

Solar 750

Welcome to Solar 750, the revolutionary light dimmer from BlueLine. A Solar 750 allows you to control your VHO, HO or normal output fluorescent lighting system as you never have been able to before.

Although significant improvements have been made in lighting intensity and spectral quality, little has been done in the way of controlling its presentation. The Solar 750 now gives you the ability to recreate the gradual transitions in light from night to day.

Follow the step by step instructions to insure a smooth installation. Once installed, the dimmer will take approximately one (1) hour to settle into normal automatic operation. Manual dimming can be started immediately.

The dimmer relies on an external timer to signal the start of dawn and dusk. Dimming occurs during the hour after the timer has switched mode, so program the timer accordingly.

The dimmer draws less than 2 watts of power therefore any standard commercial timer will drive the dimmer. Power for the ballast/lamps arrives through the ballast power cord which must remain plugged into a wall outlet.

Occasionally, wires break, endcaps fall off or you may forget to unplug the ballast when changing a tube. The Solar 750 will detect these types of fault conditions and shut down the ballast. It will then attempt to restart the ballast after approximately one (1) minute, every minute, until the fault condition is corrected.

Welcome to the future of aquarium lighting control!

Limited One Year Warranty

BlueLine warrants the original purchaser of each new product against defects in materials and workmanship under normal service for one (1) year commencing upon date of original purchase if the original purchaser tenders the sales receipt for the product at the time the warranty claim is made. This warranty may not be modified by anyone other than BlueLine.

To make a claim under this warranty, return the product to:

BlueLine
c/o Champion Lighting
291 N. Main Street
Ambler, PA 19002

The product will be repaired or replaced with no charge for labor or materials.

BlueLine shall not be held responsible for any damages caused by defective components or materials, or for the loss incurred because of the interruption of service, or any other special, consequential, or incidental damages or expenses arising from the manufacture, sale, use, or misuse of this product. This warranty is in lieu of all other express warranties. Any warranty implied by law whether a warranty for merchantability or fitness for particular purposes shall be effective only for the one year warranty period specified above. Some states do not allow the exclusion of limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Installation Instructions

Step Seven

Plug the ballast back into a wall outlet. The lamps on your system should light. If the Fault LED illuminates, wait till it extinguishes before continuing.

Step Eight

Insert the dimmer plug into the ballast I/O port. The lights should remain on.

Step Nine

Turning the dimmer knob counterclockwise should now cause the lights to dim. This is the setup to be used for manual dimming.

Step Ten

Turn the Dimmer knob to the full clockwise position. Plug the timer cord from the Solar 750 into a wall outlet and wait 1 hour. This will ensure that the Solar 750 is in the fully dimmed up state. Move the front panel switch to NORM mode. The lights should be at full brightness. Turning the dimmer knob counterclockwise will set the maximum light level obtained when the Solar 750 has reached maximum brightness.

Step Eleven

Plug the Solar 750 timer cord into your timer.

IMPORTANT!

Note1: New lamps need to be run for at least 100 hours before they will begin to dim normally.

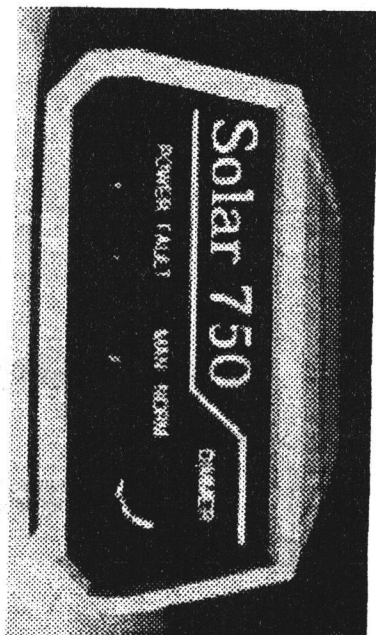
Note2: Dim up and down performance can be smoothed and extended by constructing a appropriate lamp ground plane. (see instruction sheet)

Note3: If the Fault LED illuminates, a problem exists in the setup. Discontinue use of the dimmer until the problem is resolved.

Technical Support

If after following the above installation instructions you are still having difficulties, call your Distributor for further technical support.

