



**SOLARA**

**CUSTOM DOORS & LIGHTING**

142 HOWELL STREET, DALLAS, TX 75207

**INSTALLATION INSTRUCTIONS  
AND OWNERS MANUAL**

---

*ANSI/CSA Standard designation ANSI Z21.42-1993*

# TABLE OF CONTENTS

---

## Chapter 1.

- *Important warnings and installation requirements.*
- *Official announcements from Solara Lighting*
- *Gas fired BTU ratings.* ----- Page 3

## Chapter 2.

- *Electronic safety valve photo* ----- Page 4
- *Gas valve information*

## Chapter 3.

- *Before installation.* ----- Page 5-6
- *Installation Requirements*
- *Sediment trap*

## Chapter 4.

- *Fixture Mounting.* ----- Page 7-10

## Chapter 5.

- *Lighting Instructions.* ----- Page 11
- *Warranty Statement* ----- Page 12

## **CAUTION:**

*During normal operation, gas lanterns operate HOT, do not cover or hang clothing or any flammable or combustible material from the gas operated lanterns.*

# CHAPTER 1.

## *Official announcements from Solara Lighting LLC.*

### *Important:*

- *Read all installation, operating and maintenance instructions before installing, operating or servicing lantern equipment.*
- *Improper installation, adjustment, alteration, service or maintenance of these lanterns can cause fire or explosion resulting in property damage personal injury and/or death.*
- *A qualified installer, service agency or gas supplier must perform installation, service or maintenance.*
- *The installation of this fixture must conform with all local codes and if there are not such codes, with the latest edition of the National Fuel Gas Code ANSI Z223.1. A copy of which can be obtained by requesting one in writing to client services and this companies address.*
- *A professional plumber and or electrician must provide all conduits for gas and electricity to the point of installation. The plumber must have the gas flowing properly and evenly to the individual gas lines and shut off valves must be working properly as per specifications and as described in this manual. Failure to ensure proper gas pressure will cause the gas appliance to not work properly.*
- *The manufacturer, distributor, or retailers are not responsible for improper installation or damage caused by the installer. Improper installation can cause the warranty to be voided.*
- *The gas lanterns are listed with Underwriters Laboratories Inc. under Solara Lighting LLC, File # MH28290.*

### **Butane usage Ratings:**

|   |             |
|---|-------------|
| Medium size propane fired lantern:      | 2100 Btu/hr |
| Large size Propane fired lantern:       | 2500 Btu/hr |
| Medium sized Natural Gas fired lantern: | 2300 Btu/hr |
| Large sized Natural Gas fired lantern:  | 3300 Btu/hr |

## CHAPTER 2.

### *Electronic Self-igniting safety valve with photocell.*

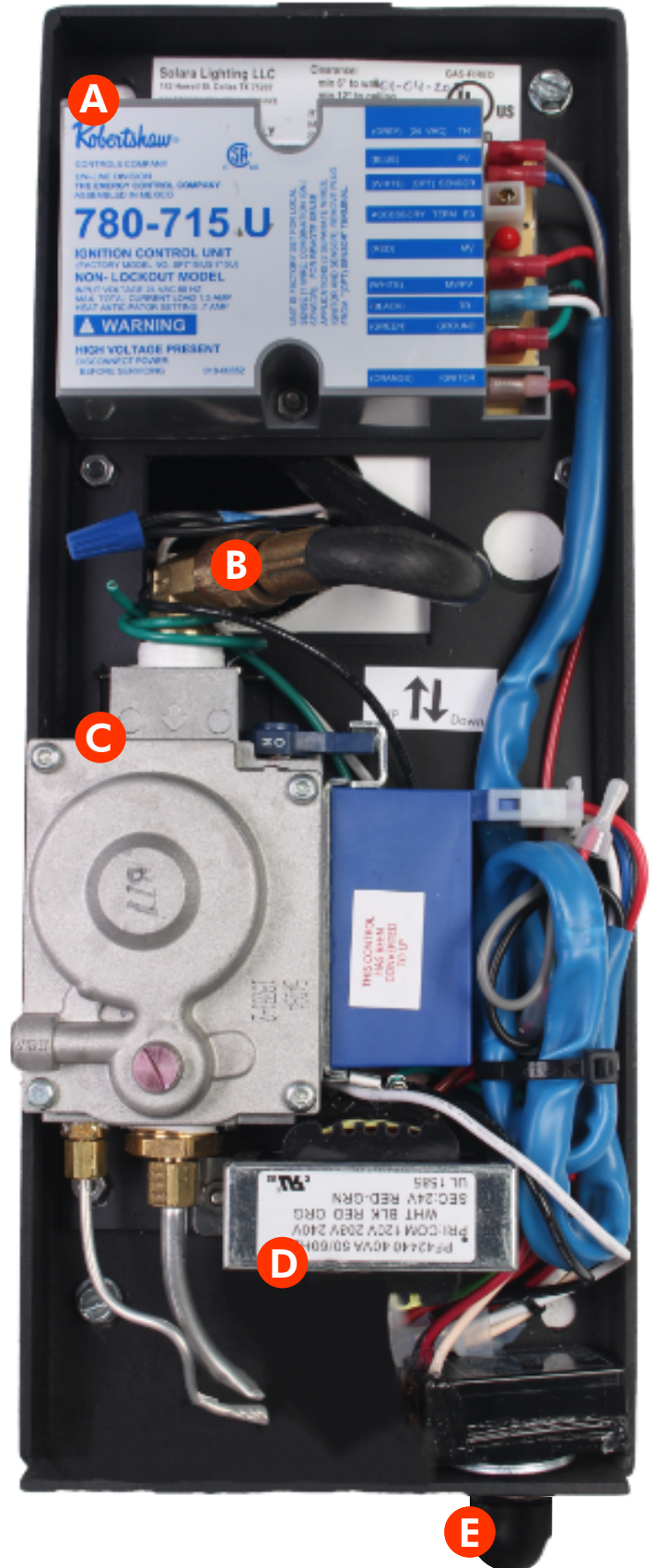
- A** Ignition control Unit
- B** 1/2" flex hose, provided by Solara
- C** Automatic gas valve.
- D** 24 Volt transformer.
- E** Photocell Unit

