



# Tempest Lantern 24V

## Owner's Manual

Natural Gas (sku 94900747) - Propane (sku 94900757)



Listed by

Omni-Test Laboratories, Inc.

ANSI Z21.97-2017 /CSA 2.41-2017, CSA 2.17-2017

Outdoor Decorative Gas Appliances

Report # 0028GM083S

**⚠ WARNING: For Outdoor Use Only.** Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

**⚠ WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.**

**⚠ WARNING: Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**  
An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

### **⚠ DANGER: FIRE OR EXPLOSION HAZARD**

If you smell gas:

- Shut off gas to the appliance.
- Extinguish any open flame.
- If odor continues, leave the area immediately.
- After leaving the area, call your gas supplier or fire department.

Failure to follow these instructions could result in fire or explosion which could cause property damage, personal injury, or death.

## **! DANGER**



Hot glass will cause burns.  
Do not touch glass until cooled.  
Never allow children to touch glass.

## **! DANGER**



### **CARBON MONOXIDE HAZARD**

This appliance can produce carbon monoxide which has no odor.  
Using it in an enclosed space can kill you.  
Never use this appliance in an enclosed space such as a camper, tent, car, or home.

**INSTALLER:** Leave this manual with the appliance.  
**CONSUMER:** Retain this manual for future reference.



**TRAVIS INDUSTRIES  
HOUSE OF FIRE**

French language manuals at [tempesttorch.com](http://tempesttorch.com)  
Manuels de langue Française à [tempesttorch.com](http://tempesttorch.com)

## Overview

This manual details the installation, operation, and routine maintenance for the Tempest Lantern.

## Listing Details

This Lantern was tested to ANSI Z21.97-2017 / CSA 2.41-2017 “Outdoor Decorative Gas Appliances”, CSA 2.17-2017 - “Gas-Fired Appliances for Use at High Altitudes”, AGA 8-96-1997 “Requirement for Gas-Fired Decorative Appliances”. The listing label is chained to the appliance. A copy is shown to the right.

## Important Registration and Service Information

No other Tempest Lantern has the same serial number as yours. The serial number is on the safety label attached by a chain near the control panel. This serial number will be needed in case you require service of any type. To receive full warranty coverage, you will need to show evidence of the date of purchase. Mail your warranty card or visit [traviswarranty.com](http://traviswarranty.com) to register your Tempest Lantern. If any service issues may arise, contact your dealer for details.

Serial Number



# Tempest Lantern

(U.S. & Foreign Pat. Pending)  
Report Number: 0028GM083S



| Gas Rating           | NG       | LP       |
|----------------------|----------|----------|
| Input Rating (BTU/h) | 20,000   | 20,000   |
| Orifice Size         | #50      | #55      |
| Burner Port Holes    | 25 Holes | 49 Holes |
| Manifold Pressure    | 7" WC    | 11" WC   |
| Max. Inlet Pressure  | 7" WC    | 11" WC   |
| Min. Inlet Pressure  | 5" WC    | 9" WC    |

| MANUFACTURE DATE:             |   |
|-------------------------------|---|
| <input type="checkbox"/> 2021 | <input type="checkbox"/> Jan. <input type="checkbox"/> Apr. <input type="checkbox"/> Jul. <input type="checkbox"/> Oct. |
| <input type="checkbox"/> 2022 | <input type="checkbox"/> Feb. <input type="checkbox"/> May <input type="checkbox"/> Aug. <input type="checkbox"/> Nov.  |
| <input type="checkbox"/> 2023 | <input type="checkbox"/> Mar. <input type="checkbox"/> Jun. <input type="checkbox"/> Sep. <input type="checkbox"/> Dec. |

- Min. Clearances to Combustible Materials\***
- 26" from top of glass
  - 8" from side of glass
  - 2.5" from bottom of glass
- \*See manual for further details

**Tested to:** ANSI Z21.97-2017 / CSA 2.41-2017 “Outdoor Decorative Gas Fireplace”, “CSA 2.17-2017 - “Gas-Fired Appliances for Use at High Altitudes”, Suitable for use in elevations of 0-4500 ft (0-1370 m). Electrical Rating: 24 VAC., 60 Hz, 1.6 Amps

**For outdoor installation only.** If stored indoors, detach and leave cylinder outdoors (if applicable). The gas supply must be turned off at the LP-gas supply cylinder when this appliance is not in use (if applicable). Cover must be removed when burner is in operation.

|   |    |  |           |
|---|----|--|-----------|
| Overview .....  | 2  | Wire Configuration - Direct-Run vs Daisy-Chain Installations ..... | 15        |
| Listing Details .....                                   | 2  | Wiring Multiple Transformers to One Switch.....                    | 16        |
| Important Registration and Service Information .....    | 2  | Wiring Multiple Lanterns to One Transformer.....                   | 17        |
| Features: .....   | 5  | Daisy-Chain Example .....  | 17        |
| Installation Options:.....                              | 5  | Direct-Run Example .....   | 17        |
| Gas Specifications:.....                                | 5  | Daisy-Chain Wire Length Chart.....                                 | 18        |
| Electrical Specifications:.....                         | 5  | Direct-Run Wire Length Chart .....                                 | 19        |
| Dimensions: .....                                       | 5  | Wiring Examples: .....   | 19        |
| Installation Warnings: .....                            | 6  | Daisy-Chain Installations: .....                                   | 19        |
| Packing List.....                                       | 6  | Direct Run Installations:.....                                     | 19        |
| Additional Items Required .....                         | 6  | Post Mount and Control Cover Installation .....                    | 20        |
| Recommended Order of Installation.....                  | 7  | Lantern Assembly.....  | 21        |
| Placement Requirements .....                            | 8  | Post or Pier Mounted Lantern (Optional .                           | 22        |
| Do Not Locate the Lantern: .....                        | 8  | Wall Mounted Lantern (Optional) .....                              | 23        |
| Clearances: .....                                       | 8  | Before You Begin .....   | 24        |
| Gas Line Requirements.....                              | 9  | Operating Instructions .....                                       | 24        |
| LP and NG Configuration .....                           | 9  | How your Lantern works.....  | 24        |
| Gas Line Connection .....                               | 9  | Maintaining Your Lantern .....                                     | 25        |
| Electrical Connection Requirements .....                | 10 | Winterizing the Lantern. ....                                      | 25        |
| Wiring Installation .....                               | 10 | Replacement Parts.....   | 26        |
| 24VAC Transformer .....                                 | 10 | Troubleshooting Table.....   | 27        |
| Lantern Wiring Diagram .....                            | 11 | Warranty .....   | <b>Er</b> |
| Single Appliance Installations.....                     | 12 | <b>ror! Bookmark not defined.</b>                                  |           |
| 24v Single Appliance Transformer (sku 94800833) .....   | 12 | Index .....  | 32        |
| Multiple Appliance Installations .....                  | 14 |  |           |
| 24v Multiple Appliance Transformer (sku 94800830) ..... | 14 |  |           |

- ! **This appliance must be installed in accordance with all local codes, if any; if not, follow ANSI Z223.1.**
- ! **This appliance must only be used outdoors in a well-ventilated area. It may not be used in a building, garage, or other enclosed space.**
  - This appliance is not for use with solid fuel.
  - The Lantern must be kept clean and free of leaves and debris to ensure safe operation.
  - Any hose or gas-supply line that is damaged or shows evidence of excessive abrasion or wear must be replaced prior to use of the Lantern.
  - If using a gas supply line to the Lantern, make sure it is properly located away from any walkway or in an area where it may be subject to accidental damage.
  - Educate all children and adults of the dangers of the Lantern. Young children should be supervised when they are in the same area as the Lantern. Do not let children play with the Lantern.
  - Do not place clothing or other flammable items on or near the Lantern.
  - Any screen or guard removed for servicing must be replaced prior to operating the Lantern.
  - This unit must be installed and repaired by a qualified installer to prevent the possibility of an explosion. Your dealer will know the requirements in your area and can inform you of those people considered qualified. The Lantern should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive debris from leaves, dirt, insects, etc.
  - Do not use this appliance if any part has been underwater. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been underwater.
  - The instructions in this manual must be strictly adhered to. Do not use makeshift methods or compromise in the installation. Improper installation will void the warranty and safety listing.
  - This appliance is approved for either natural gas (NG) or propane (LP). Burning the incorrect fuel will void the warranty and safety listing and may cause an extreme safety hazard. Direct questions about the type of fuel used to your dealer. A label is placed on the control panel to show which fuel the Lantern is designed for (in addition, NG units have 25 burner holes, LP units have 49 burner holes).
  - Contact your local building officials to obtain a permit and information on any installation restrictions or inspection requirements in your area.
  - If the flame becomes sooty, dark orange in color, or extremely tall, do not operate the Lantern. Call your dealer and arrange for proper servicing.
  - Do not operate the Lantern if it is not operating properly in any fashion or if you are uncertain. Call your dealer for a full explanation of your Lantern and what to expect.
  - Do not store or use gasoline or other flammable liquids in the vicinity of this Lantern.
  - Never remove, replace, modify or substitute any part of the Lantern unless instructions are given in this manual for routine maintenance and cleaning. A trained technician must do all other work. Do not modify or replace orifices.
  - Allow the Lantern to cool before carrying out any maintenance or cleaning.
  - Operate the Lantern according to the instructions included in this manual.
  - If the burner does not start correctly turn the gas off at the gas control valve and call your dealer for service.
  - Do not use this appliance to cook food.
  - Instruct everyone in the house how to shut the gas off to the Lantern and at the gas main shutoff valve. The gas main shutoff valve is usually next to the gas meter or propane tank and requires a wrench to shut off.
  - Do not operate the Lantern during a lightning storm or a possible lightning storm.
  - Do not operate the Lantern during high wind conditions.
  - Do not install in or on recreational vehicles and/or boats.
  - Do not throw this manual away. This manual has important operating and maintenance instructions that you will need at a later time. Always follow the instructions in this manual.
  - **Travis Industries, Inc. grants no warranty, implied or stated, for the installation or maintenance of your Lantern, and assumes no responsibility for any consequential damage(s).**

## Features:

- Electronic Ignition (switch turns Lantern on or off)
- Maximum 20,000 BTU Input
- Tempered Glass (easy to remove and clean)
- Stainless Steel Construction
- Automatic Gas Shutoff Valve for Safety

## Installation Options:

- For Outdoor Installation Only
- For Fixed Line Installations Only
- Wall Mount
- Post Mount
- Pillar Mount

