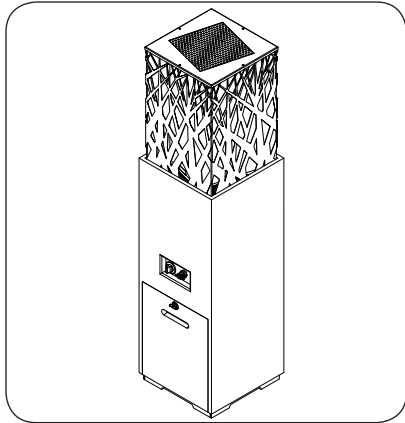


AMERICAN Fyre Designs™

by R H Peterson Co.

INSTALLATION & OWNER'S MANUAL



Series: 715

Certified to:
ANSI Z21.97/CSA 2.41
for outdoor decorative
gas appliances



⚠ WARNING: For Outdoor Use Only

NEST OUTDOOR LANTERN

⚠ 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.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- A propane cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

⚠ DANGER

If you smell gas:

1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. If odor continues, keep away from the appliance and immediately call your gas supplier or fire department.

Installation and service must be performed by an NFI Certified or other qualified professional installer, service agency, or gas supplier.

⚠ 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 & CONSUMER: These instructions MUST be retained with this appliance for future reference.

Important: Read these instructions carefully before starting installation of the unit.

⚠ WARNING

Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

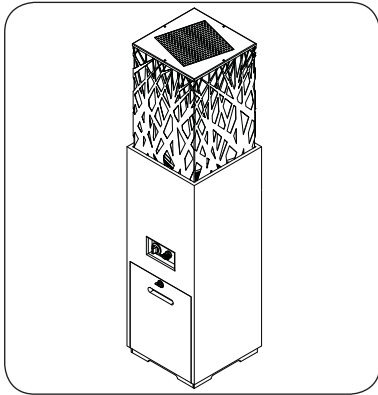
This appliance is designed as an **attended appliance**. Adults **must** be present when the unit is operating. **DO NOT** leave this unit burning when unattended. If this product is left burning unattended, it may cause damage or serious injury.

IMPORTANT

For safe operation and proper performance of this product and to comply with certification, listings, and building code acceptances, use **ONLY** Peterson AFD controls, parts, and accessories that have been specifically listed or certified for use with this burner system. Use of other controls, parts, or accessories is prohibited and will void all warranties, certifications, listings, and building code approvals, and may cause property damage, personal injury, and loss of life.

CODE AND SUPPLY REQUIREMENTS:

The installation must conform with local codes and ordinances, or, in the absence of local codes, with the latest *National Fuel Gas Code*, *ANSI Z223.1*.



Series: 715

Certifié à:
ANSI Z21.97/CSA 2.41
pour les appareils à gaz
décoratifs extérieurs



⚠ AVERTISSEMENT: Pour l'usage extérieur seulement

LANTERNE EMBOÎTEMENT EXTÉRIEUR

⚠ AVERTISSEMENT: Si l'information en ce manuel n'est pas suivie exactement, une incendie ou une explosion peut résulter entraînant des dégâts matériels, le dommage corporel ou des pertes humaines.

- Ne pas entreposer ni utiliser d'essence ou d'autres vapeurs et liquides inflammables à proximité de cet appareil ou de tout autre.
- Une bouteille de propane non branchée ne doit pas être entreposée à proximité de cet ou tout autre appareil.

⚠ DANGER

Si vous sentez une odeur de gaz:

1. Coupez le gaz à l'appareil.
2. Éteindre toute flamme nue.
3. Si l'odeur persiste, éloignez-vous de l'appareil et appelez immédiatement votre fournisseur de gaz ou les pompiers.

L'installation et le service doivent être assurés par un NFI certifié ou toute autre installateur, agence de service, ou fournisseur professionnelle qualifiée de gaz.

⚠ DANGER

DANGER MONOXYDE DE CARBONE

Cet appareil peut produire du monoxyde de carbone n'a pas d'odeur qui.

Son utilisation dans un espace clos peut vous tuer.

Ne jamais utiliser cet appareil dans un espace clos comme une caravane, tente, véhicule ou maison.



d'INSTALLATEUR; CONSOMMATEUR: Ces instructions DOIVENT être maintenues avec cet appareil pour la future référence.

Important: Lisez ces instructions soigneusement avant de commencer l'installation de l'unité.

⚠ AVERTISSEMENT

L'installation, l'ajustement, le changement, le service, ou l'entretien inexact peuvent causer des dégâts matériels, le dommage corporel, ou des pertes humaines. Lisez l'installation, l'opération et les instructions d'entretien complètement avant d'installer ou entretenir cet équipement.

Cet appareil est conçu comme appareil occupé. Les adultes doivent être présent quand l'unité fonctionne. Ne laissez pas ce burning d'unité si sans surveillance. Si ce produit est laissé sans surveillance brûlant, il peut causer des dommages ou des dommages sérieux.

IMPORTANT

Pour l'exploitation sûre et l'exécution appropriée de ce produit et pour se conformer à la certification, aux listes, et aux acceptations de codes du bâtiment, commandes, pièces, et accessoires de Peterson d'utilisation SEULEMENT qui ont été spécifiquement énumérés ou certifiés pour l'usage avec ce système de brûleur. L'utilisation d'autres commandes, pièces, ou accessoires est interdite et videra toutes les garanties, certifications, listes, et approbations de codes du bâtiment, et peut causer des dégâts matériels, le dommage corporel, et des pertes humaines.

CONDITIONS DE CODE ET D'APPROVISIONNEMENT:

L'installation doit se conformer aux codes locaux et aux ordonnances, ou, en l'absence des codes locaux, au plus défunt code national de gaz de carburant, la norme ANSI Z223.1.

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IMPORTANT SAFETY INFORMATION

Congratulations on your purchase of an American Fyre Designs outdoor gas lantern. Made with pride in America, your new lantern complies with national safety standards and when installed per these instructions and used as intended it will provide warmth and comfort to your outdoor area for many years.

Prior to installation and operation ensure that all specifications, dimensions, and minimum clearances stated in this manual are observed. You must read all warnings and safety information, and understand all of the information in this manual. All installation requirements must be observed and met.

PRE-INSTALLATION AND PREPARATION SAFETY GUIDELINES

- A. A shut-off valve (not included) in the gas line is required.** It provides for safety when the unit is not in use and for convenient maintenance and repair. It must be installed within 6 feet of unit. Use a pipe joint compound resistant to all gasses on all male fittings except flare fittings.
- B.** Before installing this unit, check the **MINIMUM CLEARANCE TO COMBUSTIBLES** section to ensure that the surrounding area is **properly sized for the installation**.
- C.** The unit is for outdoor use only. **DO NOT** install or use this appliance inside a building, garage, or any other enclosed area, including recreational vehicles and/or boats. **THIS UNIT MUST BE INSTALLED IN SUCH A MANNER THAT ALL VENT OPENINGS ON THE UNIT REMAIN CLEAR AND FREE OF ALL OBSTRUCTIONS AT ALL TIMES AND DURING ALL WEATHER CONDITIONS.**
- D. SOLID FUEL MUST NOT BE BURNED in the unit.**
- E. CHECK GAS TYPE** (natural gas or propane): The gas supply you intend to use may not be the same as that stated on the unit rating plate as purchased. If the gas supply is different, **convert the unit to the gas type you intend to use (IF PERMITTED)**. See the FUEL CONVERSION KIT section and contact the dealer for assistance. **ONLY MANUAL UNITS ARE CONVERTIBLE.**
- F. FOR NATURAL GAS:** The minimum inlet gas-supply pressure for purposes of input adjustment is **5" water column (w.c.)**, and the maximum inlet gas-supply pressure is **10.5" w.c.**
FOR PROPANE GAS: The minimum inlet gas-supply pressure for purposes of input adjustment is **11" w.c.**, and the maximum inlet gas-supply pressure is **13" w.c.** **DO NOT INSTALL THIS UNIT IF MINIMUM PRESSURE IS NOT AVAILABLE OR IF MAXIMUM PRESSURE IS EXCEEDED.**
- G. The gas piping system must be sized to provide minimum inlet pressure at the maximum flow rate (BTU/hr).** Undue pressure loss will occur if the pipe is too small, or the run is too long. Gas supply pipe must be 1/2" minimum interior diameter. If the gas line is longer than 20', a larger diameter line may be necessary. Refer to the NFPA 54 guidelines for further details.
- H.** For installations at elevations above 2,000 ft., contact your local dealer or gas supplier before installing. Input ratings should be reduced approximately 4% for each 1,000 ft. above sea level. Refer to the National Fuel Gas Code.
- I.** The unit and its individual shut-off valve must be disconnected from the gas-supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa). This is accomplished by closing the gas-supply line valve. The unit must be isolated from the gas-supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas-supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).
- J.** When an appliance is for connection to a fixed piping system, the installation must conform with 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. 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, if applicable.

Electrical Grounding Instructions (if applicable) - Select models are equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

- K. INSTALLER NOTE:** This unit should be installed so that it can be removed if service is required.

L. GAS-SUPPLY PLUMBING REQUIREMENTS

Apply only joint compounds that are resistant to all gasses on all male pipe fittings. Make sure to tighten every joint securely. Do not use pipe joint compound to connect flare fittings. Bring the gas-supply pipe up from beneath the enclosure near its center (if applicable).

CAUTION: Installation and maintenance must be done by an NFI Certified or other qualified professional service technician. Installer, read these instructions before installing this product. Be sure you understand all safety precautions and warnings contained in this manual.

INSTALLATION SAFETY GUIDELINES

- A. Carefully inspect for shipping damage. If any parts are damaged, contact your dealer.
- B. Installation and repair should be done by a qualified professional service technician. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required as necessary. It is imperative that control compartment, burners and circulating air passageways of the appliance are kept clean.
- C. **WEAR GLOVES AND USE EXTREME CAUTION WHENEVER INSTALLING AND HANDLING THIS PRODUCT AND ITS ACCESSORIES AS CERTAIN COMPONENTS HAVE SHARP EDGES THAT CAN CAUSE PERSONAL INJURY.**
- D. Correct installation and proper placement of the unit and decorative media **is crucial** to the safe performance of the unit. See installation instructions for further information.
- E. **DO NOT** install the unit under any overhead combustible materials.
- F. Ensure that the unit is installed on a hard and level surface.
- G. Ensure that the unit is installed in such a manner that all vent openings on the unit remain clear and free of all obstructions at all times and during all weather conditions.
- H. Due to high temperatures, the unit must be located out of traffic areas and away from combustibles.
- I. **KEEP THE PILOT SCREEN (OR ELECTRODE, FLASH TUBE, AND INSIDE OF THE FLASH TUBE) CLEAR OF DECORATIVE MEDIA AND ANY OTHER ITEMS / DEBRIS AT ALL TIMES. THIS WILL ALLOW FOR PROPER IGNITION AND OPERATION. DO NOT COVER.**

OPERATING THE UNIT SAFELY AND CORRECTLY

- A. **This product is a decorative gas appliance. It is not a cooking appliance.**
- B. **SOLID FUEL MUST NOT BE BURNED in the unit.**
- C. When shutting the unit down—be sure to TURN THE CONTROL VALVE FULLY OFF.
- D. Children MUST be supervised when they are in the area of this appliance.
- E. **DO NOT** sit or place any part of the body, clothing, or other flammable materials on or near the unit surround. Children and adults should be alerted to the hazard of high surface temperatures and should stay away to avoid burns or clothing ignition. DO NOT lean over the unit when lighting or when in use.
- F. Every time you use the unit, **make sure that:**
 - 1. The area around the unit is clear and free from combustible materials, gasoline and other flammable vapors and liquids.
 - 2. There is no blockage of the airflow through the vent openings located on the unit.
 - 3. **THE PILOT SCREEN (OR ELECTRODE, FLASH TUBE, AND INSIDE OF THE FLASH TUBE) ARE CLEAR OF DECORATIVE MEDIA AND ANY OTHER ITEMS / DEBRIS. DO NOT COVER.**
 - 4. The hose is inspected (if applicable). See the SAFE USE & MAINTENANCE OF PROPANE-GAS CYLINDERS section.
- G. **WARNING: HOT WHILE IN OPERATION AND FOLLOWING OPERATION. Serious injury can occur! DO NOT touch the steel frame or glass panels when in use. DO NOT** throw trash, paper, or other flammable materials onto the unit. **DO NOT** leave in operation when unattended.
WARNING: DO NOT operate this unit in the rain.
WARNING: DO NOT operate this unit in high-wind conditions. Operating in high-wind conditions may expose your unit to direct flame, which will result in cracking and discoloration to the finish.
- H. **DO NOT** continue using if you smell unusual odors, or have headaches, nausea, or dizziness.
- I. **DO NOT** store any combustible materials, gasoline, and any other flammable vapors/liquids in the vicinity of the unit. Provide adequate clearance for servicing and operation.
- J. Matches, paper, garbage, or any other material must not be thrown onto the unit or into the flame.
- K. **DO NOT** use the unit if any part of it has been underwater. Immediately call a qualified professional service technician to inspect the unit and to replace any part of the control system and any gas control that has been underwater.

UTILISATION SÛRE ET ENTRETIEN DES CYLINDRES DE GAZ DE PROPANE

IMPORTANT POUR VOTRE SÛRETÉ

LISEZ ET SUIVEZ TOUS LES AVERTISSEMENTS ÉQUIPÉS DE VOTRE CYLINDRE DE GAZ DE PROPANE.

En actionnant cet appareil avec un cylindre de gaz de propane ON DOIT observer ces instructions et avertissements.

LE MANQUE DE FAIRE AINSI PEUT AVOIR COMME CONSÉQUENCE UNE INCENDIE OU UNE EXPLOSION SÉRIEUSE.

CYLINDRE ET CONDITIONS ET

CARACTÉRISTIQUES DE CONNECTEUR

- Des cylindres et les valves de gaz de propane doivent être maintenus en bon état et doivent être remplacés s'il y a des dommages évidents au cylindre ou à la valve.
- Ce gril, une fois utilisé avec un cylindre, devrait être relié à un gallon de la norme 5 (20lb.) cylindre de gaz de propane équipé d'un OPD (remplissez au-dessus du niveau le dispositif d'empêchement). L'OPD a été exigé sur tous les cylindres vendus depuis octobre 1.1998 pour empêcher le remplissage excessif.
- Les dimensions de cylindre devraient être approximativement 12" (30.5cm) de diamètre et 18" (45.7cm) hauts. Des cylindres doivent être construits et marqués selon les caractéristiques pour des cylindres de gaz de propane du département des ETATS-UNIS du transport (D.O.T.) ou le niveau national du Canada, du CAN/CSA-B339, des cylindres, des sphères et des tubes pour le transport des marchandises dangereuses.
- Le cylindre doit inclure un collier pour protéger la valve de cylindre et le circuit d'alimentation de cylindre doit être assuré le retrait de vapeur.
- Le montage du régulateur de pression et le flexible (Fig. 6-1) fourni avec cet appareil au gaz en plein air (modèles au propane seulement) doit être utilisé. Assemblées d'origine et régulateur de pression et le tuyau de remplacement doivent être ceux spécifiés par le fabricant pour le raccordement d'un dispositif de cylindre de liaison identifiée comme de type I par le ANSI Z 21.58/CGA 1.6 (voir liste des pièces pour les informations de commande).
- La valve de cylindre de gaz de propane doit être équipée d'un dispositif d'accouplement de raccordement de cylindre, décrit comme type I dans la norme définie dans le e. de paragraphe ci-dessus. Ce dispositif est généralement décrit comme coupleur rapide de fil de point culminant.
- Si votre cylindre de gaz de propane vient avec une prise de la poussière, placez le bouchon anti-poussière sur la sortie de valve de cylindre toutes les fois que le cylindre n'est pas en service.

