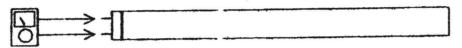
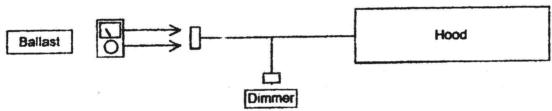
## ICECAP BALLAST AND DIMMER INSTALLATION CHECKLIST

- 0. Set Multitester to read ohms ( $\Omega$ ). The red probe should be hooked into the ohms ( $\Omega$ ) port as well, and the black probe should be hooked into the COM port.
  - 1. Sand all the pins on each lamp to remove any tarnish or deposits
  - 2. Measure the resistance across the two pins on the same end of the lamp. Resistance should be between .5 and 1.8 ohms.



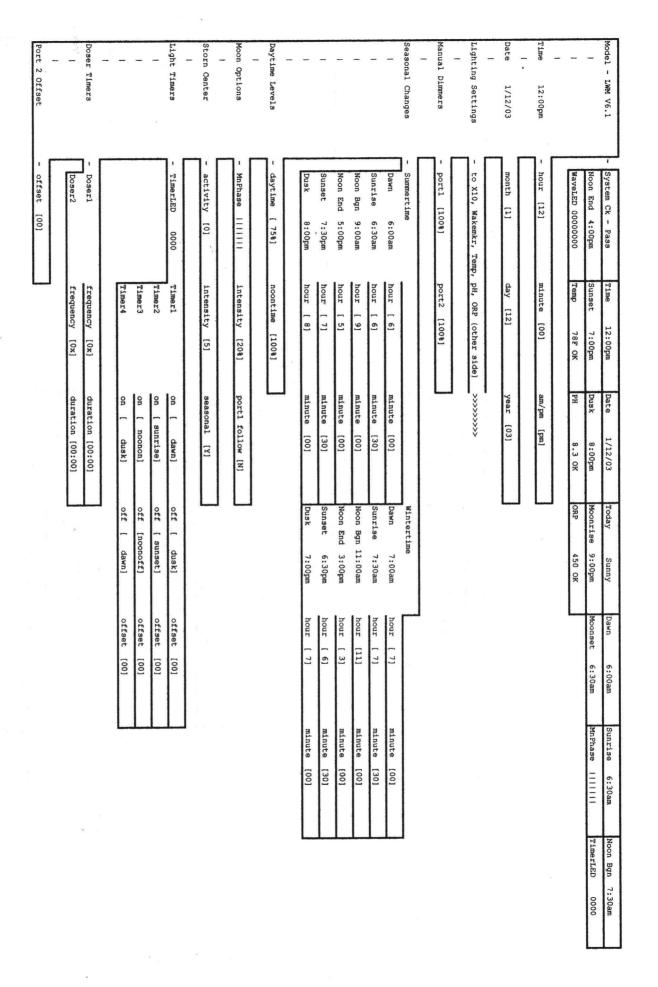
- 3. Insert lamps into sockets and screw down firmly. (Endcaps must be mounted)
- 4. Measure the resistance across the following pairs of colored wires as seen from the Icecap ballast harness. The resistance should ideally be within the specified ranges. Any significant variation needs to be investigated and solved before continuing.

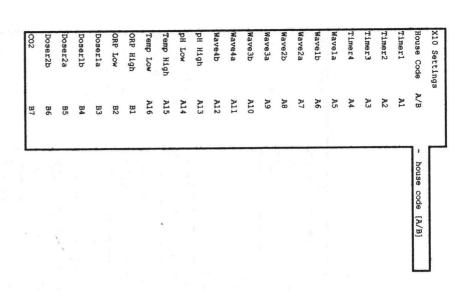


Suggestions: Loose or misaligned endcaps, loose wiring and bad wiring connections are probable causes for high readings. Shorts are the main cause of low readings.

Red-Red	0.5 to 1.8 ohms
Blue-Blue	0.5 to 1.8 ohms
Orange-Orange	0.5 to 1.8 ohms
Yellow-Yellow	0.5 to 1.8 ohms
Brown-Brown	1.0 to 3.6 ohms
Purple-Purple	1.0 to 3.6 ohms

- 5. Run the lamps for a week without using the dimmer. After the week is completed, repeat step 4. If the measurements are within the specified tolerances, move to step 6. Otherwise, find and repair the issue(s) causing the resistance to change.
- 6. Install the dimmer during the middle of the day when the lighting should be at 100%. After powering up both the ballast and dimmer, wait aproximately two minutes before step 7
- 7. Manually dim up and down to ensure operation. Move unit to the System-Ck screen and check programmed values as the scroll by. You have now completed the installation.





Storm Cycle

Night Mode Wavemaker4

night mode [N]

lunar mode [N]

unar Mode

Wavemaker3

3a time [00:00] 2a time [00:00] la time [00:00]

off time [00:00] off time [00:00]

off time [00:00]

1b time

[00:00]

3b time [00:00] 2b time [00:00]

4b time [00:00]

feedcontrol 00

4a time [00:00]

off time [00:00]

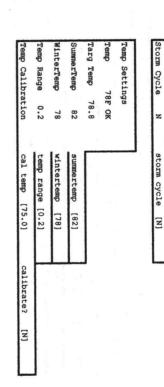
Wavemkr Settings

Wavemakerl Feed Timer WaveLED 00000000

feedtime

[15]

Wavemaker2



pH Settings

8.3 OK

8.3 .05

Targ pH

[8.3]

10.0 Calibration pH Range targ pH

7.0 Calibration

Calibrate? [N] Calibrate? [N] pH range [.05]

ORP Settings	CA		
ORP 4	450 OK		
Targ ORP	450		
ORP Range	50	,	
ORP7 Calibration	ation	Calibrate?	[N]
ORP4 Calibration	ation	Calibrate?	(N)