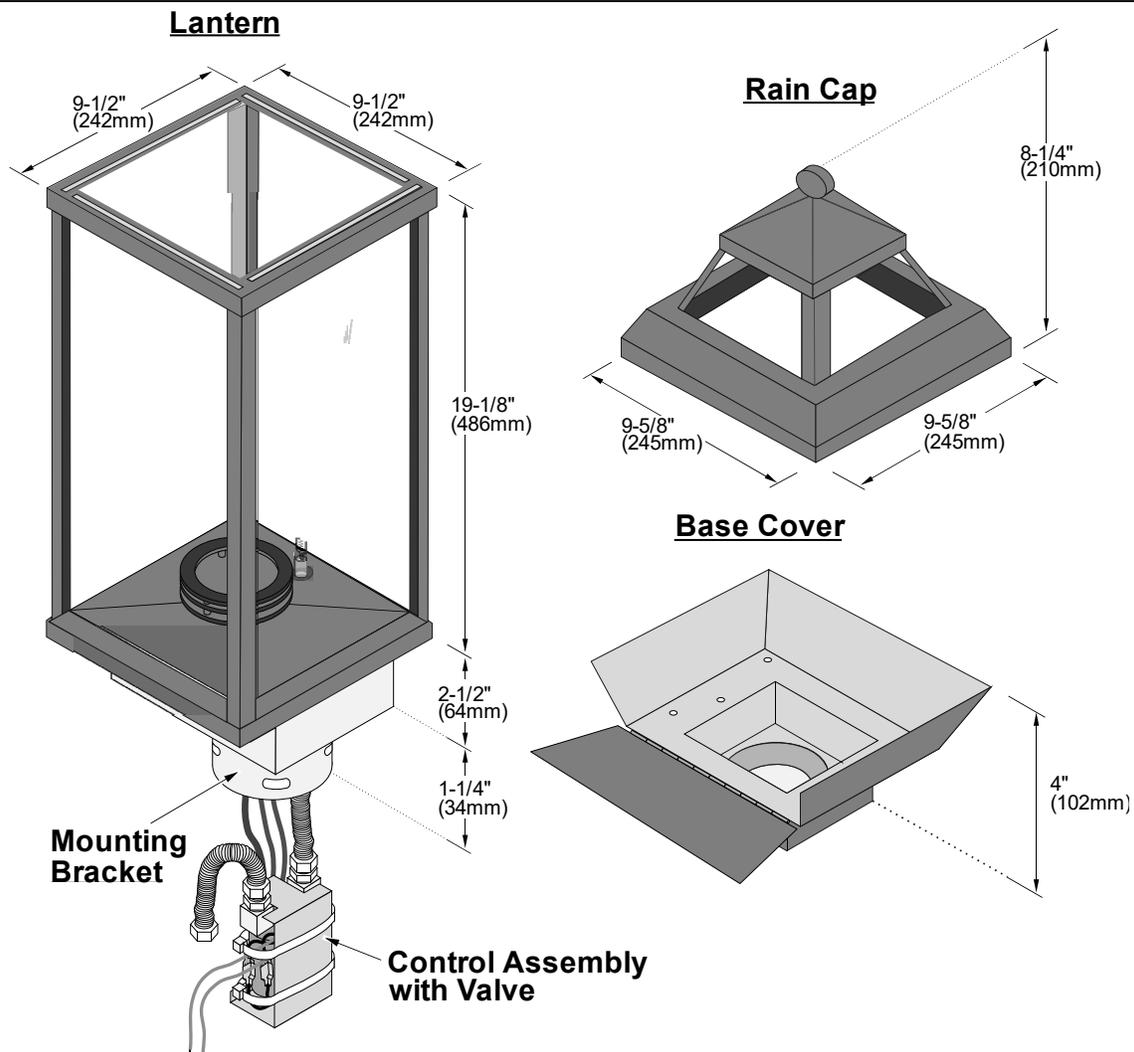
## Gas Specifications:

|                      | NG       | LP       |
|----------------------|----------|----------|
| Input Rating (BTU/h) | 20,000   | 20,000   |
| Orifice Size (DMS)   | #50      | #55      |
| Burner Ports         | 25 Holes | 49 Holes |
| Manifold Pressure    | 7" wc    | 11" wc   |
| Max. Inlet Pressure  | 7" wc    | 11" wc   |

## Electrical Specifications:

24 Volts AC, 1.6 amps (on startup), 40 watts (on startup)

## Dimensions:



**NOTE:** Side clearances are measured from the glass – Top clearances are measured from the glass frame.

## ***Installation Warnings:***

---

- ! This appliance is designed for outdoor use only, in well-ventilated areas.
- ! Failure to follow all of the requirements may result in property damage, bodily injury, or even death.
- ! This Lantern must be installed by a qualified installer.
- ! This appliance is designed to operate on natural gas, or propane (LP).
- ! This appliance requires a switched, 110v AC, GFCI (ground-fault circuit interrupter) protected power supply. This circuit provides power to the 24v AC transformer (not supplied).
- ! Notify your insurance company before hooking up this appliance. All relevant information on the Tempest Lantern is located on page 2, *Important Information*. You provide them page 2.
- ! The requirements listed below are divided into sections. All requirements must be met simultaneously. The order of installation is not rigid – the qualified installer should follow the procedure best suited for the installation.

## ***Packing List***

---

- Main Assembly
- Burner Top
- Rain Cap
- Control Cover (pre-installed)
- Glass (4 Pieces)

## ***Additional Items Required***

---

This Lantern Requires One of the Following Base Assemblies:

- Wall Mount Kit
- Post Mounting Kit
- Pillar Mounting Kit

This Torch Requires a 24Volt AC transformer. Travis Industries provides the following transformer options:

- Travis Industries 24V AC Single Appliance Transformer (94800833).
- Travis Industries 24V AC Multiple Appliance Transformer (94800830).

## ***Recommended Order of Installation***

---

1. Determine the location of Lantern. Make sure all clearances are met, (see page 8).
2. With the Lantern head location identified, prepare and mount the Lantern head support (pillar, post, or wall mount). This order of installation may need to be modified due to individual installation conditions. NOTE: sections 4, 5, 6, and 7 of this page detail gas and electrical connections to the Lantern head.
3. GAS SUPPLY: The Lantern requires 20,000 BTU input (natural gas or LP). A shut off valve and 12 inches of flex line are provided to assist connection from the supply line to the Lantern head. The shutoff valve accepts ½" MPT (male pipe thread). Before turning gas on to the Lantern, leak-test all gas line connections.
4. ELECTRICAL SUPPLY: The power supply must be routed through a switch to turn the Lantern on and off (see page 10). Each Lantern uses 24VAC at approximately 1.6 amps. Each Travis Industries SKU-94800830 transformer can run up to 6 torches. Up to 24 torches can be operated on a single 15amp 120VAC home circuit. Make sure the circuit and wiring is appropriately sized (see diagram on pg 12.). If multiple Lanterns are powered through a single transformer, the control modules for each of the individual Lanterns may be daisy-chained together (make sure polarity is correct, see pg. **Error! Bookmark not defined.**). Make sure to leave slack in the electrical line so the head can be removed for service.
5. For outside post and pillar installations route a ½" stainless steel flexible gas line from the shut off valve to the Lantern head (you will have to provide this gas line). For wall mount applications; if using flex line to pass through the wall of a building the flex line must be enclosed in conduit for protection, or local code may require you to hard pipe the connection from the control module to the Lantern head.
6. Attach the Lantern head to the mount. Attach the gas line. Attach the 24vac electrical supply. Leave the control covers loose to allow for leak testing access. Install the Lantern assembly (see page 21).
7. Bleed the gas line and start the Lantern by switching on the electrical power to the control module. Leak test the gas lines. Verify the Lantern works correctly and there are no gas leaks. Attach the control covers.
8. Give the manual to the homeowner and explain the operation of the Lantern.

## Placement Requirements

---

**! For Outdoor Use Only. Install in well-ventilated areas.**

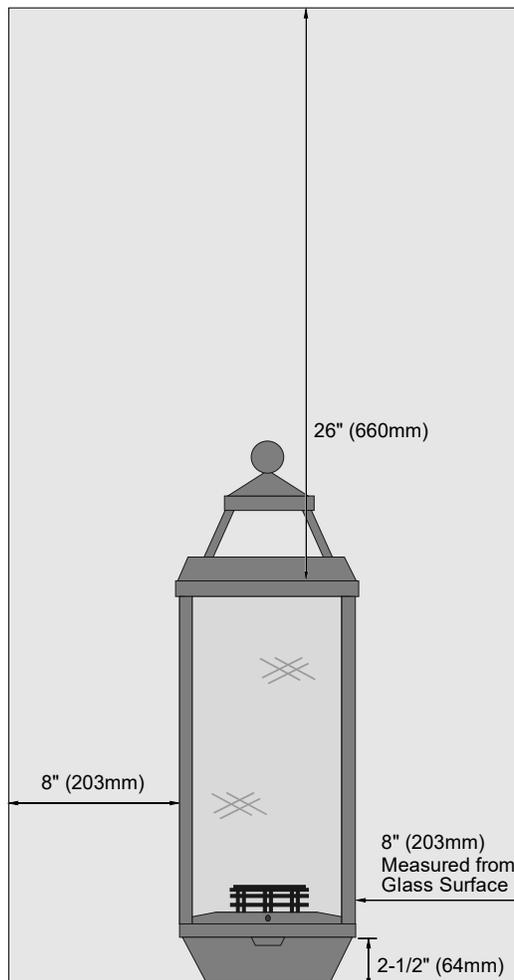
### Do Not Locate the Lantern:

- In high traffic areas.
- Under or near trees, plants, and buildings where debris may constantly fall into the Lantern. Excessive debris will require high maintenance and/or cause malfunctioning of the Lantern.
- In places where people, children, and pets may contact the Lantern. Guards or fences around the Lantern in these locations are recommended.
- In places where the controls beneath the Lantern may be submerged underwater. Submerging of any part of its controls may require the complete replacement of the controls.

### Clearances:

---

- The distance from ground level to the top of the Lantern shall be a minimum of 7 ft. (2.1M) where installed within 2 feet (0.6M) of public walkways (e.g.: sidewalk, shared walkway between two homes, or pathway in commercial applications). Lesser clearances shall be permitted to be used only where acceptable to the authority having jurisdiction.
- Keep combustibles away from the shaded heat zone of the Lantern (see illustration below).



## Gas Line Requirements

### MASSACHUSETTS INSTALLATIONS - WARNING:

THIS PRODUCT MUST BE INSTALLED BY A LICENSED PLUMBER OR GAS FITTER WHEN INSTALLED WITHIN THE COMMONWEALTH OF MASSACHUSETTS.

OTHER MASSACHUSETTS CODE REQUIREMENTS:

- Flexible connector must not be longer than 36 inches.
- Shutoff valve must be a "T" handle gas cock.
- Only direct vent sealed combustion products are approved for bedrooms or bathrooms.
- Fireplace dampers must be removed or welded in the open position prior to the installation of a fireplace insert or gas log.
- A carbon monoxide (CO) detector is required in the same room as the appliance.

! The gas line must be installed in accordance with all local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, International Fuel Gas Code, Natural Gas and Propane Installation Code, CSA B149.1, or Propane Storage and Handling Code, B149.2, as applicable. Consult your local gas supplier or propane gas dealer for code regulations and recommended procedures.

! The Lantern and gas control module must be disconnected from the gas supply piping during any pressure testing of that system at test pressures in excess of 1/2 psig. For pressures less than 1/2 psig, isolate the gas supply piping by closing the manual shut-off valve.

! Leak test all gas line joints and the gas control valve prior to and after starting the Lantern.

### LP and NG Configuration

This Lantern is shipped either for natural gas or propane. **The Lantern is not convertible from one fuel to another.** Check the sticker on the control panel to make sure the correct fuel is used. The Lantern has unique orifices and burners for each fuel. See the table below for details.

|                      | NG       | LP       |
|----------------------|----------|----------|
| Input Rating (BTU/h) | 20,000   | 20,000   |
| Orifice Size (DMS)   | #50      | #55      |
| Burner Ports         | 25 Holes | 49 Holes |
| Manifold Pressure    | 7" wc    | 11" wc   |
| Max. Inlet Pressure  | 7" wc    | 11" wc   |

### Gas Line Connection

A manual shutoff valve is required on the gas supply to the Lantern. It should be placed upstream of the control module. A shut-off valve is included with the Lantern.

**Electrical Connection Requirements**

- ! The appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes with the National Electrical Code, ANSI/NFPA 70; or the Canadian Electrical Code, CSA C22.1
- ! The electrical line must be installed by a qualified installer and must meet all local codes. Consult your local building official for code regulations and recommended procedures.
- ! The 24VAC transformer may require a circuit protected by a GFCI (see local building codes).

