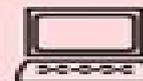
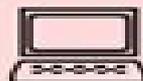
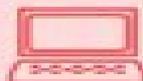




# PC Power Supply Repair



by T.J. Byers

## Repairing a broken PC power supply is a lot simpler than you might think. Nine times out of ten you can do it yourself for under \$10.00.

It's 8:00 a.m., the neighbor's dog barked all night, your coffee tastes like weak tea, and the phone message light blinks frantically. Full of resolve, you flip on your PC's power switch, and ... presto — nothing! No lights, no beep, no fan, nada. Suddenly you realize, it's gonna be a really bad hair day.

While there's nothing I can do about the early hour or the coffee, I can probably help you get your PC back on its feet. The most common case of "Sudden PC Death Syndrome" is a defective power supply. The problem can come from many sources, like heat, power surges, and old age. While it's easy enough to replace a power supply by swapping the old for new, it's not always practical.

A case in point: I have an AST 486SX that died when a truck plowed into the corner power pole and caused a two-hour black out. When the power came back on, my PC didn't. A quick check showed the cause was a fried power supply. Unfortunately, a call to AST revealed, to my horror, that a replacement power supply costs \$150.00. Moreover, because of its unique case design, there's no generic substitute.

Fortunately, it's not difficult to fix PC power supplies. While they may look different on the outside, most PC power supplies use the same electronics on the inside. In this article, I'll show you how easy it is to fix a dead power supply.

### The Basics

The power supply is a large metal box, mounted inside the PC that provides power to the motherboard and various peripherals. It's easily identified by a warning sticker on the case that reads "CAUTION! Hazardous Area" (or a similar high-voltage warning).

On the back of the power supply is an AC connector that plugs the PC into the wall. Often there's another AC connector that's used by some monitors. Most power supplies also have a voltage selector switch that lets it work with 110V or 220V power sources.

A typical PC power supply provides four DC output voltages: +5, +12, -5, and -12 volts. These voltages are available through four different types of connectors (Figure 1; 1-4). The color of the wire identi-

fies the voltage and its use (Table 1).

### Getting Started

A lot of power supply failures are actually simple problems that are easy to fix. Obviously, the place to start is at the beginning — in other words, are you getting power from the wall to the PC? As stupid as it sounds, the first thing to do is look under your desk and see if the PC is plugged into the wall. If it is, move the plug to a different socket (they go bad, too, you know).

That done, pull the power cord from the back of your PC and see if the power is getting that far. You can do this using a VOM or a simple neon lamp circuit tester, like part number 22-102 from Radio Shack.

