



# PHOTRON<sub>PTY.LTD.</sub>

LIGHTEN YOUR HORIZON

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## Objective

To connect a Photron Super lamp Power Supply to a GBC SensAA.

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## Materials

GBC SensAA AAS

- Photron 3 volt super lamp power supply P200
- Photron P205-SensAA adapter kit

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## Procedures

**Warning:** When powered, lamp circuitry runs at high voltage.

1. Turn off power to instrument and unplug.
2. Remove cover from AA.
3. Unscrew the rear octal cover from lamp socket.
4. Note the 2 black wires soldered to pins 1 and 3 of the octal socket.
5. With tape or similar, mark each black wire with its pin numbers 1 and 3.
6. Unsolder each black wire from the octal socket.
4. Note the 2 black wires soldered to pins 5 and 7 of the octal socket.
5. With tape or similar, mark each black wire with its pin numbers 5 and 7.
6. Unsolder each black wire from the octal socket.
8. Solder black wire "1" to the black wire on adapter.
9. Solder black wire "3" to the red wire on adapter.
10. Solder black wire "5" to the brown wire on adapter.
11. Solder black wire "7" to the light blue wire on adapter.
12. Insulate both of these connections with 2 layers of heat shrink tubing.
13. Solder the white wire on the adapter to pin 3 of the octal socket.
14. Solder the blue wire on the adapter to pin 1 of the octal socket.
15. Solder the violet wire on the adapter to pin 7 of the octal socket.
16. Solder the orange wire on the adapter to pin 5 of the octal socket. It is best to cut the wire so they are only as long as they need to be to minimize filament current voltage drops.
17. Connect octal plug P1 to octal socket on flying lead from Superlamp Power Supply.
18. Connect octal socket S1 to octal plug mounted on rear of Superlamp Power Supply
19. Remove top cover of Photron Superlamp Power Supply.
20. Locate trimpot on the smaller filament control PCB.
21. Connect multimeter leads to pins 5 and 7 of lamp socket with a superlamp plugged in.
22. Adjust trimpot until voltage equals 2.4 Volts DC.
23. Replace covers
24. The switch should only be changed in position when the instrument is turned off.

Lamp position 1 will only operate as a Superlamp.