



Test Equipment Plus

World-class test equipment repair and service.

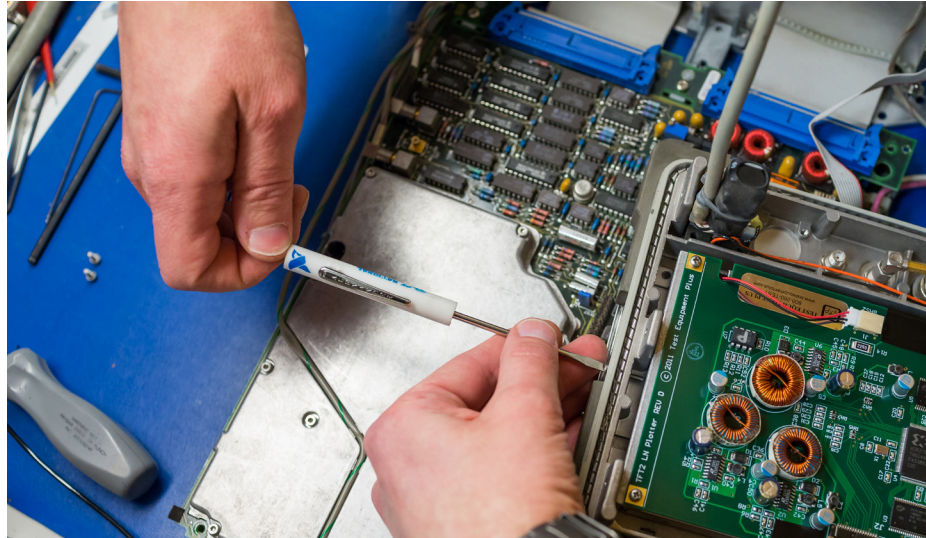
Specializing in repair and service for:



Agilent Technologies



Test Equipment Plus provides cost-effective component-level repair services for Keysight/Agilent/HP test and measurement equipment. We designed and built our own 5dB 50GHz step attenuator die to support repairs of Agilent 50GHz step attenuators. We designed and built our own 7 GHz 1 watt GaAs amplifier die, the TEP519B, to support repairs of the Amplifier/Filter used in the HP/Agilent 836xx series signal generators. We design and build many of our own extender boards. We also designed and manufacture two LCD Retrofit Kits, one for the HP 8566/8568 spectrum analyzers and one for the HP/Agilent 8560 series spectrum analyzers. This level of repair commitment is unheard of and sets us apart from the rest of the test equipment repair industry. Many test equipment repair companies can only replace assembly-level parts. They are unable to do cost-effective component-level repairs. We routinely get feedback from our new customers telling us how pleased they are for the excellent service we provide and also how reasonable our prices are.



We have a simple process, and it's easy to get started:

1. Send us your broken test equipment for repair
2. We'll give you a free instrument evaluation and repair cost estimate

We specialize in repairing the following Keysight/Agilent/HP spectrum analyzers, network analyzers, and signal generators, operating up to 50GHz:

Agilent X-series Signal Analyzers

We have the equipment, parts, and expertise to repair your Agilent X-series signal analyzers (N9040B, N9030A, N9020A, N9010A, N9000A, N9038A). Does your instrument fail RF align or display an LO unlock error? We can fix it right and your bill will be less than if you sent it to any of our competitors.

Agilent PSA, ESA and 8560 series Spectrum Analyzers

We also specialize in repairing the PSA (E4440A, E4443A, E4445A, E4446A, E4448A), ESA (E4401B, E4402B, E4403B, E4404B, E4405B, E4407B, E4408B, E4411A, and E4411B) and the 8560 series (8560E, 8560EC, 8561E, 8561EC, 8562E, 8562EC, 8563E, 8563EC, 8564E, 8564EC, 8565E, 8565EC) spectrum analyzers. We repair down to component level and fully support all failures. We have the complete documentation and software required to properly align the units post repair to ensure unit fully meets OEM specifications.



Email us: service@teplus.com

Online: www.testequipmentplus.com

Call us: 1-800-260-TEST (8378)



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Agilent PNA, ENA, and 87xx-series Network Analyzers

We repair the PNA series (E8356A, E8357A, E8358A, E8362A, E8362B, E8362C, E8363A, E8363B, E8363C, E8364A, E8364B, E8364C, N5221A, N5222A, N5224A, N5225A, N5230A, N5230C, N5231A, N5232A, N5234A, N5235A, N5239A, N5241A, N5242A, N5244A, N5245A, N5249A). We also repair the ENA series (E5061A, E5061B, E5062A, E5063A, E5070B, E5071A, E5071B, E5071C, E5072A, E5080A). We repair down to component-level and have the OEM open-short-loads and software needed to run the corrections, ensuring every repair will pass calibration. The 87xx-series VNA (8719C, 8719D, 8719ES, 8719ET, 8720C, 8720D, 8720ES, 8720ET, 8722C, 8722D, 8722ES, 8722ET, 8753C, 8753D, 8753E, 8753ES, 8753ET) are still a mainstay for many companies. We can fix whatever failure you can throw at us.

