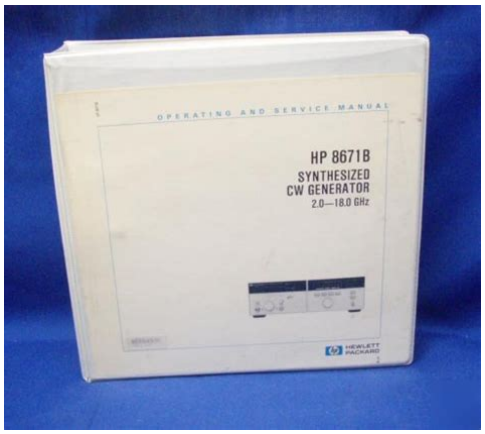
8671b service manual



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Accessories Supplied. Accessories Available. Electrical Equipment Available. Recommended Test Equipment. Section II Initial Inspection. Preparation For Use. Power Requirements. Line Voltage and Fuse Selection. A Power Cables. HPIB Address Selection. Interconnections. Mating Connectors. Operating Environment. Bench Operation. Rack Mounting. Storage and Shipment. Environment. Packaging. Section ill Panel Features. Operating Characteristics. Local Operation. Remote HPIB Operation. Operator's Checks. Operator's Maintenance. TurnOn Instructions. TurnOn. Frequency Standard Selection. Simplified Operation. Frequency. Output Level ALC Control 34. Frequency Control 38. Level Control 312. PeakNorm Adjustment 315. Remote HPIB Operation 317. HPIB Compatibility 317. Remote Mode 317. Local Mode 317. Addressing 317. Data Messages 317. Receiving Data Messages 319. The Complete Data Message 319. The Abbreviated Data Message 319. Receiving the Clear Message 319. Receiving the Trigger Message 320. Receiving the Remote Message 320. Receiving the Local Message 320. Receiving the Local Lockout Message 320. Message 320. Receiving the Pass Control Message 320. Sending the Require Service Message 320. Sending the Status Byte Message 320. Sending the Status Bit Message 320. Receiving the Abort Message 320. Operator's Checks 322. Basic Functional Checks 322. HPIB Checks 326. Section IV Abbreviated Performance Test 41. Calibration Cycle 41. Performance Test Record 41. Equipment Required 41. Test Procedures 41. Frequency Range and Resolution Test 42. Frequency Switching Time Test 45. Output Level, High Level Accuracy Output Level Switching Time Test 420. NonHarmonically Related Spurious. Signals Test 426. Power Line Related Spurious Signals Test 428. SingleSideband Phase Noise Test 431. Internal Time Base Aging Rate 436 Contents Options 907, 908, and 909 10 Numbers 22 Connection 25. As.

Front Panel Features 32 Arguments 310 Worst Case 311 Figure Page Test Setup 42 Waveform 48 Waveform 410 Measurement Waveform 422 Test Setup 423 Test Setup 426 Test Setup 429 Test Setup 436 Table Page Test Record 425 This product is a Safety Class I instrument pro Energy avail Capacitors inside the instrument may still be Any interruption of the protective grounding In addition, verify that a common ground exists Whenever it is likely that the protection has been If this instrument is to be energized via an auto Servicing instructions are for use by service To avoid

dangerous elec Adjustments described in the manual are per For continued protection against fire hazard, re Indicates hazardous voltages. Indicates earth ground terminal. The WARNING sign denotes a Do not proceed beyond a CAU. TION sign until the indicated HewlettPackard 8671B Synthesized CW Gener The 8671B Operating and Service manual has Section I, General Information. Section II, Installation. Section III, Operation. Section IV, Performance Tests. Section V, Adjustments. Section VI, Replaceable Parts. Section VII, Manual Changes. Section VIII, Service. Two copies of the operating information are sup One copy is in the The Operating. Manual is a copy of the first four sections of the. Operating and Service Manual. The Operating. Manual should stay with the instrument for use by Manual can be ordered separately through your The part number Also listed on the title page of this manual, below Service Notes. These specifications are the performance stand The CW Generator and all related documenta Safety informa The last five The prefix is the same for The contents of this NUMBERS on the title page. This unlisted serial The supple In addition to change information, the supplement Changes supplement. The supplement is identified For information concerning a serial number prefix Changes supplement, contact your nearest Hewlett. Packard office.

