Warning!

Line voltage exists on this unit, only qualified personnel should attempt to troubleshoot the controller.

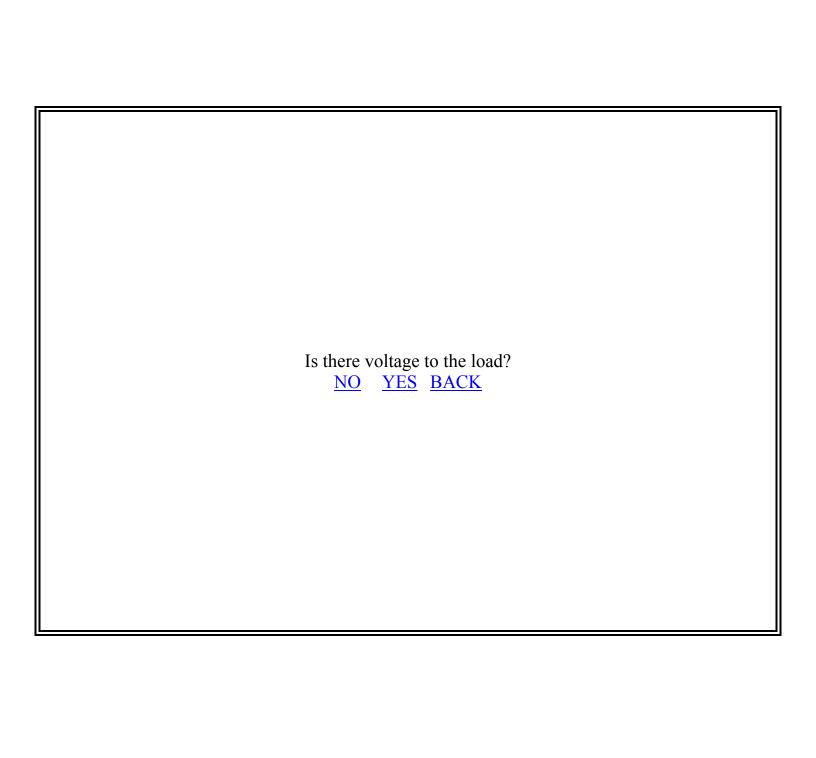
Use extreme caution when taking measurements.

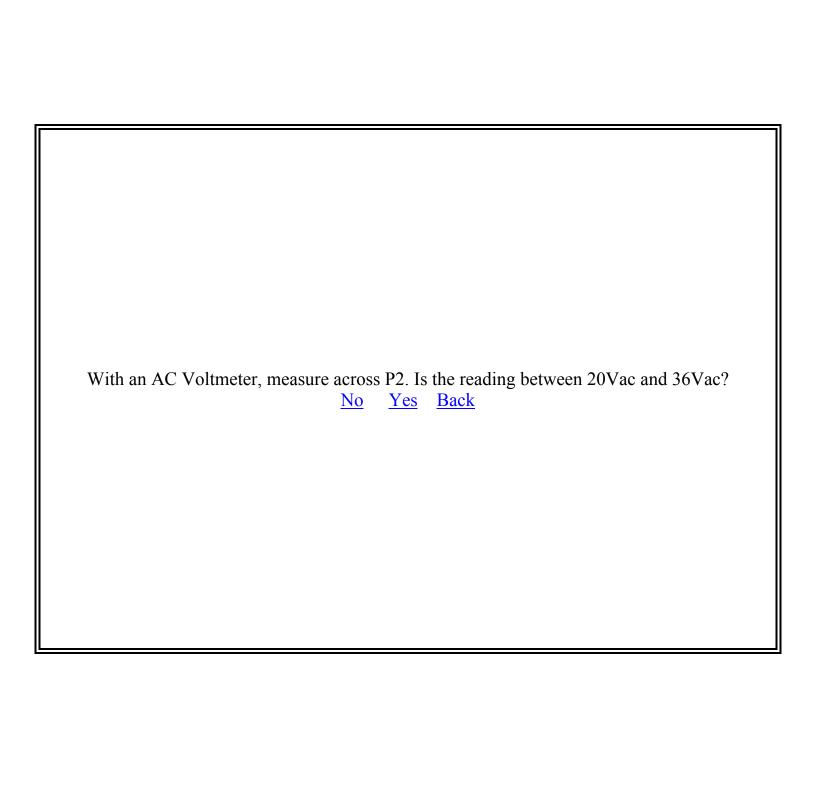
Additional ideas for troubleshooting.

