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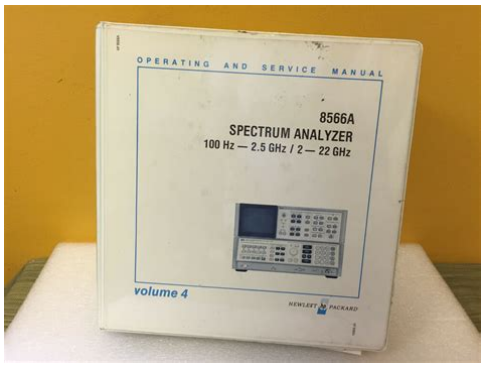

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Our tradein, purchase, and consignment options are designed to return maximum value for your surplus assets. For the best experience on our site, be sure to turn on Javascript in your browser. A spectrum analyzer measures the power of spectrums of known and unknown signals. Spectrum analyzers collect information such as the magnitude of an input signal compared to its frequency. As a frequency analyzer, spectrum analyzers' main use is to document and analyze electrical input signals as well as spectral compositions of other signals. Calibrations None NIST Traceable NIST Traceable With Full Data ISO IEC 17025 Accredited Qty Request Quote Request a Quick Quote Notify me if price changes Add to Wish List Add to Compare Details Additional Features The easytouse interface on the Agilent 8592L provides access to more than 200 builtin functions. Data can be directly output to a printer or plotter through the optional GPIB, RS232, or parallel printer interfaces. These measurements are performed at the press of a single softkey. Results are displayed onscreen. And the downloadable program DLP capability lets you write your own builtin measurements using the DLP editor and an external keyboard. They provide measurement routines and a userinterface specific to the application. A scalar measurements personality customizes the 8590L with optional built in 1.8 GHz tracking generator, and a cable TV measurements personality equips the 8590LSeries with onebutton RF measurements for CATV service and system monitoring. Compliance with the MILT28800 standards of vibration, temperature, humidity, and shock provide assurance that the 8590 series will withstand the rigors of field use. Search all of our available manuals here. Page Count 8 Configuration Guide. HP 8591C Cable TV Analyzer 1 MHz to 1.8 GHz. HP 8591E RF Spectrum Analyzer 9 kHz to 1.8 GHz. HP 8593E Microwave Spectrum Analyzer 9 kHz

to 22 GHz. HP 8594E RF Spectrum Analyzer 9 kHz to 2.9 GHz.http://chongros.com/userData/board/camara-sony-alpha-200-manual-en-espa-ol.xml

HP 8595E RF Spectrum Analyzer 9 kHz to 6.5 GHz. HP 8596E Microwave Spectrum Analyzer 9 kHz to 12.8 GHz. HP 8590L Spectrum Analyzer 9 kHz to 1.8 GHz. HP 8592L Microwave Spectrum Analyzer 9 kHz to 22 GHz. HP 8594L RF Spectrum Analyzer 9 kHz to 2.9 GHz. HP 8594Q QAM Analyzer 9 kHz to 2.9 GHz. HP 8591EM EMC Analyzer 9 kHz to 1.8 GHz. HP 8593EM EMC Analyzer 9 kHz to 22 GHz. HP 8594EM EMC Analyzer 9 kHz to 2.9 GHz. HP 8595EM EMC Analyzer 9 kHz to 6.5 GHz. HP 8596EM EMC Analyzer 9 kHz to 12.8 GHzStd. StdStdSlots Req'd HP. DescriptionMemory card readerPrecision frequency referenceFrequency extension to 26.5 GHz APC 3.5 mm connectorDelete manual setTV picture on screen NTSC, PAL, and SECAM32. DVBC RF and modulation quality measurements. RS and true BER and PID statistics data measurements. Delete TV sync. trigger capability, fast time domainDelete precision frequency reference. Rack mount kit without handles. Rack mount kit with handles. Additional users guide, calibration guide,Component level information and service guide. Quick reference guide in local languages8. DRTS compatibility. NTSC TV monitor. Refurbished spectrum analyzer as available. Factory service training. Commercial calibration certificate with test data. Two additional years returntoHP service9. Two additional years returntoHP calibration9Four additional years returntoHP service9. Four additional years returntoHP calibration9BenchLink spectrum analyzer. Code division multiple access. Global system for mobile communication. North american digital cellular system. Pacific digital cellular system. Personal handyphone system. Opt Card. Slots Req'd HPR03 Memory card reader. R04 Precision frequency reference. R05 CT2 demodulator6, 24. R06 DECT demodulator24. R10 Builtin tracking generator, 50 Ohm 100 kHz to 1.8 GHz. K10 Builtin tracking generator, 50 Ohm 9 kHz to 2.9 GHz17. R11 Builtin tracking generator, 75 Ohm 100 kHz to 1.8 GHz. R15 Timegated spectrum analysis. R19 Noise figure7. R21 HPIB interface4, 22, 27.