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Frequency, output level, and ALC modes can be The frequency can be tuned with one of four fre Longterm frequency stability is dependent on the The output of the CW Generator is exceptionally External leveling control The output level is set using the OUTPUT LEVEL. RANGE switch and the OUTPUT LEVEL VERN. IER. The OUTPUT LEVEL RANGE switch The output level is The CW Generator is compatible with HPIB to the SHI, AHl, T6, TEO, L4, LEO, SRI, RL2, PP2, DCl. DTO, and CO, An explanation of the compatibility Standard MCl.l, For more detailed information Interface Bus in Section III of this manual. The following options may have been ordered and If they were not HewlettPackard office using the part numbers Option 907 Front Handle Kit. Ease of handling is Handle Kit part number is 50619689. Option 908 Rack Flange Kit. The CW Generator The Rack Flange Kit part Option 909 Rack Flange and Front Handle Combi Flange and Front Panel Combination Kit part Refer to Power Cables in. Section II of this manual. This fuse has a 1.5A rating This kit is not available However, it is Order HP part number 14940059. If the instru No. 14940061 is needed. The slides without the The HPIB Controller is needed for Flatness and. ALC adjustment procedures and for performance The HP 11 720 A Support Kit is available for main Specifications for output flatness and absolute level Electrical Characteristics. Performance Limits. Conditions Resolution. IkHz Accuracy and Stability. Same as reference Switching Time. Frequency to be within the Remote Programming Absolute. Level Accuracy Accuracy. Remote Programming Output. Level Resolution. Flatness total variation. Output Leveling Switching IdB External leveling device characteristics will deter Maximum Reverse Power IW RF input; i MHz— 20 GHz. OVdc. Source SWR 0.1 Vrms Frequency 400 MHz. Output Impedance; 50n compatible with. Spectrum Analyzer. Range; 2 to 18 GHz. Single Sideband Phase Noise and. Spurious Signals; Same as HP 8340A Table 13.

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Recommended Test Equipment 2 of 3. Instrument. Logic Pulser. Oscilloscope. Power Meter. Power Sensor. Power Source. Variable. Frequency AC. Power Supply. Amplifier, Amplifier, Probe, 101. Signal Generator. Spectrum Analyzer Generator. Critical Specifications. TTL compatible. Response 2 to 18 GHz. VSWR, LO — 10 dBm. Noise Figure —10 dBm. Impedance 500. Must be compatible with the oscilloscope. Output Level —5 to —20 dBm at 240 MHz. Frequency Range 20 Hz to 300 kHz Input Level Range —10 to —60 dBm. Log Reference Control 70 dB dynamic range Recommended. Model Table 13. Recommended Test Equipment 3 of 3. Recommended. Model. Spectrum Analyzer. Frequency Range; 5 Hz to 50 kHz. Resolution Bandwidth 1 Hz minimum. Amplitude Range 0 to 70 dB Frequency Range 100 kHz to 22 GHz Resolution Bandwidth 30 Hz to 300 kHz Center Frequency

150 to 200 MHz. Center Frequency Resolution; 0.1 MHz. Sweep Range 10 and 200 MHz See YTM Adjustments in Section V. Locally fabricated. Test Oscillator. Level 0 to 3V into 50fl or 300n. Range 60 Hz to 10 kHz Installation Included is informa Inspect the shipping container for damage. If the The contents of the ship Section IV. If the contents are incomplete, if there The CW Generator requires a power source of. Hz single phase. Power consumption is 300 VA This is a Safety Class I product that is, If this instrument is to be energized via Verify that the line voltage selection cards and the Figure 21, Line Voltage and Fuse Selection. Fuses may be ordered under HP part numbers The mains plug This instrument is equipped with a threewire Position the Close the cover Figure 21. Line Voltage and Fuse Selection. Power Cables cont'd Refer to Figure 22 for the part numbers of power In the CW Generator, the HPIB talk and listen Refer to Table 21 for a listing of talk and listen To change the HPIB address or to select a dif To avoid hazardous electrical shock, the line Table 21. Allowable HPIB Address Codes. Address Switches Octal. Talk. Address. Char Listen.

