

Re: 50 hz timer motor

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- *From:* "Ron(UK)" <ron@xxxxxxxxxxxxxxxxxxxxxx>
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etphonehm@xxxxxxxxxxx wrote:

Ron,

What is your repair experience with the system board (called power card on the Brandt BR1000) where the cycling motor modules, speed potent module, extra rinse module all converge, on a washing machine? Have you needed to replace it? Wonder if the 50hz/60hz issue would affect the electronics.

They are called modules here, and generally control just the main motor speed, If the machine uses a brush type motor, it`s a simple triac chopper circuit, getting feedback from a tacho generator on the rear of the motor. Some induction motors are also controlled this way. Machines with a solid state timer - so called computer washers - often have the triacs on the board to control the water valves and pump, and relays for the motor direction and heater circuit and a triac to operate the heat pause coil on the timer (I`m thinking Hotpoint here).

They are generally pretty reliable, off the top of my head I recall most faults being due to either solder cracks due to vibration or heater relay contacts burnt. if the heat pause triac went leaky the coil would buzz and the machine either wouldn`t pause while the water heated or would stick at that point. If the motor control triac failed the machine would spin uncontrollably on all settings where the motor should be turning.

I guess 60hz could affect a microprocessor controlled machine, I`m not really sure as the problem doesn't often come up.

Ron (UK)

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