**Wiring Installation**

- We recommend outdoor-suitable connectors (silicone-filled wire connectors, dielectric grease, etc.) on the power-in connections to the control module to prevent corrosion.
- Route the wires from the 24VAC transformer to the Lantern using listed wiring. The wiring is routed through the post or wall mount. Make sure to provide slack in the electrical line for removal and service.
- Each Lantern uses approximately 40 watts during startup (1.6 amps at 24VAC). Make sure the circuit and wire are sized appropriately. The Lantern requires a minimum of 21VAC to operate (if the voltage drops below this, the Lantern may not start).
- Up to 24 torches can be operated on a single 15amp 120VAC home circuit. Make sure the circuit and wiring is appropriately sized (see diagram on pg. 12.). If multiple Lanterns are powered through a single transformer, the control modules for each of the individual Lanterns may be daisy-chained together (make sure polarity is correct, see pg. 16). Make sure to leave slack in the electrical line so the head can be removed for service.

**24VAC Transformer**

- This Lantern must be used with a 24VAC switched circuit. The transformer is sold separately.
- Travis Industries offers the following two transformers:
  - 94800833 Powers 1 Lantern (120v input only). See the instruction sheet included with the transformer for details.
  - 94800830 Powers 1 to 6 Lanterns (120v input only with 26v and 28v output leads). See the instruction sheet included with the transformer for details.

**Important Information**

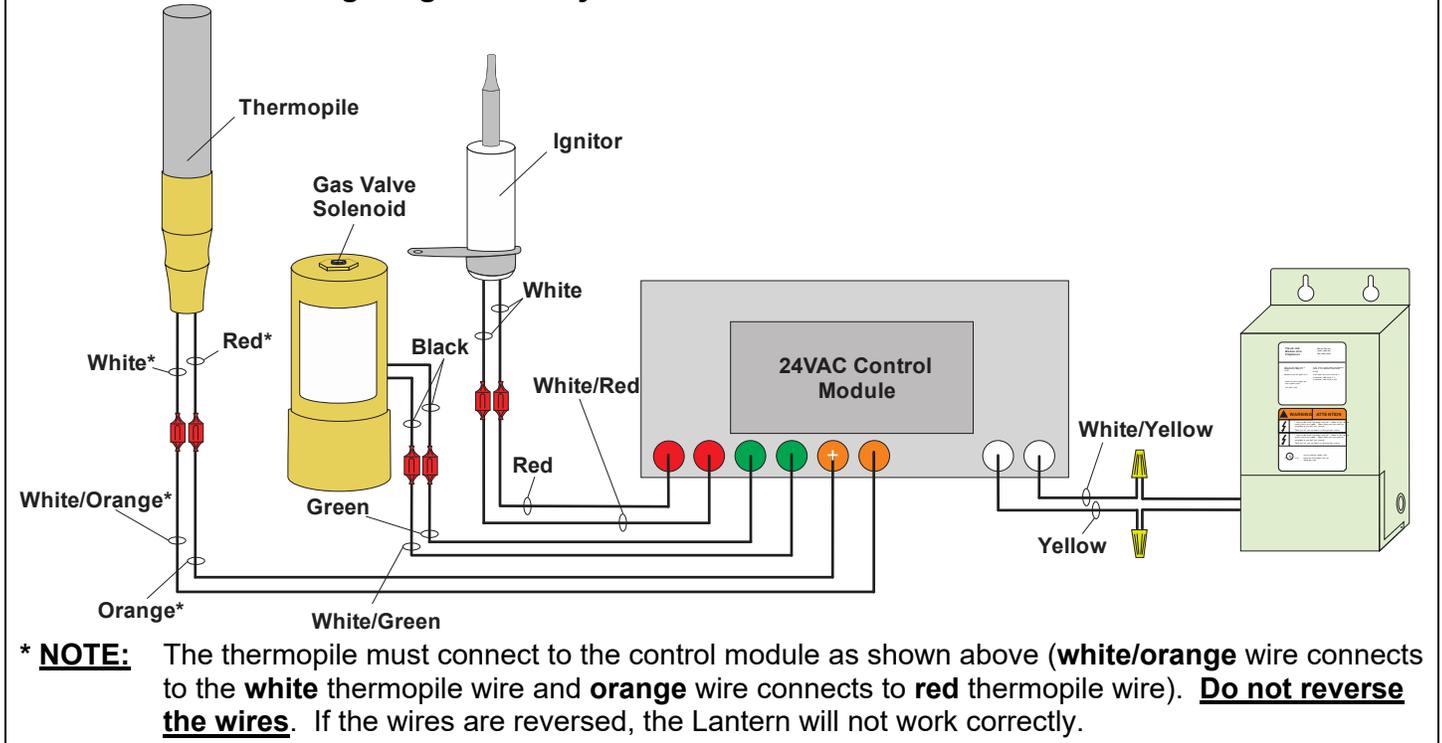
Some jurisdictions and commercial applications require an emergency shutoff for the appliance. If a shutoff is required, we recommend the shutoff shown to the left (or equivalent).

SCHNEIDER ELECTRIC Push Button Control Station  
Mfr. Model: XALD164H29H7  
Contact Rating: 10A @ 600V AC

Refer to the switch manufacturer's instructions, the National Electric Code, and the local authority having jurisdiction for proper installation or any additional requirements.

## Lantern Wiring Diagram

Control Module Wiring Diagram – July 2019 or Later



## Single Appliance Installations

When installing a single appliance, we recommend using the Single Appliance Transformer (sku 94800833). This transformer can only power a single appliance. If powering multiple appliances with a single transformer use the higher capacity transformer (sku 94800830).

### 24v Single Appliance Transformer (sku 94800833)



**Hazardous Voltage can shock, burn, or cause death. Disconnect all input power before installing or maintaining this equipment.**

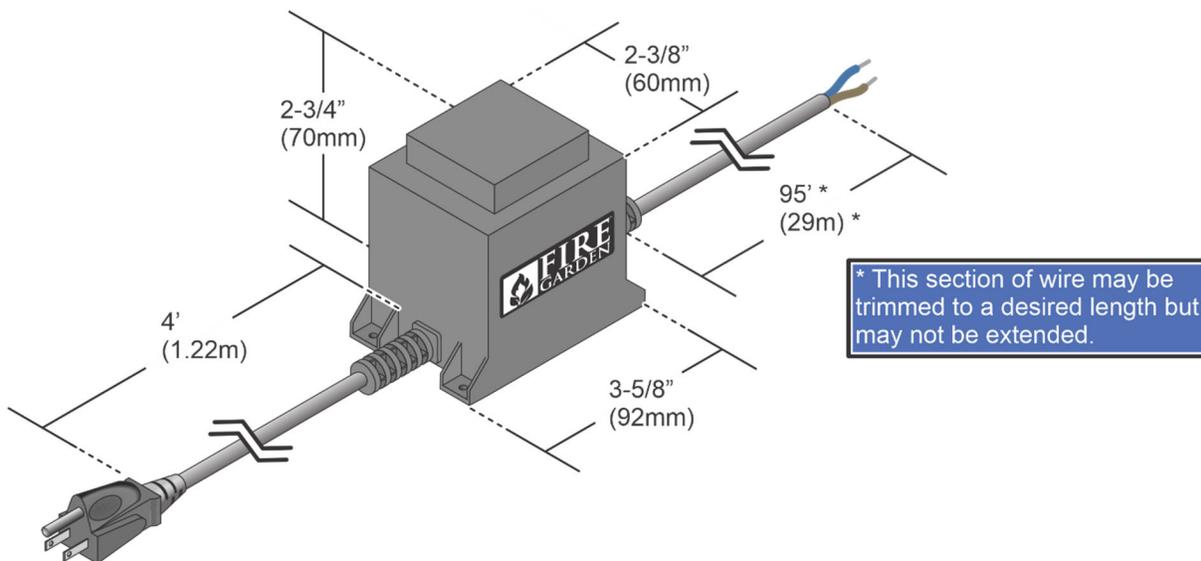
## Compatibility

This transformer is designed for the Fire Garden 24v single control module appliances. It is not designed for 2017 (or earlier) Tempest 120v torches.

This transformer is rated for 120VAC, 60Hz, 50W input, and 24VAC output. The transformer will power (1) appliance. See the section "Wire Length Chart" for additional details.

**NOTE:** The wire after the transformer box is allowed for direct bury installation. Check with the local authority having jurisdiction before installing in this manner.

## Dimensions



## Warnings



**NOTE:** Disconnect power at the service breaker prior to installing the transformer. After installation, restore power to the transformer and test both the incoming and outgoing circuits.



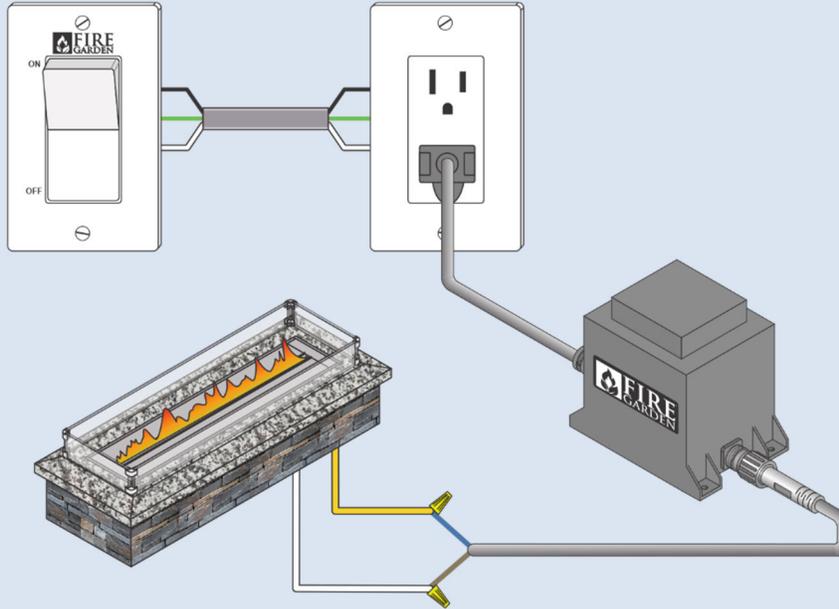
Installation should only be performed by a qualified electrician or installer (consult local codes). Use suitable connectors when wiring the transformer (silicone-filled wire nuts).

## Mounting Requirements

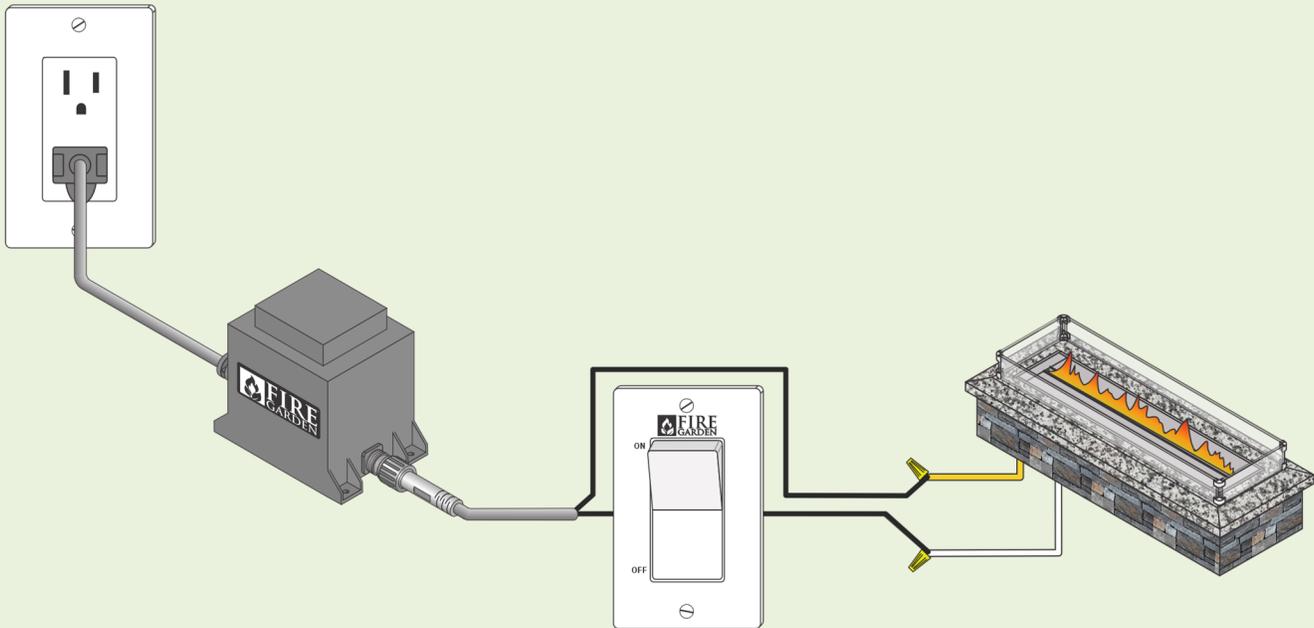
- This transformer is intended to be plugged into a standard household GFCI-protected outlet.
- The transformer is wet-rated and can be exposed outdoors.
- If this transformer will be used on an outdoor outlet, the outlet must have a weatherproof receptacle cover.

