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SECTION I

GENERAL INFORMATION

1-1. DESCRIPTION.

1-2. The Hewlett-Packard Model 3570A Network Analyzer is a narrow-band tracking detector designed to operate in conjunction with an -hp- Model 3320A/B Frequency Synthesizer or an -hp- Model 3330A/B Automatic Synthesizer. The Synthesizer/Analyzer combination forms a versatile measurement system for precision network analysis in the 50 Hz to 13 MHz frequency range. The 3570A Network Analyzer is an integral part of the 3040A, 3041A and 3042A Systems.

1-3. The Model 3570A is designed to measure the amplitude and phase response of two-port linear networks in the frequency domain. It can be used for measuring the absolute transfer functions of networks or for comparing two networks. The major features of the instrument include two identical measurement channels, 100 dB dynamic range (200 Hz to 13 MHz), selectable bandwidths, (10 Hz, 100 Hz and 3 kHz), two digital readouts for simultaneous amplitude and phase presentations, plus complete programmability of all functions, ranges and settings. These standard features, along with optional group delay measurements, offset measurements, limit tests and digital (Isolated General Purpose Interface Bus) outputs, make the 3570A a truly flexible instrument that is well suited for laboratory, maintenance and production-line applications.

1-4. SPECIFICATIONS.

1-5. Table 1-1 is a complete list of the Model 3570A critical specifications that are controlled by tolerances. Table 1-2 contains general information that describes the operating characteristics of the Model 3570A.

1-6. Any changes in specifications due to manufacturing, design, or traceability to the U.S. National Bureau of Standards are included in Table 1-1 in this manual. Specifications listed in this manual supercede all previous specifications for the Model 3570A.

1-7. OPTIONS.

1-8. There are presently four options available for the Model 3570A. These options are listed in Table 1-3. For

further information concerning options, refer to Table 1-2 or Section III in this manual or contact the nearest -hp- Sales and Service Office.

NOTE

The 3570A option numbers used throughout this manual correspond with the 3040A, 3041A and 3042A Systems option numbers listed in Table 1-6.

1-9. ACCESSORIES SUPPLIED.

1-10. Table 1-4 is a list of accessories supplied with the Model 3570A.

NOTE

In addition to the accessories listed in Table 1-4, a spare numeric display module (-hp- Part No. 1990-0329) is included with the instrument. The spare module is plugged into the foam block above the crystal in the A3 card nest and is accessible with the top covers (outer and inner) of the instrument removed.

1-11. ACCESSORIES AVAILABLE.

1-12. Table 1-5 is a list of Hewlett-Packard accessories available for use with the Model 3570A.

1-13. INSTRUMENT AND MANUAL IDENTIFICATION.

1-14. Hewlett-Packard uses a two-section serial number. The first section (prefix) identifies a series of instruments. The last section (suffix) identifies a particular instrument within the series. If a letter is included with the serial number, it identifies the country in which the instrument was manufactured. If the serial number of your instrument is lower than the one on the title page of this manual, refer to Appendix C for backdating information that will adapt this manual to your instrument. All correspondence with Hewlett-Packard should include the complete serial number.

Table 1-1. Specifications.