Char Decimal. Equiva Service Sheet A. The switches are shown in Figure 23. The HPIB. ADDRESS SELECT switch settings for SI and. S2 are in the octal code. For example, the factory Board Assembly. The zero position provides a false f 2.5 to 5 volts The selected line passes HPIB controller. Figure 23. HPIB Address Switches Shown Interconnection data for the HewlettPackard Inter HPIB Interface Connector. The HPIB mating Coaxial Connectors. Coaxial mating connectors The operating environment should be within the S a. S fl a 3. M I ai. B o, ft Ph K S " t S' o I o 2 Q c 2 O o O OUTPUT LEVEL RANGE sets OUTPUT LEVEL VERNIER EXT ALC INPUT connector ALC switch selects internal. FREQUENCY RESOLUTION TUNING control changes fre LINE switch turns the instrument. It also keeps the. Resolution signal. CAL control adjusts power meter leveling. from left to right of 100 MHz, 1 ing resolution.MHz, 10 kHz or 1 kHz.OtOO MHz 0UTA3J70 dBm nominal into 50 Q FREQ STANDARD Output A3J9 10.000 MHz into Frequency Standard Output A3J9 to the. External Frequency Standard Input A3J 10. Also used to connect MHz at 0 dBm to the CW Generator. The number visible in Figure 32. Rear Panel Features Frequency is set using the FREQUENCY RESO. LUTION keys and the TUNING knob. For exam Press PRESET 3 GHz. This is not always neces First, adjust RANGE to step the output level up or The selected range is Adjust VERNIER between —10 and b3 dBm, as The output level is determined by adding the. RANGE dB display to the LEVEL dBm meter Select the 100 MHz FREQUENCY RESOLUTION Select the 1 MHz FREQUENCY RESOLUTION RESOLUTION key and adjust the TUNING knob Select the 1 kHz FREQUENCY RESOLUTION Press HOLD to disable the TUNING knob. The output level is set with the OUTPUT LEVEL. RANGE and VERNIER controls. INT Internal leveling. XTAL External leveling using a crystal diode PWR MTR External leveling using a power Internalleveling is selected for most applications.

In this mode, an internal detector senses the level UNCAL annunciator. For external leveling a crystal diode detector or Operation is described Detailed Operating Instruction INT Internal leveling. XTAL External leveling using a crystal diode detector. PWR MTR External leveling using a power meter. For most applications internal ALC INT will be used. With internal ALC the output External ALC is used when the power level at a remote point must be kept constant. External ALC reduces power variations due to external cables and connectors. The ALC switch selects the leveling mode. Positive or negative detectors can be used to A calibration adjustment allows the externally ALC mode and status are indicated by the ALC display. The display indicates which The status of the ALC, Local. Procedure. To use Internal Leveling. Set the ALC selector to INT. The output level will be the sum of the range and VERNIER To use XTAL External Crystal Leveling This allows calibration of the meter to the leveled point. This calibrates the If the detector is operating in the square law Figure 33. External Leveling with a Crystal Detector Detailed Operating Instructions CW Generator's meter reading will track with the power meter reading as the. To use external power meter leveling This allows calibration of the CW Generator's meter to the leveled point. A directional coupler can be used to sample the power at the desired point. Set the The recorder output is a

voltage that is proportional to the measured power in watts. This voltage varies from 0 to 2 volts for each power meter range. Leveling as low as This calibrates the C W Generator’s meter This power leveling method has a slow settling time If the ALC CAL control does not have enough range for a low power level adjust The program string consists of the letter. O followed by a single argument representing the desired combination of the control Procedure The codes are summarized in the table under Program Codes.

Detailed Operating Instructions Example. Local. Or Code for ALC. Code for VERNIER. Argument for RANGE 0 dB. Code for RANGE Argument for VERNIER 7 dBm. Code for RANGE. Program Codes HPIB. ALC Mode. Program Code. Argument Detailed Operating Instructions. ALC CONTROL cont’d. Comments Output level flatness is dependent on the ALC circuitry and the maximum available This can only occur if the selected output power is For leveled output power. External ALC leveling also requires that the CW Generator can produce enough The LVL UNCAL annunciator The 0 dB range should be used when using external These oscillations occur only over They can usually be eliminated by performing a. PEAKNORM adjustment or by reducing the output level VERNIER setting 1 or 2 dB. Typical output level switching times are detailed under Level Control. Enabling the RF Disabling the RF output can be accomplished The status of the ALC circuitry Once the status Related Level Control. Sections PEAKNORM Adjustment Detailed Operating Instructions All frequencies can be remotely programmed or entered manually by a tuning knob. The In addition, four degrees of coarse to fine tuning can be selected. Frequency resolution GHz. Once a desired frequency has been set, pressing the HOLD key will disable the tuning The preset key sets the When the CW Generator is turned off or the power cable is removed, the last frequency When the instrument is powered up, the This feature maintains the frequency setting Local To set the output frequency to any desired frequency. Procedure This is not always necessary, but it will set the righthand Remote The C W Generator accepts any frequency within its range 2000.000 to 18599.997 MHz. Procedure to 8 significant digits. Above 6.