Recommended Lamp Setups

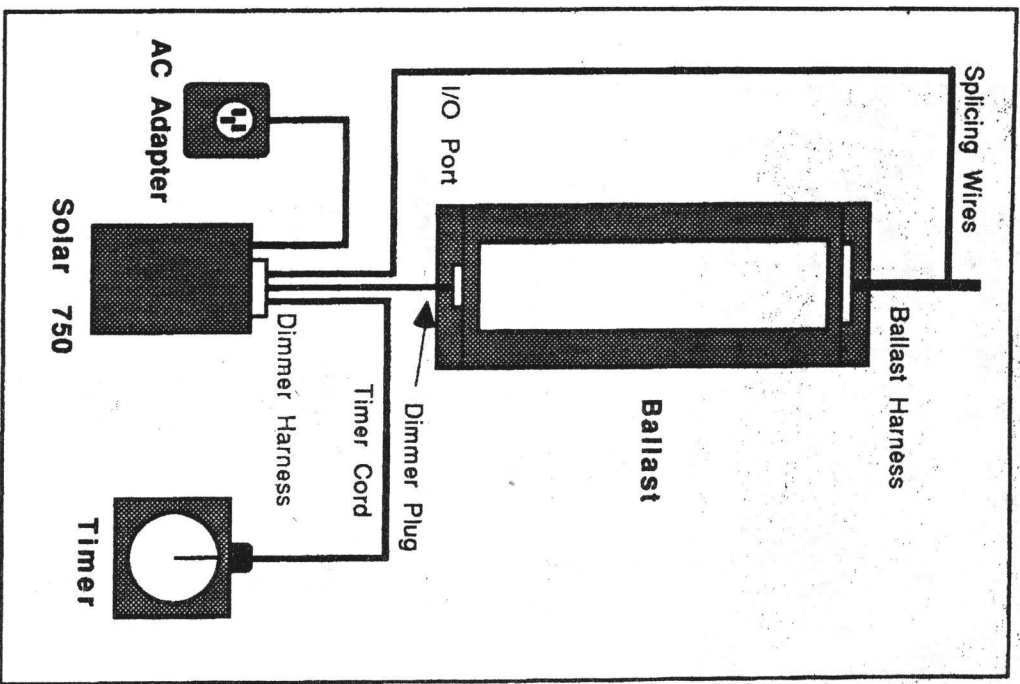


Dimming operation is only recommended for the lamp configurations that are listed in the following table. If your desired lamp and/or ballast arrangement is not listed below, call your Distributor for setup verification.

6 6 0 LAMP CONFIGURATIONS

Num.	Length	OK
2	24"	Yes
2	36"	Yes
2	48"	Yes
2	60"	Yes
2	72"	Yes
2	96"	Yes
3	24"	Yes
3	36"	Yes
3	48"	Yes
3	60"	Yes
4	24"	Yes
4	36"	Yes
4	48"	Yes

Installation Schematic



Use this schematic for reference when following the installation instructions

Installation Instructions

Parts List: Solar 750 (1), Harness (1), AC adapter (1), Splices (3) Tools Required: Pliers

Step One

Verify that your ballast has been installed correctly and illuminates all lights before beginning installation of your dimmer. New ballasts should be run for a minimum of two days before installing the Solar 750.

Step Two

Disconnect power from the ballast, dimmer and timer.

Step Three

Crimp on the three splicing wires according to the following directions. Detailed splicing instructions are described on a separate sheet.

- a. Splice a RED wire from the dimmer harness to a RED wire (either) of the ballast harness
- b. Splice a ORANGE wire from the dimmer harness to a ORANGE wire (either) of the ballast harness. If your ballast does not have ORANGE wires, cap the dimmers ORANGE wire.
- c. Splice the WHITE wire from the dimmer to the WHITE wire of the ballast harness.

Step Four

Plug the dimmer harness into the back of the Solar 750.

Step Five

Attach the AC adapter into the back of the Solar 750. Plug the AC adapter into a wall outlet. The Power and Fault LED's on the front panel should light. Wait for Fault LED to extinguish before continuing.

Step Six

Place the front panel switch in the manual mode and turn the dimmer knob to the full clockwise position.