## Wiring Diagrams

- The transformer is plugged into a GFCI-protected, switched outlet. The two-conductor low voltage wire is connected to the yellow and white wires from the control module. Polarity does not matter for any of these connections.



- The transformer is plugged into a GFCI-protected, non-switched outlet. One low-voltage conductor is interrupted by a switch. The low-voltage conductors are then attached to the yellow and white wires from the control module. Polarity does not matter for any of these connections.



## Multiple Appliance Installations

When installing more than one 24v appliance, use the large 24v Appliance Transformer (sku 94800830). This transformer is capable of powering up to (6) 24v Fire Garden outdoor appliances.

### 24v Multiple Appliance Transformer (sku 94800830)



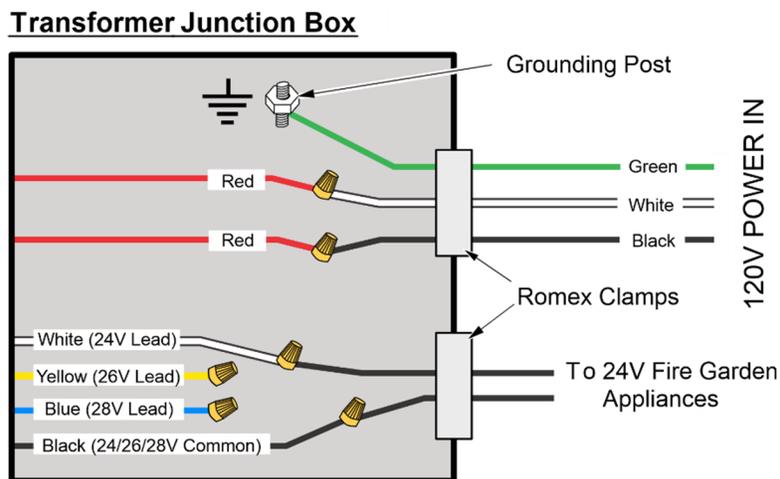
**Hazardous Voltage can shock, burn, or cause death. Disconnect all input power before installing or maintaining this equipment.**

### Compatibility

This transformer is designed for the Fire Garden 24v appliances. It is not designed for 2017 (or earlier) Tempest 120v torches.

This transformer is rated at 300 VA. The transformer will power up to (6) appliances. See the section "Wire Length, Wire Gauge, and Voltage Settings" for additional details.

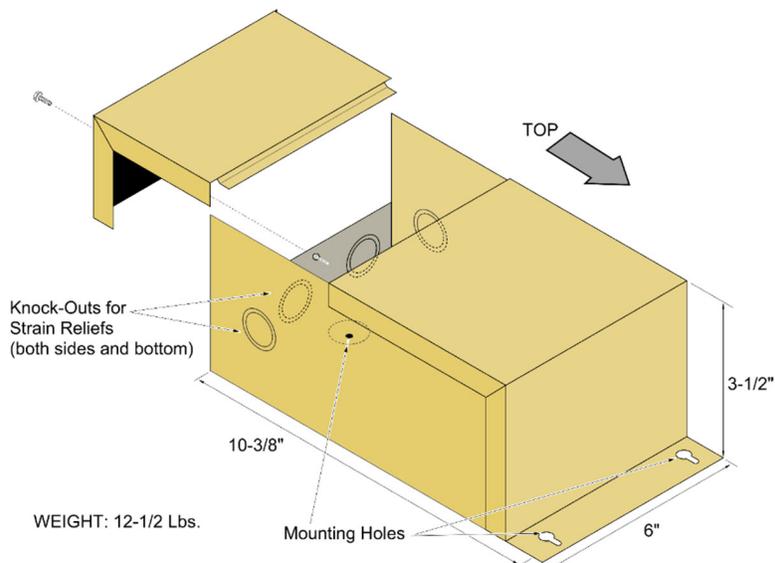
### Wiring Diagram 120V



**NOTE:** In this example the 24V Lead is used.

**WARNING:** Make sure to put wirenuts on un-used power leads (in this example the 26V and 28V Leads)

### Dimensions



## **Mounting Requirements**

- Transformer weighs approximately 12-1/2 lbs. Make sure the mounting location provides sufficient support.
- The transformer is rated for damp locations.
- Do not place the transformer where it will become submerged.
- We suggest placing the transformer out of direct contact with the elements (rain, snow, sun, etc.) to extend longevity.
- Consult your local building department for requirements in your area pertaining to the mounting and installation of this transformer.

## **Voltage Settings, Number of Appliances, and Wire Configuration**

**Voltage Setting:** This transformer has three different voltage leads: 24v; 26v; and 28v. Refer to the wire length charts (either direct-run or daisy-chain) to determine which voltage lead you should use.

### **Why Does the Transformer Have Multiple Voltage Leads?**

The wires from the transformer to the 24 appliances create additional resistance. The longer the wire length, the more resistance is created. The smaller the wire diameter (larger-number gauge), the more resistance is created. If your installation creates additional resistance, you will need to use a higher voltage lead to overcome the voltage drop the resistance creates. The Fire Garden appliances must receive a minimum of 21v.

**Number of Appliances:** This transformer is rated 300 VA and may be used on (1) to (6) - 24v appliances. The higher the number of appliances, the higher the amp load. The higher the amp load, the higher the voltage drop. You must know the number of appliances on the transformer before wiring.

**Wire Configuration - Direct-Run vs Daisy-Chain Installations:** How you wire the appliances to the transformer affects the maximum length of wire and wire gauge. Make sure to determine the wire configuration before installation. NOTE: You may use both direct-run and daisy-chain configurations just make sure the number of appliances is (6) or less per transformer.

## **Wire Configuration - Direct-Run vs Daisy-Chain Installations**

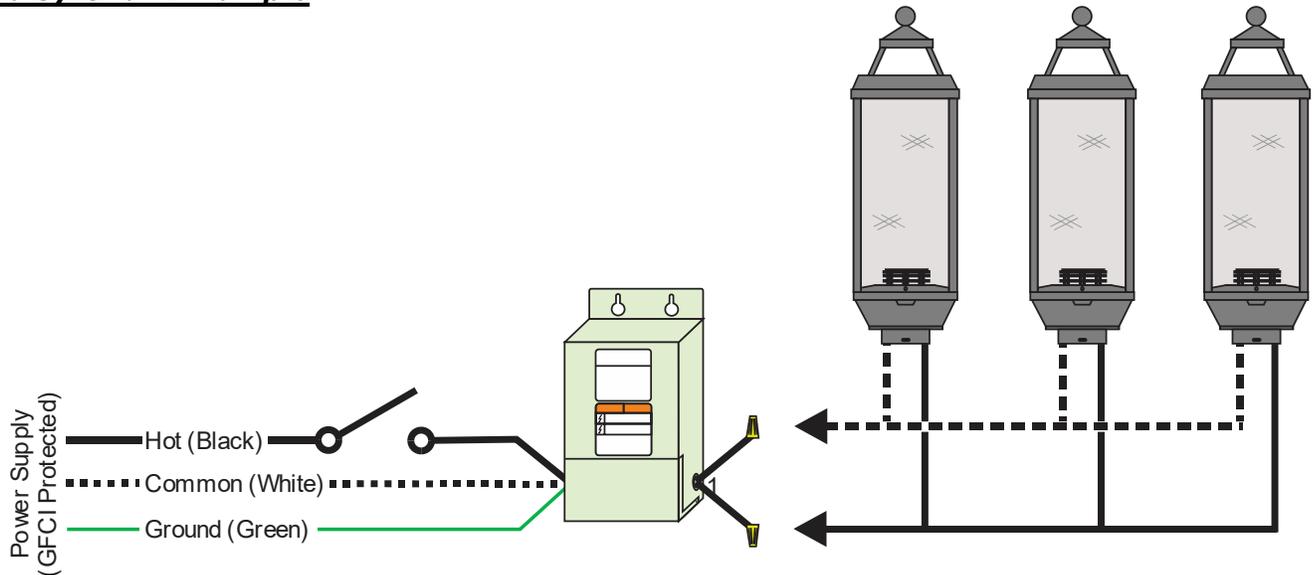
The manner in which you wire the torches to the transformer affects the maximum length of wire and wire gauge. Make sure to determine the wire configuration before installation. NOTE: You may use both direct-run and daisy-chain configurations, just make sure the maximum number of torches is not exceeded.



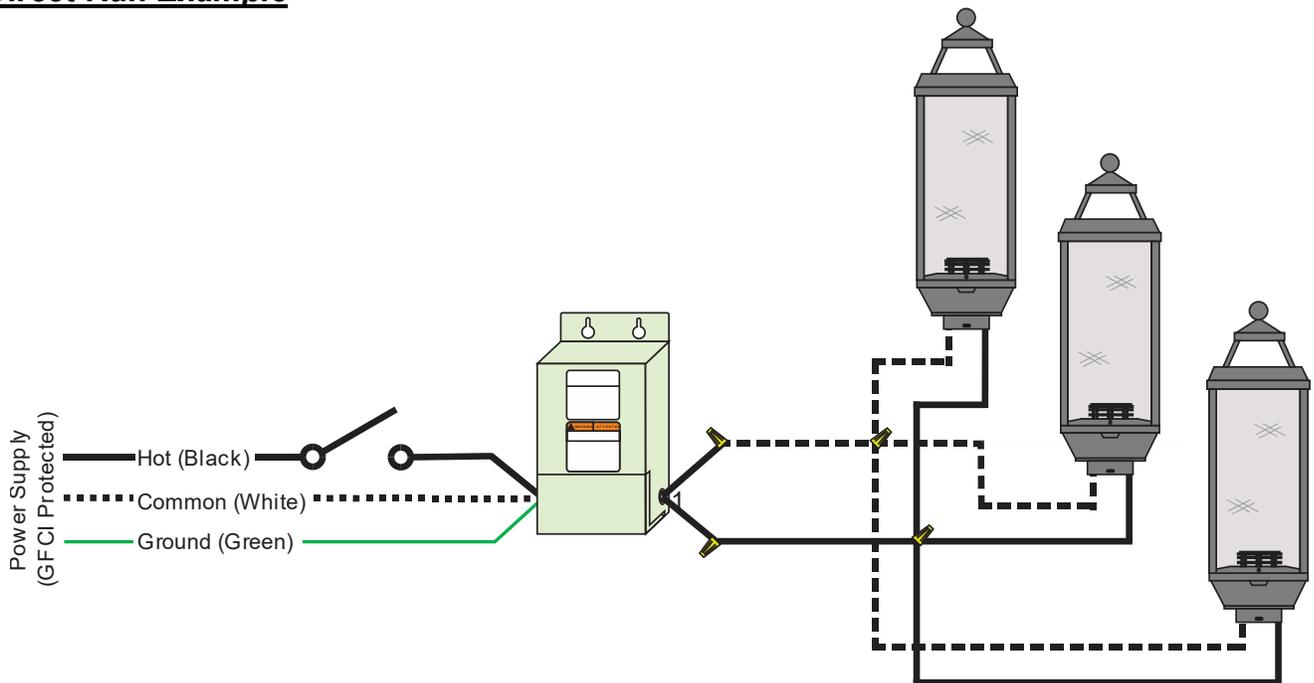
## Wiring Multiple Lanterns to One Transformer

The manner in which you wire the Lanterns to the transformer affects the maximum length of wire and wire gauge. Make sure to determine the wire configuration before installation. NOTE: You may use both direct-run and daisy-chain configurations.