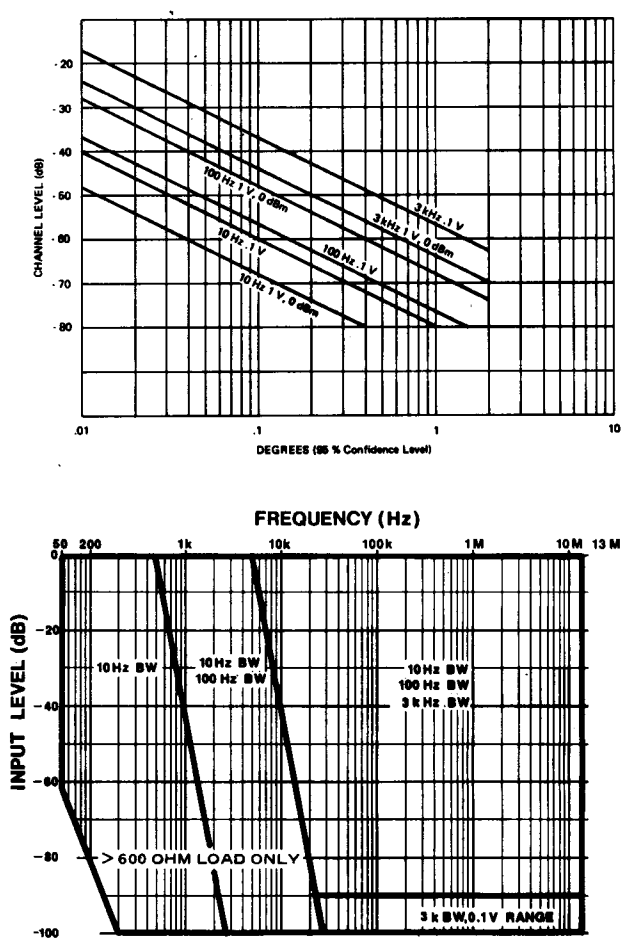
<p>Input Impedance (A and B Inputs): 1 MΩ ± 2 % shunted by < 30 pF</p> <p>Amplitude Accuracy:</p> <p>Absolute: no spec - can be calibrated to source using front panel adjustments.</p> <p>Relative: A, B or B - A "Amplitude Function"</p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 25%; text-align: center;">0 dB</td> <td style="width: 25%; text-align: center;">- 20 dB</td> <td style="width: 25%; text-align: center;">- 80 dB</td> <td style="width: 25%; text-align: center;">- 100 dB</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">± 0.2 dB</td> <td style="border: 1px solid black; text-align: center;">± 0.5 dB</td> <td style="border: 1px solid black; text-align: center;">± 1.5 dB</td> <td></td> </tr> </table> <p>Frequency response: A or B "Amplitude Function"; ≤ 0.5 dB p-p error. B - A "Amplitude Function"; ≤ 0.1 dB p-p error.</p> <p>Phase Accuracy: (25° ± 5° C - channel B within 6 dB of channel A.)</p> <p>Phase linearity: ± 0.2°</p> <p>Frequency response: (channels at 0 dB)</p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 33%; text-align: center;">± .8°</td> <td style="width: 33%; text-align: center;">± .2°</td> <td style="width: 33%; text-align: center;">± 1°</td> </tr> <tr> <td style="text-align: center;">50 Hz</td> <td style="text-align: center;">100 Hz</td> <td style="text-align: center;">1 MHz 13 MHz</td> </tr> </table> <p>Amplitude response:</p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 25%; text-align: center;">± .4°</td> <td style="width: 25%; text-align: center;">± .6°</td> <td style="width: 25%; text-align: center;">± 1°</td> <td style="width: 25%; text-align: center;">No Spec</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">- 20 dB</td> <td style="text-align: center;">- 70 dB</td> <td style="text-align: center;">- 80 dB - 100 dB</td> </tr> </table> <p>Phase reference: A/ - A 180° ± 0.4°</p> <p>Delay Accuracy: ± (% of reading + % of measurement range)</p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 33%; text-align: center;">0 dB</td> <td style="width: 33%; text-align: center;">- 40 dB</td> <td style="width: 33%; text-align: center;">- 80 dB</td> <td style="width: 33%; text-align: center;">- 100 dB</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">± (0.2 % + 0.2 %)</td> <td style="border: 1px solid black; text-align: center;">± (0.5 % + 0.5 %)</td> <td style="border: 1px solid black; text-align: center;">No Spec</td> <td></td> </tr> </table> <p>Measurement Range: 5 ranges, 19.999 μs, 199.99 μs, 1.9999 ms, 19.999 ms and 199.99 ms</p>	0 dB	- 20 dB	- 80 dB	- 100 dB	± 0.2 dB	± 0.5 dB	± 1.5 dB		± .8°	± .2°	± 1°	50 Hz	100 Hz	1 MHz 13 MHz	± .4°	± .6°	± 1°	No Spec	0	- 20 dB	- 70 dB	- 80 dB - 100 dB	0 dB	- 40 dB	- 80 dB	- 100 dB	± (0.2 % + 0.2 %)	± (0.5 % + 0.5 %)	No Spec		<p>Peak-to-Peak Noise: (depends on bandwidth)</p> 
0 dB	- 20 dB	- 80 dB	- 100 dB																												
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± (0.2 % + 0.2 %)	± (0.5 % + 0.5 %)	No Spec																													

Table 1-2. General Information.

