

PC Power Supply Repair











by TJ Byers

epairing 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 6:00 a.m., the neighbor's dog barked all night, your coffee taskes like weak has, and the phone message light blinks frantically. I'ull of resolve, you filp 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 beath 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 4065X 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. Gelfortunately, a call to AST revealed, to my homor, that a replacement power supply costs \$150.00. Mooreover, because of its unique case design, there's no generic substitute.

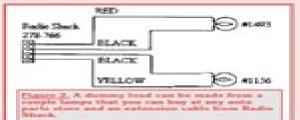
Fortunately, it's not difficult to fix PC power supplies. While they may look different on the outside, most PC power supplies use the same electronics on the inside. In this article, I'll show you how easy it is to fix a dead power supply.

The Basics

The power supply is a large metal box, mounted inside the PC that provides power to the mother-board 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 consector 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 volt ages are evallable through four different types of connectors (Pigure 1; 1-4). The color of the wire identi-



files 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 PCP 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 cond 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.

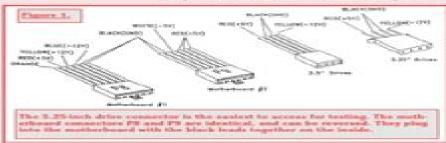
If there's no power, and you're plugged into a power strip or surge protector, the strip is probably the culprit. To test it, simply remove the PC's plug from the strip and

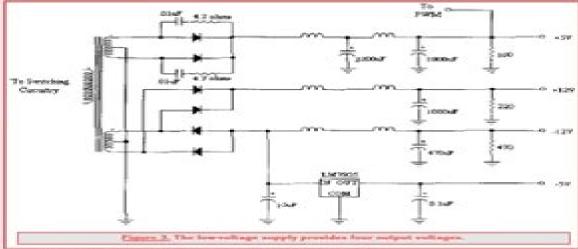
plug it into a wall socket. If the PC starts working, the problem is in the strip. Generally, the problem is a blown fuse or a tripped circuit breaker. You'll find both at the cord end of the strip. The last item you should test before popping the hood is the power cord itself, replacing it with another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

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. Undortunately, this may not be possible at this stage of the game. Many power supplies have a built-in power switch which len't accessible until you dis-





Power Supply Repair Guide

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