- Your gas lantern comes fully equipped for automatic ignition and re-ignition if the flame should accidentally go out. See Photo 1 of the interior of your gas lantern back plate.

- The unit can also be attached to a light switch in your home, you may if you wish, have the photocell bypassed.

- Along with the self-ignition system, the gas valve comes with it's own safety valve feature. If for any reason, the unit cannot relight, the valve will automatically shut off the flow of gas to the burner. Once the power is restored, then the gas valve will begin to work again, as long as the pilot line is able to light.

- The photocell feature allows for automatic ignition of the unit at dusk and at dawn, as long as the power remains constant to the unit.

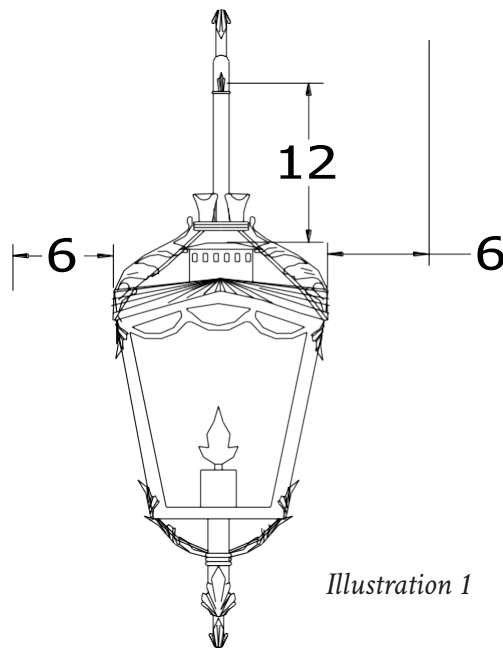


# CHAPTER 3.

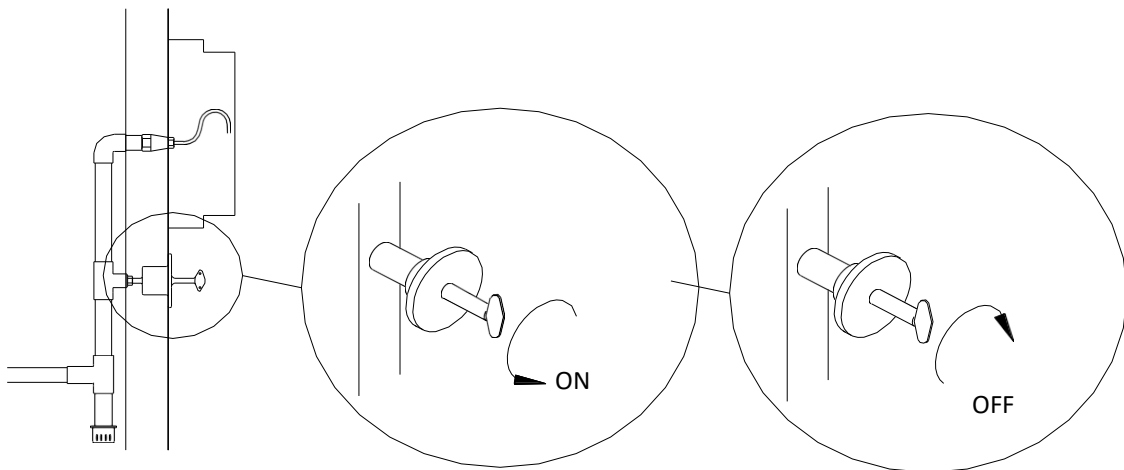
## *Preparation for installations.*

### *Clearance Requirements.*

*The body of the gas lantern, excluding ornamentation, must be installed not closer than 12 inches from the ceiling or overhang and not closer than 6 inches from the side of any wall.*

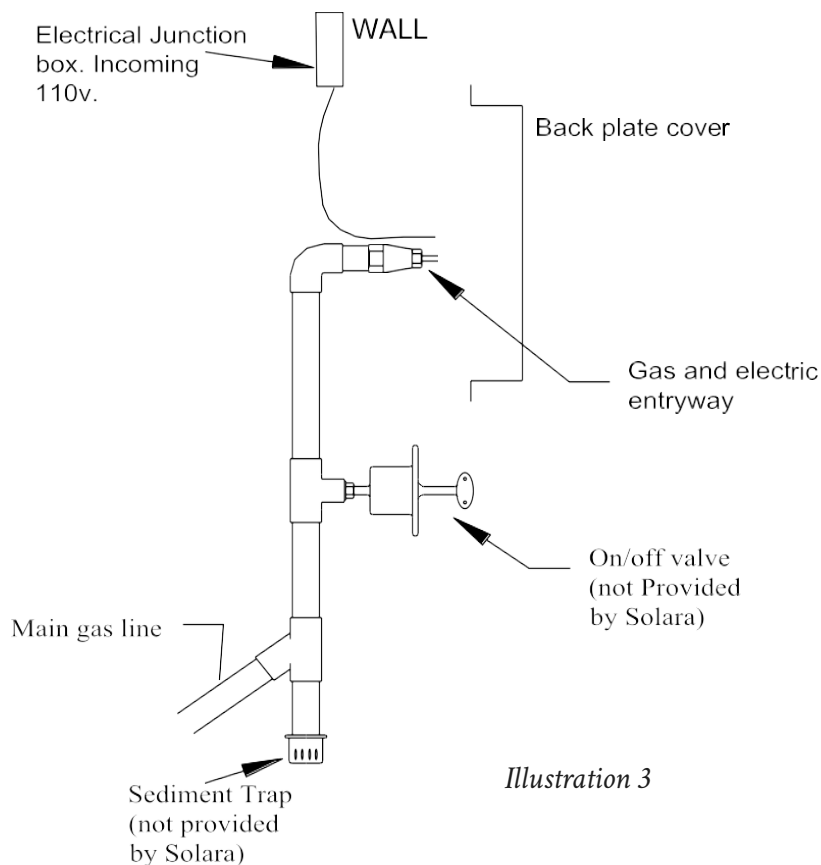


*A main shut off valve, which complies with the construction provisions of ANSI Z21.15 and is suitable for use with the gas being used, must be installed between the gas line and the lanterns according to your local codes.*



## Preparation of the site.

See Illustration 3 below for suggested wall mounted layout..



- The electric self-igniting lanterns must be supplied with an electric line of 110v and 15amp breaker, run to the location specified on the mounting template included in the book.
- The electric connector should be mechanically secured to the fixture back plate at the location provided in the template/-drawing. (see illustration 5, page 8.)
- It is recommended that the installer provide a sediment trap in the gas line serving the gas line. For ease of installation Solara Gas lanterns are fitted with a 3/8" flexible hose that fits into standard household 1/2" gas piping.
- The builder should stub out a 1/2in gas line no longer than 2in. from the wall, with 1/2in male thread. See Illustration 3.
- The installer must insure that the gas service line has a service regulator. If no regulator is provided in the supply system, the installer must contact the local gas utility or gas supplier.
- These lanterns must be disconnected from any pressure testing in excess of 1/4"psig.
- The gas lanterns supplied by Solara Lighting have been ignited and tested prior to delivery and packaging, with gas pressure at service line of 7.0inches wc- for natural gas (.25 psig) - and 11.0inches wc for propane gas.
- For natural gas models, adjust inlet pressure to 7.0"wc. For Propane gas models adjust inlet pressure to 11.0"wc. Failure to adjust the inlet pressure will greatly impact the performance of your gas lanterns.