- 1. Do you have a spare controller or firing circuit that you could swap? Or do you have multiple zones and could swap loads between controllers? If the problem stays with the load (i.e. does not follow the controller) then the problem is not the controller.
- 2. If your load can handle full line voltage, connect the two heavy wires from the USD block (the output terminal block) together. This removes the controller and puts full line voltage to the load.
- 3. When running multiple solid state relays from one card, the maximum current draw from the firing circuit is 20mA.
- 4. When running multiple firing circuits from one transformer, allow 2VA per firing circuit.

You are now ready to start the troubleshooting questions. Click on the correct answer for each question, you may use the BACK link to see the previous screen. Click <u>HERE</u> to start.











With the command at 100%, measure the DC voltage across P1 as follows: Use CCW as common for all readings in this step.

Follow directions for command that you are using.

0/10V command - W being positive, should be about 10Vdc (a positive reading).

0/5V command - 5 being positive, should be about 5Vdc (a positive reading).

Potentiometer command - W being positive, should be about 10Vdc (a positive reading).

As you vary the command from 0% to 100%, the LED flashing should vary.

Are all of the above OK?

NO YES BACK







With the command at 100%, measure the DC voltage across P1 as follows: Use CCW as common for all readings in this step.

(Follow directions for the command that you are using).

0/10V command - W being positive, should be about 10Vdc (a positive reading).

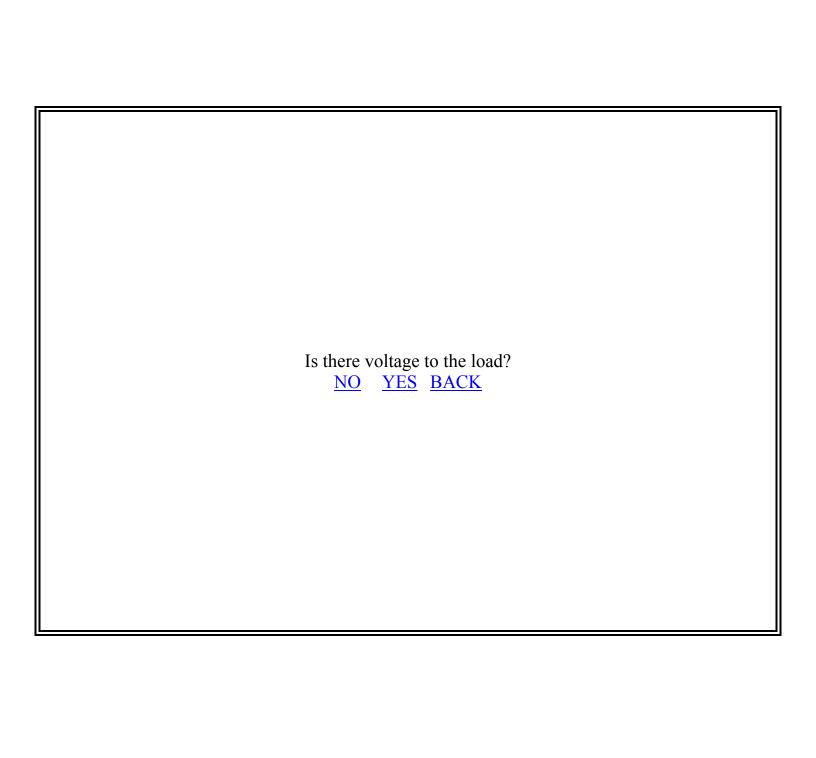
0/5V command - 5 being positive, should be about 5Vdc (a positive reading).

Potentiometer command - W being positive, should be about 10Vdc (a positive reading).

As you vary the command from 0% to 100%, the LED flashing should vary.