### Daisy-Chain Example



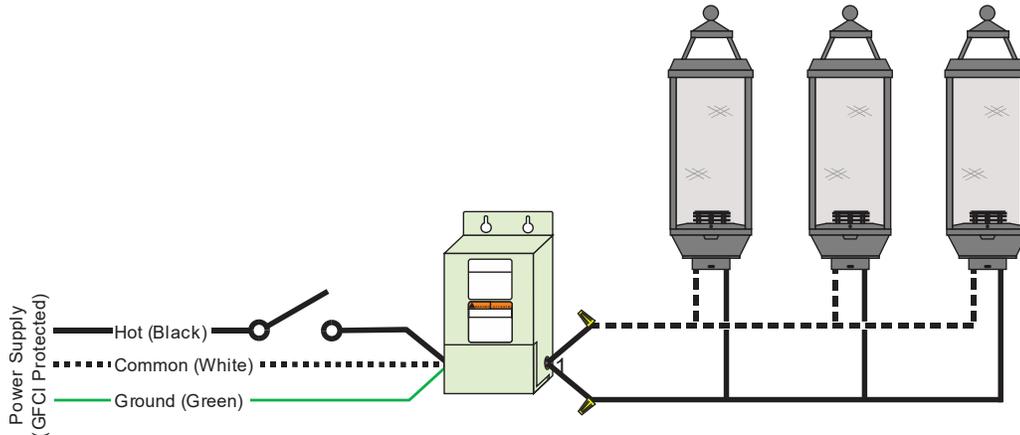
### Direct-Run Example



## Daisy-Chain Wire Length Chart

This type of wire configuration allows for Lanterns to be wired in a series, reducing the amount of wire used. Use the charts below to determine the correct wire gauge and length. In the example below, the transformer has 3 Lanterns on one branch.

**How to Calculate Wire Length:** Add together all of the wire length(s) used for the entire installation. If you have one 80' length and three 20' lengths, your wire length would be 140'.



### 24 Volt Lead

| Wire |     | # Of Lanterns On Branch |          |          |          |          |
|------|-----|-------------------------|----------|----------|----------|----------|
|      |     | <u>2</u>                | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> |
| 14 G | min | 0'                      | 0'       | 0'       | 0'       | 0'       |
|      | max | 113'                    | 71'      | 49'      | 37'      | 28'      |
| 12 G | min | 0'                      | 0'       | 0'       | 0'       | 0'       |
|      | max | 173'                    | 108'     | 75'      | 55'      | 43'      |
| 10 G | min | 0'                      | 0'       | 0'       | 0'       | 0'       |
|      | max | 266'                    | 165'     | 115'     | 85'      | 65'      |

### 26 Volt Lead\*

| Wire |     | # Of Lanterns On Branch |          |          |          |          |
|------|-----|-------------------------|----------|----------|----------|----------|
|      |     | <u>2</u>                | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> |
| 14 G | min | 27'                     | 10'      | 1'       | 0'       | 0'       |
|      | max | 184'                    | 118'     | 85'      | 65'      | 51'      |
| 12 G | min | 41'                     | 16'      | 2'       | 0'       | 0'       |
|      | max | 281'                    | 179'     | 129'     | 99'      | 79'      |
| 10 G | min | 63'                     | 23'      | 3'       | 0'       | 0'       |
|      | max | 432'                    | 276'     | 198'     | 151'     | 121'     |

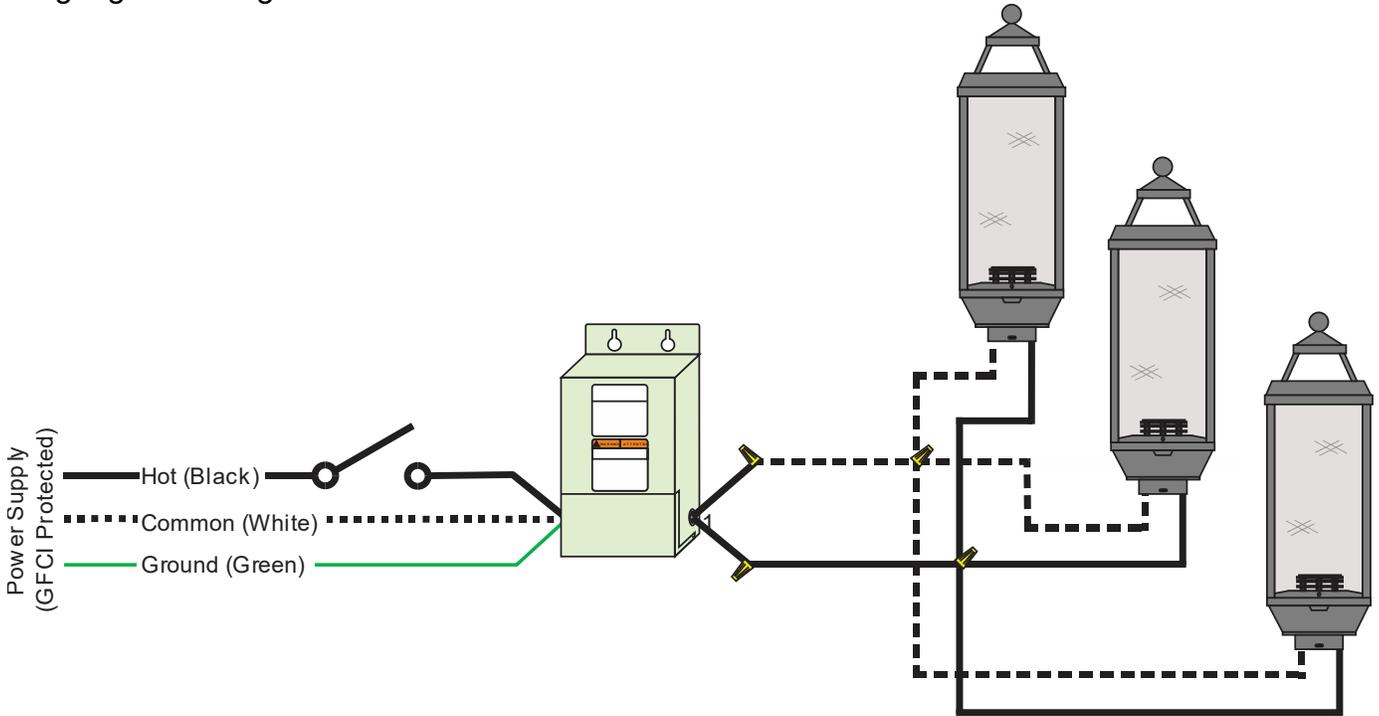
### 28 Volt Lead\*

| Wire |     | # Of Lanterns On Branch |          |          |          |          |
|------|-----|-------------------------|----------|----------|----------|----------|
|      |     | <u>2</u>                | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> |
| 14 G | min | 104'                    | 62'      | 40'      | 27'      | 19'      |
|      | max | 242'                    | 157'     | 113'     | 88'      | 71'      |
| 12 G | min | 160'                    | 94'      | 61'      | 41'      | 28'      |
|      | max | 369'                    | 238'     | 173'     | 134'     | 108'     |
| 10 G | min | 245'                    | 144'     | 93'      | 63'      | 43'      |
|      | max | 566'                    | 366'     | 266'     | 206'     | 165'     |

\* Not available on some transformers.

## Direct-Run Wire Length Chart

This type of wire configuration allows for long distances between the transformer and Lantern (see illustration below). Use the charts below to determine the correct wire gauge and length.



### 24 Volt Lead

| Wire |     |      |
|------|-----|------|
| 14 G | min | 0'   |
|      | max | 242' |
| 12 G | min | 0'   |
|      | max | 369' |
| 10 G | min | 0'   |
|      | max | 566' |

### 26 Volt Lead\*

| Wire |     |      |
|------|-----|------|
| 14 G | min | 79'  |
|      | max | 384' |
| 12 G | min | 120' |
|      | max | 584' |
| 10 G | min | 184' |
|      | max | 897' |

### 28 Volt Lead\*

| Wire |     |       |
|------|-----|-------|
| 14 G | min | 234'  |
|      | max | 499'  |
| 12 G | min | 356'  |
|      | max | 760'  |
| 10 G | min | 548'  |
|      | max | 1168' |

\* Not available on some transformers.

## Wiring Examples:

### Daisy-Chain Installations:

- When using 3 Lanterns on one branch, 14 G wire, and 150' of wire, use the 28V Lead.
- When using 4 Lanterns on one branch, 10 G wire, and 100' of wire, use the 24V Lead.

### Direct Run Installations:

- When using a Lantern on a 200' run, 14 G wire, use the 24V Lead.
- When using 6 Lanterns, each on a 200' run, 14 G wire, use the 24V Lead.

**How to Determine Wire Gauge:** When purchasing your wire, it should include wire gauge (the larger the number, the smaller the diameter wire). The wire will also be printed with a gauge number (e.g. AWG#14 = 14 gauge, 10AWG = 10 gauge, etc.). Do not use wires of dissimilar gauges (do not use 14 gauge & 10 gauge wire on the same transformer).

## Post Mount and Control Cover Installation

A post mount is pre-attached to the Lantern for use with the optional post (3" round lamp post) or pillar mount. If using the wall mount, use the control cover included with the wall mount kit.

- (a) If using a post mount, slide the control cover over the post.

**HINT:** Use low-tack tape to protect the post from scratches.

**NOTE:** When installing the post, make sure the post is positioned with the mounting holes 45° offset from the front. The post mount has obround holes that allow 20° of rotation (10° in each direction).

