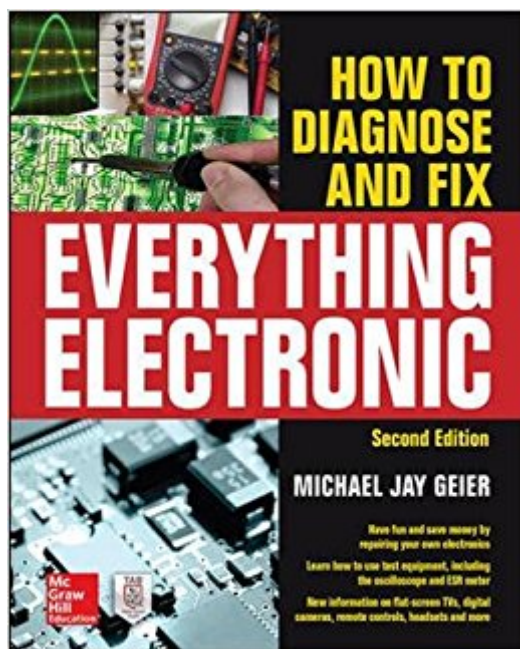


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# How To Diagnose And Fix Everything Electronic, Second Edition



## Synopsis

A Fully Revised Guide to Electronics Troubleshooting and Repair Repair all kinds of electrical products, from modern digital gadgets to analog antiques, with help from this updated book. How to Diagnose and Fix Everything Electronic, Second Edition, offers expert insights, case studies, and step-by-step instruction from a lifelong electronics guru. Discover how to assemble your workbench, use the latest test equipment, zero in on and replace dead components, and handle reassembly. Instructions for specific devices, including stereos, MP3 players, digital cameras, flat-panel TVs, laptops, headsets, and mobile devices are also included in this do-it-yourself guide. Choose the proper tools and set up your workbenchEnsure personal safety and use proper eye and ear protectionUnderstand how electrical components work and why they failPerform preliminary diagnoses based on symptomsUse test equipment, including digital multimeters, ESR meters, frequencycounters, and oscilloscopesInterpret block, schematic, and pictorial diagramsDisassemble products and identify sectionsAnalyze circuits, locate faults, and replace dead partsRe-establish connections and reassemble devices

## Book Information

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## Customer Reviews

Michael Jay Geier has been an electronics technician, designer and inventor since age 6. He took apart everything he could get his hands on, and soon discovered that learning to put it back together was even more fun. By age 8, he operated a neighborhood electronics repair service that

was profiled in The Miami News. He went on to work in numerous service centers in Miami, Boston and Seattle, frequently serving as the “tough dog” tech who solved the cases other techs couldn’t. At the same time, Michael was a pioneer in the field of augmentative communications systems, helping a noted Boston clinic develop computer speech systems for children with cerebral palsy. He also invented and sold an amateur radio device while writing and marketing software in the early years of personal computing. Michael holds an FCC Extra-class amateur radio license. His involvement in ham radio led to his writing career, first with articles for ham radio magazines, and then with general technology features in Electronic Engineering Times, Desktop Engineering, IEEE Spectrum, and The Envisioneering Newsletter. His work on digital rights management has been cited in several patents. Michael earned a Boston Conservatory of Music degree in composition, was trained as a conductor, and is an accomplished classical, jazz and pop pianist, and a published songwriter. Along with building and repairing electronic circuitry, he enjoys table tennis, restoring antique mopeds, ice skating, bicycling, and banging out a jazz tune on his harpsichord.