<p>INPUTS</p> <p>Front Panel Inputs (A and B):</p> <p>Connectors: female BNC</p> <p>Impedance: 1 MΩ, shunted by < 30 pF (28 pF nominal)</p> <p>Maximum (ac) Input Voltage:</p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="border-bottom: 1px solid black;">Max/Ref Input Voltage Setting</th> <th style="border-bottom: 1px solid black;">Maximum Input Voltage</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1 V</td> <td style="text-align: center;">1 V rms</td> </tr> <tr> <td style="text-align: center;">0 dBm</td> <td style="text-align: center;">0.2236 V rms (50 ohms) 0.2739 V rms (75 ohms)</td> </tr> <tr> <td style="text-align: center;">0.1 V</td> <td style="text-align: center;">0.1 V rms</td> </tr> </tbody> </table> <p>Overload Protection: 15 V rms</p>	Max/Ref Input Voltage Setting	Maximum Input Voltage	1 V	1 V rms	0 dBm	0.2236 V rms (50 ohms) 0.2739 V rms (75 ohms)	0.1 V	0.1 V rms	<p>Coupling: capacitive</p> <p>Maximum (dc) Input Voltage: ± 50 Vdc</p> <p>DC Isolation: none (inputs referenced to frame ground)</p> <p>Rear Panel Inputs:</p> <p>INPUT ○: Triaxial connector mates with -hp- 11172A RF Input Cable connected to OUTPUT or ALT OUTPUT ○ of Synthesizer. Receives 50 Hz to 13 MHz signal input from Synthesizer.</p> <p>Impedance: 50 ohms (std) 75 ohms (Options 001, 003)</p> <p>20 - 33 MHz INPUT □: Female BNC connector receives 20 MHz to 33 MHz tracking signal from 20 - 33 MHz OUTPUT □ of Synthesizer.</p> <p>1 MHz INPUT △: Female BNC connector receives 1 MHz reference signal from 1 MHz OUTPUT △ of Synthesizer.</p>
Max/Ref Input Voltage Setting	Maximum Input Voltage								
1 V	1 V rms								
0 dBm	0.2236 V rms (50 ohms) 0.2739 V rms (75 ohms)								
0.1 V	0.1 V rms								

Table 1-2. General Information (Cont'd).