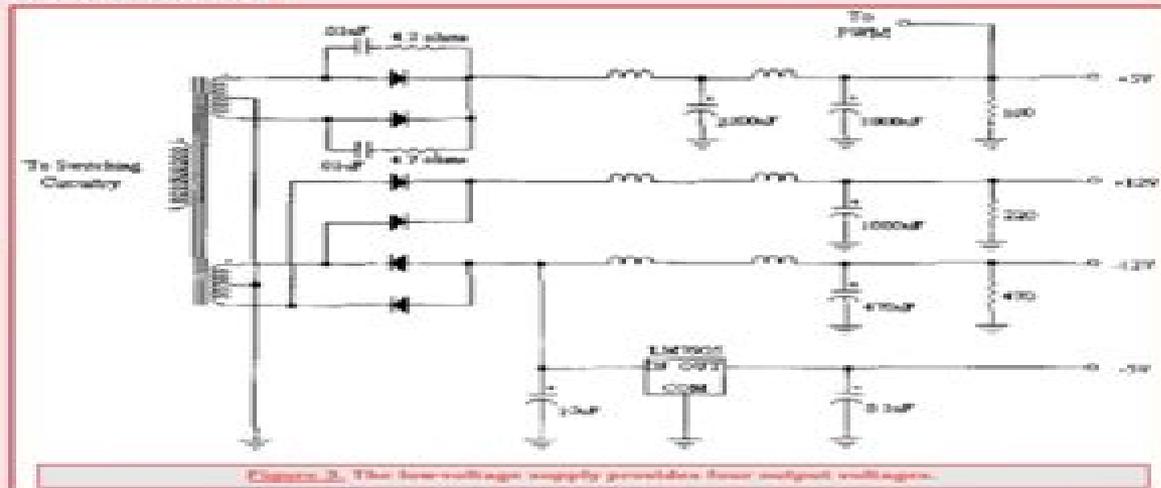
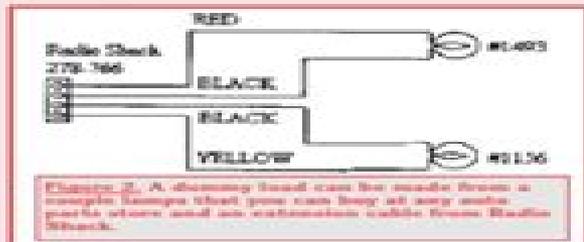
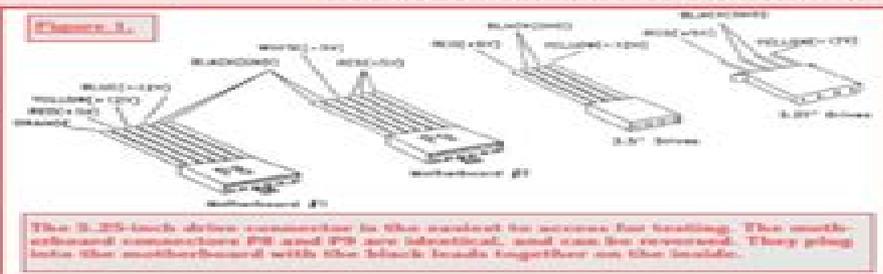
If there's no power, and you're plugged into a power strip or surge protector, the strip is probably the culprit. To test it, simply remove the PC's plug from the strip and

plug it into a wall socket. If the PC starts working, the problem is in the strip. Generally, the problem is a blown fuse or a tripped circuit breaker. You'll find both at the cord end of the strip. The last item you should test before popping the hood is the power cord itself; replacing it with another cord is the fastest and safest method.

### Under The Hood

Still nothing? Now it's time to remove the cover. Most covers are attached by five or six screws on the back. Before going any further, carefully read the instructions in the section called "Safety First."

The next logical place to look is at the power switch. Unfortunately, this may not be possible at this stage of the game. Many power supplies have a built-in power switch which isn't accessible until you dis-



# Power Supply Repair Guide

**Sabine Zange**



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## **Table of Contents Power Supply Repair Guide**

1. Understanding the eBook Power Supply Repair Guide
  - The Rise of Digital Reading Power Supply Repair Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Power Supply Repair Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Power Supply Repair Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Power Supply Repair Guide
  - Personalized Recommendations
  - Power Supply Repair Guide User Reviews and Ratings

- Power Supply Repair Guide and Bestseller Lists
- 5. Accessing Power Supply Repair Guide Free and Paid eBooks
  - Power Supply Repair Guide Public Domain eBooks
  - Power Supply Repair Guide eBook Subscription Services
  - Power Supply Repair Guide Budget-Friendly Options
- 6. Navigating Power Supply Repair Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Power Supply Repair Guide Compatibility with Devices
  - Power Supply Repair Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Power Supply Repair Guide
  - Highlighting and Note-Taking Power Supply Repair Guide
  - Interactive Elements Power Supply Repair Guide
- 8. Staying Engaged with Power Supply Repair Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Power Supply Repair Guide
- 9. Balancing eBooks and Physical Books Power Supply Repair Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Power Supply Repair Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Power Supply Repair Guide
  - Setting Reading Goals Power Supply Repair Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Power Supply Repair Guide
  - Fact-Checking eBook Content of Power Supply Repair Guide
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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