This is, hands down, the best book I have ever read on understanding electronics. I’ve had college and post-graduate courses that taught me how to analyze circuits and figure out what voltages, currents, resistances, etc. were at certain points. That was all well and good, but totally useless for anything that I wanted to do on my work bench. In reality, what I needed was a holistic approach that narrated the circuit and the signals that are manipulated. I NEVER thought of circuits this way and the author was able to explain that the active elements are the players in the story and everything else is a supporting cast. I could read a schematic, but I couldn’t understand why the components were there. I know that a capacitor doesn’t pass DC, but now I see that when placed in the circuit, it acts as a DC filter to remove noise before passing a signal to the next stage. On top of all that, I realized that every circuit has a voltage that is used as a signal. Signal analysis, analog and digital, seemed like a very advanced topic that I only understood through major concepts (linearity, aliasing, etc). Now I realize that a battery and a light bulb has a signal just as a digital video camera does. One is just more complex. Bottom line, this is the book that I couldn’t put down...and it is about some of the driest material you can find. It is written in a fun and enjoyable fashion. Every page had an “AH HA!” moment and I am much more confident in my electronics hobby and profession. I cannot recommend this book enough and I would pay triple just for the section where the author walks through a couple sample circuits, describes each component’s function, and what would happen if that component failed.

I already own the 2011 version of this book, it's an informative book that is easy to follow and use. Some stuff seems so simple you wonder why they included it, but you have to remember everyone needing this book starts at a different level of knowledge. The new book covers much of the same material, although freshened up and rearranged or just tweaked. There is some new material in the current version and he has made an effort to include some things that were not there before as technology changes. Either book would be a good start for anyone but the new one is of course better because of the new additions. The glossary has grown also. Both have black and white photographs of internal parts. Many photos are the same in both books, there are diagrams also.

This book is like an electronics repair 101. It teaches you the basics of electronics, types of test equipment and how to diagnose and repair a number of common electronic appliances. As stated in the Introduction, by "everything electronic", the author meant that the principles and techniques you'll learn can be applied to every kind of consumer electronics device presently available. The book does not purport to discuss every component and electronic device, which is clearly impossible. I find this book invaluable to gaining an understanding of the more common maladies which can plague electronic devices, more particularly, to know which type of problems are worth fixing and when it would make more sense to write off the whole device. Consumer electronics are relatively cheap nowadays while repair costs are high (when out-of-warranty). I would highlight one area which I found particularly useful - the author took pains to highlight certain components which can deliver a nasty electric shock, sometimes even with the power off. Since I usually prefer not to taser myself, just knowing the danger zones to avoid is more than worth the cost of the book.

Great update to a great book! When I first started tinkering in electronics, it occurred to me that I could learn to decipher some of the mysteries inside my electronics, and perhaps repair some. I had not fixed anything beyond replacing vacuum tubes in tvs and radios in the (very!) distant past. I have enjoyed my attempt to repair electronics using the first edition- if I succeed, it was fantastic, and if not, it was a learning experience. The book includes a nice introduction to basic electronics which for a newbie like myself is a very helpful review. The new version includes smart phones and tablets and is about 50 pages longer.

Michael Geier speaks my language 100 percent. I am a self taught working Electronics Technician with 50 years experience. I am always willing to learn more of my craft from those who are like

minded. I really enjoy reading this book. Michael has the same approach to troubleshooting as I do. I am a forensic investigator looking for the problem and then when the problem is located, I switch hats and become a surgeon and repair with care. Michael teaches the same methodology. Speaking of his teaching, He is the man. He has a style in which learning and understanding is so easy. if you are new to electronics and want to learn to troubleshoot and learn to use test equipment, Michael is your man. If your like me and didn't get the formal training and think you might be missing some understanding or tricks well, I'll say it again Michael is your man and this book is the book!! I have read a bunch of " Learn How To..." books but, this one speaks to me in a way no other has. This book is worth way more than it's selling price. You wanna learn....buy this book.... period.

An excellent handbook on electronics, one I wish I'd had 20 years ago when I was learning that stuff. I'm still only about halfway through it, but recommend it for anyone as a brush-up or introduction to consumer electronics repair.

A very informative book on troubleshooting almost every type of electronic equipment. All electronics nerds must own this.

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