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# Laptop motherboard repair book pdf

Nov 25, 2015ReportDownloadCategory:DocumentsTranscript:LAPTOP REPAIRCOMPLETE GUIDE,INCLUDING MOTHERBOARDAND COMPONENT LEVEL REPAIRIAUTHOR: GARRY ROMANOLaptop Repair Complete Guide page iLAPTOP REPAIR COMPLETE GUIDE,INCLUDING MOTHERBOARD ANDCOMPONENT LEVEL REPAIRHANDS ON STEP BY STEPINSTRUCTIONSWritten by: Garry Romano West Seneca, New York Create Space Publishing, 2011 Laptop RepairComplete Guide page ii 2011 Garry Romano, West Seneca, New YorkOther relevant published Releases from this author : Worlds First Complete Guide to Laptop & Notebook Repair AnDLaptop & Notebook Video/Graphics/GPU RepairAll rights reserved. No part of this book may be reproduced or transmitted in any form or by anymeans without written permission from the author.Laptop Repair Complete GuideReview(s) from actual buyer (Amazon.com)5.0 out of 5 stars I recommend this book highly!, September 30, 2011 By peyman khodadadi See all my reviewsAmazon Verified Purchase (What's this?) This review is from: Worlds First Complete Guide To Laptop & Notebook Repair (Paperback)I bought this book "World's First Complete Guide to Laptop & Notebook Repair" and I loved it. I learned a lot from this book. It is gives you a step by step knowledge on what to do to repair yourlaptop. It is not that basic that you get bored. Still has a very easy to understand language that all tyooof people can learn from. If you have a basic knowledge of Electronic and would like to step intoLaptop repair world, I recommend this book highly.Help other customers find the most helpful reviewsWas this review helpful to you? Yes NoReport abuse | PermalinkComment Comment5.0 out of 5 stars A very Informative Book. Things you need to know to fix a Laptop!, August7, 2011 By Kevin See all my reviewsAmazon Verified Purchase (What's this?) This review is from: Worlds First Complete Guide To Laptop & Notebook Repair (Paperback)This is a book that goes deeper into the Motherboard End of Laptop Repairing, Just what I waslooking to learn! I already knew the generalized "easy" repairs such as screen replacement,Upgrading RAM, Hard Drives and such, But Motherboard repair is what I really needed to learn.After reading the book in it's entirety, then rereading it a second time, I was able to repair a bunch ofLaptop motherboards that I otherwise would have tossed out!! Great Book, would highly recommendthis to any computer technician. Help other customers find the most helpful reviewsWas this review helpful to you? Yes NoReport abuse | PermalinkComment CommentLaptop Repair Complete Guide page iTABLE OF CONTENTS:Chapter 1 Chapter 2Chapter 3Chapter 4Chapter 5Chapter 6Chapter 7- Basic Troubleshooting Used By A Laptop Technician - Common Parts And Functions Of The Average Laptop- Installing Operating Systems On Laptops And Netbooks- Complete Disassembly / Taking Apart The Laptop - Laptop Screen Disassembly Instructions - Laptop Screen Types, Including Bulb/Inverter Repair - Laptop Not Powering On Issues & ResolutionsLiquid Spill Discussion Cleaning The Motherboard DiscussionChapter 8 - Laptop Not Powering On Issues: Part 2: Video Related Cleaning The Fan And Heat-Sink Assembly DiscussionThermal Paste Usage & Removal Discussion Chipset DiscussionChapter 9 - Reflowing The GPU Coin-stack Use Discussion BGA Explanation Heat Gun Use/Hot Air Gun Tips and NozzlesMonitoring The Temperature Tips For A Successful Reflow Chip Sealant / Epoxy Removal Preheating the PCB Use Of Flux FanModification/Thermal Controller Thermal Pads Verses Shims Use Of Thermal PasteChapter 10 - Laptop Not Powering On Issues: Part 3- Motherboard Related Blown Voltage Regulator Types Of Voltage Regulators/Images/Vectors Blown Capacitors Tantalum & ElectrolyticLaptop Repair Complete Guide iTABLE OF CONTENTS: continuedChapter 10 - continued Motherboard Testing Procedures Motherboard Testing Tools Methods To Testing CapacitorsIdentifying Components On The Laptops Motherboard Motherboard Flex Issue Discussion Schematic DiscussionMotherboard Repairing DiscussionChapter 11 - Soldering Micro Components De-soldering Process Tools Used In Soldering Soldering ProcessExplained Diagnosing And Repairing A Failing Hard DriveIntroductionThis book was written to allow a better understanding as to how exactly a Laptop can fail andhow an individual such as yourself, can troubleshoot, diagnose and properly repair the faulty issue(s)that may arise while saving a ton of money rather than sending it to a repair facility or buying newreplacement parts.Great for current Students enrolled in Technology related courses, as this information is not taught