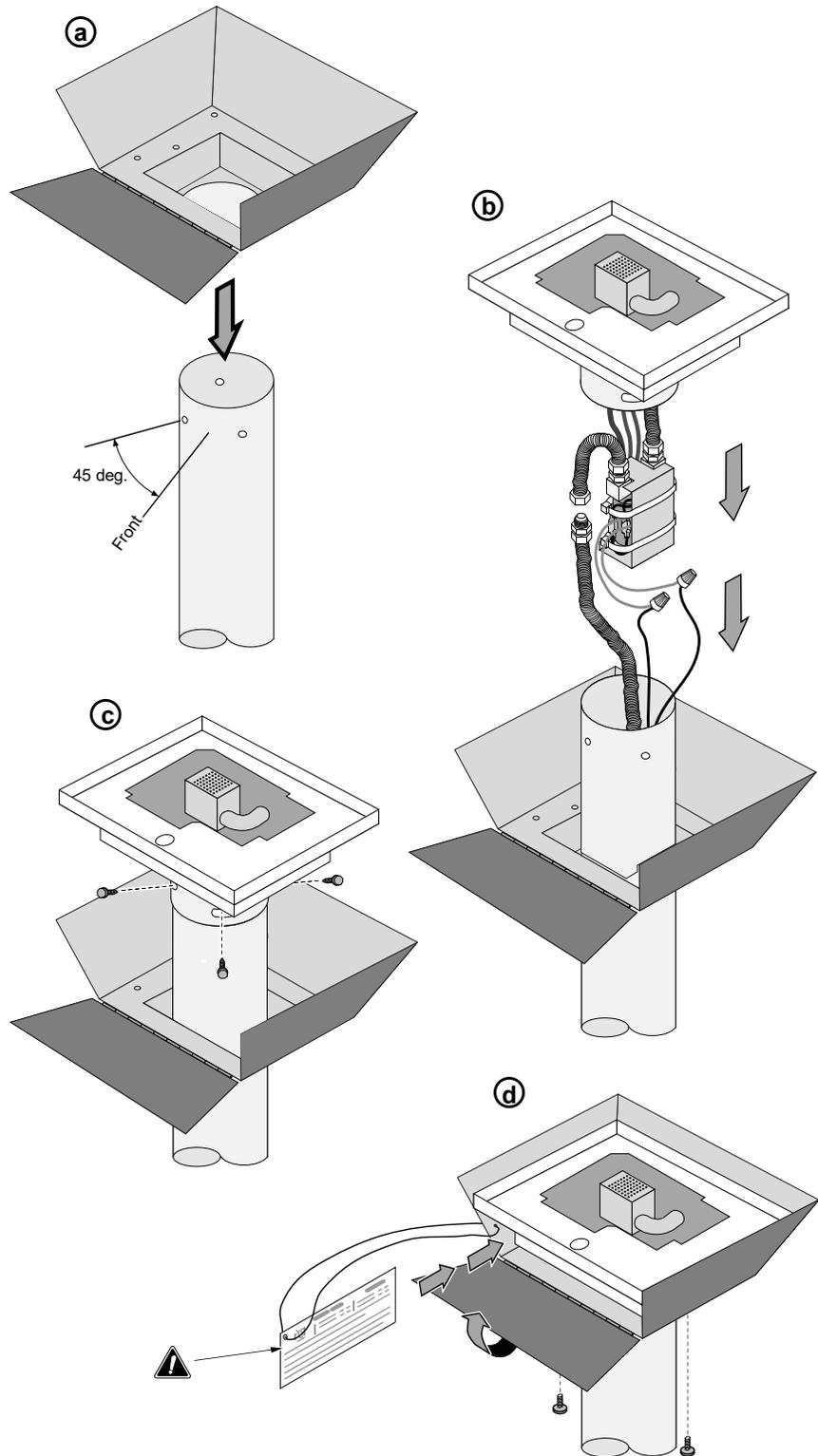
- (b) Attach the gas and electrical lines.

**WARNING:** Take care when handling the Lantern assembly to not damage the gas or electrical line.

- (c) Attach the Lantern to the post using the included 1/4-20 screws.

- (d) Attach the control cover to the Lantern with the two thumbscrews.

**! The safety label slides into place between the control cover and the Lantern body.**



## Lantern Assembly

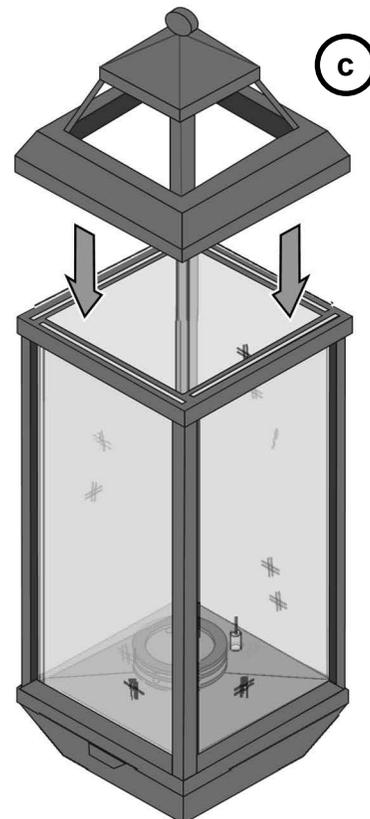
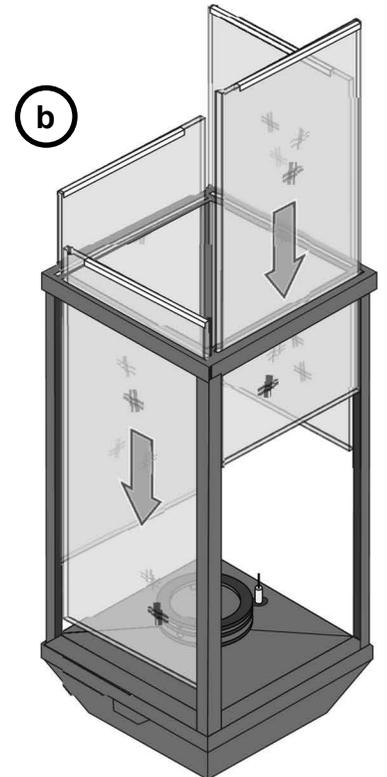
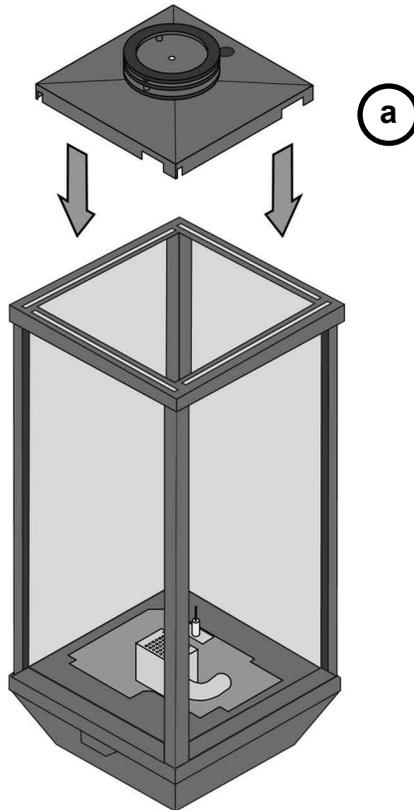
- (a) Place the burner top over the main assembly. Make sure the burner top is fully seated.

! Make sure the igniter element lines up with the hole on the burner top.

- (b) Slide the glass panels into place by aligning each panel with one of the slots in the top plate of the Lantern. Support the glass panels as you lower them into place to avoid damaging them.

**HINT:** Make sure the glass is clean before installing and handle with soft gloves or other non-marking material (e.g. paper towel).

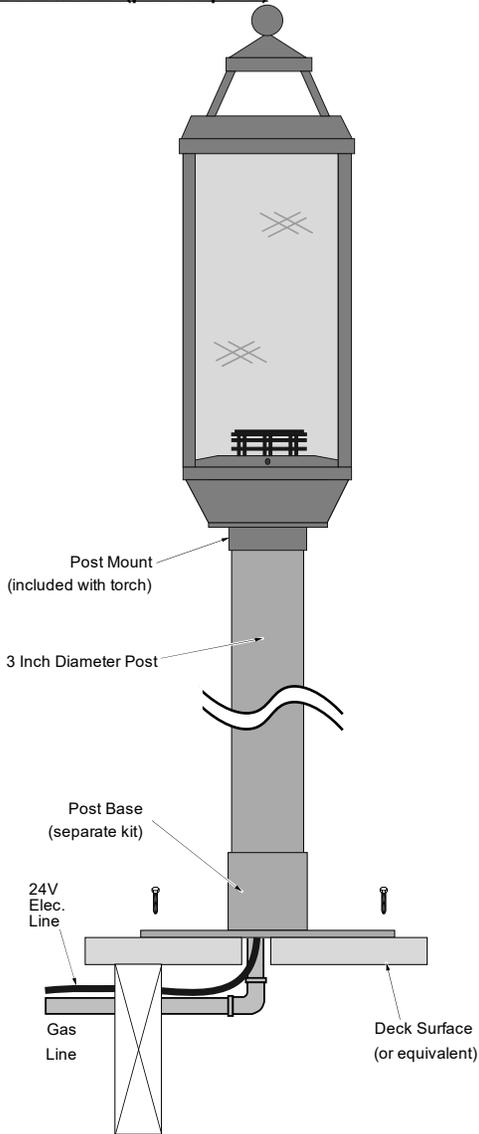
- (c) Place the rain cap on the top of the Lantern glass assembly. The cap will friction fit to assembly.



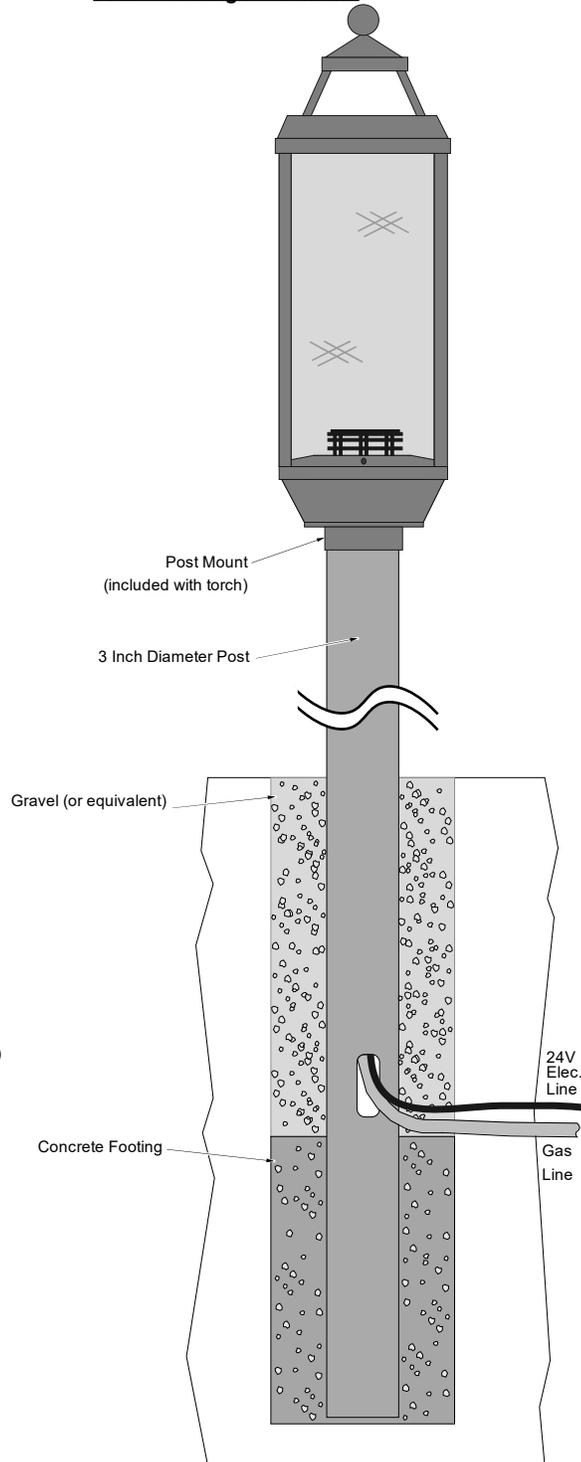
## ***Post or Pier Mounted Lantern (Optional)***

The Tempest Lantern may be mounted to a 3" diameter post using the included post mount. This post may be surface mounted on a deck or similar platform with the optional post base kit. If the post is placed in a remote location, it may be sunk into the ground using concrete or other suitable means. See the post or post base kit for assembly and installation instructions.