OPÉRATION DE COUPLEUR RAPIDE

Pour relier le régulateur/hose à l'ajustage de précision de valve de cylindre de gaz de propane: Serrez l'écrou de main sur le régulateur au-dessus de l'ajustage de précision de fil de point culminant sur la valve de cylindre. Tournez l'écrou de

main dans le sens des aiguilles d'une montre pour engager les fils et pour serrer jusqu'à ce que douillettement. L'utilisation des pinces ou de la clé ne devrait pas être nécessaire. Seulement le propane marqué par cylindres doit être employé.

Pour débrancher: Tournez l'écrou de main dans le sens contraire des aiguilles d'une montre jusqu'à isolé (fig. 6-1).

Important: Avant d'employer le gril, et ensuite chaque fois que le cylindre est enlevé et rattaché, examinez tous les raccordements pour déceler les fuites. Arrêtez les valves de gril et ouvrez la valve principale de cylindre, puis vérifiez les raccordements avec de l'eau savonneuse. Réparez toutes les fuites avant d'allumer le gril.

ATTENTION: Tournez toujours la valve principale de cylindre de propane au loin après chaque utilisation, et avant de déplacer le gril et le cylindre, ou débrancher l'accouplement. Cette valve doit rester fermée et le cylindre a débranché alors que l'appareil n'est pas en service, quoique l'écoulement de gaz soit arrêté par un dispositif de sûreté quand le coupleur est débranché.

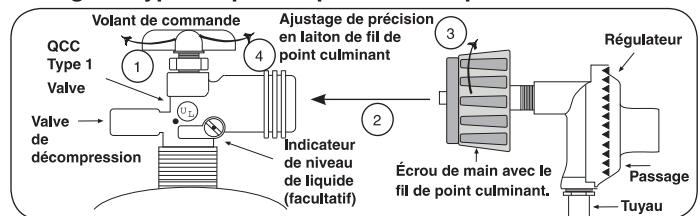
Inspectez soigneusement l'ensemble de tuyau chaque fois avant que le gaz soit allumé. Un tuyau fissuré ou effiloché doit être immédiatement remplacé.

Si l'appareil est stocké à l'intérieur, le cylindre doit être disconnected et a enlevé. Des cylindres Disconnected doivent être stockés dehors, hors de la portée des enfants, avec les prises de valve filetées étroitement installées, et ne doivent pas être stockés dans un bâtiment, le garage, ou n'importe quel autre secteur inclus.

POUR VOTRE SÛRETÉ

- Ne stockez pas un cylindre de gaz disponible de propane dessous ou ne vous approchez pas de cet appareil.
- Ne remplissez jamais cylindre au delà de 80 pour cent de plein.
- SI L'INFORMATION DANS "A" ET "B" N'EST PAS SUIVIE EXACTEMENT, UN FEU CAUSANT LA MORT OU DES DOMMAGES SÉRIEUX PEUT SE PRODUIRE.

Fig. 6-1 type coupleur rapide de fil de point culminant d'I



SAFE USE & MAINTENANCE OF PROPANE GAS CYLINDERS

IMPORTANT FOR YOUR SAFETY

READ AND FOLLOW ALL WARNINGS PROVIDED WITH THE PROPANE-GAS CYLINDER.

When operating this appliance with a propane-gas cylinder, these instructions and warnings **MUST** be observed.

FAILURE TO DO SO MAY RESULT IN A SERIOUS FIRE OR EXPLOSION.

CYLINDER/CONNECTOR REQUIREMENTS

- Propane-gas cylinders, valves, and hoses must be maintained in good condition and must be replaced if there is visible damage to either the cylinder or valve. If the hose is cut or shows excessive abrasion or wear, it must be replaced before using the gas appliance (see e.).
- This unit, when used with a cylinder, should be connected to a standard 5-gallon (20 lb.) propane-gas cylinder equipped with an OPD (Overfill Prevention Device). The OPD has been required on all cylinders sold since October 1, 1998, to prevent overfilling.
- Cylinder dimensions should be approximately 12" (30.5 cm) in diameter and 18" (45.7 cm) high. Cylinders must be constructed and marked in accordance with the *Specifications for Propane Gas Cylinders of the U.S. Department of Transportation (D.O.T.)* or the National Standard of Canada, *CAN/CSA-B339, Cylinders, Spheres, and Tubes for Transportation of Dangerous Goods*.
- The cylinder used must include a collar to protect the cylinder valve, and the cylinder supply system must be arranged for vapor withdrawal.
- The pressure regulator and hose assembly (Fig. 7-1) supplied with this outdoor gas appliance (L.P. models only) must be used. Original and replacement pressure regulator and hose assemblies must be those specified by the manufacturer for connection with a cylinder connecting device identified as Type I by the *ANSI Z 21.58/CGA 1.6* (see PARTS LIST for ordering information).
- The propane-gas cylinder valve must be equipped with a cylinder connection coupling device, described as Type I in the standard defined in paragraph e. above. This device is commonly described as an Acme thread quick coupler.
- If the propane-gas cylinder comes with a dust plug, place the dust cap on the cylinder valve outlet whenever the cylinder is not in use.

QUICK COUPLER OPERATION

To connect the regulator/hose assembly to the propane-gas cylinder valve fitting: Press the hand nut on the regulator over the Acme thread fitting on the cylinder valve. Turn the hand nut clockwise to engage the threads and tighten until snug.

The use of pliers or a wrench should not be necessary. Only cylinders marked "propane" may be used.

To disconnect: Turn the hand nut counterclockwise until detached (Fig. 7-1).

Important: Before using the unit, and after each time the cylinder is removed and reattached, check the hose for wear (see a.) and check all connections for leaks. Turn off the unit valves and open the main cylinder valve, then check connections with soapy water. Repair any leaks before lighting the unit.

CAUTION: Always turn the propane cylinder main valve off after each use, and before moving the unit and cylinder or disconnecting the coupling. This valve must remain closed and the cylinder disconnected while the appliance is not in use, even though the gas flow is stopped by a safety feature when the coupler is disconnected.

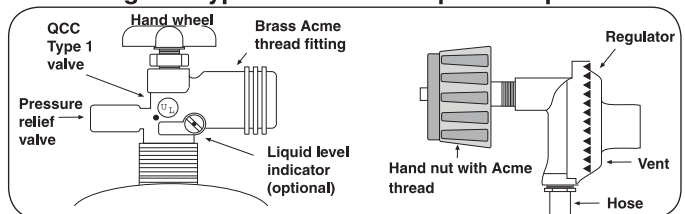
Carefully inspect the hose assembly each time before the gas is turned on. A cracked or frayed hose must be replaced immediately.

If the appliance is stored indoors, the cylinder must be disconnected and removed. Disconnected cylinders must be stored outdoors, out of the reach of children, with threaded valve plugs tightly installed, and must not be stored in a building, garage, or any other enclosed area.

FOR YOUR SAFETY

- DO NOT store a spare propane-gas cylinder under or near this appliance.
- NEVER fill the cylinder beyond 80-percent full.
- IF THE INFORMATION IN a. AND b. IS NOT FOLLOWED EXACTLY, A FIRE CAUSING DEATH OR SERIOUS INJURY MAY OCCUR.

Fig. 7-1 Type I Acme thread quick coupler



NOTES PAGE

Please use this page to record any information that you may want to have at hand.

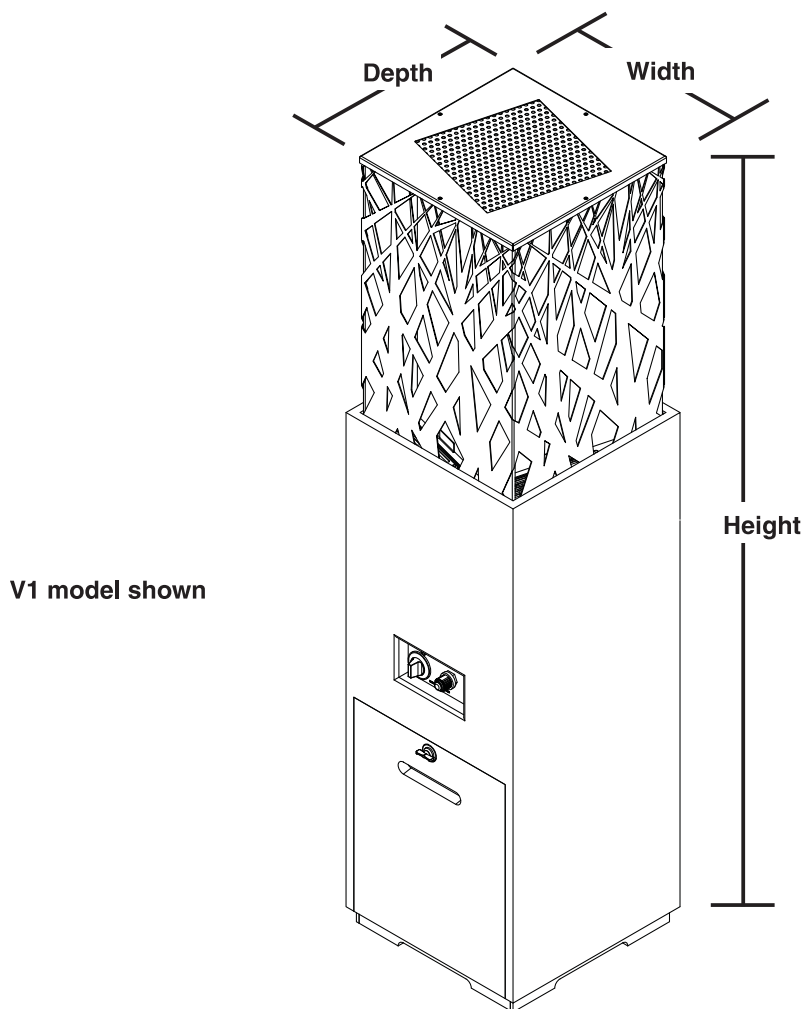
ELECTRICAL SAFETY INFORMATION

- To protect against electric shock, do not immerse cord or plugs in water or other liquid.
- Unplug from the outlet when not in use and before cleaning. Allow to cool before putting on or taking off parts.
- Do not operate any outdoor gas appliance with a damaged cord, plug, or after the appliance malfunctions or has been damaged in any manner. Contact the manufacturer for repair.
- Do not let the cord touch hot surfaces.
- Do not use an outdoor gas appliance for purposes other than intended.
- **Use only a properly wired and inspected 120VAC (15 AMP minimum) Ground Fault Circuit Interrupter (GFCI) GROUNDED 3-wire receptacle with this outdoor gas appliance.**
- Never remove the grounding plug or use with an adapter of 2 prongs.
- Use only extension cords with a 3 prong grounding plug, rated for the power of the equipment, and approved for outdoor use with a W-A marking.
- **The provisions of the National Electric Code as well as any local codes must be observed when installing the product.**

SPECIFICATIONS AND DIMENSIONS

Style	BTUs		Dimensions	Weight
	Nat.	L.P.		
Nest Lantern (715)- V1 & K1 models	30,000	20,000	16" w x 16" d x 66" h	160 lbs
Nest Lantern (715)- E1 & S1 models	26,000	22,000	16" w x 16" d x 66" h	160 lbs

Table 1 - Product Specifications



SPECIFICATIONS AND DIMENSIONS (cont.)

Only the glass media options listed below are approved for use with this product. Follow the recommendations for media amounts. All glass media options are purchased separately; contact your local American Fyre Designs dealer when ordering.

Glass media * :

Style	Recommended Amount of Glass / Gems
Nest Lantern (715)	6 lbs

*** FOR ALL MODELS, NUGGETS CANNOT BE USED. FOR V/K1 MODELS, REFLECTIVE GLASS CANNOT BE USED.**

Table 2 - Glass Recommendations

Specification	Value	Qty.
S1 models: Input electrical requirements	120VAC / 15 AMP minimum / 60 Hz / GFCI outlet	N/A
E1 models: Burner system battery type	D battery	2
Remote transmitter battery type	12V battery	1
Remote receiver battery type	AA battery	4
Igniter battery type	AA battery	1

Table 3 - Technical Data

E1 MODEL WIRING DIAGRAM

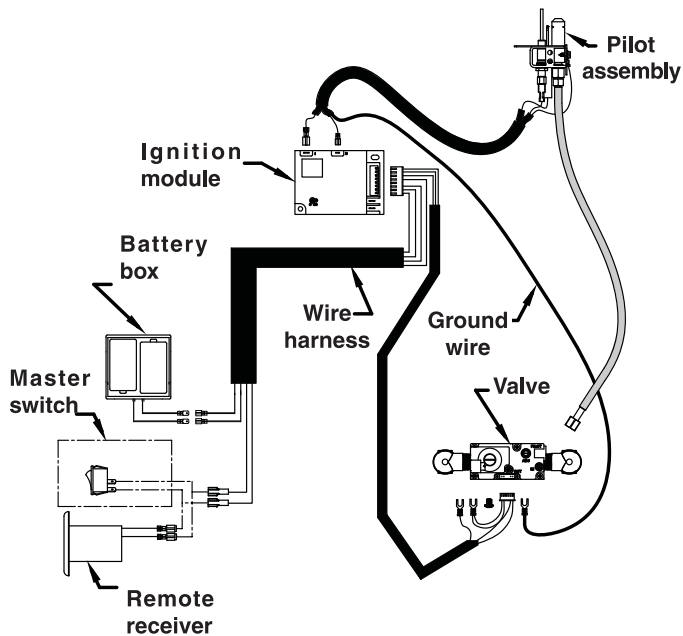


Fig. 10-1

S1 MODEL WIRING DIAGRAM

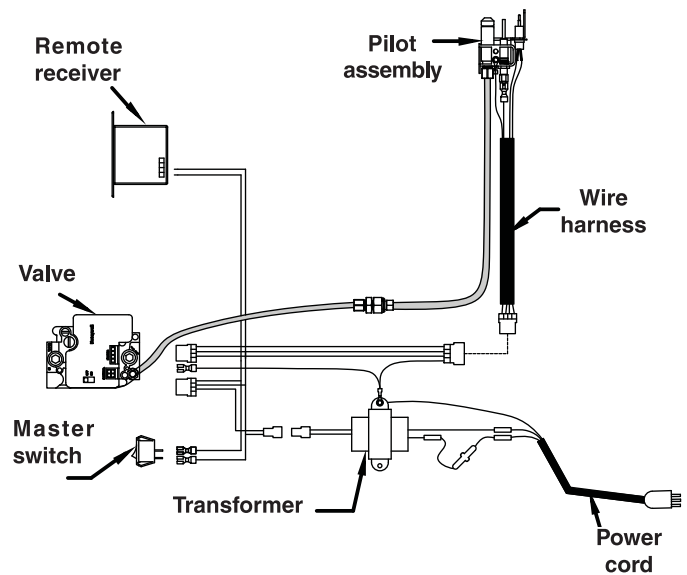


Fig. 10-2

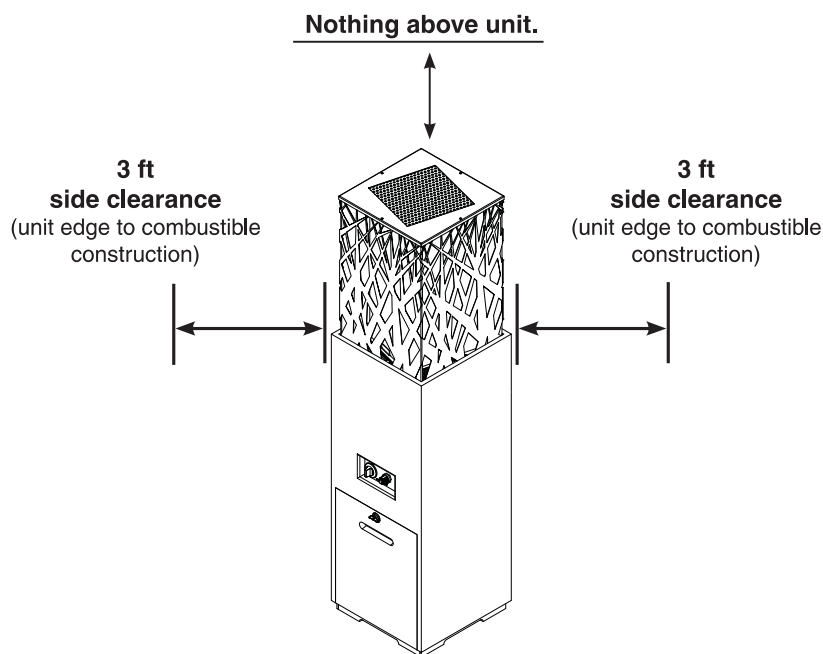
MINIMUM CLEARANCES TO COMBUSTIBLES

The dimensions shown below are **MINIMUM CLEARANCES** to maintain when you install the unit.

