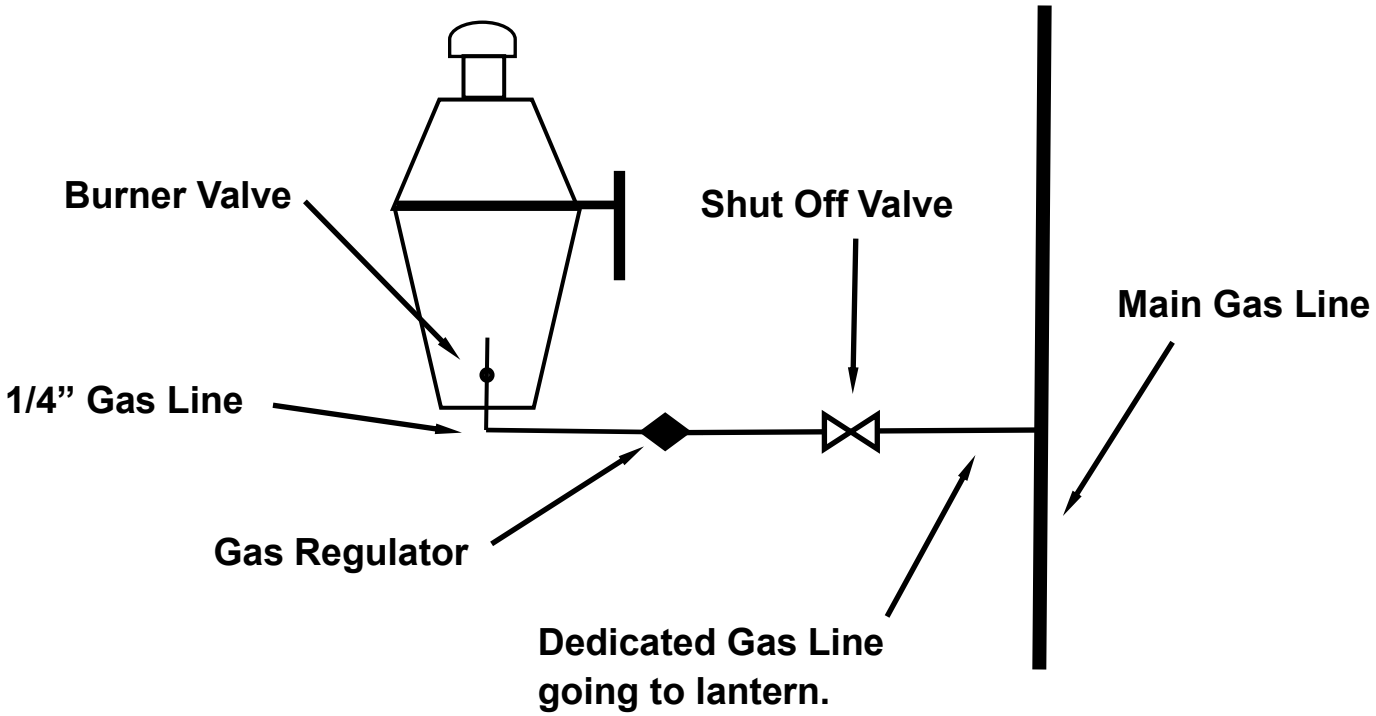
Installation Instructions & Operation Instructions

Refer to The Gas Lantern Installation Instructions supplied with the Lantern.

Installation of the ***e-lyte*** ignition system should be performed by licensed professionals. Installation should comply with all building and regulatory codes. This igniter is to be used in gas lanterns only.

Important Note:

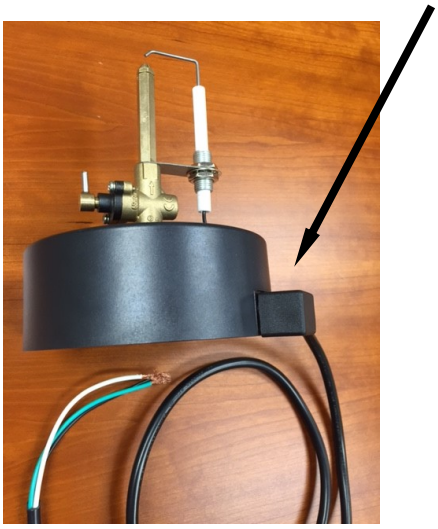
A gas regulator must be used to reduce the operating gas pressure to the igniter to pressures between 2” to 3” water column. Each ignition system must be fitted with a designated regulator. Failure to do so will cause the Ignition System to malfunction and void the warranty.



Recommended Gas Line Installation

The ***e-lyte*** system operates on a 110vac. The gas connection should be 1/4" copper tubing.
The ***e-lyte*** system should be wired into a normal wall switch that is normally located inside the house or building that the light is being installed on.

