

**Drawbaugh, Bob**

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**From:** Harnois, Steven  
**Sent:** Wednesday, July 30, 2008 3:19 PM  
**To:** Lab\_Alc  
**Subject:** FW: Controller Boards

Steven Harnois  
State of Vermont  
Agency Of Human Services  
Department of Health  
Public Health Electronics Technician  
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-----Original Message-----

**From:** Service Dept. [<mailto:service@npas.com>]  
**Sent:** Wednesday, July 30, 2008 3:17 PM  
**To:** Harnois, Steven  
**Subject:** Re: Controller Boards

Steve,

The original reason we added the wiring was to remove noise being generated on the ground lines from the heaters turning on and off. We took the grounds from critical components like the lamp and separated them from direct connection to the ground of the heaters. When the current version of the board was implemented Scott incorporated that design change into the layout so that the wires and cuts no longer needed done because it was actually part of the design of the board to keep those things separated.

Chris

Harnois, Steven wrote:

Chris,

Could you please tell us more about the wire going from the Front to the Back of the controller board and what was done so that has been removed from the newer rev board.

Thanks, Steve

Steven Harnois  
State of Vermont

10/30/2008

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-----Original Message-----

**From:** Service Dept. [<mailto:service@npas.com>]  
**Sent:** Wednesday, July 30, 2008 11:19 AM  
**To:** Harnois, Steven  
**Subject:** Controller Boards

Steve,

I'm sending you two replacement Controller Boards to replace the two I had just recently sent to you. They are the same revision boards as the ones you just received however there is a resistor value that was incorrect. The resistor number is R86. Currently, there is a 20k resistance value installed, and that needs changed to a 10k. I will be sending these boards out today, July 30 2008.

Also, regarding the RFI issue you mentioned on the phone, I have not seen the issue yet except on the old version of the controller board, however I have seen the new boards "settle in" after burn-in requiring the RFI setting to be redone and then be fine throughout the rest of the testing and QC process. We are watching that circuit because of the past issues we had already felt to be dealt with and I will keep you posted on whats going on as I find new developments.

Chris