ALL CLEARANCES AND INFORMATION STATED HERE MUST BE MAINTAINED AND FOLLOWED.

Description	Dimension
Side clearance (from burner edge to combustible construction)	3 ft
Clearance above unit	Not permitted
Clearance below unit	0"

Table 4 - Minimum Clearances to Combustibles



Floor must be a hard, level surface. Combustible materials permitted.

TOOLS REQUIRED

The following are the minimum tools required for the installation of your unit. Additional tools may be required for your individual installation.

- 2 (or more) assemblers recommended
- appropriate tools for gas supply and electrical install (as applicable)
- $\frac{3}{8}$ " socket driver (or equivalent)

PARTS LIST

- In addition to the appropriate Replacement Parts List, reference the Identification Parts List.
- Your unit is packaged onto 1 pallet.
- Glass media is purchased and packaged separately. Various styles are available.
- Glass media and replacement parts can be ordered from your local American Fyre Designs dealer.
- Select models are illustrated (your model may vary)

**SHARP
EDGES**
USE CAUTION

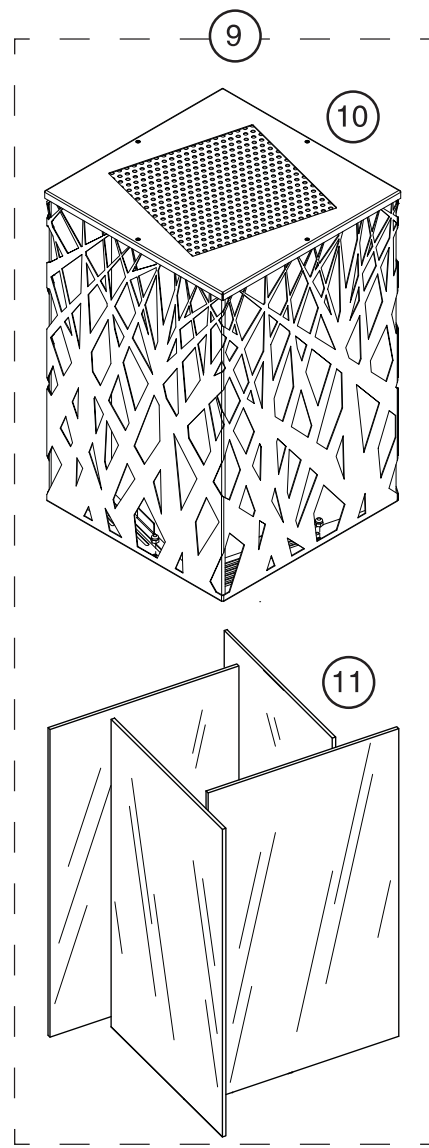
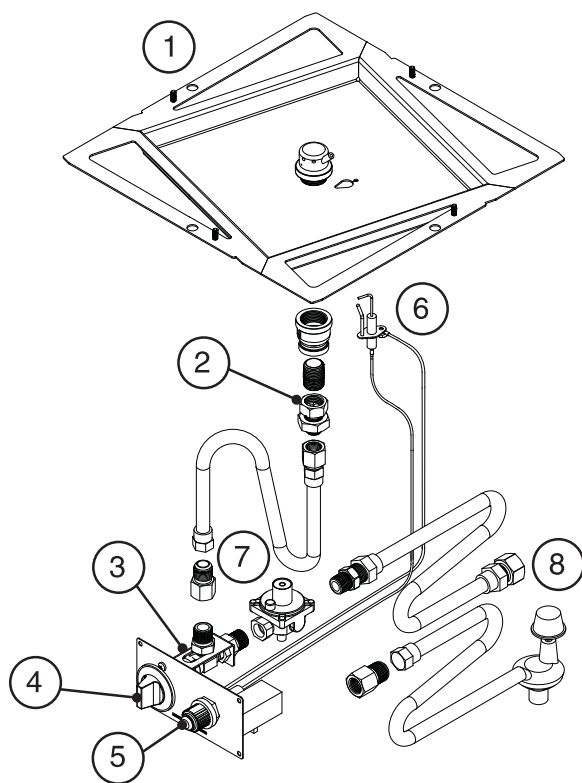
**SOME COMPONENTS
ARE HEAVY**
HANDLE WITH CARE

IMPORTANT

Remove all packing material (including any protective coatings) and discard prior to use.

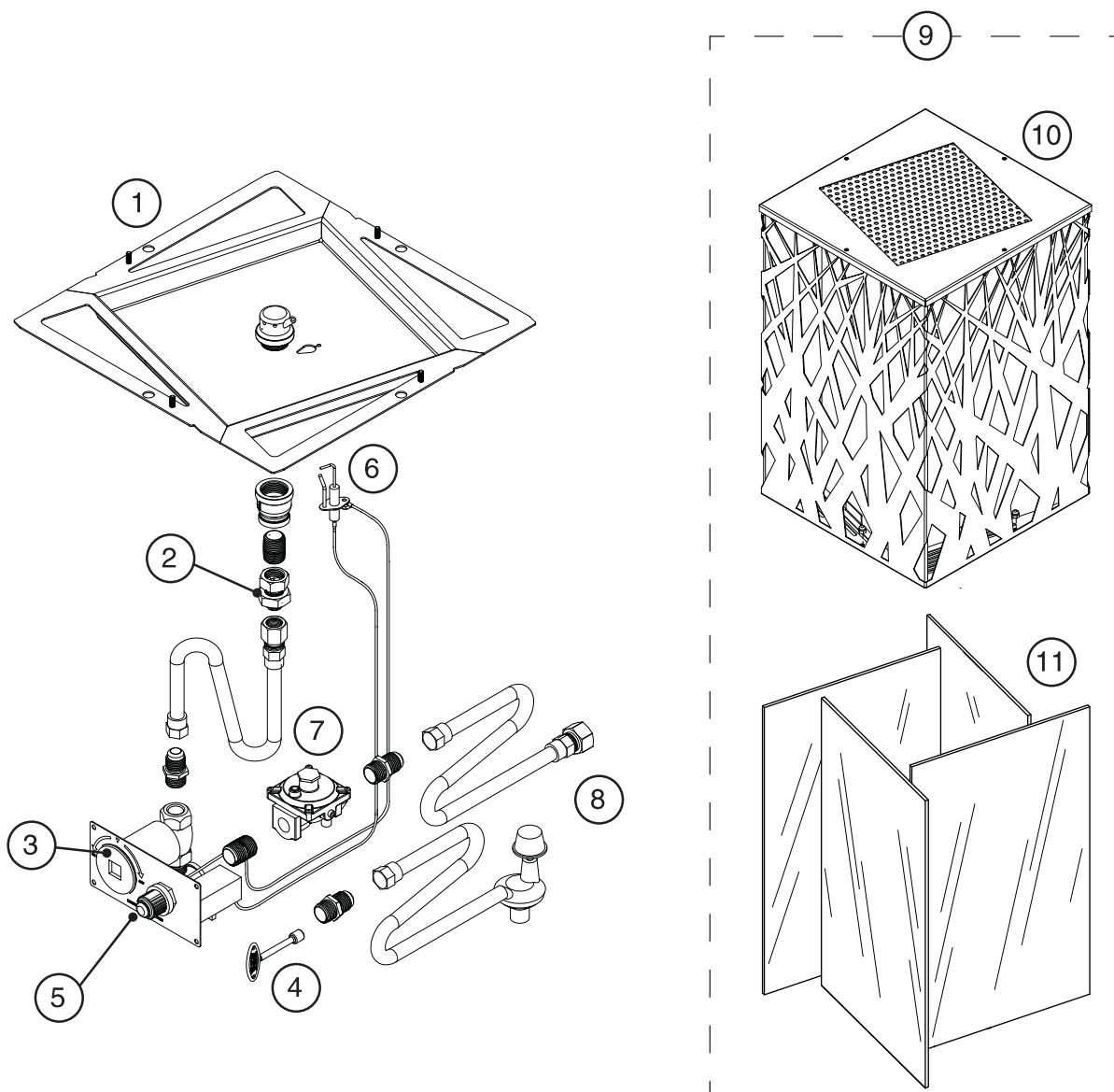
REPLACEMENT PARTS LIST - V1 MANUAL MODELS

Item	Description	Part No.	Qty.
1.	Burner pan assembly	715-101	1
2.	Orifice (Nat.)	AB-2-38	1
or	Orifice (L.P.)	AM-2-54	1
3.	Control valve and igniter assembly	AV-21	1
4.	Control knob (only)	KNOBS4	1
5.	Igniter module	OCR-34-21	1
6.	Igniter electrode	4732-061	1
7.	Pressure regulator (Nat. only)	PR-1NAT	1
8.	Flex connector (Nat. only)	3035	1
or	L.P. regulator and hose assembly (L.P. only)	5110-07	1
9.	Top assembly (stainless steel frame and glass panels)	715-04	1
10.	Stainless steel assembly (only)	715-02	1
11.	Glass panel (only)	715-03	4



PARTS LIST (cont.)**REPLACEMENT PARTS LIST - K1 MANUAL MODELS**

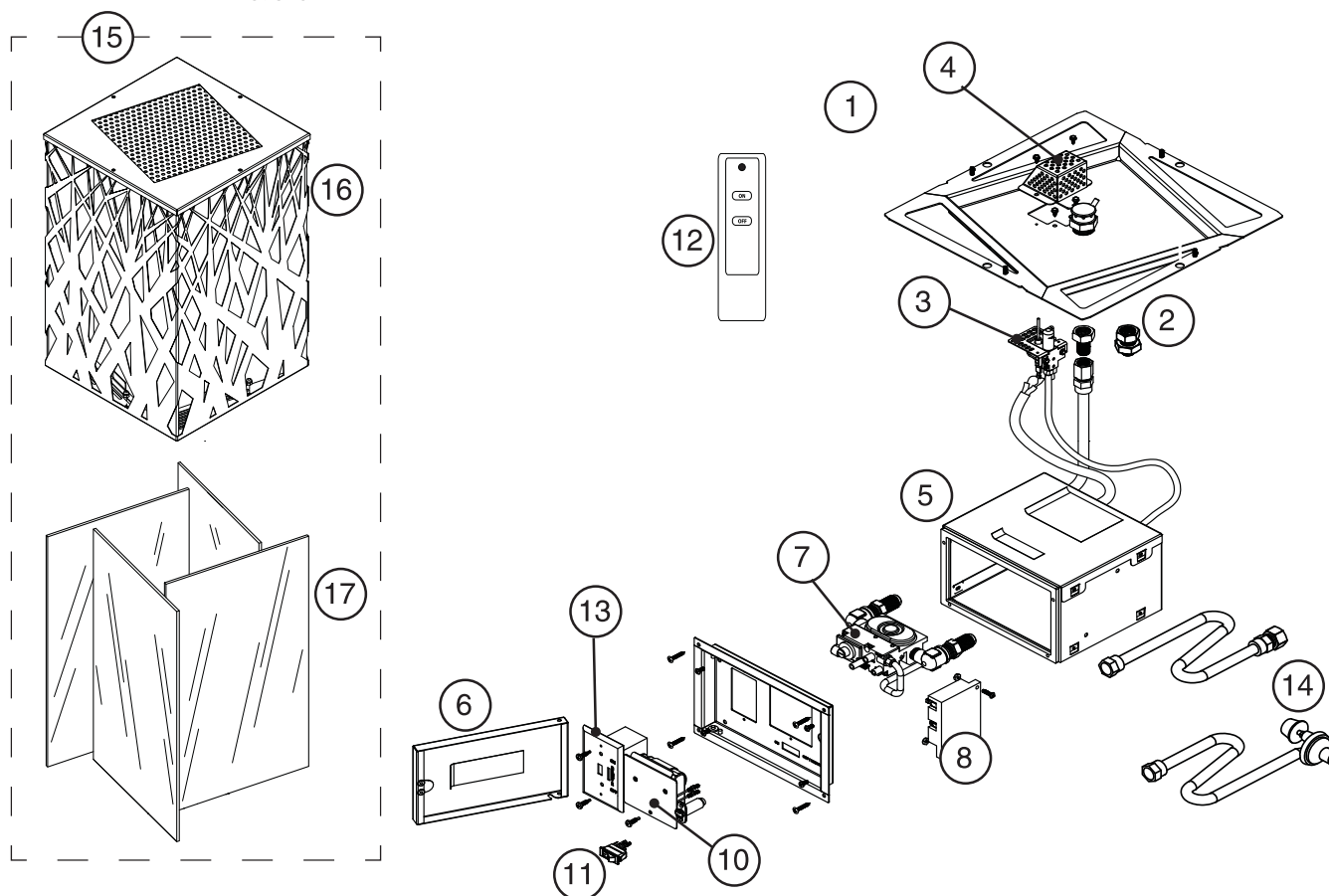
Item	Description	Part No.	Qty.
1.	Burner pan assembly	715-101	1
2.	Orifice (Nat.)	AB-2-40	1
or	Orifice (L.P.)	AM-2-54	1
3.	Key valve and igniter assembly	AV-30	1
4.	Key (only)	VK-1	1
5.	Igniter module	OCR-34-21	1
6.	Igniter electrode	4732-061	1
7.	Pressure regulator (Nat. only)	PR-4	1
8.	Flex connector (Nat. only)	3035	1
or	L.P. regulator and hose assembly (L.P. only)	5110-07	1
9.	Top assembly (stainless steel frame and glass panels)	715-04	1
10.	Stainless steel assembly (only)	715-02	1
11.	Glass panel (only)	715-03	4



