	\$195	6 REAR BNC'S FOR SIG. INPUT (2+2+2)
5440/R 5441/R	HC	\$395	2 VERTICAL SIGNAL OUTPUTS; 1 GATE OUT; 2 SAWTOOTH OUTPUTS (REQUIRES MODIFIED TIMEBASE).
R5440	WT	\$215	IEC POWER CON; DELETE CHASSIS TRACKS; RM EARS PUNCHED FOR EIA STD.
5440/R	ZA	\$100	96 HR BURN-IN

<u>INST.</u>	<u>MOD</u>	<u>PRICE</u>	<u>DESCRIPTION</u>
5A48	818H	\$125	CH1 AND CH2 INPUTS TO REAR
5A48	GC	\$75	BW INCREASED TO 60 MHZ
5A48 5B42	ZA	\$100	96 HR BURN-IN.
5B40 5B42	B16C	\$65	TRIG INPUT WIRED TO REAR
F5202A2	WR	\$575	R5110 WP + 817C; 5A21N 817H; 5B10N 817G

5XXX PK \$200* PANEL PAINTED RAYTHEON BLUE
 EACH INSTRUMENT TYPE AFFECTED IS CHARGED A \$500.00 ONE TIME SETUP CHARGE