

Re: PC Power supply

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- *From:* "Charlie Bress" <left@xxxxxxxxxxxxxxx>
 - *Date:* Fri, 25 Apr 2008 17:31:28 -0400
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"Tim" <tim@xxxxxxx> wrote in message
news:MPG.227bfabd7a5f7379896f4@xxxxxxxxxxxxxxxxxxxx

In article <[2FoQj.7\\$1m3.5@trndny02](mailto:2FoQj.7$1m3.5@trndny02)>, jamessweet@xxxxxxxxxxxx says...

"Charlie Bress" <left@xxxxxxxxxxxxxxx> wrote in message
news:LaWdnZ7oG-3cjo_VnZ2dnUVZ_tWtnZ2d@xxxxxxxxxxxxxxxx

My son has an E-Machine T3828 that will not power up.
Unfortunately he
is
around 100 miles away so I do not have more information.
There were no
changes made to the PC that might have caused this.
At first glance it is easy to blame the P/S itself, but a new
replacement
did not help.

A detail: He reports that with either supply there is a single
LED on
the
M/B that lights up. What controls this light?
On either P/S there is no other sign of life. No fans turn on.

What are the likely causes?

I have considered some. The power switch may have failed.
Or the
mechanical
link from the front panel to the switch.

IIRC there is a pin on the M/B-P/S connector that provides
an input to
the
supply so that the supply turns on.. Is that a set level? What
controls

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it?

I am considering having him drive down with it. I can repair electronic devices, but I have never come across this situation.

Is there a likelihood that the fault is in the M/B?

Thanks,

Charlie

The light is simply wired to the standby output of the PSU.

I've seen bad motherboards cause this, could also be the power button or the wiring between that and the motherboard. The other time I saw this the graphics card was not fully inserted in the slot.

I have seen that symptom caused by bad RAM, overclocking the CPU, corrupt BIOS. Sometimes a bad PSU will pop the MB's regulation system too. You will find that most E-machines are considered disposable due to their low cost. Make sure the replacement PSU is pin compatible with the old one. Just because the connectors are the same, doesn't mean the pins are carrying the same voltages.

I would remove all cards (not RAM) so the system is bare bones, and see if it generates a no video card error. At least you know the system is doing POST (Pre Operating System Tests) at that point. You can also try to move the RAM to a different slot, as failure with ram in the first 64 megs or so will cause the system to refuse to do POST. Sometimes moving it will clean flaky contacts. The ram should run in any slot, providing it meets the specs for that slot. Some MBs have 2 different kinds of slots on the same board. Of course if the ram is bad, then it may not boot at all.

I had one guy complain that the system he built would come on then immediately go off, so it *had* to be defective cpu or the like. It turned out that he had not mounted the CPU heatsink and fan properly, and it was up on one side. The cpu heated up very quickly, and shut the system down to protect itself. Gotta love those AMD CPU safeguards. Once the problem was rectified, the computer ran like a charm, and he is still using it today.

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– Tim –

Sounds like a plan. Thanks.

BTW when I was growing up with the PC-AT, POST was Power On Self Test.

Charlie

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