PARTS LIST (cont.)**REPLACEMENT PARTS LIST - E1 REMOTE MODELS**

Item	Description	Part No.	Qty.																																																				
1.	Burner pan assembly	715-102	1																																																				
2.	Orifice (Nat.)	AB-2-40	1																																																				
or	Orifice (L.P.)	AM-2-53	1																																																				
3.	Pilot assembly	PAC-14	1																																																				
4.	Pilot screen	715-105	1																																																				
5.	Control box assembly	715-200	1																																																				
6.	Control box door	715-202	1 <tr> <td>7.</td><td>Valve (Nat.)</td><td>SV-45</td><td>1</td></tr> <tr> <td>or</td><td>Valve (L.P.)</td><td>SV-45P</td><td>1</td></tr> <tr> <td>8.</td><td>Module</td><td>IMP-1</td><td>1</td></tr> <tr> <td>9.</td><td>Wire harness*</td><td>WH-06</td><td>1</td></tr> <tr> <td>10.</td><td>Battery pack assembly</td><td>IMP-2</td><td>1</td></tr> <tr> <td>11.</td><td>Master switch</td><td>SW-11</td><td>1</td></tr> <tr> <td>12.</td><td>Remote transmitter (only)</td><td>AT-R1-1</td><td>1</td></tr> <tr> <td>13.</td><td>Remote kit (includes receiver, transmitter, batteries, plastic cover)</td><td>RR-1A</td><td>1</td></tr> <tr> <td>14.</td><td>Flex connector (Nat. only)</td><td>3035</td><td>1</td></tr> <tr> <td>or</td><td>L.P. regulator and hose assembly (L.P. only)</td><td>5110-07</td><td>1</td></tr> <tr> <td>15.</td><td>Top assembly (stainless steel frame and glass panels)</td><td>715-04</td><td>1</td></tr> <tr> <td>16.</td><td>Stainless steel assembly (only)</td><td>715-02</td><td>1</td></tr> <tr> <td>17.</td><td>Glass panel (only)</td><td>715-03</td><td>4</td></tr>	7.	Valve (Nat.)	SV-45	1	or	Valve (L.P.)	SV-45P	1	8.	Module	IMP-1	1	9.	Wire harness*	WH-06	1	10.	Battery pack assembly	IMP-2	1	11.	Master switch	SW-11	1	12.	Remote transmitter (only)	AT-R1-1	1	13.	Remote kit (includes receiver, transmitter, batteries, plastic cover)	RR-1A	1	14.	Flex connector (Nat. only)	3035	1	or	L.P. regulator and hose assembly (L.P. only)	5110-07	1	15.	Top assembly (stainless steel frame and glass panels)	715-04	1	16.	Stainless steel assembly (only)	715-02	1	17.	Glass panel (only)	715-03	4
7.	Valve (Nat.)	SV-45	1																																																				
or	Valve (L.P.)	SV-45P	1																																																				
8.	Module	IMP-1	1																																																				
9.	Wire harness*	WH-06	1																																																				
10.	Battery pack assembly	IMP-2	1																																																				
11.	Master switch	SW-11	1																																																				
12.	Remote transmitter (only)	AT-R1-1	1																																																				
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16.	Stainless steel assembly (only)	715-02	1																																																				
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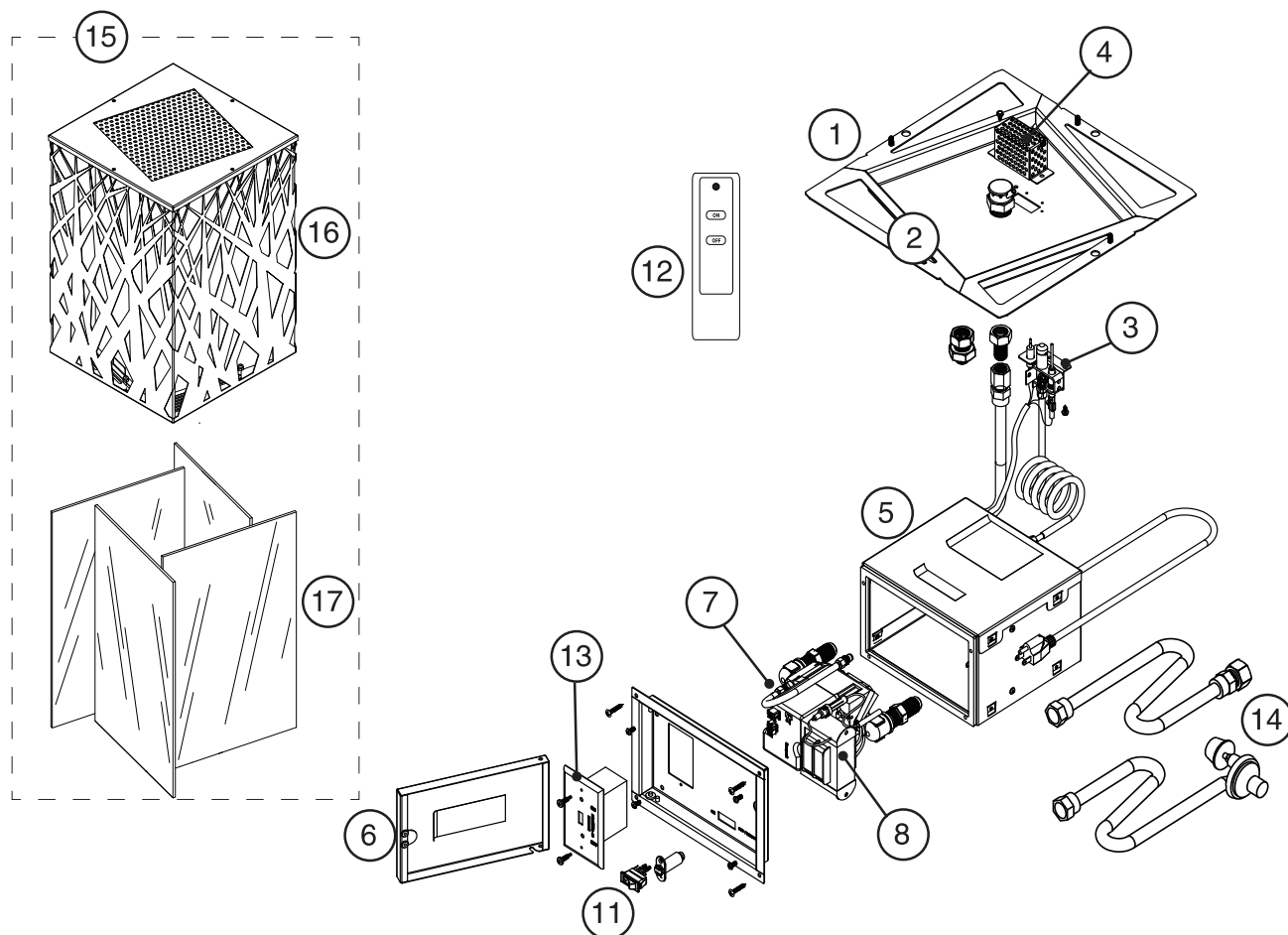
* Not shown



PARTS LIST (cont.)**REPLACEMENT PARTS LIST - S1 REMOTE MODELS**

Item	Description	Part No.	Qty.
1.	Burner pan assembly	715-103	1
2.	Orifice (Nat.)	AB-2-42	1
or	Orifice (L.P.)	AM-2-54	1
3.	Pilot assembly	PAC-13	1
4.	Pilot screen	715-104	1
5.	Control box assembly	715-201	1
6.	Control box door	715-202	1
7.	Valve (Nat.)	SV-44	1
or	Valve (L.P.)	SV-44P	1
8.	Transformer	TRN-01	1
9.	Wire harness*	WH-05	1
10.	Fuse*	24187-48	1
11.	Master switch	SW-11	1
12.	Remote transmitter (only)	AT-R1-1	1
13.	Remote kit (includes receiver, transmitter, batteries, plastic cover)	RR-1A	1
14.	Flex connector (Nat. only)	3035	1
or	L.P. regulator and hose assembly (L.P. only)	5110-07	1
15.	Top assembly (stainless steel frame and glass panels)	715-04	1
16.	Stainless steel assembly (only)	715-02	1
17.	Glass panel (only)	715-03	4

* Not shown



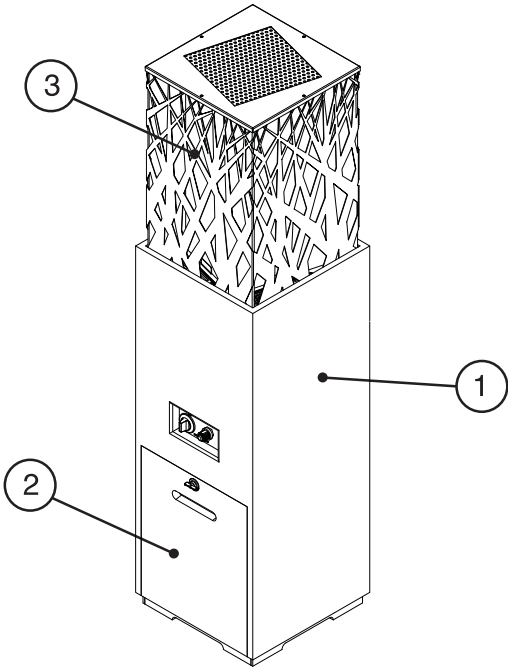
PARTS LIST (cont.)

IDENTIFICATION PARTS LIST

Item	Description	Qty.
1.	Complete enclosure assembly	1
2.	Base door	1
3.	Top assembly (stainless steel frame and glass panels)	1
4.	Acorn lock nut*	4

* Not shown

V1 model shown



IMPORTANT SAFETY INFORMATION

BE CAREFUL

If not installed and used correctly per these instructions, this product can cause serious injury.

CAUTION: Installation and maintenance must be done by an NFI Certified or other qualified professional service technician. Read these instructions before installing this unit. Be sure you understand all safety precautions and warnings contained in this manual.

A. FOR OUTDOOR USE ONLY.

B. When shutting the unit down—be sure to **TURN THE CONTROL VALVE FULLY OFF.**

C. WARNING: CARBON MONOXIDE POISONING MAY LEAD TO DEATH. DO NOT MODIFY THIS UNIT OR ITS CONTROLS, EXCEPT AS PROVIDED FOR IN THIS MANUAL. Any other change may be dangerous. Improper installation or use of the unit can cause serious injury or death from fire, burns, explosions, or carbon monoxide poisoning.

D. Check state and local codes to determine if the unit is permitted in your locality before installation.

E. The manual valve allows for an adjustable flame height. THESE SETTINGS MUST ALWAYS BE HIGH ENOUGH FOR THE FLAME TO BE CLEARLY VISIBLE. WHEN LIGHTING THE UNIT, ALWAYS LIGHT ON HIGH.

LANTERN INSTALLATION - OVERVIEW

BEFORE YOU BEGIN

Important: Prior to installation ensure that all specifications, dimensions, and minimum clearances stated in this manual are observed. You must read all warnings and safety information, and understand all of the information in this manual. All installation requirements must be observed and met.

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

- Confirm the installation site accommodates the unit per the requirements in this manual.
- Be sure the gas supply (propane or natural) is turned off at its source.
- Wear gloves and use extreme caution whenever installing and handling this product and its accessories as certain components have sharp edges that can cause personal injury.
- Remove all packing material (including any protective coatings) and discard prior to installation.

LOCATION

While following all requirements and safety information in this manual (see MINIMUM CLEARANCES TO COMBUSTIBLES section); determine and prepare the location of the unit (a hard and level surface).

Note: For lanterns, a combustible surface is permitted.

Important: The gas supply and electrical setup must be considered when determining the location of the unit. See GAS SUPPLY SETUP and ELECTRICAL SETUP section for details (if applicable).

**HANDLING OF THE UNIT REQUIRES TWO OR MORE PEOPLE.
EXERCISE EXTREME CARE DURING ASSEMBLY AND INSTALLATION.**

LANTERN INSTALLATION - BASE ASSEMBLY

GAS SUPPLY SETUP (if applicable)

For Natural or Household Propane Gas Supply:

The gas supply is to be brought up from beneath the unit near its center. Your individual installation may vary. **Observe the National Fuel Gas Code and all local codes.**

1. Route the gas supply into the area that the unit will rest over (see Fig. 18-1, A).

Note: The gas supply or another flex can also be routed through the side of the unit (through a ventilation opening at the floor).

Important: **Locate the gas supply line out of pathways where people may trip over it or in areas where the line may be subject to accidental damage (if applicable).**

Note: A shut-off valve (not included) in the gas line is required. It must be installed within 6 feet of unit. Use a pipe joint compound resistant to all gasses on all male fittings except flare fittings.

ELECTRICAL SETUP (if applicable)

A **120VAC (15 AMP minimum) GFCI GROUNDED 3-wire receptacle** (not included) is required within the vicinity of the lantern to provide power to the unit. The unit's power supply cord is located on the rear of the control box. Your individual installation may vary. **Observe the National Electric Code and all local codes.**

1. Wire the receptacle into the area that the unit will rest over (see Fig 18-1, B).
 - **Verify proper polarity of the receptacle.**
 - **If an extension cord is used, ensure it is a 3-wire GROUNDED cord that is rated for the power of the equipment, and is approved for outdoor use with a W-A marking. DO NOT use 2-prong adapters.**
 - **DO NOT TAMPER WITH THE EXTENSION CORD OR THE UNIT POWER-SUPPLY CORD.**

Installation continued on next page

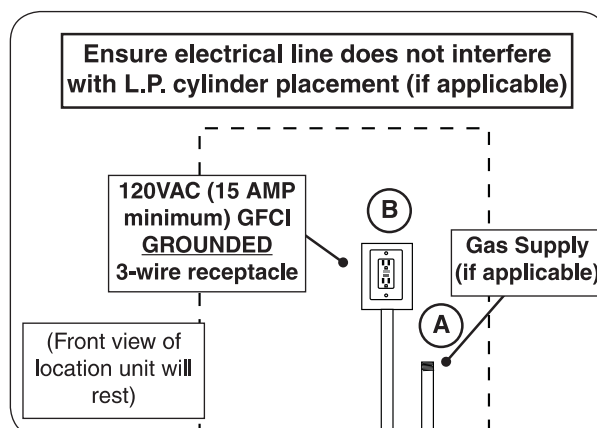


Fig. 18-1 Route gas and electrical (receptacle)

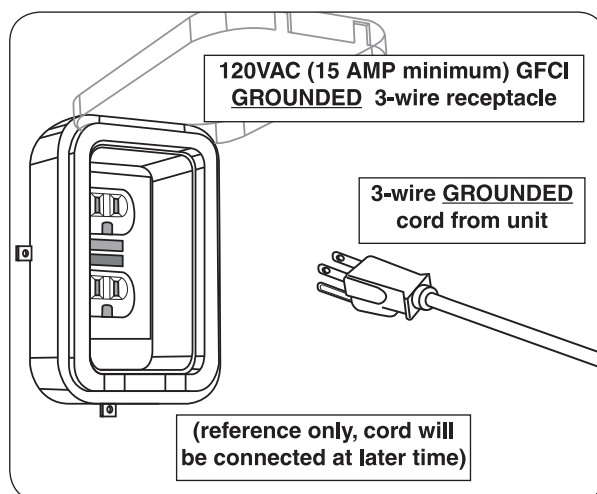


Fig. 18-2 Electrical setup detail

LANTERN INSTALLATION - BASE ASSEMBLY

PLACE BASE

CAREFULLY place the base in an appropriate location (see Fig. 19-1, and refer back to the LOCATION section if needed).