## Preparation of the site.

See Illustration 3 below for suggested wall mounted layout..

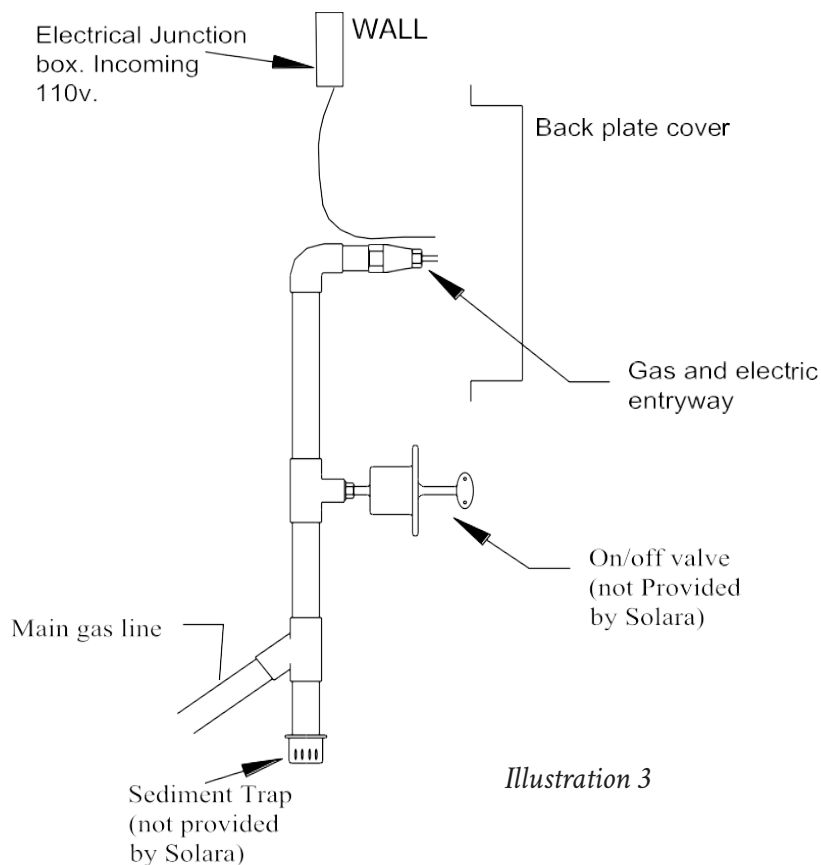


Illustration 3

- The electric self-igniting lanterns must be supplied with an electric line of 110v and 15amp breaker, run to the location specified on the mounting template included in the book.
- The electric connector should be mechanically secured to the fixture back plate at the location provided in the template/-drawing. (see illustration 5, page 8.)
- It is recommended that the installer provide a sediment trap in the gas line serving the gas line. For ease of installation Solara Gas lanterns are fitted with a 3/8" flexible hose that fits into standard household 1/2" gas piping.
- The builder should stub out a 1/2in gas line no longer than 2in. from the wall, with 1/2in male thread. See Illustration 3.
- The installer must insure that the gas service line has a service regulator. If no regulator is provided in the supply system, the installer must contact the local gas utility or gas supplier.
- These lanterns must be disconnected from any pressure testing in excess of 1/4"psig.
- The gas lanterns supplied by Solara Lighting have been ignited and tested prior to delivery and packaging, with gas pressure at service line of 7.0inches wc- for natural gas (.25 psig) - and 11.0inches wc for propane gas.
- For natural gas models, adjust inlet pressure to 7.0"wc. For Propane gas models adjust inlet pressure to 11.0"wc. Failure to adjust the inlet pressure will greatly impact the performance of your gas lanterns.