inclasses.DIY (Do It Yourself) Laptop Repair GuidePlease take the time to read this book in its entirety, then re-read it again to ensure you get a clearunderstanding of all its content. I also recommend that you purchase my First book release entitled:Worlds First Complete Guide to Laptop & Notebook Repair. Suitable for all age groups and learning levels this book will teach you without all thetechnical terms used, and will explain, step by step, in great detail. I will not include all thearithmetic equations used, or the specific detailed component schematics, rather, I will replace thoseconfusing terms with easily understandable replacement terms for your convenience and to allow abetter understanding for the Beginner or inexperienced technician.Garry RomanoLaptop Repair Complete Guide vChapter 1Basic tools used by a Laptop Techniciandiscussion of both hand and power tools usedHere I will list the tools common name, then, I will give a brief description of that tool'suses relating to Laptop repairing. Please note: Being that this is a DIY book, I will omit thetools that theaverage person can not obtain or tools that would be out of price range for most individuals. Phillips Head Screwdriver This is not theaverage sized screwdriver, as that would be too large for the tiny screws used on laptops today.This is the micro-sized screwdriver, which can be bought at your local Home Improvement store. I myself use an all-in-one screwdriver that houses the extra tips inside the screwdriver itself. Then, I also use the screwdriver set from an Eyeglass Repair Kit, or better yet, go on Ebay.com and searchout: iPod Repair tool kit this will include 3 or so screwdrivers and a couple plastic pictures forprying parts apart. Star Tipped Screwdriver This is also a commonlused tool, mainly used on the Macintosh brand, though also common on Dell, Alienware, andSony Vaio. If you do not have access to one of these, you can purchase one from your local Auto PartsStore (ask the clerk for assistance in locating one) and you will definitely need the multiple tip packto allow different sizes for different Laptop models. Mini Pliers -I suggest that you buy mini needle nosedpliers because they are easier to use on the micro sized components that make up the laptop. Thepliers I use are 3 inches long. I find that the normal sized pliers are way too big and do not reach intoertain areas that the mini can. Toothbrush This, believe it or not, is the secondmost used tool in Laptop Repair. Yes. A toothbrush You will use this on each and every laptopyou repair. Why you ask? The toothbrush is used to clean any and all parts and components in and onthe laptop. Cleaning the laptop parts as you repair is detrimental to the longevity of the laptops life. Its used to clean the keyboard, the motherboard and any case part. More detailed usages will followthroughout this book and should be applied as instructed. Scissors -The smaller the better when obtaining your scissors. I use haircutting scissors becausethey are small and the cutting tips are thin and narrow. Electrical Tape This is used to wrap cables andwires, and used to secure or flatten wire or cable tracks on or in the laptop. I try not to use this onwire or cable wrapping if possible because I have found that over time the tape will slowly unraveland can become sticky on the outer-side. Shrink Wrap Tubing -These can usually be foundin variety packs, the larger of the sizes will be the one you use most commonly in laptop repair.These are placed over the repair area on the wire or cable, they are basically rubber tubes that youcut to your specifically needed length, then heat the tube to shrink it to the size of the wire or cablebeing repaired. Copper Foil Tape A less common item used,though you will eventually need this if you are repairing laptops on a regular basis. This will beused for motherboard PCB repair and is more commonly used for DC Jack C-ring replacement/repair. Adjustable Pliers This is a less commonly usedtool, though it will be needed at times. I will rarely use this on a DC Jack repair to gently wigglethe jack loose from the desoldered contact pads. You will find other uses for this tool so it is a goodtool to add to your collection. Liquid (no residue) Flux -For this tool, I recommend that you get both a paste form and the liquid PEN form. Both are readily available onEbay for a small price, yet are hard to find locally at a store, you can try shopping at Radio Shack forFlux Paste, but doubtful they have the flux pens. Thin Tipped Black Permanent Marker -This is used often to mark screw holes, or to mark the areas of damage on the laptopsparts. Plastic