MOUNT BASE

CAUTION: The lantern base MUST be mounted to the installation site floor. Failure to do so can cause property damage, personal injury, and/or damage to the unit.

1. Remove the storage door by first turning the door handle counter-clockwise, then carefully pulling the door outward (see Fig. 19-2). Store in a safe location.
2. Using appropriate mounting hardware for the floor material/construction, secure the lantern base into the floor. The interior of the base has four $1\frac{1}{2}$ " holes that will allow for the base to be fastened to the floor. See Fig. 19-3.

Important: **DO NOT** overtighten (to avoid damage to the unit).

Installation continued on next page

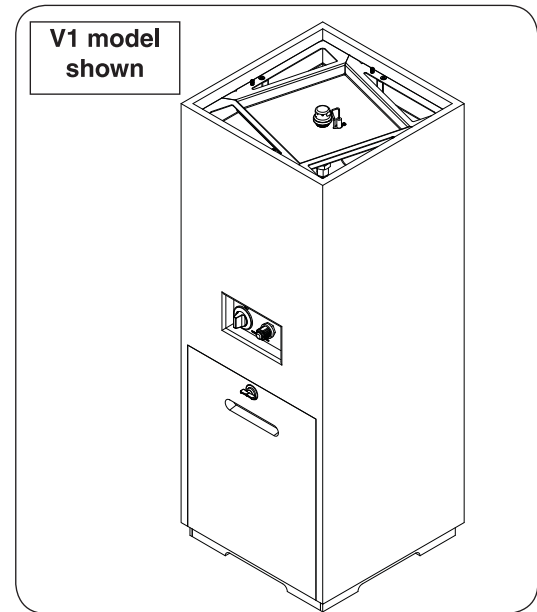


Fig. 19-1 Place base

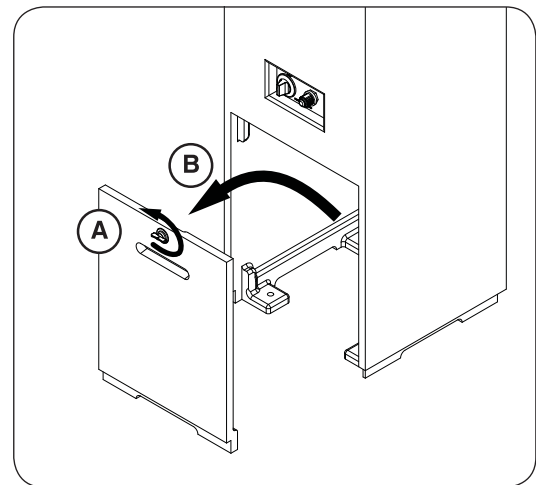


Fig. 19-2 Remove door

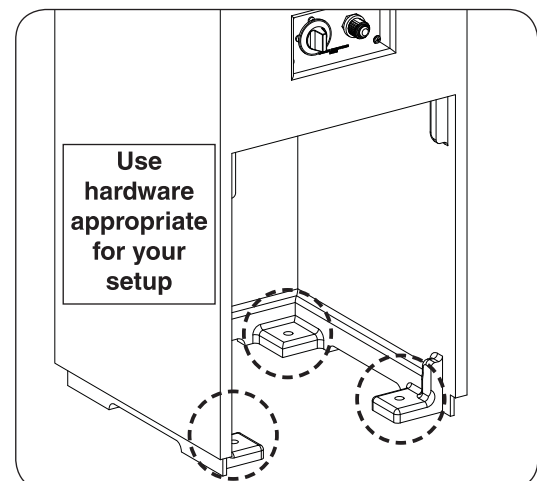


Fig. 19-3 Mount base to floor

LANTERN INSTALLATION - BASE ASSEMBLY (cont.)

CONNECT GAS SUPPLY

Important: Before installation, be sure the gas supply (propane or natural) is turned off at its source.

To Connect To a Propane Cylinder:

1. Locate the regulator hose assembly that is already installed on the rear of the valve assembly.
2. Attach the regulator end of the hose assembly to a propane cylinder (not included) and tighten (see Fig. 20-1).
3. The propane cylinder (not included) is to be located inside the base of the unit, via the storage door opening (see Fig. 20-2).

To Connect To Natural or Household Propane Gas Supply:

1. Locate the flex connector (marked IN) that is coming off the valve assembly.
2. Locate the gas supply that is beneath the unit (previously routed at beginning of installation).
3. A shut-off valve is required within 6 feet of the unit.

If shut-off valve is connected to end of gas supply stub:

- Connect the flex connector to the shut-off valve (see Fig. 20-3). Tighten securely.

If shut-off valve is installed in-line:

- Install the supplied flare adapter to the gas supply using a pipe joint compound resistant to all gasses (see Fig. 20-3). Tighten securely.
- Connect the flex connector to the flare adapter (see Fig. 20-3). Tighten securely.

LEAK TEST

Turn on the gas supply, and test at all connections for leaks using a soapy water solution. If bubbles appear, a leak is present. Turn off the gas and tighten at all connections. Repeat until no leaks are present. If a leak persists, turn off the gas supply and contact the local gas company or dealer. **NEVER USE A FLAME TO CHECK FOR LEAKS.**

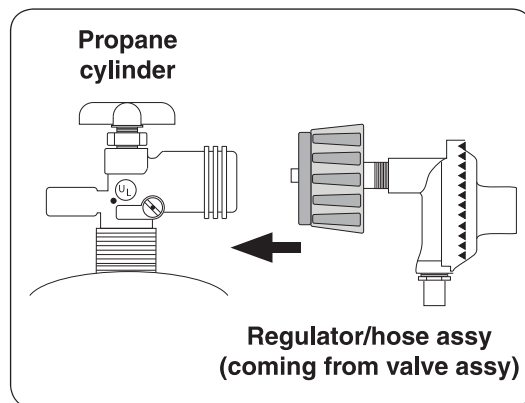


Fig. 20-1 Connecting to an L.P. cylinder



Fig. 20-2 L.P. Cylinder placement

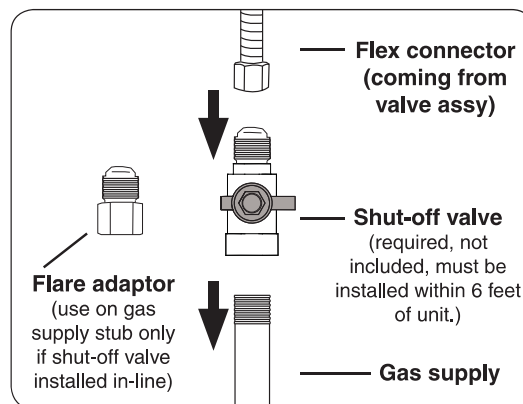


Fig. 20-3 Connecting to a gas line

LANTERN INSTALLATION - BASE ASSEMBLY (cont.)**CONNECT POWER SUPPLY CORD (if applicable)**

Route the power supply cord (coming from control box) down to the previously wired **120VAC (15 AMP minimum) GFCI GROUNDED 3-wire receptacle** and connect (see Fig. 21-1).

INSTALL BATTERIES (if applicable)

At this stage the burner system batteries are to be installed. Reference the BATTERY INSTALLATION/REPLACEMENT section for details.

LIGHTING TEST

Prior to proceeding with installation, perform a lighting test (see lighting instructions for lighting your burner).

REPLACE STORAGE DOOR

Replace the storage door (that was previously removed during the base mounting section). Ensure the door is secure in place (see Fig. 21-2).

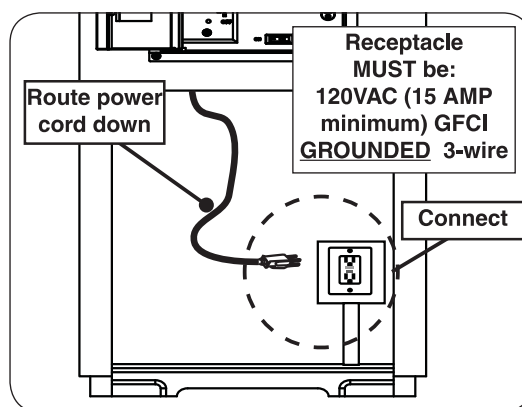


Fig. 21-1 Route and connect power supply cord

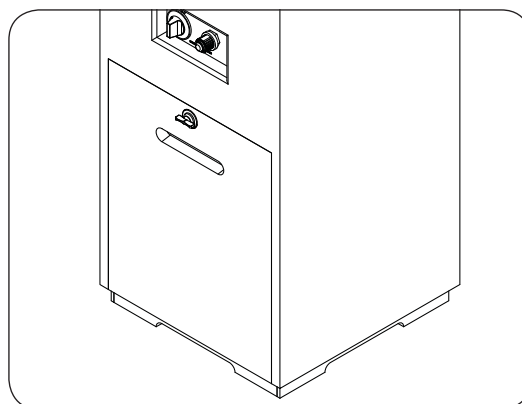


Fig. 21-2 Replace storage door

GLASS MEDIA PLACEMENT

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

CAUTION: Be sure the unit and the glass media are completely cool anytime the media is handled. **Wear gloves whenever installing and handling as certain media may have sharp edges that can cause personal injury.**

This unit has several options for glass media. The glass media is purchased and packaged separately. Contact your local American Fyre Designs dealer for ordering information.

The recommended amount of glass media is 6 lbs.

Important: FOR ALL MODELS, NUGGETS CANNOT BE USED. FOR V/K1 MODELS, REFLECTIVE GLASS CANNOT BE USED.

Pour the glass media (glass/gems) evenly into the burner pan (see Fig. 22-1 and Fig. 22-2 or 22-3).

Important: DO NOT overfill the burner pan. Follow the requirements below and store any excess media in a safe location.

Requirements when placing glass media:

- Form a mound of glass that peaks just above the burner and levels off at the sides of the burner pan.
- **DO NOT** exceed a height of 1/4" above the burner when placing glass media.
- **Keep the pilot screen (or electrode, flash tube, and inside of the flash tube) clear of glass media and any other items / debris at all times. This will allow for proper ignition and operation. DO NOT COVER.** See Fig. 22-2 or Fig. 22-3.

Glass shown

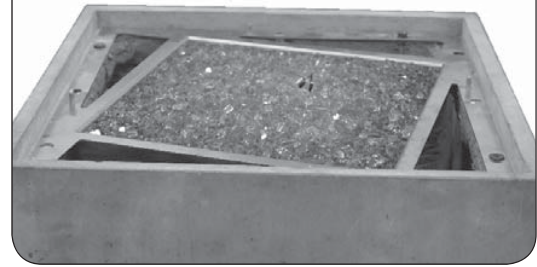


Fig. 22-1 Glass placement

Keep electrode, flash tube, & inside of tube clear as shown at all times!

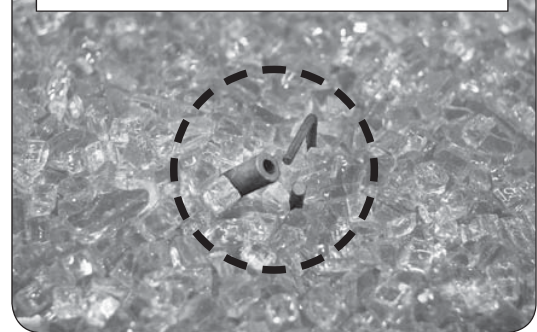


Fig. 22-2 Required clearance-V/K-1 models

Keep pilot screen clear as shown at all times!

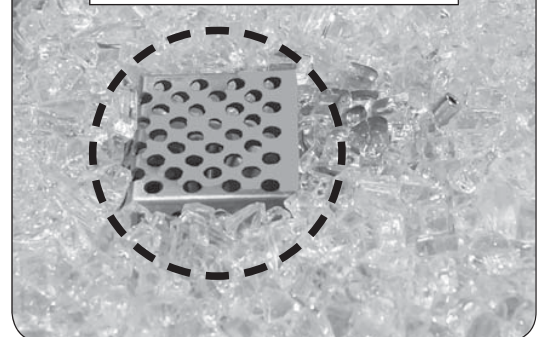


Fig. 22-3 Required clearance-E/S-1 models

LANTERN INSTALLATION - TOP ASSEMBLY

INSTALL TOP ASSEMBLY

CAUTION: Wear gloves whenever installing and handling as top assembly has sharp edges that can cause personal injury.

1. The top assembly is pre-assembled at the factory. **CAREFULLY** place the top assembly onto the lantern base. See Fig. 23-1.

Important: Ensure the top assembly aligns onto the four studs found on the base burner pan.

2. Using a $\frac{3}{8}$ " socket driver and the four acorn lock nuts provided, fasten the top assembly to the lantern base as shown in Fig. 23-2.

Important: **DO NOT** overtighten (to avoid stripping the nuts).

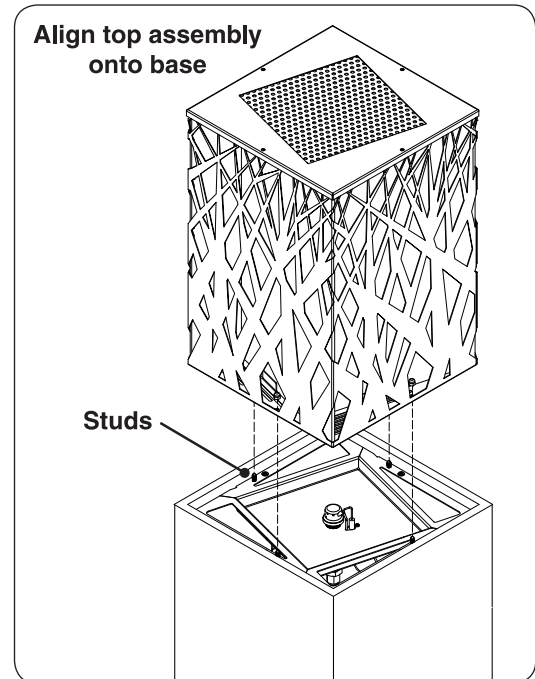


Fig. 23-1 Place top assembly

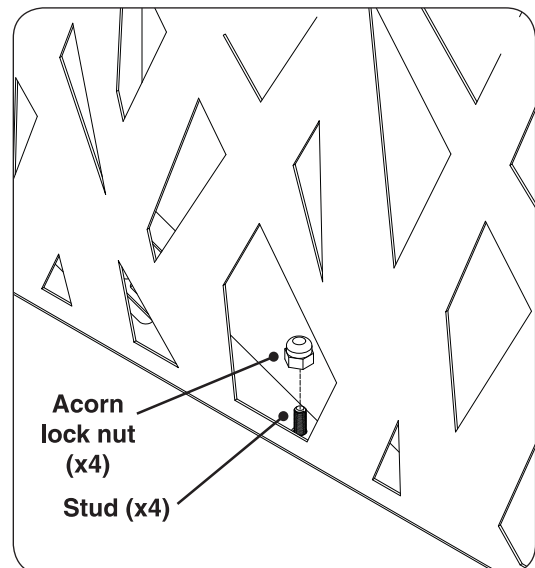


Fig. 23-2 Fasten top assembly to base

OPTIONAL COVER

OPTIONAL FABRIC COVER

An optional fabric cover is available to protect your unit when not in use. Contact your local dealer for ordering information.