R23 RS232 interface4, 22, 27. R24 Parallel printer interface22, 27. R30 Narrow resolution bandwidths. R41 HPIB interface and parallel printer interface4, 22, 26. R43 RS232 interface and parallel printer interface4, 22, 26. R51 Improved amplitude accuracy for PDC bands. R52 Improved amplitude accuracy for PHS band. R60 PDC, PHS, NADC, and CDMA firmware for Option 15135. R73 DSP, fast ADC, and digital demodulator with. R80 TV picture on screen NTSC, PAL, and SECAM. R95 RS and true BER and PID statistics data measurements. HP 11768A Group delay retrofit kitStdStdSlots Req'd HPLink measurements personality30. EMC measurements personality12. Digital radio measurements personality11. Scalar measurements personality11CT2CAI measurements personality. Noise figure measurements personalityPDC measurements personality with modulation accuracy19. Cable TV measurements personality with video tests11,18,15. Std. DCS1800 measurements personality with modulation accuracy. DECT measurements personality. Broadcast measurements personalityCDMA measurements personality upgrade kit B to C. PHS measurements personality upgrade kit A to B. PHS measurements personality with modulation accuracy. GSM Multiband measurement personality. GSM Multiband upgradeTransient limiter BNCf to typeNm, 9 kHz to 200 MHz, 10 dB insertion loss. Printers and AccessoriesPrinter compatibility chart is on the HP internetAustralia, and South Africa requires HP F1011A AC adapter. Amplifiers and PreamplifiersBroadband preamplifier 2 MHz to 1300 MHz, 22 dB gainAmplifier 10 MHz to 3 GHz, 22 dB gain. Amplifier 2 GHz to 8 GHz, 25 dB gain. Other AccessoriesNoise source BNCf to APC 3.5m, 10 MHz to 18 GHz. Limiter typeNf to typeNm, 0.1 GHz to 12.4 GHz, Source Exif Data File Type PDF. File Type Extension pdf. PDF Version 1.2. Linearized No. Page Count 8. Create Date 19980720 155636. Producer Acrobat Distiller 3.0 for Windows. I recently bought an 8593E with a failed RF Switch A3A2, pn 3331460012.

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It is a latching relay rated to 26GHz. One coil was open, so I took it apart to see if I could fix it. No