### **Deck Mount (post or pillar)**

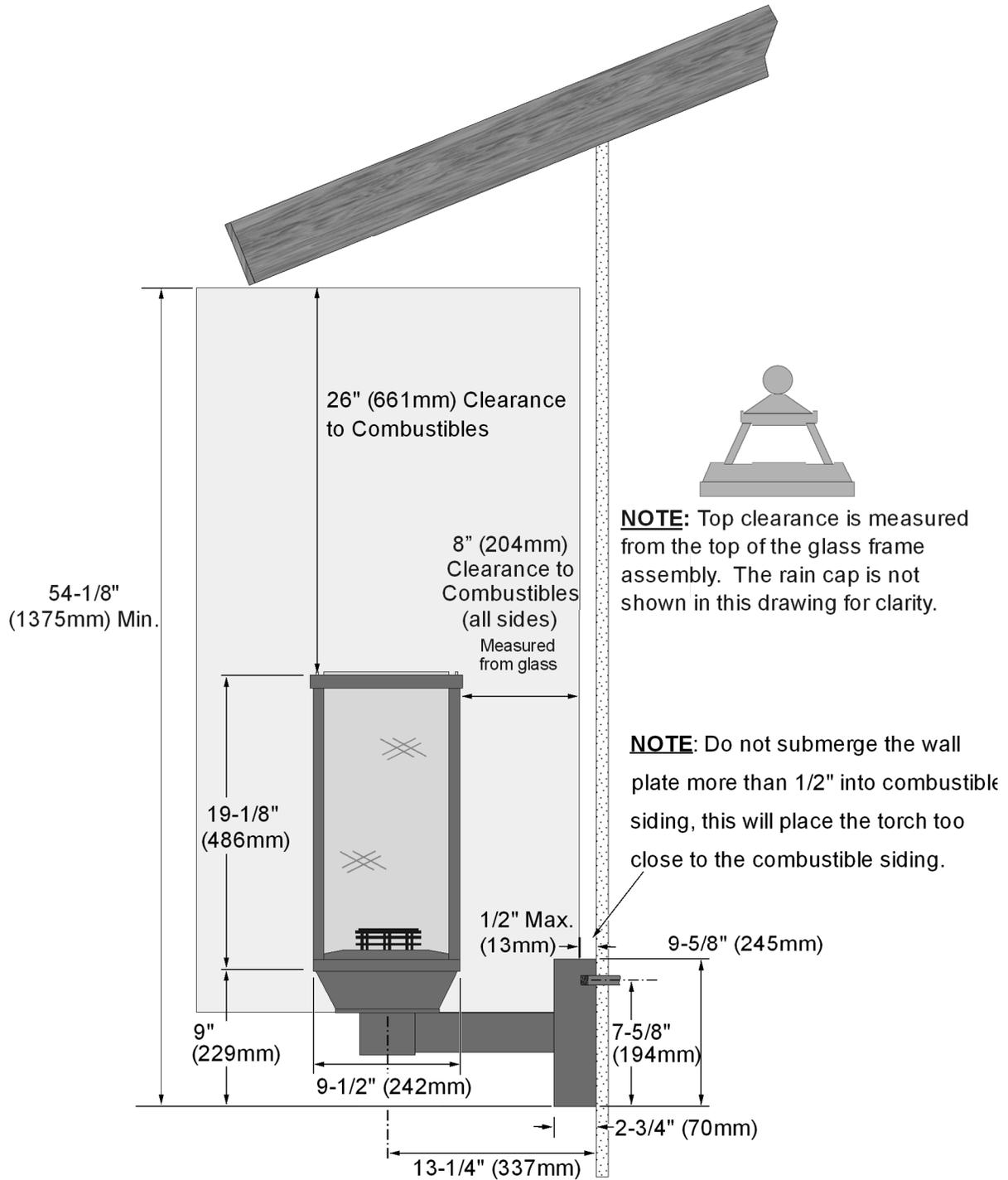


### **Free-Standing Post Mount**



## Wall Mounted Lantern (Optional)

The Tempest Lantern may be mounted to an external wall using the optional wall mount kit. Make sure that all clearances are maintained in your application. See the wall mount kit for assembly and installation instructions.



## ***Before You Begin***

---

- ! Read this entire manual before you use your new Lantern, especially the section "Safety Precautions" on page 4. Failure to follow the instructions may result in property damage, bodily injury, or even death.
- ! Remove any cover from the Lantern prior to operation (the optional stainless-steel rain cap may be left in place).
- ! Inspect the Lantern to make sure it is free of debris or objects that may have fallen into the Lantern prior to operation.
- ! Inspect the Lantern, burner, and supply lines for any damage prior to operation. The burner must be replaced prior to the appliance being put into operation if it is evident that the burner is damaged. Use only Travis Industries replacement burners.
- ! It may be difficult to see the burner operating in direct sunlight.

## ***Operating Instructions***

---

**WARNING:** This gas Lantern is automated, it runs off of an electric ignition system and may not be lit with a lighter or matches.

### ***How your Lantern works***

#### **Ignition**

When you switch the Lantern on, electrical power is supplied to the control module, starting the ignition sequence. During ignition, the igniter will glow red (the ignitor is visible behind the burner rings on the Lantern). Gas is then turned on to the Lantern. The Lantern will ignite and the flame sensor will signal the control module that the Lantern is lit and the igniter will then turn off.

NOTE: In rare cases, the Lantern will fail to light. In these cases the Lantern will wait 30 seconds, then re-start the 35-second ignition sequence. The control module will try to re-start the Lantern a total of 3 times. If it fails to light after three tries, the Lantern will then shut off. To re-start, turn the switch off, wait 3 seconds, then turn the switch on.

#### **Lantern in Operation**

The Lantern, once lit, will stay lit until power to the Lantern is turned off. If gas flow is interrupted, or if wind blows-out the flame, the Lantern will start the ignition sequence. If you cycle power to a Hot Lantern (turn off and back on) it may take up to 1 minute for the Lantern to start the ignition sequence.

#### **Multiple Lanterns**

Each Lantern operates independently. If you install multiple Lanterns on one power switch and need to turn one of the Lanterns off, shut the gas off to the specific Lantern. Shutting one Lantern off will not affect the others.

#### **Safety Circuit**

Each Lantern has a built in safety circuit that only allows gas to flow during the ignition sequence and when the Lantern is lit. This prevents gas build-up. The safety circuit relies upon a flame sensor to keep the gas valve open. If the flame goes out the control module will shut the gas off then try to relight the Lantern. Your Lantern can not be operated manually, if a problem persists consult the troubleshooting guide (pg 27) and call a qualified service technician if needed.

#### **Lantern Operation Options**

Your Lantern is operated from an electrical circuit similar to an exterior light. You can set up one or many Lanterns on a single power supply. Lanterns may be set up and operated from any system that a house or exterior light could be operated from. Some examples are:

- Wall switch
- Smartphone when used with "Smart" wall switch
- Smart home control system
- Timer
- Remote control

## ***Maintaining Your Lantern***

---

! **Failure to inspect and maintain may lead to malfunctioning of the appliance and potentially dangerous situations.**

- Inspect Lantern prior to each use.
- Keep Lantern clean, remove any debris that collects in or on Lantern. Inspect for spiders and insects, they may clog burner ports or air inlets and need be removed before using.
- Have the appliance inspected by a qualified service technician annually.
- The stainless steel burner top will discolor – this is normal.

Your Tempest Lantern is designed to be cleaned and maintained easily. The most common maintenance that your Lantern will require is glass cleaning. This is done by loosening the glass retaining screws. Each piece of glass will have its own retainer. Hold the glass by the exposed edge and slide horizontally out of its tracks, the glass should slide easily if its retainer screw is loose.

Clean with glass cleaner or warm soapy water. The glass on your Tempest is tempered and designed for safety. If it breaks it will shatter into small square pieces similar to a car windshield. It is special glass and if you break one or need to replace a piece use only 3/16" thick tempered glass supplied by your Tempest Lantern dealer.

To inspect for or clean debris out of the inside of your Lantern remove one piece of glass. This will provide access to the inside of your Lantern. Once your glass piece is removed the pyramid shaped piece with the rings on the top by lifting it straight up, once you are clear of the burner elements turn it sideways and remove through the glass opening. This will provide you a clear view of all the Lantern components, visually check for and remove all foreign objects, vegetation, bugs, debris. When reassembling make sure you orient the Pyramid plate correctly, the burner elements that stick up through this plate are delicate. Once oriented, slide the plate straight down onto the burner assembly making sure the edges are seated all the way down.

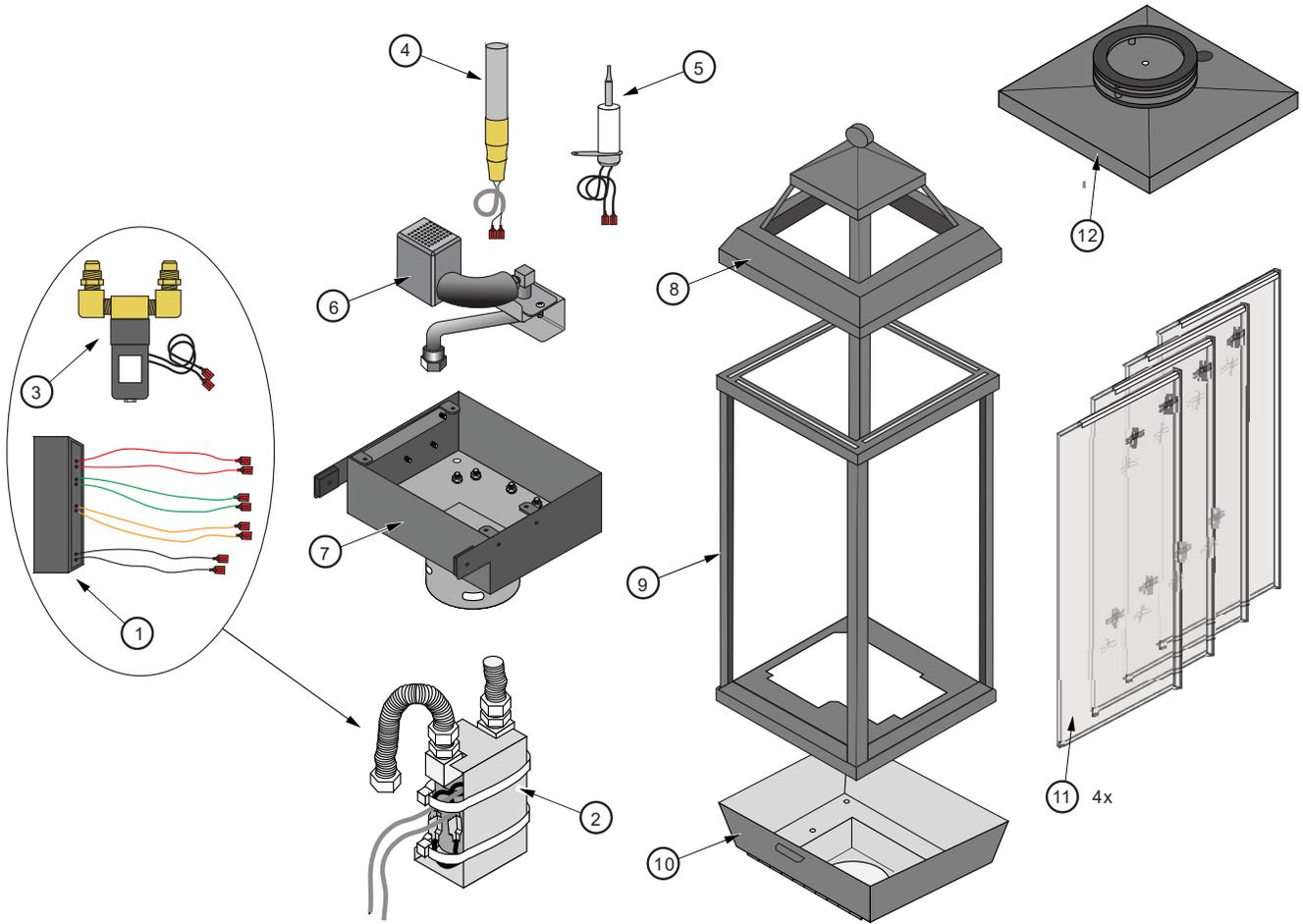
## ***Winterizing the Lantern.***

---

In areas where the Lantern may not be used in winter, or for an extended period, you may wish to shut off gas to the Lantern. This will ensure the Lantern is not accidentally turned on or started with debris or snow inside the Lantern.

