

Re: Casablanca Ceiling Fan

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I've seen no replies to this message from 9/5 so am re-posting it in hopes someone in the newsgroup can venture a guess on how this fan/light control circuit works given only two wires to both the fan and 3-button controller...

I've given it a little more thought and come to the conclusion that the return signal path may be through the steel screws connecting the fan and switch controller to the mounting boxes via earth ground. I still have no idea of what is inside the controller unit since it is "sealed", but the "receiver" inside the fan has two circuit boards with several transistors, diodes, caps, triacs, etc.

Bob

"Bob Shuman" <no_spam_thx@xxxxxxxxxxxxxxx> wrote in message [news:KcgLg.21218\\$kO3.9010@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:KcgLg.21218$kO3.9010@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

I just repaired a 20-year old electronic Casablanca ceiling fan (cold solder on the control board in the fan causing intermittent to the light) and wondered if someone could provide some insight into how it worked.

The fan runs on standard 120VAC (US), but only used two wires: a white neutral and a colored switch leg. The switched leg ran to a three button Casablanca wall mounted controller. The controller only had two wires: a black hot and the other "switched leg" to the fan. The three controller buttons are: 1) two position master power on/ff, 2) momentary contact fan (depressing each time steps the fan through increasing speed settings), and 3) momentary contact light (which similarly steps the brightness up to the light fixture at the base of the fan. Pressing the two momentary switches simultaneously reverses the fan direction.

It appears that the wall controller must send the control signals over the switched leg wire. Can someone provide insight into what is inside the controller that is used and how they distinguish between the fan and light? I am assuming it is a fairly simple device, but wonder how it is done since there is no neutral wire provided to the wall controller to support an "active" transmitter circuit.

Re: Casablanca Ceiling Fan

Thanks in advance for insight. The device is working fine, but I'm curious and would like to better understand the technology being employed.

Bob