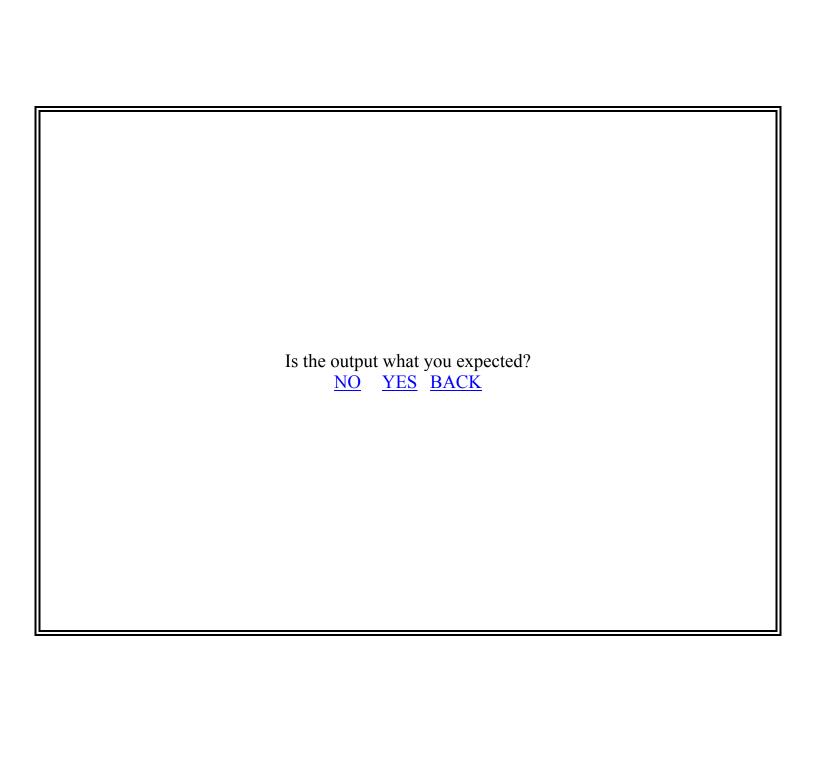
Are all of the above OK?

NO YES BACK











As you vary the command signal	to one firing circuit, is the LED blinking on other firing circuits affected? No Yes Back







With the command at 100%, measure the DC voltage across P1 as follows: Use CCW as common for all readings in this step.

(Follow directions for the command that you are using).

0/10V command - W being positive, should be about 10Vdc (a positive reading).

0/5V command - 5 being positive, should be about 5Vdc (a positive reading).

Potentiometer command - W being positive, should be about 10Vdc (a positive reading).

As you vary the command from 0% to 100%, the LED flashing should vary.

Are all of the above OK?

NO YES BACK













It appears that the transformer is not wired correctly. Double-check the transformer wiring, fusing and how it is connected to the controller. If you need more help after you verify that your transformer wiring is correct, please call Control Concepts, Inc. at 1-800-765-2799 for further troubleshooting help.

It appears that the solid state relay has failed. Please call 1-800-765-2799 for spare par	rts.
warranty service or further troubleshooting help.	,

It appears that either the line or load is not wired correctly. Because of the many different loads that are possible, this troubleshooter can not help you any further. If you need more help after you verify that your load is correct, please call Control Concepts, Inc. at 1-800-765-2799 for further troubleshooting help.

It appears that the command is not wired correctly. Double-check the command source, command polarity and how it is connected to the controller. If you need more help after you verify that your command is correct, please call Control Concepts, Inc. at 1-800-765-2799 for further troubleshooting help.

It appears that the firing circuit has failed. Please call 1-800-765-2799 for spare parts, warranty service or further troubleshooting help.

It appears that power is not getting to the controller or not getting from the controller to the load. Check for open fuses or circuit breakers. Verify that the wiring is correct. If you need more help after you verify that your wiring, fusing and circuit breakers are correct, please call Control Concepts, Inc. at 1-800-765-2799 for further troubleshooting help.





We have not found the answer to your problem with this tro	oubleshooter.
Please call 1-800-765-2799 and we will help you with further t	roubleshooting.