Prying Tools -These will be needed for a Laptop Repair Training - Notebook Repair, Motherboard Repair, Hardwa... Chip Level Training, Training Manual, Service Guide, Tutorials,Tips We take you step by step through repairing laptops. Laptop Repair Training - Notebook Repair, Motherboard Repair, Hardwa... Chip Level Training, Training Manual, Service Guide, Tutorials,Tips Step By Step Tutorials NVIDIA GPU REBALL PROCESS This is the Hp Dv 6000 with blank screen display Now Available On CD/DVD !!! Laptop & Computer Repair Course + 1000 Motherboard Schematics & Software! Worldwide Free Shipping Laptop Repair Training - Notebook Repair, Motherboard Repair, Hardwa... Chip Level Training, Training Manual, Service Guide, Tutorials,Tips White vertical lines on the screen This is a fully comprehensive instructional course in getting into the business of repairing all makes of laptops. As well as all that, we also have our support team to answer any questions you may have in a full range of subjects. The Course is full of resources for buyers of any of the courses. The students has access to a huge range of tools, software including business and web design software. We also have links to laptop and PC suppliers, parts and accessories in the UK and USA This is the Nvidia gpu chip on the motherboard Advance Chip Level Module Chip-level Training will be customized for your present knowledge of electronics. If you go through the fundamental track , all the power electronic components will be introduced before we move to the logics section. After you become comfortable with power electronics the logic session follows. It is an intensive coverage into the intricate details of chip-level service of the laptops. This involves detailed circuit tracing , signal analysis , replacement of SMD devices and all the tips and tricks our service engineers acquired from the years of experiences. the session makes you confident enough to chip-level service the new generation notebooks from Lenova , Compaq ,HP , Toshiba ,Sony and the like . Laptop Repair Training - Notebook Repair, Motherboard Repair, Hardwa... Chip Level Training, Training Manual, Service Guide, Tutorials,Tips Service Technicians entering into the Laptop training course must have experience in the following disciplines ●●●●● must be comfortable in using desktop systems and peripherals must have an above average knowledge about all the internal components and operation of the system comfortable with installing and managing various operating systems. managing the hard disk subsystem with formatting and partitioning. installation and configuration of computer components like add-on devices Ready To Learn A New Skill Online? You must sprade flux around the eage of the chip Now position on the reball machine for chip removal Q: Would love to know how you diagnose motherboards on a component level. What tools do you use? A: I find it is very hard to explain this. actually, it is very simple and can be described in two words: current and signal. read the current change during booting tells you where the machine stopped. check the signals on the different part of motherboard tells what is wrong or what may missing. Laptop Repair Training - Notebook Repair, Motherboard Repair, Hardwa... Chip Level Training, Training Manual, Service Guide, Tutorials,Tips Tools are: smd rework station, bga rework station, power supply has current meter, all the rest tools you can find in any radio tv repair shop.of course all the datasheets for the components, especially the schematic diagram, you will find it much difficult without it. Q:What are common faults on mainboards? Do certain components fail? Is there a trend as to which parts fail quite often? The chip has been removed from the motherboard A: Different makes/model has different common fault. Toshiba S1 is vga chip, and can't be repaired/well, almost can't be repaired. Acer 290, cpu pwm dry joint. hp dv1000, compaq m2000 protection circuit easy to blow up. ibm t40 vga dry joint problem. These are just few of them. every machine has its own common fault. but dry joint is the common problem for all machines. Motherboard repair is not as difficult as people thought, i think much easier than repair a tv. Q:Dell 1525 Inspiron that says system does not recognize the installed battery this system will not charge the battery. Clean and add the new balls to the chip A:Charging battery in Dell laptop involves two major chips: EC(or someone call it super IO), PWM chip for battery charging. BIOS has no part of charging. Battery communicate with EC through SMB(system management bus??) and EC controls charging PWM. Fix charging problem