# CHAPTER 4.

## *Mounting the Gas Lantern.*

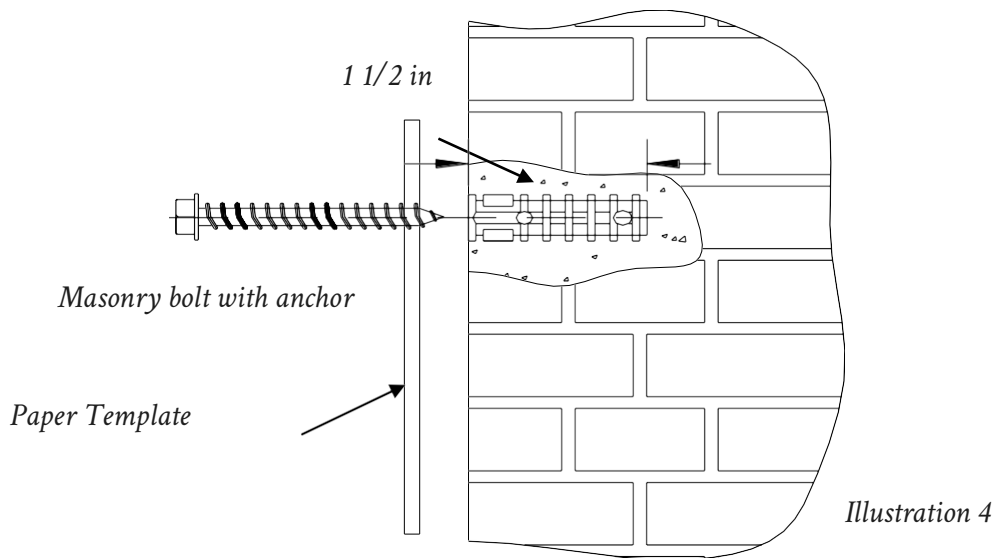
### *Fixture mounting.*

*This type of lantern requires separate gas and electric inputs, refer to the Illustration 5 on page 8, for the correct location of the gas and electric entry points.*

*As always, install this fixture only in accordance with all national and local codes.*

*Because of the weight of these fixtures, Solara Lighting does not recommend mounting our lanterns other than onto Masonry or 2 x 4 support beams.*

*Solara Lighting has provided you with the 4 masonry bolts needed to mount your lantern to most brick or concrete homes (Illustration 4). If your lantern requires different mounting, that we do not provide, please confer with your builder or a professional person before installing. Detailed instructions on page 9.*