<p>OUTPUTS</p> <p>Front Panel Outputs (A and B):</p> <p>Connectors: female BNC</p> <p>Impedance: 50 ohms (std) 75 ohms (Options 001, 003)</p> <p>Coupling: direct</p> <p>Maximum Applied Voltage: ± 6 Vdc</p> <p>Output Level: Equal to level set on Synthesizer when driving a 50 - ohm (or 75 - ohm) load.</p> <p>Maximum (ac) Output Voltage:</p> <p>2 V rms (open circuit)</p> <p>1 V rms (50 - ohm or 75 - ohm load)</p> <p>Maximum (dc) Output Voltage: ± 10 mVdc (nominal)</p> <p>Transfer Accuracy: ± 0.4 dB (nominal)</p> <p>DC Isolation: none (output common connects directly to frame ground)</p> <p>Analog Outputs:</p> <p>Connectors: female BNC</p> <p>Resistance: 1 kΩ (nominal)</p> <p>Amplitude Function Output: Supplies dc voltage proportional to amplitude (A, B or B - A)</p> <p>Output Level: 0.1 V/dB (0 V to ± 10 Vdc for 0 dB to ± 100 dB)</p> <p>Phase/Delay Output: Supplies dc voltage proportional to phase and dc voltage proportional to group delay (in Sweep Delay Mode only).</p> <p>Phase Output Level: 0.05 Vdc per degree (0 V to ± 9 Vdc for 0 to ± 180 degrees)</p> <p>Delay Output Level: 5 mVdc per count (0 V to ± 10 Vdc for 0 to ± 1,999 counts)</p> <p>Delay (X - Y Recorder) Output: Supplies dc voltage proportional to group delay in Swept Delay Mode. No meaningful output in Phase or CW Delay Mode. Output is controlled by a sample and hold circuit which retains previous reading if present reading exceeds 2,000 counts.</p> <p>Output Level: 5 mVdc per count (0 V to ± 10 Vdc for 0 to ± 1,999 counts)</p> <p>Z Axis Output: Provides markers during frequency or amplitude sweeps. Can be set to intensify eleven points, representing 1, 10 or 100 sweep steps or to intensify only center frequency or center amplitude. During limit tests, only the limit transition points are intensified. Marker intensity can be adjusted using the rear panel INTENSITY control.</p> <p>Connector: female BNC</p> <p>Blanking Voltage: + 10 Vdc</p>	<p>Unblanking Voltage: 0 V</p> <p>Marker Amplitude: 0 V to - 7 V (adjustable)</p> <p>Output Resistance: 1 kΩ</p> <p>BANDWIDTHS</p> <p>Selectable Bandwidths: 10 Hz, 100 Hz and 3 kHz</p> <p>Shape Factor: 20:1 (nominal)</p> <p>Rejection Characteristics:</p> <table border="1"> <thead> <tr> <th>Bandwidth</th> <th>- 3 dB Points</th> <th>- 60 dB Points</th> </tr> </thead> <tbody> <tr> <td>10 Hz</td> <td>$f_o \pm 5 \text{ Hz}$</td> <td>$f_o \pm 100 \text{ Hz}$</td> </tr> <tr> <td>100 Hz</td> <td>$f_o \pm 50 \text{ Hz}$</td> <td>$f_o \pm 1 \text{ kHz}$</td> </tr> <tr> <td>3 kHz</td> <td>$f_o \pm 1.5 \text{ kHz}$</td> <td>$f_o \pm 30 \text{ kHz}$</td> </tr> </tbody> </table> <p>RESPONSE TIME</p> <p>Typical Settling Time (following 40 dB step):</p> <table border="1"> <thead> <tr> <th>Bandwidth</th> <th>90 % Settled</th> <th>100 % Settled</th> </tr> </thead> <tbody> <tr> <td>10 Hz</td> <td>200 ms</td> <td>800 ms</td> </tr> <tr> <td>100 Hz</td> <td>20 ms</td> <td>80 ms</td> </tr> <tr> <td>3 kHz</td> <td>1 ms</td> <td>4 ms</td> </tr> </tbody> </table> <p>RANGES</p> <p>Frequency Range:</p> <table border="1"> <thead> <tr> <th>Bandwidth</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>10 Hz</td> <td>50 Hz to 13 MHz</td> </tr> <tr> <td>100 Hz</td> <td>500 Hz to 13 MHz</td> </tr> <tr> <td>3 kHz</td> <td>15 kHz to 13 MHz</td> </tr> </tbody> </table> <p>Dynamic Range: 100 dB (200 Hz to 13 MHz)</p> <p>Measurement Range: 120 dB (1 μV rms to 1 V rms in three ranges):</p> <p>Max/Ref Input Voltage</p> <table border="1"> <thead> <tr> <th>Setting</th> <th>Lower Limit</th> <th>Upper Limit</th> </tr> </thead> <tbody> <tr> <td>1 V</td> <td>10 μV rms</td> <td>1 V rms</td> </tr> <tr> <td>0 dBm</td> <td>-100 dBm</td> <td>0 dBm (50 or 75 ohms)</td> </tr> <tr> <td>0.1 V</td> <td>1 μV rms</td> <td>0.1 V rms</td> </tr> </tbody> </table> <p>MEASUREMENTS</p> <p>Amplitude Measurements:</p> <p>Amplitude Functions: Log A, Log B or Log B - A</p> <p>Display Range (Log A, Log B): 0 dB to - 100 dB</p> <p>Display Range (B - A): - 100 dB to + 100 dB</p> <p>Display Resolution: 0.01 dB</p> <p>Amplitude Reference (Log A, Log B): 0 dB(V) or 0 dB(m), depending on MAX/REF INPUT VOLTAGE setting:</p> <table border="1"> <thead> <tr> <th>Range</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>1 V</td> <td>1 V rms = 0 dBV</td> </tr> <tr> <td>0 dBm</td> <td>0 dBm (50 or 75 ohms)</td> </tr> <tr> <td>0.1 V</td> <td>0.1 V rms = 0 dBV</td> </tr> </tbody> </table>	Bandwidth	- 3 dB Points	- 60 dB Points	10 Hz	$f_o \pm 5 \text{ Hz}$	$f_o \pm 100 \text{ Hz}$	100 Hz	$f_o \pm 50 \text{ Hz}$	$f_o \pm 1 \text{ kHz}$	3 kHz	$f_o \pm 1.5 \text{ kHz}$	$f_o \pm 30 \text{ kHz}$	Bandwidth	90 % Settled	100 % Settled	10 Hz	200 ms	800 ms	100 Hz	20 ms	80 ms	3 kHz	1 ms	4 ms	Bandwidth	Frequency	10 Hz	50 Hz to 13 MHz	100 Hz	500 Hz to 13 MHz	3 kHz	15 kHz to 13 MHz	Setting	Lower Limit	Upper Limit	1 V	10 μV rms	1 V rms	0 dBm	-100 dBm	0 dBm (50 or 75 ohms)	0.1 V	1 μV rms	0.1 V rms	Range	Reference	1 V	1 V rms = 0 dBV	0 dBm	0 dBm (50 or 75 ohms)	0.1 V	0.1 V rms = 0 dBV
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Table 1-2. General Information (Cont'd).