is very hard in laptop repair, you must fully understand schematics, where all the signals come from and where to go. Today's laptops are less and less with programmed EC, Dell 1525 has no programmed EC so it can be replaced with same model. Q: How i fix a DV6 with power problem. The problem of Laptop Repair Training - Notebook Repair, Motherboard Repair, Hardwa... Chip Level Training, Training Manual, Service Guide, Tutorials,Tips Operation Completed Successfully Laptop Motherboard Ic chip Removal Process How to replace tiny ic chips in a Laptop motherboard. ●●●●●●●●●●●●●●●●●●●● Look at Burnt ic chip on the motherboard. ●●● The laptop would not turn on. ●●●●●●●●●● Sound audio Chip PC Card Chip COM port chip Keyboard-chip Keyboard chip Battery IC : Memory control chip Clock IC : Icd back light control Ddr memory power supply Other Common chipset Mostets Used Crystal (14.318 Clock ) Connector Socket(display, battery, dvdrom, modem, keypad, touchpad, onoff panel etc) Fault finding and troubleshooting of motherboards Tracing different connectors and socket with related component and chip Testing and using of different components De to dc power regulator sections Power supply to different chips vcc core, 5vsus, +1.5v, 1.8vsus, 5v, 10v, 2.5v Cpu core voltage, vid signals, vrn section, mostof of vrn Clock generation circuits Bois chips section, rtc chip Power good , reset,frame, clock, bios signals Fault finding and troubleshooting. How to read different component datasheet. Basic cleaning and washing method of motherborad Snd component prattice removal and inserting different components Training using cro oscilloscope Finding fault using cro oscilloscope Use of debug card post error code Finding fault using post debug card Training using eeprom programmer Bios update using eeprom programmer Training using bga soldering station Removing bga chips and reballing it using reball stencil lcs reballing, bga ball arrangement, practice Training using solder bath Bios password, ibm, dell password removing steps Searching data sheets of different ics Common problems of different motherboards Equipment/Tools used for Laptop Repairs Motherboard Voltage Regulator Circuit Laptop Repair Training - Notebook Repair, Motherboard Repair, Hardwa... Chip Level Training, Training Manual, Service Guide, Tutorials,Tips ●●●●●●●●● Closer view of the burnt ic chip.... ●●● hdd repair How an image appears on the Lcd screen How I installed external Bluetooth adapter inside a laptop How To Bypass Windows 7 Logon Password In 3 Steps How To Fix Failed Nvidia Chip How to fix hardware problems without taking apart the Laptop How to replace battery cells inside laptop battery How to test a laptop or a desktop computer memory Steps to Hacking Dell D600 Bios Password Top 10 Things to Consider When Selecting a Digitizer x Oscilloscope Full Course Contents Convenience : Complete all courses via the Internet. Also a copy of the course will be sent to you via email attachment. Download, print and study at your own pace Bad chip needs to be replaced. Learn how to replace bad ic chip on the laptop motherboard Flexibility : Attend classes at anytime and from anywhere in the world American Trained Expert : Our American Trained Laptop Specialist will help you with any questions, provide you additional resources, and keep you up-to-date with rapidly changed Laptop technologies. Affordable : We provide high quality courses with much lower tuition than other training organizations. Certificate : A Certificate of Completion will be issued at the end of course duration IC chip is soldered to motherboard and the laptop now works fine. if a chip is dead just replace it !. Advance ic chip removal process: How to remove ic chip with 102 Certificate Laptop Repair Training - Notebook Repair, Motherboard Repair, Hardwa... Chip Level Training, Training Manual, Service Guide, Tutorials,Tips pins. Course Includes: Advance Technical Chip-Level Repair of Laptops Motherboard 1st) Remove the chip Includes Online Login Access The chip is removed then find the same chip from another motherboard. Place Flux around the new chip in Click on image for course contents Laptop Repair Training - Notebook Repair, Motherboard Repair, Hardwa... Chip Level Training, Training Manual, Service Guide, Tutorials,Tips FREE DOWNLOADS 25+ Best PC repair Utility Tools Downloadable Computer Repair CDs Repair Tips & Tricks Visit Learning Center Now Networking: A Beginner's Guide 1000 + Level Training, Training Manual, Service Guide, Tutorials,Tips laptop motherboard repair book pdf. Laptop motherboard repair books free download



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