

Copper Sculptures, Inc. / Legendary Lighting, L.L.C.
Electronic Ignition Installation Procedures

The Copper Sculptures and Legendary Lighting Electronic Ignition System (*referred to as E.I.*) comes equipped with all the necessary components for operation via wall switch. *Please note that a wall switch is not provided with the lantern.*

For the lantern and E.I. to work properly, please refer to the following installation procedures:

1. Provided with each lantern is a **24 Volt, 20 VA, Class II AC (magnetic coil)** transformer. Unless the transformer has been factory installed, locate the transformer in an easily accessible *remote* location. ***If the home utilizes “SMART HOUSE” technology, please contact Tech Support (800-350-5361) before proceeding with installation.***
2. Connect the *green* and *blue* wires from the lantern to the low-voltage output side of the transformer.
3. Connect the 110-volt power supply wires to the input side of the transformer. *Refer to the wire gauge chart on the installation diagram for proper sizing.*
4. Connect the gas supply line to the ¼” flare fitting inside wall bracket and turn on the gas supply. ***Make sure to check the connection for gas leaks via a soap water test; if air bubbles appear, shut-off main gas supply and tighten all fittings. Never use an open flame to check for gas leaks.***
5. After inspection of all electric and gas connections, open the gas valve located at the base of the burner stem by turning clockwise to the ‘on’ position.
6. Ignite the lantern by flipping the wall switch or circuit breaker to the ‘on’ position.

Please Note:

Do not connect the E.I. directly to 110 volts.

20 VA minimum is required per lantern.

Failure to follow the above procedures will result in damage to the E.I. and void the warranty.

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E.I. INSTALLATION NOTES

During the initial installation there are a few points of concern:

Copper Sculptures and Legendary Lighting make electronic ignition operated lights that can be post mount, wall mount or ceiling mount. The basic electrical components are the same; however, configurations might vary according to mounting system used.

There are four major components to the system: a transformer, a solenoid valve, an electronic ignition control box and an ignitor/sensor.

If, after installation, the E.I. does not appear to be operating correctly, the problem can most likely be corrected by process of elimination. Most problems occur generally as a result of an inadequate transformer or the need for adjustment of the position of the igniter.

TRANSFORMER

The transformer provided is a 24 Volt, 20 VA, Class II, AC (magnetic coil). **No more than one light should be connected per 20 VA transformer (*the transformer MUST be a MINIMUM of 20 VA per lantern*)**. If an operational problem exists, check the output of the transformer first. The output of the transformer must be a minimum of 24 volts for the electronic ignition control system to function properly.

SOLENOID GAS VALVE

The solenoid valve is operated by the electronic ignition control box. If the gas can be ignited either manually or with the ignitor, most likely the solenoid is operating correctly.

CONTROL BOX

If the ignitor is arcing (or sparking), the gas is igniting and a strong flame is visible, the electronic ignition control box appears to be functioning correctly.

IGNITOR/SENSOR

The ignitor/flame sensor is thoroughly checked for operation during final assembly and inspection at the factory. In the field, however, it may need to be adjusted due to gas pressure, quality of gas, etc.

An adjustment that may need to be made includes the raising or lowering of the ignitor one-eighth inch to one-quarter inch. The ignitor wire going to the control box should also be checked to make sure it is not grounding out (arcing somewhere other than the prongs) or causing the arc at the prongs to not be sufficient enough to ignite the gas.

If you have problems at the time of installation and have followed the tips listed above, please contact ***Technical Support at 1-800-350-5361.***