To install, allow the unit to cool completely, open the zipper on the cover, then place the cover over the unit with the American Fyre Designs logo facing forward. Close the zipper on the cover. See Fig. 24-1.

Follow all instructions provided with the fabric cover.

Remove cover before use.



Fig. 24-1 Cover placement

LIGHTING INSTRUCTIONS - V1 CONTROL KNOB MODELS

FOR YOUR SAFETY, READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.

- A. BEFORE LIGHTING**, smell all around the unit area for gas. Be sure to smell next to the floor, because some gas is heavier than air and will settle on the floor.
- B. WHAT TO DO IF YOU SMELL GAS**
 - 1. Shut off the gas to the appliance.
 - 2. Extinguish any open flame.
 - 3. If odor continues, immediately call your gas supplier or the fire department.
- C.** Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, **DO NOT** try to repair it. Call a qualified professional service technician. Force or attempted repair may result in fire or explosion.

- 1. **STOP!** Read the safety information above.
- 2. Ensure the gas control knob is in the **OFF** position before beginning lighting sequence.
- 3. Press and hold the electronic igniter button (see Fig. 25-1). The igniter will begin to spark with a rapid clicking sound.
- 4. **While holding the igniter button in, verify that the electrode spark is grounding to the flash tube**, then depress the gas control knob and **gradually** turn it counter-clockwise to the **HI LIGHT** position (see Fig. 25-2). Your burner should light.

Note: Ideal flame pattern will be achieved within 5-10 minutes of operation.

WARNING: If the burner fails to light within 5 seconds, immediately depress the control knob and turn clockwise to the OFF position.

Wait approximately five (5) minutes to clear out any gas, and repeat steps 3-4 above.

If your burner fails to light again, depress the control knob and turn clockwise to the OFF position and contact your dealer or gas supplier.

Note: The flame height can be adjusted via the control knob.

TO SHUT OFF GAS TO THE APPLIANCE

To extinguish your gas burner, depress the gas control knob and turn it clockwise to the **OFF** position (see Fig. 25-2). Be sure the control knob is turned fully off to avoid any gas leakage.

Igniter button

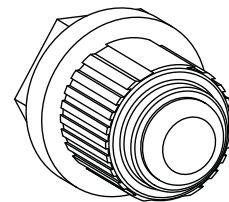


Fig. 25-1

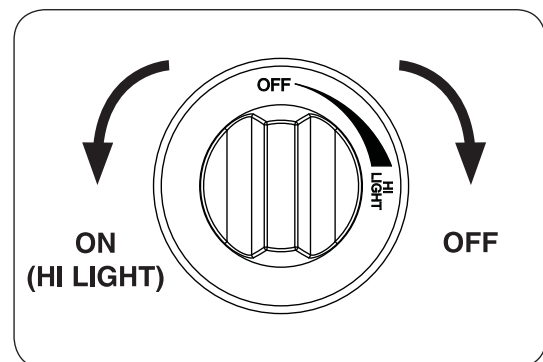


Fig. 25-2

INSTRUCTIONS D'ALLUMAGE - V1 MODÈLES DE BOUTONS DE CONTRÔLE

POUR VOTRE SÉCURITÉ, LIRE AVANT D'ALLUMER

AVERTISSEMENT: S'IL VOUS NE SUIVEZ PAS CES INSTRUCTIONS À LA LETTRE, UN INCENDIE OU UNE EXPLOSION POURRAIENT S'ENSUIVRE, CAUSANT DES DOMMAGES MATÉRIELS, DES BLESSURES OU DES PERTES DE VIE.

- A. AVANT D'ALLUMER**, sentez tout autour de l'unité de surface pour le gaz. Assurez-vous de sentir près du plancher, car certains gaz sont plus lourds que l'air et se déposent sur le sol.
- B. QUE FAIRE SI UNE ODEUR DE GAZ**
1. Coupez le gaz à l'appareil.
 2. Éteindre toute flamme nue.
 3. Si l'odeur persiste, appelez immédiatement votre fournisseur de gaz ou le service des incendies.
- C.** N'utilisez que votre main pour enfoncer ou tourner le bouton de contrôle du gaz. Ne jamais utiliser d'outils. Si le bouton ne sera pas enfoncer ou à tourner à la main, NE PAS essayer de le réparer. Appelez un technicien de service qualifié. Force ou une tentative de réparation pourrait provoquer un incendie ou une explosion.

1. **ARRÊT!** Lire les consignes de sécurité ci-dessus.
2. S'assurer que le bouton de contrôle du gaz est en position **OFF (éteindre)** avant de séquence d'éclairage à partir la position.
3. Appuyez et maintenez enfoncé le bouton d'allumage électronique (voir Fig. 26-1). L'allumeur commence à susciter un déclic rapide.
4. **Tout en maintenant le bouton d'allumage dans, vérifiez que l'étincelle de l'électrode est terre à tube éclair**, puis appuyez sur le bouton de contrôle du gaz et tourner **progressivement** dans le sens antihoraire à la position de **HI LIGHT (allumer)** (voir Fig. 26-2). Votre brûleur devrait s'allumer.

Note: Modèle idéal de la flamme sera réalisé dans les 5-10 minutes de fonctionnement.

AVERTISSEMENT: Si le brûleur ne s'allume pas dans les 5 secondes, appuyez immédiatement sur le bouton de commande et tournez dans le sens horaire à la position OFF (éteindre).

Attendez environ cinq (5) minutes pour laisser échapper tout le gaz, et répétez les étapes 3-4 ci-dessus.

Si votre brûleur ne s'allume pas, appuyer sur le bouton de commande et tournez dans le sens horaire à la position OFF (éteindre) et contactez votre revendeur ou fournisseur de gaz.

Note: La hauteur de flamme est réglable via le bouton de commande.

POUR ARRÊTER LE GAZ À L'APPAREIL

Pour éteindre le brûleur à gaz, appuyer sur le bouton de contrôle du gaz et tourner dans le sens horaire à la position **OFF (éteindre)** (voir Fig. 26-2). Assurez-vous que le bouton de commande est tourné complètement hors tension pour éviter toute fuite de gaz.

Bouton d'allumage

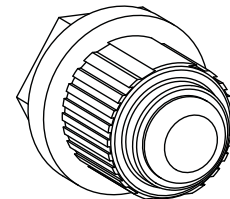


Fig. 26-1

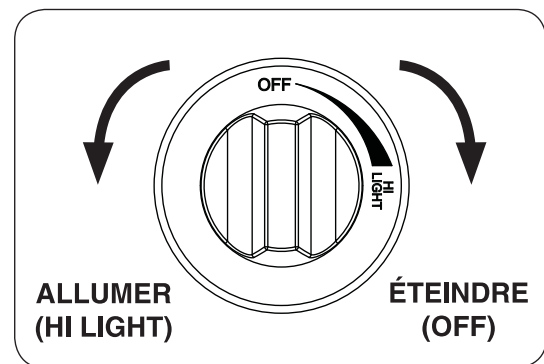


Fig. 26-2

LIGHTING INSTRUCTIONS - K1 KEY VALVE MODELS

FOR YOUR SAFETY, READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.

- A. BEFORE LIGHTING**, smell all around the unit area for gas. Be sure to smell next to the floor, because some gas is heavier than air and will settle on the floor.
- B. WHAT TO DO IF YOU SMELL GAS**
 1. Shut off the gas to the appliance.
 2. Extinguish any open flame.
 3. If odor continues, immediately call your gas supplier or the fire department.
- C.** Use only a proper key to turn the gas line valve. Never use tools. If the valve will not turn, **DO NOT** try to repair it. Call a qualified professional service technician. Force or attempted repair may result in fire or explosion.

1. **STOP!** Read the safety information above.
2. Ensure the key valve is completely in the **OFF** position before beginning lighting sequence.
3. Press and hold the electronic igniter button (see Fig. 27-1). The igniter will begin to spark with a rapid clicking sound.
4. **While holding the igniter button in, verify that the electrode spark is grounding to the flash tube, then gradually** turn the key valve counter-clockwise a $\frac{1}{4}$ turn to the **ON** position (see Fig. 27-2). Your burner should light.

Note: Ideal flame pattern will be achieved within 5-10 minutes of operation.

WARNING: If the burner fails to light within (5) seconds, of turning on the key valve, immediately turn the key valve clockwise a $\frac{1}{4}$ turn to the OFF position.

Wait approximately five (5) minutes to clear out any gas, and repeat steps 3-4 above.

If your burner fails to light again, turn the key valve clockwise a $\frac{1}{4}$ turn to the OFF position until it no longer rotates and contact your dealer or gas supplier.

Note: The flame height can be adjusted via the key valve.

TO SHUT OFF GAS TO THE APPLIANCE

To extinguish your gas burner, turn the key valve clockwise a $\frac{1}{4}$ turn to the **OFF** position (see Fig. 27-2). Be sure the control knob is turned fully off to avoid any gas leakage.

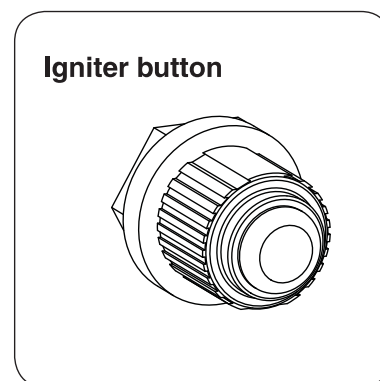
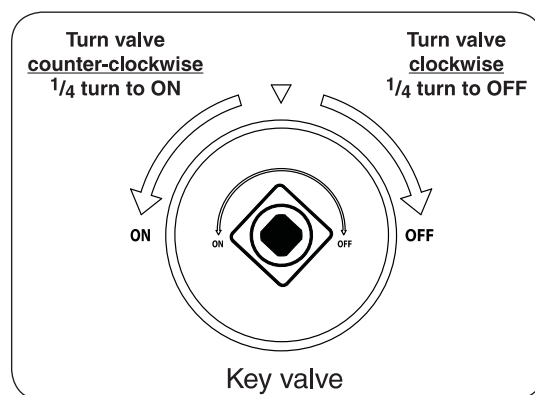


Fig. 27-1



Key valve

Fig. 27-2

INSTRUCTIONS D'ALLUMAGE - K1 MODÈLE DE VANNE CLÉ

POUR VOTRE SÉCURITÉ, LIRE AVANT D'ALLUMER

AVERTISSEMENT: SI VOUS NE SUIVEZ PAS CES INSTRUCTIONS À LA LETTRE, UN INCENDIE OU UNE EXPLOSION POURRAIENT S'ENSUIVRE, CAUSANT DES DOMMAGES MATÉRIELS, DES BLESSURES OU DES PERTES DE VIE.

- A. AVANT D'ALLUMER**, sentez tout autour de l'unité de surface pour le gaz. Assurez-vous de sentir près du plancher, car certains gaz sont plus lourds que l'air et se déposent sur le sol.
- B. QUE FAIRE SI UNE ODEUR DE GAZ**
 - 1. Coupez le gaz à l'appareil.
 - 2. Éteindre toute flamme nue.
 - 3. Si l'odeur persiste, appelez immédiatement votre fournisseur de gaz ou le service des incendies.
- C.** Utilisez uniquement une clé propre à tourner la vanne de la conduite de gaz. Ne jamais utiliser d'outils. Si la vanne ne tourne pas, NE PAS essayer de le réparer. Appelez un technicien de service qualifié. Force ou une tentative de réparation pourrait provoquer un incendie ou une explosion.

- 1. **ARRÊT!** Lire les consignes de sécurité ci-dessus.
- 2. S'assurer que le robinet est complètement clé en position **OFF (ÉTEINDRE)** avant de séquence d'éclairage à partir.
- 3. Appuyez et maintenez enfoncé le bouton d'allumage électronique (voir Fig. 28-1). L'allumeur commence à susciter un déclic rapide.
- 4. **Tout en maintenant le bouton d'allumage dans, vérifiez que l'étincelle de l'électrode est mise à la terre sur le tube de flash, puis tourner progressivement la vanne clé contre-sens horaire un virage sur la position ON (allumer) 1/4 (voir Fig. 28-2). Votre graveur doit allumer.**

Note: Modèle idéal de la flamme sera réalisé dans les 5-10 minutes de fonctionnement.

AVERTISSEMENT: Si le brûleur ne s'allume dans les (5) secondes, de tourner sur la vanne clé, la tourner immédiatement la vanne clé en sens horaire d'un tour à la position OFF (ÉTEINDRE) 1/4.

Attendez environ cinq (5) minutes pour laisser échapper tout le gaz, et répétez les étapes 3-4 ci-dessus.

Si votre graveur ne parvient pas à rallumer, tournez la vanne clé en sens horaire de 1/4 de tour à la position **OFF (ÉTEINDRE)** jusqu'à ce qu'il ne tourne plus et contactez votre revendeur ou fournisseur de gaz.

Note: La hauteur des flammes peut être réglée par la vanne clé.

POUR ARRÊTER LE GAZ À L'APPAREIL

Pour éteindre votre brûleur à gaz, tournez la vanne clé en sens horaire d'un tour à la position **OFF (ÉTEINDRE)** 1/4 (voir Fig. 28-2). Assurez-vous que le bouton de commande est tourné à fond au large pour éviter toute fuite de gaz.

Bouton d'allumage

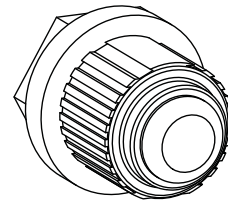


Fig. 28-1

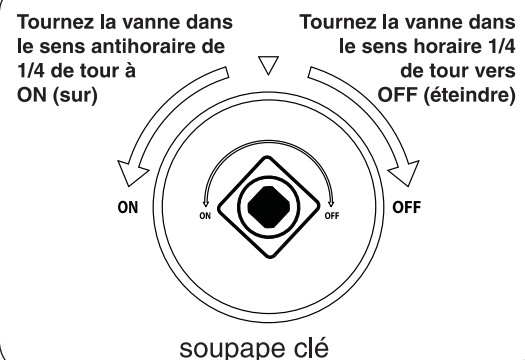


Fig. 28-2

LIGHTING INSTRUCTIONS - E1 / S1 REMOTE MODELS**FOR YOUR SAFETY, READ BEFORE LIGHTING**

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A.** This appliance is equipped with an ignition device that automatically lights the pilot. **DO NOT** attempt to light the pilot by hand.
- B. BEFORE LIGHTING**, smell all around the unit area for gas. Be sure to smell next to the floor, because some gas is heavier than air and will settle on the floor.
- C. WHAT TO DO IF YOU SMELL GAS**
 1. Shut off the gas to the appliance.
 2. Extinguish any open flame.
 3. If odor continues, immediately call your gas supplier or the fire department.
- D.** Use only your hand to push in or move the controls. Never use tools. If the control will not push in or move by hand, **DO NOT** try to repair it. Call a qualified professional service technician. Force or attempted repair may result in fire or explosion.