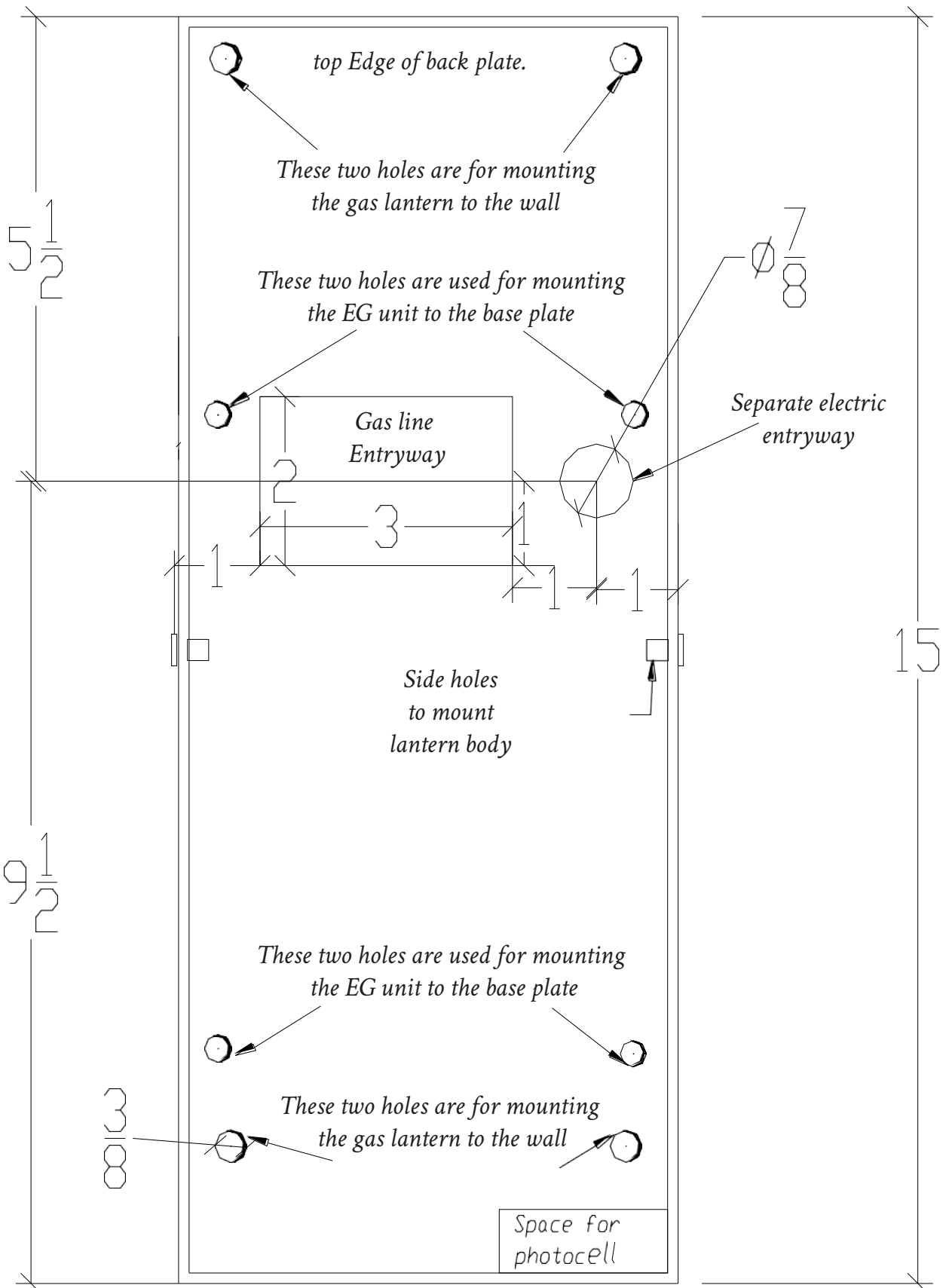


Illustration 5. Back plate layout. Not to Scale

## Fixture Mounting. Con't.

Follow all national and local codes when mounting these fixtures.

### Step 1.

With the gas and electric run to the desired location, use the mounting template supplied with the installation kit. Center the template over the incoming gas and electric connection points. Make sure it is straight and level and mark or drill through the holes where indicated on the template with a 1/2" masonry bit at about the depth of two (2) inches. See Illustration 4.

### Step 2.

Once the 1/2" holes have been drilled and bolt anchors put in place, hold the fixture close to the opening and attach the 7/8" wiring conduit to the provided mounting hole for the electric wiring (if required). Mount the gas line opening over the 1/2" stubbed out gas line. See illustration 5 on page 8.

### Step 3.

Insert the four mounting bolts through the back plate holes and tighten the bolts in place.

Tighten them securely. See illustration 4 on page 8.

### Step 4.

Attach the flex hose attached to our gas lantern unit to the incoming gas line. Use plumbers putty or some sealing material to properly seal the connection. TEST for gas leaks in accordance with all local codes.

### Step 5.

Use the Proper size wiring nuts provided by Solara to seal the wiring connections. Make connections using the wiring diagram below as your guide. See Illustration 6.

### Step 6.

Cover the back plate with the supplied front cover, secure it with supplied thumb screws on the side. See Photos 2 & 3.

### Step 7.

Install the glass as required. The smaller glass panels are identified and will usually go in the door assembly.

### Step 8.

After the fixture has been mounted and the lighting tested, apply silicone caulking around the back plate edges as needed to provide a watertight seal between the fixture and mounting surface.