dice. The coil was clearly overheated. I assume that the overheating caused a short which led to more overheating and eventual corrosion of the wire to create the open. Even with the series resistor, the coil power is about 2.5 watts, applied steadily. On my unit it was more like 4 watts. The power will drop as the copper coil heats up, but its still a lot of power on a small coil. The relay was likely intended for pulse drive on the coils its latching, after all. In this case it is not pulsed. I checked the replacement relay and it worked down to 10v on the coils, so I modified the Analog Interface board to supply 0v and 15v to the relay coils. It works fine. John Gord Replaced the relay some 5 years ago, burned coil, and took out the driver transistor array as well. Replaced the relay, and the driver IC was HP house number, but was able to simply use discrete transistors. Also wondered why coils were continuously driven, as latching operation is obvious when relay housing opened up. So, were are going in again, and we were lucky to be able to buy 3 relays 5 years ago for very cheap, so we are OK there. This time around will do the mod to reduce the dissipation. Thanks John.! And while Im in there amongst all the plumbing, Id like to see if I can get the attenuator module for the tracking generator working properly. I have a recollection of reading that there is something to do with mechanical contacts on the assembly. Ill start a new thread on that question to see what the collective wisdom has to say. The positive leads from the relay coils terminate at connector J2 on the A7 Analog board. My solution was to move the contact from position 9 in the connector to position 8, which is a noconnect on the A7 board. I then ran a short jumper from pin 8 to pin 3, of J2 which is ACOM, analog common, ground.

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Again, the coil failure lowered the resistance, and eventually took out the driver transistor. You can use discrete 2N2222s to replace the DIP array that was installed originally. As for the possibility of actually repairing the relay, I now have two with one fried coil, and one good coil. It certainly looks like a microscope and tweezers job, but it may be possible to swap the coil. May also be possible to rewind the cooked coils, but that would depend on the cost and availability of functional relays. I suspect I will not be the first to attempt this, given some of the prices I saw 5 years ago when I sourced my replacements. Will report on that in the future. And, it is possible while working very late, and not paying attention, that you can install the relay in the tangle of RF plumbing backwards. One would think that the label faces outwards.I dont have a CLIP for this analyzer. Thanks, Vladan Having said that, here are the relevant parts I was curious to see what they did there, as its not clear to me from the thread how this circuit works. I dont have a 8592 or anything else with this relay circuit. There are two coils in the relay. Both of you say that, by design, this relay is not used in its latching mode. In other words, is this designed so that the coils get a temporary current boost from 30V during switching, but afterwards remain at a sustaining current from the 15V supply. And what holds relay PIN 1 or PIN 5 at 0V if the 19.6k resistors are not loaded on the board. I guess, I would have to see the schematic of the relay coil circuit to understand this. Vladan I was curious to see what they did there, as its not clear to me from the thread how this circuit works. I dont have a 8592 or anything else with this relay circuit. There are two coils in the relay. Both of you say that, by design, this relay is not used in its latching mode.

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fully paying attention to the design details. It apparently worked well enough that there were no early failures to flag the problem. John Gord Yes, actually two strange things. Its a latching relay, but as I understand you, the coil is powered all the time. Why would that be, especially in a portable analyzer where power consumption is a big deal. Are you sure they arent sending a pulse to the relay Vladan So, your coils are now dissipating something like 1W or a little more. Vladan Not ideal, but way less than the original arrangement. John So, your coils are now dissipating something like 1W or a little more. Vladan Assuming the coil restance was constant, thats 9 times the power dissipated during the kick start period. We cut back the current after IIRC some tens of milliseconds to avoid getting the coil too hot. No sense burning up the coil prematurely. Maybe 1 W is not too bad. IIRC, we were dissipating at least a few watts during kick start. HTH. Jim Ford Sent from my Verizon, Samsung Galaxy smartphone So, your coils are now dissipating something like 1W or a little more. Vladan Values need to be obtained by experiment.