REMOTE LIGHTING

CAUTION: DO NOT attempt to light the pilot by hand.

Note: If the remote does not function, and batteries with an adequate power level are installed, refer to the SYNCING THE REMOTE section.

Note: Steps 1-2 may not be required if previously done during an earlier lighting.

1. Ensure the master switch is in the **OFF/REMOTE** position (see Fig. 29-1).
2. Locate the 3-position switch on the remote receiver (see Fig. 29-1), and slide the switch to the **REMOTE** position.
3. Locate the remote transmitter and press the **ON** button (see Fig. 29-2). The ignition sequence will begin.

The remote receiver will emit an audible "beep"; then the ignition sequence will begin. After the pilot lights and is established, the valve will automatically open and the burner will light.

Note: The ignition sequence will take approximately 10 seconds.

WARNING: If the burner fails to light within 10 seconds, press the **OFF** button on the remote transmitter and/or slide the remote receiver switch to the **OFF** position. Allow five (5) minutes for any gas in the unit to dissipate, then repeat steps 1-3 above. **IF YOU SMELL GAS, SEE STEP B ABOVE.**

If the pilot fails to light after several tries, turn all control/remote system components to **OFF** and refer to the TROUBLESHOOTING section for further details.

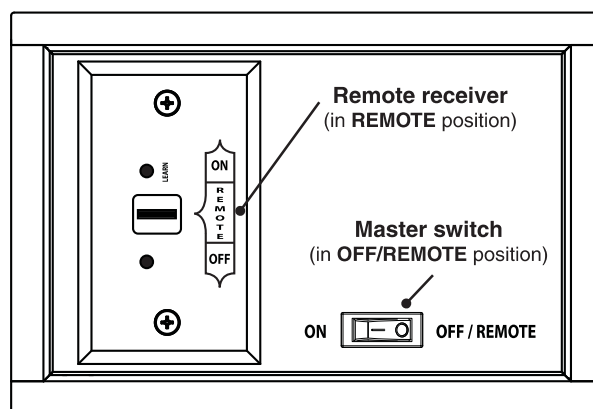


Fig. 29-1 Control panel detail

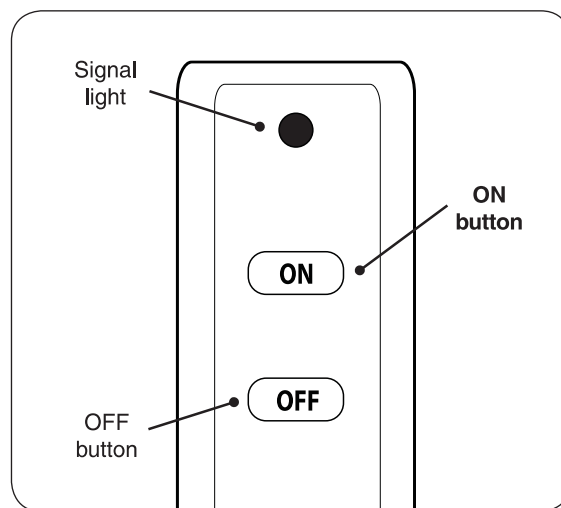


Fig. 29-2 Remote transmitter detail

INSTRUCTIONS D'ALLUMAGE - E1 / S1 DISTANCE MODÈLES

POUR VOTRE SÉCURITÉ, LISEZ AVANT D'ALLUMER

AVERTISSEMENT: Si vous ne suivez pas ces instructions à la lettre, un incendie ou une explosion entraînant des dommages matériels, des blessures ou des pertes de vie.

- A.** Cet appareil est équipé d'un dispositif d'allumage qui allume automatiquement la veilleuse. NE PAS essayer d'allumer la veilleuse à la main.
- B. AVANT L'ALLUMAGE,** sentez autour de l'unité de surface pour le gaz. Soyez sûr de sentir près du plancher, car certains gaz sont plus lourds que l'air et se déposent sur le sol.
- C. QUE FAIRE SI UNE ODEUR DE GAZ**
 1. Couper le gaz de l'appareil.
 2. Éteindre toute flamme nue.
 3. Si l'odeur persiste, appelez immédiatement votre fournisseur de gaz ou le service d'incendie.
- D.** Utilisez seulement votre main pour pousser ou déplacer les commandes. Ne jamais utiliser des outils. Si la commande ne sera pas à enfoncer ou à déplacer à la main, **NE PAS** essayer de le réparer. Appelez un technicien de service professionnel qualifié. La force ou la tentative de réparation pourrait provoquer un incendie ou une explosion.

DISTANCE DE L'ÉCLAIRAGE

ATTENTION: NE PAS essayer d'allumer la veilleuse manuellement.

Note: Si la télécommande ne fonctionne pas, et des batteries avec un niveau de puissance adéquate sont installés, se référer à la section synchronisation des REMOTE.

Note: Les étapes 1 et 2 ne peuvent être tenus si elle a déjà fait au cours d'un éclairage plus tôt.

1. Vérifiez que l'interrupteur principal est en position **OFF/REMOTE** (éteindre/éloigné) (voir Fig. 30-1).
2. Repérez l'interrupteur à 3 positions sur le récepteur de télécommande (voir Fig. 30-1), Et faites glisser l'interrupteur à la position **REMOTE**(éloigné).
3. Localisez la télécommande et appuyez sur la touche **ON** (sur) (voir Fig. 30-2). La séquence d'allumage commence.

Le récepteur de télécommande émet un "bip" sonore; et la séquence d'allumage commencera. Après les feux de pilotes et est établie, la vanne se ouvre automatiquement et le brûleur se allume.

Note: La séquence d'allumage prendra environ 10 secondes.

AVERTISSEMENT: Si le brûleur ne se allume pas dans les 10 secondes, appuyez sur le bouton OFF de la télécommande et / ou faites glisser le commutateur à la position OFF. Autoriser cinq (5) minutes pour tout gaz dans l'unité à se dissiper, puis répétez les étapes 1 et 2 ci-dessus. SI VOUS UNE ODEUR DE GAZ, voir l'étape B ci-dessus.

Si le pilote ne parvient pas à allumer après plusieurs essais, tournez tout contrôle / composants du système à distance sur **OFF** et se référer à la section dépannage pour plus de détails.

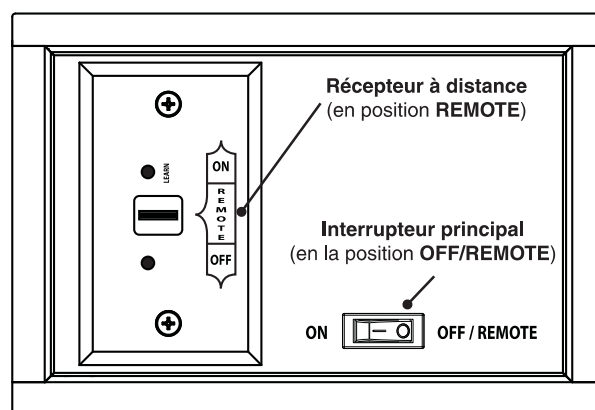


Fig. 30-1 Contrôle détail du panneau

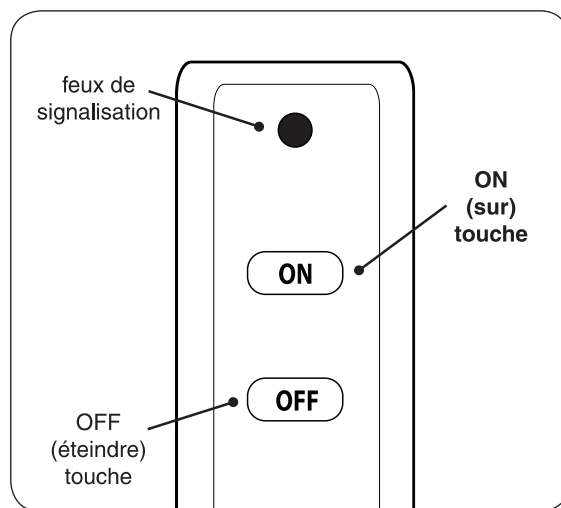


Fig. 30-2 Détail télécommande

LIGHTING INSTRUCTIONS - E1 / S1 REMOTE MODELS (cont.)**MANUAL LIGHTING**

CAUTION: DO NOT attempt to light the pilot by hand.

1. Ensure the master switch is in the **OFF/REMOTE** position (see Fig. 31-1).
2. Locate the 3-position switch on the remote receiver (see Fig. 31-1), and slide the switch to the **ON** position. The remote receiver will emit an audible "beep"; then the ignition sequence will begin. After the pilot lights and is established, the valve will automatically open and the burner will light.

Note: The ignition sequence will take approximately 10 seconds.

WARNING: If the burner fails to light within 10 seconds, slide the remote receiver switch to the **OFF** position. Allow five (5) minutes for any gas in the unit to dissipate, then repeat steps 1-2 above. **IF YOU SMELL GAS, SEE STEP B AT BEGINNING OF LIGHTING INSTRUCTIONS.**

If the pilot fails to light after several tries, turn the system **OFF** and contact a qualified professional service technician.

Note: In manual mode, the remote transmitter will not operate the burner system.

SHUTTING DOWN

For remote shut down, press the **OFF** button on the remote transmitter.

If remote is unavailable, slide the switch on the remote receiver to the **OFF** position.

MASTER SWITCH

The master switch should remain in the **OFF/REMOTE** position to allow for remote system operation (see Fig. 31-1).

In the event the remote system batteries are dead (or if the system is not functioning) the master switch can be used to turn the burner on and off.

PILOT APPEARANCE

Periodically check the pilot for proper flame pattern. The pilot should be a steady flame, encircling the flame sensor. It is preset at the factory (see Fig. 31-2).

If the pilot flame burns incorrectly: shut down completely and refer to TROUBLESHOOTING section for further details.

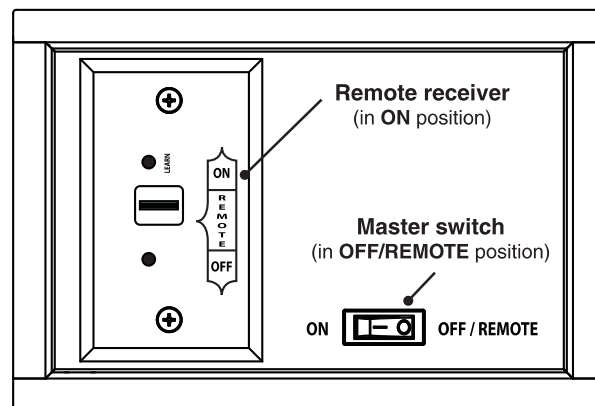


Fig. 31-1 Control panel detail

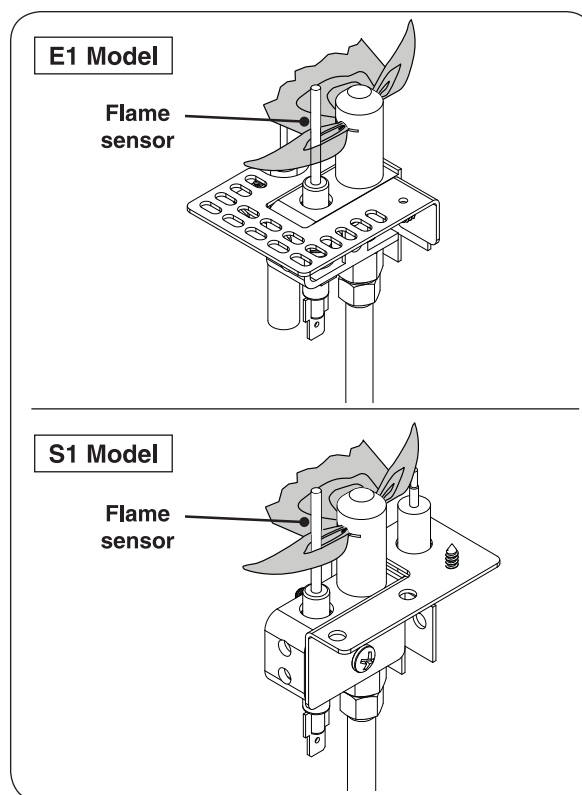


Fig. 31-2 Proper pilot flame

INSTRUCTIONS D'ALLUMAGE - E1 / S1 DISTANCE MODÈLES (cont.)

ÉCLAIRAGE MANUEL

ATTENTION: NE PAS essayer d'allumer la veilleuse à la main.

1. Vérifiez que l'interrupteur principal est en position **OFF/REMOTE** (éteindre/éloigné) (voir Fig. 32-1).
2. Repérez l'interrupteur à 3 positions sur le récepteur de télécommande (voir Fig. 32-1), Et faites glisser le commutateur en position **ON** (sur).

Le récepteur de télécommande émet un "bip" sonore; puis l'allumeur commence à susciter. Après les feux de pilotes et est établie, la vanne se ouvre automatiquement et le brûleur se allume.

Note: La séquence d'allumage prendra environ 10 secondes.

AVERTISSEMENT: Si le brûleur ne parvient pas à allumer dans les 10 secondes, faites glisser le commutateur de récepteur de télécommande à la position **OFF**. Autoriser cinq (5) minutes pour tout gaz dans l'unité à se dissiper, puis répétez les étapes 1-2 ci-dessus. **SIVOUS UNE ODEUR DE GAZ, voir l'étape B AU DÉBUT DE instructions d'allumage.**

Si le pilote ne se allume pas après plusieurs essais, tournez le système **OFF** (éteindre) et contacter un technicien de service professionnel qualifié.

Note: En mode manuel, la télécommande ne fonctionnera pas le système du brûleur.

ARRÊT

Pour arrêt à distance, appuyez sur le bouton **OFF** (éteindre) de la télécommande.

Si la télécommande ne est pas disponible, faites glisser le commutateur sur le récepteur de la télécommande à la position **OFF** (éteindre).

INTERRUPTEUR PRINCIPAL

L'interrupteur principal doit rester dans la position **OFF/REMOTE** (éteindre/éloigné) pour permettre le fonctionnement du système à distance (voir Fig. 32-1).

In the event the remote system batteries are dead (or if the system is not functioning) the master switch can be used to turn the burner on and off.

ASPECT PILOTE

Contrôler régulièrement le pilote pour motif de flamme correcte. La flamme de la veilleuse doit encrer le détecteur de flamme, et est pré-réglé en usine (voir Fig. 32-2).

Si la flamme de la veilleuse brûle mal: fermer complètement et se référer à la section dépannage pour plus de détails.