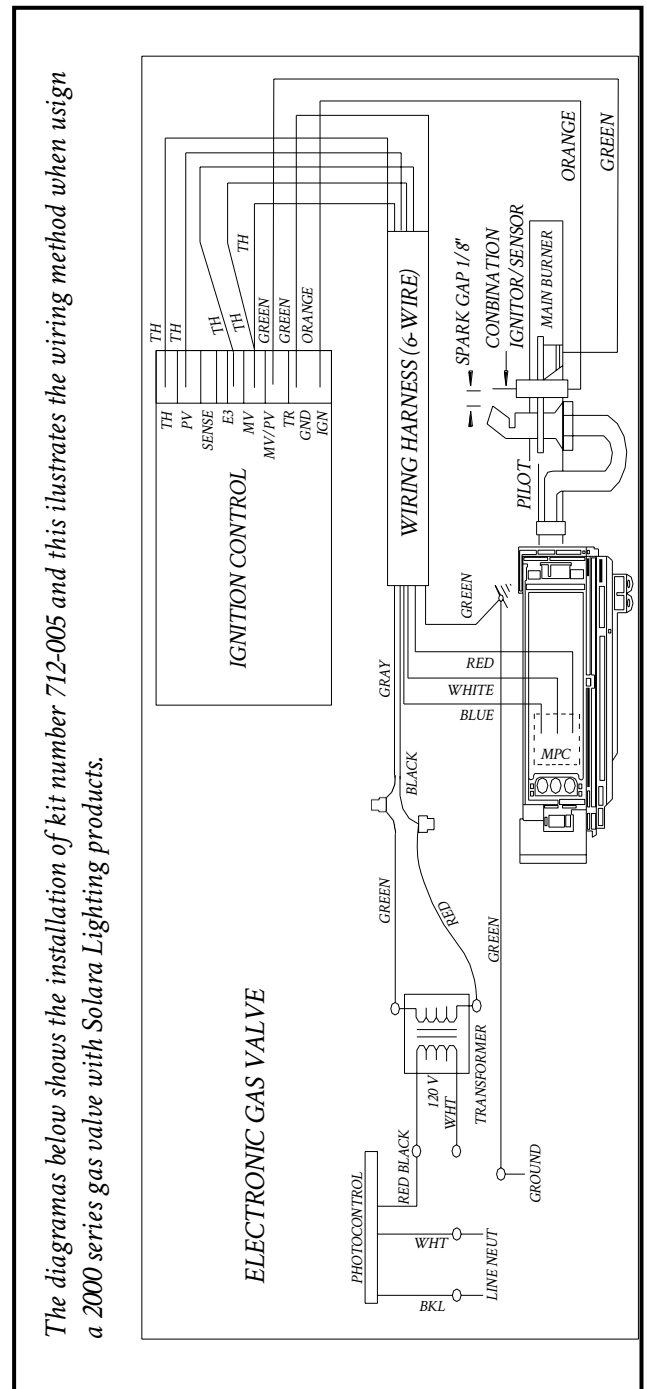


Illustration 6.



*Photo 2*



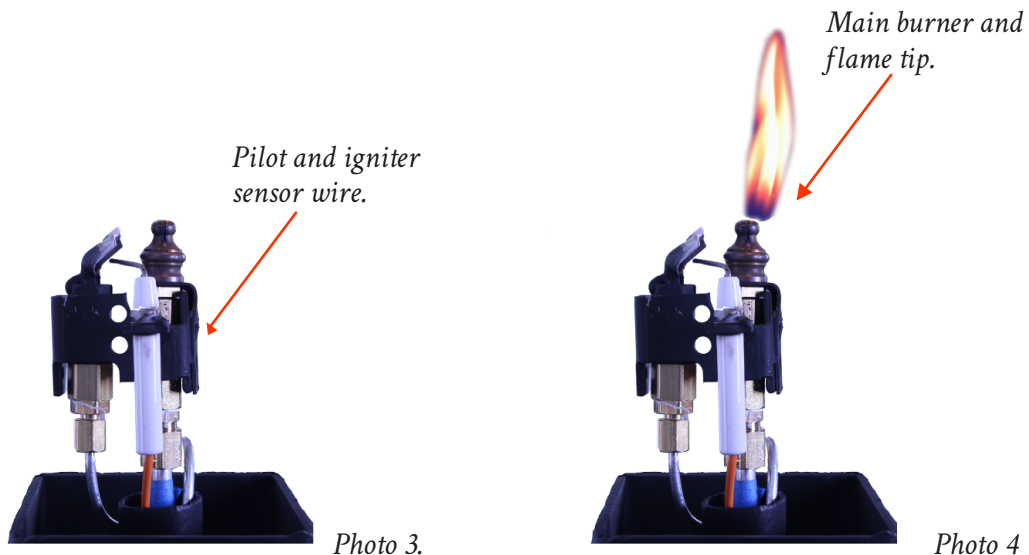
*Photo 3*

# CHAPTER 5.

## *Lighting and Operating Instructions.*

### *Lighting Instructions.*

- Turn the gas on to the fixture, make sure the individual gas line is in the on position (Illustration 2). Verify flow of gas to the fixture. If the smell of gas is present around the fixture, turn off the manual shut off valve immediately, and check and tighten all connections with the gas lines.
- Making sure the gas line is flowing properly and the smell of gas is not present, turn the power on to the fixture.
- If your fixture is supplied with a photocell (see photo 1) for automatic operation, you must cover the lens with black tape to simulate darkness, or the unit will not operate.
- The pilot igniter (Photo 3) should begin sparking, and the pilot flame should light up. Depending on the gas pressure and the distance from the gas supply this can take a few minutes to initially light.
- After the pilot flame lights up, the igniter sensor wire will open the main gas valve and the main burner (Photo 4) should light.
- If the lantern fails to light within five (5) minutes, then turn off the power and try it again. If it is still not working after five minutes, consult the Trouble shooting guide (available on line at [www.solara.tv](http://www.solara.tv)) or contact Solara Lighting Technical support listed on the last page of these publication.