<p>Amplitude Reference (Log B - A): Channel A is reference channel. A positive reading means that the signal applied to Channel B is greater in amplitude than the signal applied to Channel A; a negative reading means that the signal applied to Channel B is lower in amplitude than the signal applied to Channel A.</p> <p>Phase Measurements:</p> <p>Phase Measurement Range: 359 degrees (- 179.5 degrees to + 179.5 degrees)</p> <p>Display Resolution: 0.01 degree</p> <p>Phase Reference: A or - A</p> <ol style="list-style-type: none"> 1) Channel A is the reference channel. A negative phase reading means that B lags A; a positive readings means that B leads A. 2) With the PHASE REFERENCE switch set to the A position, the phase reading is direct. With the switch set to the - A position, Channel A is inverted and the phase reading is offset by 180 degrees. <p>DIGITAL READOUTS</p> <p>Display: 4 1/2 digits with decimal indicator, polarity sign and annunciators.</p> <p>Reading Rate (internal sampling): 4 readings per second</p> <p>Typical A to D Conversion Time (both displays): 400 μsec</p> <p>FRONT PANEL ZERO ADJUSTMENTS</p> <p>The AMP ZERO and \emptyset ZERO adjustments are provided to compensate for slight changes in accuracy that occur due to environmental changes and changes in Bandwidth.</p> <p>Recommended Input Configuration: Zero adjustments should be performed with the A and B Outputs, terminated in 50 -ohm (or 75 -ohm) load, connected to the A and B Inputs. Synthesizer should be set to 0 dBm (or 0 dBV), 1 MHz.</p> <p>Frequency of Adjustments: Zero adjustments should be performed on a daily basis and any time BANDWIDTH setting is changed. If 3570A is operated in an uncontrolled environment, more frequent adjustments may be required.</p> <p>Typical Adjustment Ranges:</p> <p>Amplitude Zero: \pm 6 dB</p> <p>Phase (\emptyset) Zero: \pm 10 degrees</p> <p>REMOTE PROGRAMMING</p> <p>The 3570A will recognize an internally preset "listen" address and accept 7-bit parallel, word serial ASCII-coded instructions.</p> <p>Programmability: All functions, ranges and settings (except LINE and LIMIT SWEEP RESTART).</p> <p>Remote Control Connector: The REMOTE CONTROL connector is a 36-pin*, male PC connector located on the rear panel of the instrument. The connector mates directly with the -hp-11236B Multi-Unit Cable and the -hp-11235A Adapter (the</p>	<p>-hp-11235A Adapter mates with the -hp-10631 GPIB and the -hp-Model 3260A Marked Card Programmer).</p> <p>*Remote Control Lines: Fourteen lines are required for a complete remote input/output and control capability (remaining lines on 36-pin connector are used for digital communication between the 3570A and the 3330A/B Automatic Synthesizer when the two instruments are interconnected with the -hp-11236B Multi-Unit Cable). The fourteen remote control lines include:</p> <ul style="list-style-type: none"> 7 Data lines (LD1 through LD7) 1 Remote Enable line (LREN) 1 Multiple Response Enable line (LMRE) 1 End Output line (LEOP) 3 flag lines: <ul style="list-style-type: none"> Data Valid (LDAV) Ready For Data (HRFD) Data Accepted (HDAC) 1 ground line <p>Isolation: The 3570A remote input/output lines are not isolated. All lines are referenced to frame ground (except in Isolated General Purpose Interface Bus Option 004).</p> <p>Remote Logic: The 3570A uses standard TTL logic:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">State</th> <th style="text-align: center;">Requirements</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Low</td> <td style="text-align: center;">gnd. or 0 V to + 0.4 V (3.2 mA max.)</td> </tr> <tr> <td style="text-align: center;">High</td> <td style="text-align: center;">open or + 2.5 V to + 5 V</td> </tr> </tbody> </table> <p>When a line functions as an input it is normally held at + 3 Vdc by an internal pullup. When a line functions as an output it will supply up to 48 mA in the low state and up to 0.6 mA in the high state.</p> <p>Assertion States: Assertion states are indicated by the prefix "L" (low) or "H" (high). Two flag lines, HRFD and HDAC, have high assertion states; remaining lines have low assertion states.</p> <p>Timing: Timing is controlled by the LDAV flag from the controller to the 3570A and by the HRFD and HDAC flags from the 3570A to the controller. A maximum of 150 μs is required for the 3570A to accept one data word.</p> <p>Addresses: The 3570A is shipped from the factory with a "listen" address of 041 Octal and a "talk" address of 101 Octal ("talk" address applies to Option 004 only). Address code must be accompanied by a Multiple Response Enable (LMRE) instruction. Address codes can be changed by changing the position of jumper plugs on Address Recognition Assembly, A33.</p> <p>GENERAL</p> <p>Operating Temperature: In order for the 3570A to meet the specifications listed in Table 1-1, the operating temperature must be within the range of +20^o C to +30^o C. The instrument can be operated where the ambient temperature is within the range of 0^o C to +20^o C or +30^o C to +55^o C with degraded accuracy.</p> <p>Thermal Cutout: The 3570A is equipped with a thermal switch which automatically removes line voltage when the internal temperature exceeds +75^o C (operating temperature approximately +60^o C).</p> <p>Storage Temperature: -40^o C to +75^o C</p>	State	Requirements	Low	gnd. or 0 V to + 0.4 V (3.2 mA max.)	High	open or + 2.5 V to + 5 V
State	Requirements						
Low	gnd. or 0 V to + 0.4 V (3.2 mA max.)						
High	open or + 2.5 V to + 5 V						