Agilent X-series Signal Generators

We have the equipment, parts, and expertise to repair your Agilent X-series signal generators (N5161A, N5162A, N5171B, N5172B, N5173B, N5181A, N5181B, N5182A, N5182B, N5183A, N5183B). Your bill will be less than if you sent it to any of our competitors.

Agilent ESG and PSG series Signal Generators

We fully support the entire ESG series (E4400B, E4420B, E4421B, E4422B, E4423B, E4424B, E4425B, E4426B, E4428C, E4430B, E4432B, E4433B, E4434B, E4435B, E4436B, E4437B, E4438C). We also support the whole PSG series as well (E8241A, E8247C, E8251A, E8254A, E8257C, E8257D, E8267C, E8267D).

Agilent 836xx series Signal Generators

We have gone the extra mile with this venerable series (83620A, 83620B, 83621A, 83621B, 83622A, 83623A, 83623B, 83630A, 83630B, 83630L, 83631B, 83640A, 83640B, 83640L, 83650A, 83650B, 83650L, 83651A, and 83651B). We can rebuild every module on the RF deck, including the low band module (p/n 5086-7463), as well as all the circuit boards in the rest of the instrument. We have even designed a 7 GHz 1 watt GaAs amplifier die, the TEP519B, built it through a third party semiconductor foundry, and use it to repair the previously unrepairable Amplifier/Multiplier modules in this series. This strategic move has ensured that the 836xx series will be supported for many years to come.

HP 8920A and 8920B RF Communications Test Set Repair and Upgrade

We are one of only a few repair centers, outside of the manufacturer, that is capable of full service repairs on this popular test set. We can add or delete any option as well as repair the 8920A/B.

Agilent/HP Step Attenuator repair

- \$400 flat rate to rebuild 90% of HP Step Attenuators up to 26.5GHz and 110dB
- \$800 flat rate to rebuild 90% of HP Step Attenuators from 40GHz to 50GHz
- TEP designed and built their own 5dB 50GHz step attenuator die to ensure ongoing repair capability for Agilent 50GHz step attenuators.
- Turn-around time is typically five to seven business days
- One-year warranty and network analyzer test data plots included with rebuild
- Check our website for full list and pricing on support part numbers

<http://testequipmentplus.com/inventory/Attenuator.php>



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We get your RYTHM and SBTX tower assemblies rebuilt with a 90-day warranty

- The RYTHM assemblies, p/n 5086-7884 & 5086-7981 used in the HP 8562E / EC and 8563E / EC spectrum analyzers.
- The RYTHM assemblies, p/n 5087-7070 & 5087-7183 used in the PSA E444x series.
- The RYTHM assemblies, p/n 5087-7034 & 5087-7031 used in the ESA E4404B, E4405B, E4407B and E4408B spectrum analyzers.
- The SBTX assembly, p/n 5086-7930 & 5086-7883 used in the HP 8564E/EC and 65E/EC spectrum analyzers.
- The SBTX assembly, p/n 5087-7184 & 5087-7185, used in the PSA E4446A and E4448A spectrum analyzers.

CRT and/or LCD Replacement

We can replace your worn out CRT and/or LCD with a new one in the following HP models:

4155B, 4194A, 4195A, 8510A, 8510B, 8510C, 8530A, 8542E, 8546A, 8560A, 8560E, 8560EC, 8561A, 8561B, 8561E, 8562A, 8562B, 8562E, 8563A, 8563E, 8564E, 8565E, 8566A, 8566B, 8567A, 8568A, 8568B, 8590A, 8590B, 8590D, 8590E, 8590L, 8591A, 8591C, 8591E, 8591EM, 8592A, 8592B, 8592D, 8592L, 8593A, 8593E, 8593EM, 8594A, 8594E, 8594EM, 8594L, 8594Q, 8595A, 8595E, 8595EM, 8596E, 8702D, 8703A, 8719A, 8719B, 8719C, 8719D, 8720A, 8720B, 8720C, 8720D, 8720ES, 8720ET, 8722A, 8722C, 8722D, 8722ES, 8722ET, 8751A, 8752C, 8753A, 8753B, 8753C, 8753D, 8753E, 8753ES, 8753ET, 8757A, 8757C, 8757D, 8757E, 8920A, 8920B, 8921A, 89410A, 89441A, 89441V, ESA E440xB series. We are adding more models each month.

Color LCD Display Replaces CRT in HP 8566A/B, 8568A/B Spectrum Analyzers

- Color LCD display has VGA resolution (640 x 480 pixels)
- \$995 in single quantities, \$846 for quantities of 3 to 9, and \$697 for 10 or more kits
- Plus a refundable \$300 core charge for the old bezel casting

Remember—these are the highlights. If you have a Keysight/Agilent/HP RF spectrum analyzer, VNA, signal analyzer, sweep or signal generator that you don't see on the list and need repaired then please send us an email to: service@teplus.com. There are many more models which we support down to component-level that aren't listed. With over 60 years of combined test equipment repair experience, a world class RF repair technician, and access to our amazing Signal Hound RF engineering team on staff, there is no problem that we can't solve. At Test Equipment Plus, repairing instruments is not about whether or not it can be done. It is about ensuring that every repair is economical for the customer. We look forward to hearing from you.



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