*These gas lanterns MUST have regular maintenance performed in order to work properly and to maintain the beautiful finish. A maintenance guide has been sent with this publication or it is available on line at [www.solara.tv](http://www.solara.tv). Regular maintenance can greatly extend the life of your fixture and it's finish. Murphy oil soap should be applied to the outside of your fixture and can help the lantern finish survive the heat from the gas flame as well as the weather and ultra violet rays. Please refer to the warranty statement on the final page of this publication for clarification of our company policy.*

## **Statement of Warranty.**

### **1. Materials and Technology Warranty. Effective date: January 2009.**

Solara Lighting LLC products are made of the finest materials available and are manufactured under the most rigid specifications in the industry. Solara Lighting warrants its products against defects in manufacturing for a period of one (1) year from our date of invoice, and will promptly replace or repair any items found to be defective. Please contact your dealer or representative first, to report any problems of this type, as we will need that information to honor any warranties.

- Replacement parts are available at no cost if the lantern is within warranty coverage period, this is defined as one year from our date of invoice.
- The technical support personnel will be happy to help you, a plumber or service person to trouble shoot your lantern to discover what the real issue is and then solve it.
- The Technical support line is 214.882.9074, or 214.237.0284 X109.

Broken or Missing Glass will only be considered a warranty item if it is broken and/or missing in shipment and reported immediately upon arrival of the product. Please see the "Ten Day Claim Limit" flyer sent with your lantern.

To access your warranty coverage please follow the steps below.

- Gather your information with regard to the lantern: The company that sold you the lantern(s), the date of installation, the types of lantern(s) i.e. Model name, model #, serial number. The serial number can be found inside the back plate of your lantern, where the gas valve is located. The serial number is on the UL label itself. Your representative (sales person) can help you with the model #'s, purchase date, original order #, etc. When possible, it may be best to let your sales rep. handle the warranty transaction.
- Contact Solara Lighting Technical Support or Customer Service at the numbers listed below with your information. The Quality Assurance or Technical Support team will determine your warranty status and discuss the options to resolve the issue.
- Only Solara Lighting has the authority to okay a return of goods, all returned items that do not have an authorized Returned Goods Authorization (RGA) from Solara Lighting, will be refused by Solara Lighting and returned to the customer at their expense.
- *Warranty coverage does not cover routine maintenance of lanterns, if your problem is determined to be related to lack of maintenance or poor installation practices, your warranty could be voided. Please refer to our Maintenance Guide sent with your lantern with your Homeowner Kit.*

### **2. Special Limited Warranty on Finishes.**

- *Your lanterns require regular maintenance of the outside finish as well as the burner parts of the lantern. Please refer to your maintenance guide for details of cleaning and maintenance procedures. Your lanterns exterior should be rubbed down with a protective coating such as Murphy Oil, to aid in corrosion protection. We recommend cleaning and applying the Protective coating at least every 6-months. Failure to maintain the finish of the lantern can result in the voidance of your warranty.*
- Solara lighting offers a two (2) year warranty on all of our standard finishes.
- Solara Lighting also offers many models in Bronze and these lanterns carry a two-year warranty for finishes. Bronze lanterns will age naturally with time, revealing the beautiful aged patina of bronze. Please note that all of our Cast Bronze pieces were created using the "lost wax" method. This essentially means that each lantern is an individually sculpted piece and some variations will occur. Solara Lighting reserves the right to examine any variance and decide if the item should be replaced or reworked.

All of our beautiful finishes are hand painted and as such are unique and sometimes variations will occur. Therefore, Solara Lighting reserves the right to examine first any returns requested on that basis, before repairing or deciding to charge for the rework.

### **3. Standard Policy for service charges for removal, installation, shipping charges for warranty items.**

All service charge reimbursements must be approved by Solara upper management. Broken glass is not considered a warranty item and will not be covered in service charges.

**The standard repair, removal or installation charge for any single lantern or fixture that Solara will cover is \$100.00 for the first lantern and 40.00 for each additional lantern on that site.**

For cases where one damaged lantern is removed, and a new lantern is installed at the same time, the maximum charge Solara will cover is \$150.00.

For multiple quantities of lanterns, the standard removal or installation charge that Solara will cover is 100.00 for the first lantern and 40.00 for each additional lantern.

Example:  $100.00 + (7 \text{ additional lanterns} \times 40) = \$380.00 \text{ total.}$

We will cover shipping charges only under special circumstances and Solara management must approve this.

© Solara Lighting LLC. (214) 237.0284 x 109

Effective Date: January 2009.

Solara Lighting LLC  
142 Howell St.  
Dallas, TX. 75207  
[www.solara.tv](http://www.solara.tv).

Technical Support Line:  
214.882.9074  
Main office: 1.888.SOLA-  
RA  
Local Number