Table 1-3. 3570A Options.

3570A Option (Factory Installed)	Description
001	75 - ohm outputs, 0 dBm Max/Ref Input Voltage setting calibrated to 75 ohms
002	Group delay, offset and limit test (50 - ohm outputs)
003	Group delay, offset and limit test (75 - ohm outputs)
004	Isolated General Purpose Interface Bus

*Field installation kit -hp- 11176A

Table 1-4. Accessories Supplied.

Item	Qty.	-hp- Part No.
Accessory Kit Includes the following:	1 ea.	03570-84401
Rack Mounting Kit	1 ea.	5060-8740
PC Board Extender (25-pin)	1 ea.	03570-66501
PC Board Extender (dual)	1 ea.	03570-66502
PC Board Extender (15-pin)	2 ea.	5060-0049
PC Board Extender (6-pin)	2 ea.	03570-66503
RF Input Cable	1 ea.	11172B
24" Double Shielded Cable	2 ea.	11170B
Fuse: 1.5 A Normal Blo	1 ea.	2110-0043
Multi-Unit Cable (not part of Accessory Kit)	1 ea.	11236B

Table 1-5. Accessories Available.

-hp- Model	Description
11171A*	Front Panel Kit Includes the following: (2) 12" Double Shielded Cables (BNC to BNC) (2) 24" Double Shielded Cables (BNC to BNC) (1) 48" Double Shielded Cable (BNC to BNC) (2) 50 - Ohm Feed-Thru Terminations (1) Screwdriver
11170A	12" Double Shielded Cable (BNC to BNC)
11170B	24" Double Shielded Cable (BNC to BNC)
11170C	48" Double Shielded Cable (BNC to BNC)
11170D	48" Double Shielded Cable (BNC to BNC) (For 75 Ω System)
11048C	50 - Ohm Feed-Thru Termination
11094B	75 - Ohm Feed-Thru Termination
11095A	600 - Ohm Feed-Thru Termination
1201A/B	Variable Persistence Oscilloscope
3260A	Marked Card Programmer
10004B	Voltage Divider Probe
1120A	Active Probe

* For 75 - ohm systems order -hp- 11171B

Table 1-6. Option Cross Reference.

3570A Option	3040A Option	3041A Option	3042A Option
001	101	DNA	101
002	102	100	102
003	103	101	103
004	104	102	STD



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
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SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

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