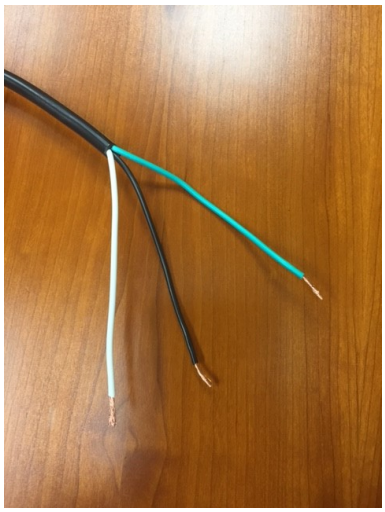
1. Plug the electrical cord into the igniter.



2. Install the igniter into the lantern using the 2 brass washers. Place one inside the lantern and one on the outside of the lantern. Tighten the 90° brass fitting into the bottom of the igniter. Be sure to use an approved pipe sealant. Point the valve stem to the front of the lantern.

Igniter

90° Fitting



3. Connect the wiring to the 110VAC power source.

Green = Ground
White = Neutral
Black = Hot

Operation

After the gas lines have been tested for leaks and the gas supply and burner valve have been turned on, turn on the electrical power to the igniter.

Ignition Sequence

1. Immediately after the power is turned on, you should hear the igniter sparking wire begin to spark. This sparking will continue for approximately 10 seconds. Then it will stop.
2. If the burner lites, the sparking will stop. If the burner is not lit, the sparking will resume a second time for 10 seconds and stop. This will sequence will repeat three times. If the flame is not lit on the third attempt the ignition system will shut off and need to be re-set. When the igniters shuts off all gas flow is stopped.
3. To re-set the ignition system, simply turn the power supply off and back on again.
4. The ignition sequence will start over again.

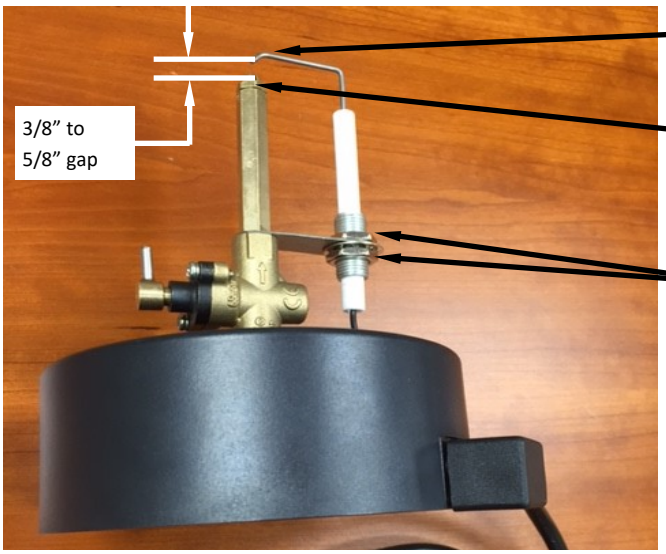
Blow Outs

It is not uncommon for gas lanterns to blow out during severe weather conditions. If a blow out occurs, The ***e-lyte*** system will re-lite the burner using the same ignition sequence. If the flame will not re-lite during severe conditions, the igniter will complete the ignition sequence and the gas supply will be shut off and need to be re-set.

NOTE: It may be necessary to cycle the ignition system several times for the gas lines to be purged of air.

IF YOU SMELL GAS, TURN OFF THE GAS SUPPLY LINE AND CONTACT YOUR GAS UTILITY IMMEDIATELY

Problem	Possible Solution
Igniter sparking , but not lighting.	1. Make sure gas is opening by tuning on power attempt to light the flame using a long handle gas grille lighter. 2. If the flame will not lite using lighter, contact The Coppersmith for further technical assistance. 251-621-3435. 3. If the flame lites using the lighter: a. Assure the gas pressure is between 2” and 3” WC. b. Adjust spark wire to a minimum height of 3/ 8” to a maximum height of 5/8” from the top of the burner tip. Also make sure the end of the spark wire is centered over the burner tip.
Igniter not sparking.	1. Make sure power supply cord is fully plugged into the back of the igniter. 2. Make sure 120vac is supplied to the power cord.
Flame lighting and going out after a few seconds.	1. Assure the gas pressure is between 2” and 3” WC.



Adjust the sparking wire to a maximum height of 5/8” and minimum height of 3/8” from the top of the burner tip using the adjustment nuts.

Do not bend the spark wire.

For questions and technical assistance:
Contact The Coppersmith @ 251-621-3435
thecoppersmith.net