2 GHz the frequency is randomly rounded up or down to The CW Generator ignores spaces, commas, decimal points, carriage returns and line Within the CW Generator, frequency information is stored in two separate blocks of Programming within one The output frequency does not change until the frequency execute command Zl is This command must be sent sometime after the fre Detailed Operating Instructions. FREQUENCY CONTROL cont’d. Example. To change frequency from 3000.231 MHz to 3450.001 MHz. Local Adjust TUNING Adjust TUNING for a Adjust TUNING for Code for Frequency Execute Command. Argument for 1 GHz Frequency Resolution. Code for 1 GHz Frequency Resolution Code for Frequency Execute Command. Argument for 100 MHz Frequency Resolution. Code for 100 MHz Frequency Resolution Code for Frequency Execute Command. Argument for 1 kHz Frequency Resolution. Code for 1 kHz Frequency Resolution. Code for 100 MHz Frequency Resolution. Program. Codes A or 0 B or R C or S D or T E or U F or V G or W Detailed Operating Instructions CofTirnents Due to the use of frequency multiplication to generate frequencies above 6.2 GHz, the Frequencies between 2 All frequencies between 6.2 and 12.4 GHz All frequencies between 12.4 and 18 GHz When the CW Generator is programmed to a frequency that is not evenly divisible, a To prevent this, remote programming one should perform a To determine whether a frequency can be set to a given value, divide the desired fre GHz. IF the result is a whole number with no remainder the frequency can be set to the Detailed Operating Instructions. Comments desired value. For example, 16 GHz divided by three it is above 12.4 GHz is 5333333.33 The nearest frequencies that can be set are The time it takes to switch from one frequency to the next depends on the largest fre Generally, the smaller the digit being changed, the shorter Largest Digit. Changed. Time to be. Within 1 kHz IMHz For frequencies above 6.

2 GHz, actual frequency digits being changed must be deter The actual data transfer time is only a small portion of the frequency switching time For applications that require fast execution, the status

byte can be checked until the Once the status byte indicates that the CW Generator is Figure 36. Frequency Switching Time Showing Worst Case Detailed Operating Instructions The output level is set with a RANGE selector and a. VERNIER control. The output level is the sum of the settings of these two controls. The RANGE selector varies the output level in 10 dB steps.This display indicates the Output level ranges of 0 dB to 110 dB ALC program code. The VERNIER knob continuously varies the output level in the 0 dB range from 10 to. In local mode the VERNIER can be varied continuously over the full 13 dB range. In This is useful in appli Local. Remote. To set the output level to any desired value For example, for a —56 dBm output level choose the —50 dB range. Some output levels may be set using either of two adjacent ranges. Either range may be The meter will indicate the actual power available when The 0 dB to 110 dB ranges and the VERNIER setting are programmed with the output When switching from local to remote mode, the VERNIER is reset to —10 dB and the Local Detailed Operating Instructions Example Argument for RANGE 0 dB. Code for RANGE Argument for VERNIER —7 dBm. Codes. Program Codes. Arguments Arguments Description The purpose of these checks is to give reasonable assurance that the instrument is Each check has been designed to be performed with a minimum of test equipment, Therefore, although these checks are extremely Tests in Section IV, which verify that the instrument is performing within its Each check is independent of the others and can be performed separately. If a malfunction is suspected and the CW Generator is being returned to Hewlett. Packard for service, perform the entire procedure.

Document the checks that failed Procedure TurnOn Check Remove all external cables from the front JUMPER A3W3 between A3J9 and A3J10. Check the front panel of the instru This should occur in 15 minutes or less, depending upon This is normal operation. Once the OVEN status annun Set the switch back to INT. The status annunciators Frequency Check. The FREQUENCY MHz display and NOT PHASE LOCKED status annunciator Procedure cont’d If a frequency counter is to be used to check frequency, disconnect the jumper Set the CW Generator as follows OUTPUT LEVEL RANGE selector ALC CAL control. Press the HOLD key. Verify that the CW RANGE dB display. Meter. ALC annunciator. RF annunciator. FREQUENCY MHz display.