**WARNING: Do not cover the Lantern.** A cover could combust if it is in place when the Lantern is turned on, creating a severe safety hazard.

## Replacement Parts



| ID# | Description             | Qty. | Part #    |
|-----|-------------------------|------|-----------|
| 1   | Control Module          | 1    | 250-04553 |
| 2   | Control Module Assembly | 1    | 250-04552 |
| 3   | Gas Control Valve       | 1    | 250-04554 |
| 4   | Thermopile              | 1    | 250-04550 |
| 5   | Ignitor                 | 1    | 250-04549 |
| 6   | Burner Assembly - NG    | 1    | 250-05516 |
| 6   | Burner Assembly - LP    | 1    | 250-05515 |

| ID# | Description          | Qty. | Part #    |
|-----|----------------------|------|-----------|
| 7   | Lower Base Assembly  | 1    | 250-05518 |
| 8   | Rain Cap Assembly    | 1    | 250-05512 |
| 9   | Glass Frame Assembly | 1    | 250-05513 |
| 10  | Base Cover           | 1    | 250-05514 |
| 11  | Glass                | 4    | 250-01251 |
| 12  | Flame Spreader NG    | 1    | 250-01790 |
| 12  | Flame Spreader LP    | 1    | 250-01791 |

Replacement parts can be obtained from your Tempest Lantern retailer (see [www.tempesttorch.com](http://www.tempesttorch.com)).

## Troubleshooting Table

| <b>Problem:</b>  | <b>Possible Cause:</b>   | <b>Don't Call for Service Until You:</b>  |
|--|--|---|
| <b>Lantern Does Not Light and igniter does not Glow Red</b>                          | <ul style="list-style-type: none"> <li>• Electrical Power Off</li> <li>• Igniter burned out</li> </ul>   | <p>Verify power is on and check circuit breaker or GFCI.</p> <p>Replace Igniter</p>   |
| <b>Lantern Does Not Light and Igniter Glows Red</b>                                  | <ul style="list-style-type: none"> <li>• Gas is Off</li> <li>• Not enough electrical current to the Lantern</li> </ul>   | <p>Turn Gas On (check shut-off valve)</p> <p>Voltage must be checked with power draw (Lantern in startup)</p>   |
| <b>Lantern Lights During Ignition Sequence then Goes Out During Normal Operation</b> | <ul style="list-style-type: none"> <li>• Dirty Air Channel or Burner</li> <li>• Polarity between Lanterns not correct</li> <li>• Thermopile worn out</li> </ul>        | <p>Remove glass and clean soot from pyramid plate, burner, and any air channels. If problem persists, contact dealer for service.</p> <p>Fix polarity</p> <p>Replace thermopile</p>   |
| <b>Flames are too short (under 6")</b>   | <ul style="list-style-type: none"> <li>• The gas supply pressure to the appliance is too low.</li> </ul>   | <p>Depleted LP cylinder.</p> <p>Gas supply lines or gas regulators do not have enough capacity. This may be due to other appliances in the house using up the available capacity, e.g. pool heaters, furnaces, hot water tanks, etc.</p>  |
| <b>Flames are not Spiral</b>   | <ul style="list-style-type: none"> <li>• Lantern was just turned on</li> <li>• Windy Condition</li> </ul>  | <p>It takes 5 to 10 minutes for the Lantern to start up and the flame to form a spiral.</p> <p>Wind will influence the flame shape</p>  |
| <b>Glass is Sooting</b>  | <ul style="list-style-type: none"> <li>• Wrong fuel type for Lantern</li> <li>• Burner or burner orifice may be dirty or blocked</li> <li>• Windy Condition</li> </ul> | <p>Make sure LP head with LP gas and NG head with NG gas</p> <p>Contact your dealer for details on removing any debris (spider webs, etc.) from the burner and orifice area.</p> <p>Wind will influence the flame quality and, if persistent, may lead to sooting on the glass.</p> |
| <b>Lantern makes Clicking Sounds</b>   | <ul style="list-style-type: none"> <li>• Glass is moving inside the glass frame and the stainless steel parts are expanding and contracting with heat</li> </ul>       | <p>THIS IS NORMAL</p>   |

# Limited Warranty

Register your TRAVIS INDUSTRIES, INC. Limited 7-Year Warranty online at [traviswarranty.com](http://traviswarranty.com). TRAVIS INDUSTRIES, INC. warrants this gas appliance (appliance is defined as the equipment manufactured by Travis Industries, Inc.) to be defect-free in material and workmanship to the original purchaser from the date of purchase as follows:

Check with your dealer in advance for any costs to you when arranging a warranty call.  
Mileage or service charges are not covered by this warranty. This charge can vary from store to store.

| Warranty Period |         |            | Component  |
|-----------------|---------|------------|--|
| Residential     |         | Commercial |  |
| Parts           | Labor   | Parts      |  |
| 7 years         | 2 years | 1 year     | <b>Burner Assembly</b><br>Burner, Venturi, Flame Spreader, Orifice, Gas valve  |
| 2 years         | 2 years | 1 year     | <b>Appliance Body</b><br>Stainless Steel Components, Stainless Steel Burner Tray   |
| 2 years         | 2 years | 1 year     | <b>Electrical Assembly (within appliance structure)</b><br>Flame Sensor, Transformer (if purchased with the appliance), Wire Harness, Control Module, Igniter, |
| 2 years         | 2 years | 1 year     | <b>Gas Control Assembly</b><br>Gas Valve, Pilot Assembly Components  |
| 2 years         |         | 1 year     | <b>One-Way Freight Allowance</b><br>One-way freight allowance on pre-authorized repair done at the factory is covered.   |
| 90 days         |         | 90 days    | <b>Accessories</b><br>Glass (breakage from thermal shock only), Wall mount bracket, in-ground post, and pillar post  |
| 90 days         |         | 90 days    | <b>All replacement parts purchased beyond the warranty period</b>  |

## CONDITIONS & EXCLUSIONS

- This new gas appliance must be installed by a qualified gas appliance technician. It must be installed, operated, and maintained at all times in accordance with the instructions in the Owner's Manual. Any alteration, willful abuse, accident, neglect, alteration, misapplication, or misuse of the product shall nullify this warranty.
- This warranty is non-transferable and is made to the ORIGINAL purchaser, provided that the purchase was made through an authorized TRAVIS dealer.
- Discoloration and some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, not covered under warranty. The installer must ensure the appliance is burning as per the rating tag at the time of installation. Overfiring (operation above the listed BTU rate) of this appliance can cause serious damage and will nullify this warranty.
- This warranty does not cover damage to the finish, such as scratches, dents, discoloration, rust, or other weather damage, after purchase.
- Travis Industries will not be responsible for inadequate performance caused by environmental conditions such as nearby trees, buildings, rooftops, wind, hills or mountains, or other influences from mechanical systems such as fans, etc.
- This Warranty is void if:
  - The unit has been operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals.
  - The unit is subject to submersion in water.
- Exclusions to this warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration, or adjustment of the manufacturer's settings of components, lack of proper and regular maintenance, damage incurred while the appliance is in transit, alteration, or act of God.
- This warranty excludes damage caused by normal wear and tear, such as discoloration. Also excluded is damage to the unit caused by abuse, improper installation, modification of the unit, drilling of the orifices, or the use of fuel other than that for which the unit is configured. Units are shipped for either natural gas or propane. Confirm fuel configuration with your installer.
- Damage to stainless steel surfaces caused by fingerprints, scratches, melted items, or other external sources left on the stainless steel from the use of cleaners is not covered in this warranty.
- TRAVIS INDUSTRIES, INC. is free of liability for any damage caused by the appliance, as well as inconvenience expenses and materials. Incidental or consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply.
- This warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the gas appliance without the express written permission of TRAVIS INDUSTRIES, INC. and bearing a TRAVIS INDUSTRIES, INC. label of approval.
- Any statement or representation of TRAVIS products and their performance contained in TRAVIS advertising, packaging literature, or printed material is not part of this warranty.
- This warranty is automatically voided if the appliance's serial number has been removed or altered in any way.
- No dealer, distributor, or similar person has the authority to represent or warrant TRAVIS products beyond the terms contained within this warranty. TRAVIS INDUSTRIES, INC. assumes no liability for such warranties or representations.
- Travis Industries will not cover the cost of the removal or re-installation.
- If for any reason any section of this warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect.
- THIS WARRANTY IS THE ONLY WARRANTY SUPPLIED BY TRAVIS INDUSTRIES, INC., THE MANUFACTURER OF THE APPLIANCE. ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, ARE HEREBY EXPRESSLY DISCLAIMED AND THE PURCHASER'S RECOURSE IS EXPRESSLY LIMITED TO THE WARRANTIES SET FORTH HEREIN.**

## IF WARRANTY SERVICE IS NEEDED:

- If you discover a problem that you believe is covered by this warranty, you MUST REPORT it to your TRAVIS dealer WITHIN 30 DAYS, giving them proof of purchase, the purchase date, and the model name and serial number.
- Travis Industries has the option of either repairing or replacing the defective component.
- If your dealer is unable to repair your appliance's defect, he may process a warranty claim through TRAVIS INDUSTRIES, INC., including the name of the dealership where you purchased the appliance, a copy of your receipt showing the date of the appliance's purchase, and the serial number on your appliance. At that time, you may be asked to ship your appliance, freight charges prepaid, to TRAVIS INDUSTRIES, INC. TRAVIS INDUSTRIES, INC., at its option, will repair or replace, free of charge, your TRAVIS appliance if it is found to be defective in material or workmanship within the time frame stated within this warranty. TRAVIS INDUSTRIES, INC. will return your appliance, freight charges prepaid by TRAVIS INDUSTRIES, INC., to your regional distributor, or dealership.







|  |    |
|--|----|
| Additional Items Required .....                      | 6  |
| Before You Begin .....                               | 17 |
| Dimensions .....                                     | 5  |
| Electrical Connection Requirements .....             | 10 |
| Features .....                                       | 5  |
| Gas Line Connection.....                             | 9  |
| Gas Line Requirements .....                          | 9  |
| Important Registration and Service Information ..... | 2  |
| Installation Options.....                            | 5  |
| Installation Warnings.....                           | 6  |
| Listing Details.....                                 | 2  |
| Maintaining Your Lantern.....                        | 18 |
| Operating Instructions.....                          | 17 |
| Optional Rain Cap.....                               | 16 |
| Overview .....                                       | 2  |
| Packing List.....                                    | 6  |
| Placement Requirements.....                          | 8  |
| Post Mount and Control Cover Installation .....      | 14 |
| Recommended Order of Installation .....              | 7  |
| Replacement Parts.....                               | 19 |
| Safety Precautions .....                             | 4  |
| Specifications .....                                 | 5  |
| Lantern Assembly .....                               | 15 |
| Troubleshooting Table .....                          | 20 |
| Warranty.....  | 21 |
| Winterizing the Lantern.....                         | 18 |
| Wiring Diagram .....                                 | 10 |
| Wiring Multiple Lanterns to One Switch .....         | 11 |