

TROUBLESHOOTING GUIDE

Follow the troubleshooting tips below. If troubleshooting techniques fail, bring ballast back to your place of purchase to request warranty service.

POSSIBLE CAUSES	CORRECTIVE MAINTENANCE
LAMP LOOSE IN SOCKET	Screw lamp firmly into socket. Make sure tab inside the socket makes proper contact with the base of the lamp. If lamp will not seat properly replace lamp.
INCORRECT VOLTAGE	Make sure you are using the correct input voltage with ballast. If using incorrect voltage, disconnect the ballast from the power source immediately.
DEFECTIVE OR IMPROPER WIRING	Examine wiring to ensure it agrees with wiring diagrams on ballast label. Check connections to see that they are secure. If wiring a 240V ballast, DO NOT use a neutral. The correct wiring is two hot wires and a ground.
POOR ELECTRICAL CONNECTIONS	Check wiring and lamp contact with socket. Make sure the lamp cord is firmly seated in output receptacle.
INCORRECT LAMP	Verify that you are using the proper wattage lamp with ballast. DO NOT use a lamp manufactured according to European or Asian specifications as they will not provide consistent performance.
LAMP DAMAGE	Investigate possibility of outer bulb damage, particularly where glass meets base. Lamps may have been twisted to firmly into socket. Look for broken tubes or loose metal parts. Replace lamp.
BREAKER	If lamp will not start, reset the breaker by pressing the white button located on the input side of the ballast.

RETURNING UNITS Please contact your retail store for returns.

WARRANTY This unit, when properly used will provide you with years of service. It is covered under a 5 year warranty. The first 3 years are a full rebuild or replace warranty. The final 2 years are pro-rated from the purchase date if the return is accompanied by a receipt. What this means is that at 3 years 60% of the warranty is gone. We will pro-rate the remaining 40% over the final 24 months. Any credit due will be applied to cost of freight, parts and labor to repair the unit or at manufacturers sole discretion may be applied toward the purchase price of a replacement unit. Monetary refunds on the remaining prorated warranty will not be given. This warranty will be voided if the unit is misused, abused or altered. Warranty repair or replacement will be at the sole discretion of the manufacturer. Defective units need to be returned to the place of purchase with proof of purchase/receipt.

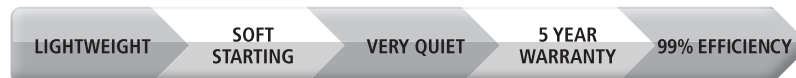
This warranty is expressly in lieu of all other warranties, expressed or implied, including the warranties of merchantability and fitness for use and of all other obligations or liabilities on the part of the seller. This warranty shall not apply to this product or any part thereof which has been damaged by accident, abuse, misuse, modification, negligence, alteration or misapplication. Manufacturer makes no warranty whatsoever in respect to accessories or parts not supplied by manufacturer. This warranty shall apply only to the United States, including Alaska, Hawaii and territories of the United States and Canada.

5 YEAR WARRANTY ON THE GALAXY[®]

For Technical Support call your nearest distribution center:

Vancouver, WA	(360) 883-8846	Livermore, CA	(925) 337-8070
Ontario, CA	(909) 930-1990	Samoa, CA	(707) 832-4004
Denver, CO	(303) 606-7400	Chicago, IL	(815) 893-7050
Detroit, MI	(248) 313-6565	York, PA	(717) 779-1260
Nashville, TN	(615) 758-1920	Pompano Beach, FL	(954) 633-2725

Installation/Operating
INSTRUCTIONS



THIS STATE-OF-THE-ART BALLAST IS MANUFACTURED TO PROVIDE TODAY'S SERIOUS GROWER WITH MAXIMUM FLEXIBILITY & PERFORMANCE.

**INSIDE:
READ IMPORTANT
INFORMATION BEFORE
FIRING UP YOUR BALLAST**

KEEP ORIGINAL PACKAGING— all returns need to be in the original packaging in order to avoid product damage during shipping. Any damage to products not in their original packaging will not be covered under warranty.

SAFETY FIRST! Failure to observe the following safety warnings may result in serious injury. In addition, failure to observe these safety warnings will result in a waiver of all liabilities and will void all warranties.