Milan We cut back the current after IIRC some tens of milliseconds to avoid getting the coil too hot. No sense burning up the coil prematurely. Maybe 1 W is not too bad. Not ideal, but way less than the original arrangement. John On Thu, Feb 13, 2020 at 1119 PM, pianovt wrote It does look bad, I cant think of a good explanation either. So, your coils are now dissipating something like 1W or a little more. Vladan I used a small programmable logic device to turn the KS and hold transistors on at the proper times. Jim Sent from my Verizon, Samsung Galaxy smartphone Assuming the coil restance was constant, thats 9 times the power dissipated during the kick start period. We cut back the current after IIRC some tens of milliseconds to avoid getting the coil too hot. No sense burning up the coil prematurely. Maybe 1 W is not too bad. Not ideal, but way less than the original arrangement. John On Thu, Feb 13, 2020 at 1119 PM, pianovt wrote It does look bad, I cant think of a good explanation either. So, your coils are now dissipating something like 1W or a little more. Vladan I found a very similar model, the 3331460014. Its a 20GHz version of the 60012 and this one has 15V coils opt 015. It has fried coils. Its actually a very nice design, lower cost than the usual HP stuff. Its possible they originally had a more expensive switch in there that had the current interruption built in, but one day someone decided to lower the cost, without thinking it through.Of all the suggestions and ideas, I think Milans is the best. The resistor is there just to discharge the capacitor between switching events. If its too large, you have to wait longer before the switch driver will work again. If the resistor value is too small, there will be more current through the coil when that side of the switch is activated. I also checked the specs on this switch. Its tested in production to operate down to 19V, switching time is I dont have an analyzer with this switch driver, so I cant try it.

Basically, if anyone wants to play with this, replace R261 with a parallel combination of the capacitor and resistor I mentioned above, and do the same for R262. If your analyzer doesnt have R261 and R262 older design, you will have to be creative about inserting the parts, and my guess is that you have already seen at least one fried switch. Vladan I dont know of a simple solution for all situations. Im happy with 15v drive on my SA, but only because my particular relay worked at 10v. John Of all the suggestions and ideas, I think Milans is the best. The resistor is there just to discharge the capacitor between switching events. If its too large, you have to wait longer before the switch driver will work again. If the resistor value is too small, there will be more current through the coil when that side of the switch is activated. I also checked the specs on this switch. Its tested in production to operate down to 19V, switching time is I dont have an analyzer with this switch driver, so I cant try it. Basically, if anyone wants to play with this, replace R261 with a parallel combination of the capacitor and resistor I mentioned above, and do the same for R262. If your analyzer doesnt have R261 and R262 older design, you will have to be creative about inserting the parts, and my guess is that you have already seen at least one fried switch. Vladan I will choose R just sufficient to permit relay permutation. If non latching, just enough high to keep minimum necessary holding current. C is there to boost transition, and depends of relay physical commutating

speed.I dont know of a simple solution for all situations. Im happy with 15v drive on my SA, but only because my particular relay worked at 10v. John On Mon, Feb 17, 2020 at 0533 PM, pianovt wrote Its a shame this was put into production. Of all the suggestions and ideas, I think Milans is the best. The resistor is there just to discharge the capacitor between switching events.

If its too large, you have to wait longer before the switch driver will work again. If the resistor value is too small, there will be more current through the coil when that side of the switch is activated. I also checked the specs on this switch. Its tested in production to operate down to 19V, switching time is I dont have an analyzer with this switch driver, so I cant try it. Basically, if anyone wants to play with this, replace R261 with a parallel combination of the capacitor and resistor I mentioned above, and do the same for R262. If your analyzer doesnt have R261 and R262 older design, you will have to be creative about inserting the parts, and my guess is that you have already seen at least one fried switch. Vladan The Group moderators are responsible for maintaining their community and can address these issues. This includes harm to minors, violence or threats, harassment or privacy invasion, impersonation or misrepresentation, fraud or phishing. Subject of the new topic. Something went wrong.Get the item you ordered or your money back.User Agreement, Privacy, Cookies and AdChoice Norton Secured powered by Verisign. It is like a Shopping Cart, but instead of inserting items to purchase into your cart, you insert your requests for quotes. You can manage your Request Cart by clicking on the icon Note If you are a dealer, please register here.It is like a Shopping Cart, but instead of inserting items to purchase into your cart, you insert your requests for quotes.The easytouse interface provides access to more than 200 builtin functions. You can send up to 10 dealer emails at a time, and up to 30 per day. The Dealer Directory is intended for visitors to make specific business inquiries and should not be used to send bulk emails.