



Electronic Ballast Grow Light Instructions

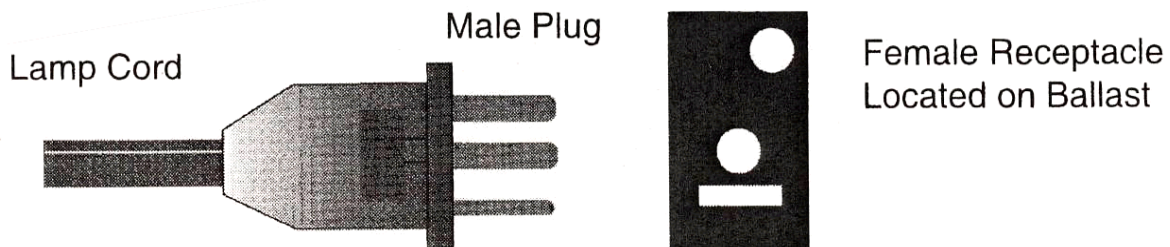
SAFETY FIRST!

Failure to observe the following safety warnings may result in serious injury and will void all warranties.

- If the exterior of the lamp cracks, punctures, or breaks, turn off the unit immediately. The bulb may still work, but DO NOT use it.
- Functioning (and recently functioning) lamps are very hot; allow time to cool before attempting to touch. Hot lamps may shatter or crack upon contact with water. Use caution when removing lamps around water.
- DO NOT remove or insert lamps while the power is on.
- Use a properly grounded timer and a 3 prong plug when using a timer with this fixture.
- DO NOT hang the fixture by its power cords. Use the supplied hanging hardware to hang the fixture.
- DO NOT attempt to modify or rewire any light system.
- DO NOT touch the socket while the power is on (with or without the lamp inserted).
- DO NOT energize this light with any voltage other than what the unit is made for.
- Make sure the lamp cord is plugged all the way into the female receptacle on the ballast.

SYSTEM SETUP


1. Make sure the unit is unplugged.
2. Attach the eye-bolts or hooks in a CEILING STUD where the reflector is to be hung. Note: A strong cord or chain may be used to hang the reflector from the ceiling hook if extended length is required, and will allow for raising and lowering of the assembly as necessary.
3. Insert the socket assembly into the reflector (if it is not already permanently attached).
4. Carefully screw the bulb into the socket until it is snug. DO NOT over tighten.
5. Spread the hangers and insert them into the holes on top of the light fixture, and hang the fixture from both ends to a strong cord or chain.
6. Mount the ballast to a wall by securing it through the holes at each end to the wall studs.
7. Route the lamp cord up and away from the light to another hook and down the wall to the ballast location.
8. Plug the male plug on the lamp cord into the female receptacle on the ballast (shown below). IMPORTANT: Plug the lamp cord into the ballast BEFORE plugging the power cord into an outlet.
9. Plug the power cord on the ballast into a properly rated, grounded outlet or a heavy-duty grounded timer.





HOW MH AND HPS BULBS FUNCTION


- Small pieces of glass or metal inside your lamp are common.
- It may take your bulb 10 to 15 minutes to reach full brightness.
- If the bulb is shut off after reaching full intensity, it can take approximately 10 to 20 minutes to restart.
- During the first few hours of use, the light from the bulb will oscillate.
- The light output will decrease in intensity during the life of the bulb.
- In the first few hours of operation, the intensity of the light may fluctuate somewhat which is normal. After 100 hours of burn-in time, the bulb will burn evenly.
- Average life of an MH bulb is 10,000 to 15,000 hours. The average rated life of an HPS bulb is 20,000 to 24,000 hours. Most users choose to replace bulbs before the stop operating because of light loss and/or spectral shift.

GROW LIGHT TIPS & RECOMMENDATIONS

 **Hanging height:** Due to the heat that is emitted from these types of fixtures, you should hang them according to size. Smaller wattage systems (100 and 250) should be hung about 2 to 3 feet from the top of the plants. Medium wattage systems (400 and 600) should be hung around 4 feet from the top of the plants. High wattage systems (1000 and up) should be placed at least 4 to 6 feet from the plant tops.

 **How long should lights run?** This depends on the type of plant. Most plants and vegetables need about 10 to 12 hours of light to promote growth. Plants that produce fruits or flowers will show improvement with up to 16 hours a day of supplemental light.

 **Providing air circulation:** MH & HPS grow light bulbs and ballasts emit a lot of heat. That is why it is important to provide plenty of air circulation over the equipment to prevent overheating and/or premature failure.

 **Moving plants under HID lights:** Use caution when moving plants from lower light situations (windows or fluorescent lights) to a high intensity MH or HPS light, because they can get sunburned. Keep the light an extra foot away and increase the number of hours of exposure over a couple of days.

TROUBLESHOOTING

If your light system does not work:

1. CHECK THE ELECTRICAL SOURCE – Make sure the unit is plugged properly and that the breaker is not tripped or fuse blown.
2. CHECK THE TIMER/CONTROL - Remove any timer or other controls that the ballast is plugged into. Plug the ballast directly into the outlet.
3. CHECK THE LAMP – make sure your lamp is screwed all the way into the socket.

Problem: My ballast is humming but the light is not coming on.

Solution: Humming indicates the ballast is on. 1. The lamp may not be screwed in tight enough. 2. The system was cut off before the lamp ignited. It can take 5 to 10 minutes for lamps to initially ignite. 3. The lamp is defective. Contact us for help.

Problem: Every time I turn on the light system the circuit breaker trips.

Solution: You may have too many appliances on this circuit. A normal home's circuit has only 15 amps available. These HID lights use up to 10 amps each. Check the amperage draw of each device on the circuit and make sure you are not overloading the circuit with too many appliances and/or lights.

Problem: I turned off my HID light, and it won't come back on.

Solution: The bulb may take up to 20 minutes to cool down before it can be fired up again.

Problem: My bulb has small pieces of glass inside of it.

Solution: It is common for small pieces of glass to break loose inside of the bulb. This will not affect the lamp's output or life. If there is a crack or hole in the outer glass, the bulb should be replaced.

IF NONE OF THE PROCEDURES ABOVE FIX YOUR PROBLEM, PLEASE CONTACT ACF GREENHOUSES TECHNICAL SUPPORT AT 888-888-9050 X 227 OR HELP@LITTLEGREENHOUSE.COM.

WARRANTY

Electronic Ballasts = 3 Year Warranty

HID Fixtures = 5 Year Warranty

MH & HPS Bulbs = 1 Year Warranty

During the life of the warranty period, ACF Greenhouses will, at our option, repair or replace the light system if the unit or any of its components fail or malfunction. 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. ACF Greenhouses makes no warranty in respect to accessories or parts not supplied by our company. This warranty only applies in the USA.