WARNING

- If the exterior of the lamp is damaged, replace lamp immediately.
- When re-lamping, make sure lamp has time to cool before touching.
- Make sure power cord and lamp cord are connected properly.
- Disconnect power before re-lamping.
- **DO NOT** hang by power or lamp cord.
- **DO NOT** make contact with the interior of the socket while power is on.
- **DO NOT** operate light systems in wet locations.
- **DO NOT** plug system into supply voltage other than what is designated on ballast.
- **DO NOT** attempt to rewire or reconfigure your system, it will void warranty and could cause serious safety hazards (i.e. power cord, lamp cord, lamp socket or ballast).
- Keep away from children.

SAFETY FIRST!

- **DO NOT** alter or modify this unit in any way. It may cause bodily injury or death as this is a high power electrical device.
- **DO NOT** submerge in water or splash water on the unit.
- **DO NOT** plug or unplug the lamp cord while the ballast is energized.

These high performance Electronic Ballasts are extremely efficient. They have a high power factor and high luminous efficacy. It's stable performance creates constant power output even when power fluctuates (power surge). Short circuit protection technology prevents damage to the lamp and other ballasts connected to the same circuit.

1. INSTALLATION PROCEDURE

- **DO NOT** alter or modify the electronic ballast in any way. Not only may it damage the unit, it will void the warranty.
- Lamp power rating must match electronic ballast power rating.



These ballasts offer our exclusive Smart Volt[®] feature – They are “smart” ballasts — They will operate on either 120 or 240 volt power (except Galaxy[®] 1000 watt 240 volt only ballast, part #902510) by simply plugging in the appropriate power cord. There is no further modification necessary. It comes with a 120 volt power cord. If you wish to run this ballast on 240 volt, you must purchase the 240 volt power cord separately (part #903082 six foot or #903084 twenty foot).

The Galaxy 1000 watt 240 volt only ballast, part #902510, is a designated voltage electronic ballast. Run this ballast only with 240 volts.

2. SPECIFICATIONS

- 120-240 Volts (#902510-240V only)
- Power source frequency: 50/60Hz
- Power Factor (cosφ): > 0.99
- Ambient Temp: 50°F to 120°F
- Crest Factor: < 1.5
- Acoustic Resonance: none
- Total Harmonic Distortion: (THD): < 10.0%

3. NOTES

- The Galaxy Electronic Ballasts will operate with Metal Halide lamps and High Pressure Sodium lamps that are rated at the proper wattage.
- This unit offers short-circuit and power fluctuation
- The Digital Fusion[™] needs to be actively air-cooled with a fan.

240V WIRING - VERY IMPORTANT! All digital ballasts may malfunction if the 240V circuit has a neutral. The input for the ballast is 2 HOT WIRES and 1 GROUND WIRE. If you are using a light controller ONLY bring a ground wire and two hot leads from your electrical panels.

HOT RESTRIKE - It is **VERY IMPORTANT** that the lamp is given adequate time to cool down before it is reignited. You should allow a hot lamp to cool for 20-30 minutes before you try to restrike it. Hot restrikes cause permanent lamp failure and lumen output degradation. Additionally, the lamp should never be turned off before the lamp reaches full intensity.

LAMP REPLACEMENT - Be sure to disconnect the power source before changing lamps. Always use the specified wattage lamp. (A 400W halide lamp should not be used in a 600W ballast).

MOUNTING LOCATION - **DO NOT** install ballasts in areas of high heat, such as an attic or a closed closet. **DO NOT** mount the ballast to the reflector or blow exhaust air over them. **DO NOT** stack ballasts on top of each other. **DO NOT** allow contact with water. Mount units at least six inches apart. If a unit has any leaking resin, please relocate to a cooler area or place a fan near the ballasts.

TIMER BOX - If you are connecting a 240V ballast to a timer box, please make sure that it cuts off both legs when timer is switched off. If you continue to supply 120V to your ballast when the timer is switched off, it may damage your ballast. **DO NOT** use Intermatic WH-21 timer boxes with Lumatek 240V ballasts.

HPS/MH - The ballasts operate both metal halide and high pressure sodium lamps. They will not light mercury vapor lamps which are commonly sold in hardware and some hydroponic stores. **PLEASE NOTE:** The 750W ballast is HPS only.

LAMP RECOMMENDATIONS - The ballasts were designed to provide superior performance with several lamps manufactured to American specifications. There are several brands of lamps available for the U.S. market that were made according to European specifications. We do not recommend using these types of lamps, since they will provide inconsistent performance with your ballast.