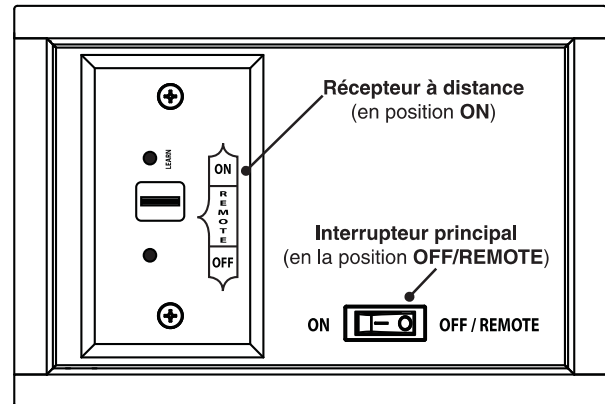


Fig. 32-1 Contrôle détail du panneau

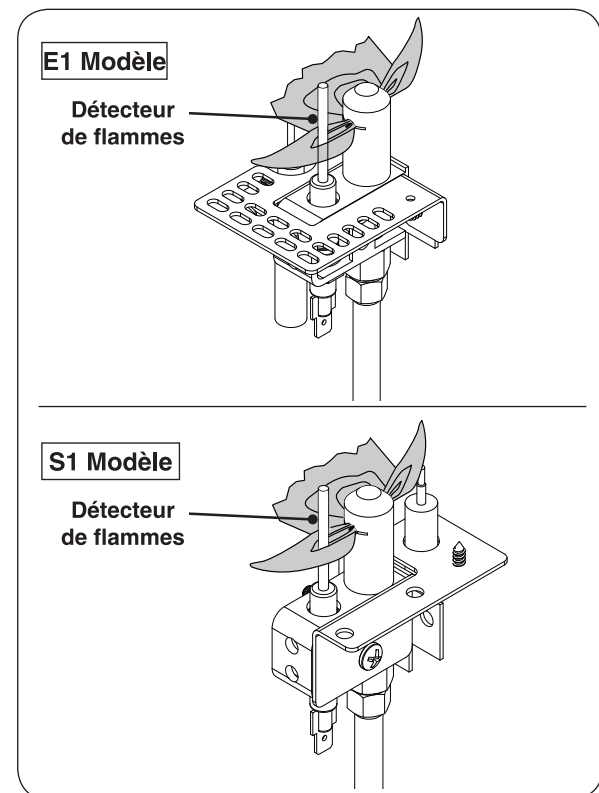


Fig. 32-2 Bonne flamme pilote

SERVICING AND CLEANING

Each installation site for any unit presents its own unique combustion environment. Specific factors such as weather, wind currents, yard debris, altitude, drafts, the size of the surrounding area, all have an influence on the proper operation of the unit. A normally operating unit will demonstrate the following characteristics:

- A lively, realistic yellow flame that spirals
- Odor-free

If the flame is not clean (identifiable by excessive sooting on the decorative media and/or top assembly), refer to the information below. Some soot on the media and/or top assembly may occur and should not be a concern unless excessive.

- Cover your unit whenever it is completely cool and not in use, and follow the guidelines below at least annually.

ANNUAL CLEAN / INSPECTION GUIDELINES

The unit and the installation must be inspected annually. Refer to these instructions for details. Performing these procedures will ensure proper operation, appearance, and safety. WEAR GLOVES.

If maintenance is required, it must be done by a qualified professional service technician.

- Always shut off the gas to the unit while performing service work.
- Allow the unit to cool before servicing.
- The entire burner system should be inspected regularly:

Excessive debris can build up on this unit from leaves, dirt, or other debris. It is critical that all control components, burners, pilot screen (or electrode, flash tube, and inside of the flash tube), vent openings, and the surrounding area be kept clean and free of all obstructions.

Examine that all components are properly assembled / installed as instructed in this manual.

Ensure that all decorative media is properly placed as instructed in this manual.

Ensure that the pilot screen (or electrode, flash tube, and inside of the flash tube) are clear of decorative media and any other items/debris.

Replace batteries as needed. See BATTERY INSTALLATION/REPLACEMENT section for details.

- The burner assembly must be replaced prior to the unit being put into operation if it is evident that the burner is damaged. Contact your local dealer for replacement parts.
- DO NOT use substitute materials when replacing any components of the appliance.
- **Keep the vent openings and surrounding area of the unit clean and free of obstructions at all times.**
- Periodically perform visual checks of the burner flames and pilot flames (if applicable). The burner flames should be blue at the base with yellow at the body and tips. The pilot (if applicable) should be a steady flame, encircling the flame sensor. Contact a qualified professional service technician for maintenance.
- **To maintain the stainless steel and glass components**, see the STAINLESS STEEL & GLASS CLEANING section for details.
- **To maintain the concrete components**, see the CONCRETE CARE section for details.
- Any guard or other protective device removed for servicing the appliance shall be replaced prior to operating appliance.
- Verify proper operation after servicing.

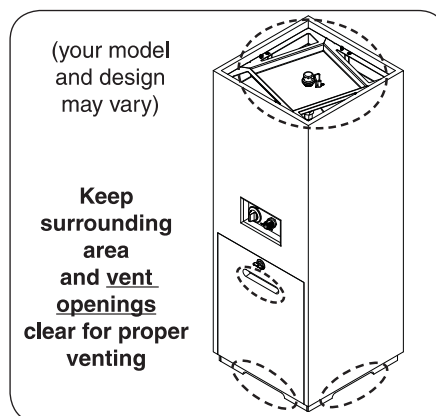


Fig. 33-1

CAUTION: HOT DURING OPERATION AND AFTER USE. Children must be supervised when in the vicinity of this appliance. Serious injury may occur! Children must be alerted to the hazard of high surface temperatures and should stay away to avoid burns or clothing ignition.

SERVICING AND CLEANING (cont.)**CONCRETE CARE**

As with any surface, concrete components require regular maintenance and care. Certain guidelines must be followed to preserve the concrete's appearance and structural integrity.

- **Scratches may occur due to usage.** To minimize, avoid striking or dragging heavy, rough, or sharp objects across the unit.
- **Spotting and hairline cracks may occur due to nature of product and are not considered a manufacturing defect.**
- **Concrete products are porous and susceptible to discoloration from liquids.** Avoid allowing water (or any liquid / substance) to stand on the surfaces of the unit.
- **To clean the concrete, first wash with a mild soap and water solution. For stubborn stains, a vinyl brush may be used. Allow to dry. Annually, follow up with a masonry sealer in order to preserve the finish.**
- It should be noted that, like natural stone, concrete products will develop a patina when left outside. No two concrete products are identically the same and the finish will vary.
- **An optional fabric cover is available to protect your unit when cool and not in use.** Contact your local dealer for ordering information.

FUEL CONVERSION KITS

For manual models, a certified kit is available from the manufacturer to convert from natural gas to L.P. or vice versa. Contact your dealer for ordering information.

Follow the instructions provided with the kit when converting.

SERVICE AND CLEANING (cont.)

STAINLESS STEEL & GLASS CLEANING

The top assembly (stainless steel and glass) should be cleaned at least annually, and any time the unit is exposed to water. Carefully follow the information below to remove, disassemble, and clean the top assembly and its components.

CAUTION: Wear gloves whenever installing and handling as top assembly has sharp edges that can cause personal injury.

To Remove and Disassemble:

1. Using a $\frac{3}{8}$ " socket driver, remove the four acorn lock nuts at the base of the top assembly, then **CAREFULLY** remove the assembly and set it on a flat and clean work area (see Fig. 35-1).
2. Using a Phillips screwdriver, remove the four screws on the top of the assembly (see fig. 35-2, A).
3. **CAREFULLY** lift up and remove the components, in order, as shown in Fig. 35-2, B - E. Set on the flat clean work area and clean per the instructions below.

To Clean:

1. Clean the glass pieces with standard glass cleaner and a clean cloth.
2. Ensure all stainless steel components are clear of all foreign debris. Then use quality stainless steel cleaner and a clean cloth to gently wipe down the finish.

Note: Always wipe with the grain.

Reassembly:

1. **CAREFULLY** reverse the disassembly steps above to reassemble and reinstall the top assembly. Refer to Fig. 35-2, Fig. 35-1, and the LANTERN INSTALLATION - TOP ASSEMBLY section as needed.

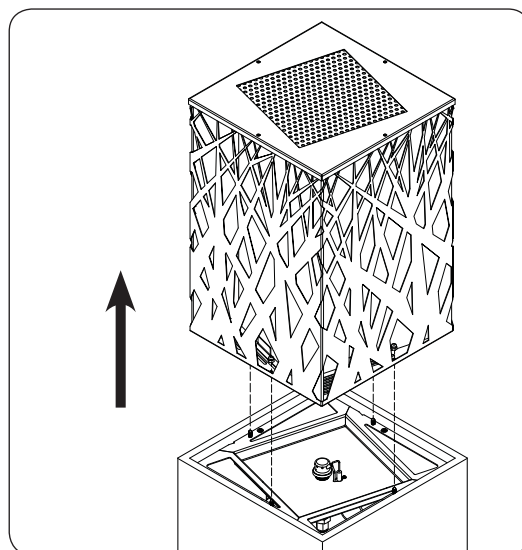


Fig. 35-1 Remove top assembly

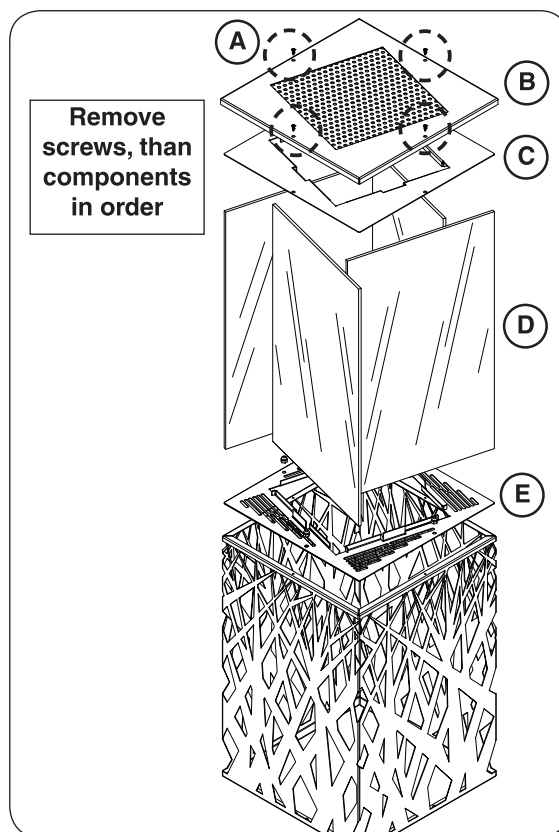


Fig. 35-2 Disassemble top assembly

SERVICE AND CLEANING (cont.)

BATTERY INSTALLATION/REPLACEMENT

CAUTION: Ensure the unit is connected to the gas line and has been tested for leaks before you insert batteries.

CAUTION: Turn off the burner and allow the unit to completely cool prior to any battery replacements.

Important: Prior to inserting batteries, always apply a small amount of dielectric grease to both ends of each battery. This will ensure conductivity and prevent moisture from affecting the contact.

Important: **Low/dead batteries will affect burner system operation. Replace batteries any time the burner will not turn on.**

Igniter battery (if equipped)

The burner system requires 1 AA battery to operate. Locate the igniter on the lantern base and unscrew the igniter cap (see Fig. 36-1). Remove the existing battery and spring (see Fig. 36-2), then detach the battery. Insert the new battery (negative end first) into the spring. Insert the battery and spring into the igniter and replace the cap. Screw the cap down until snug. **DO NOT** overtighten.

Remote transmitter battery (if equipped)

The remote transmitter requires 1 12V battery to operate (included). Locate the transmitter, remove the lid (found on rear), and properly insert the new battery as marked. Re-secure the lid. See Fig. 36-3.

Remote receiver batteries (if equipped)

The remote receiver requires 4 AA batteries to operate (included). Locate the receiver on the control panel, remove the 2 screws, then pull the receiver out of the control panel. Slide open the lid, and properly insert the new batteries as marked. See Fig. 36-4.

Replace the lid, replace the receiver, and secure using the 2 screws.

Burner system batteries (if applicable)

The burner system requires 2 D batteries to operate (included). Locate the access plate on the control panel, remove the large screw, then pull it out and turn it over. Properly insert the new batteries as marked. See Fig. 36-5.

Replace the access plate and secure using the large screw.



Fig. 36-1 Remove cap

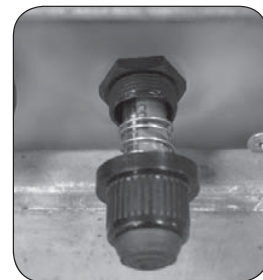


Fig. 36-2 Replace battery

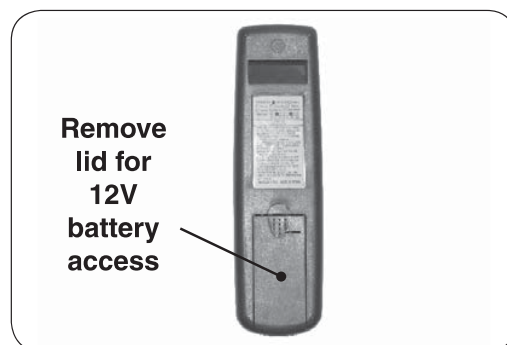


Fig. 36-3 Transmitter battery

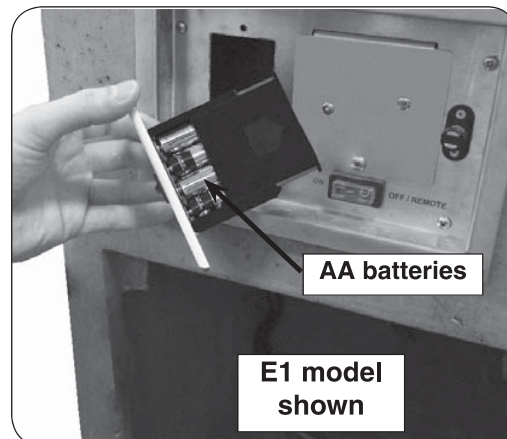


Fig. 36-4 Remote receiver batteries

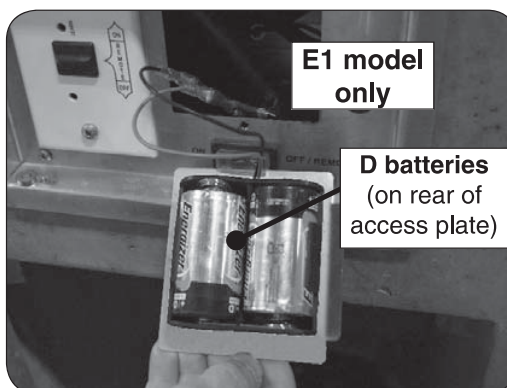


Fig. 36-5 Burner system batteries

SERVICE AND CLEANING (cont.)

SYNCING THE REMOTE SYSTEM (IF APPLICABLE)

Ensure the burner system is off and completely cool.

Locate the 3-position switch on the remote receiver and slide it to the **REMOTE** position. Use the tip of a pen or a wire clip to push the **LEARN** button and release. See Fig. 37-1. A beep will be heard. Then press and hold the **ON** button on the remote transmitter; a series of beeps should be heard. The remote system is now synced. Refer to the LIGHTING INSTRUCTIONS to test.

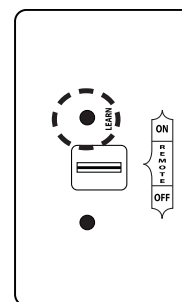


Fig. 37-1 Remote receiver sync detail

FUSE REPLACEMENT (IF APPLICABLE)

1. Remove the control panel door by lifting it slightly, and pulling it away from the unit (see Fig. 37-2).
2. Using a Phillips screwdriver, remove the 4 screws on the outer edge of the control box that are securing it into the side wall (see Fig. 37-3, A).
3. Slightly pull the control box forward in the cutout. Remove the 4 screws that are securing the control panel into the box (see Fig. 37-3, B).
4. Carefully pull the control panel away from the box.
5. "Push in and twist" the fuse holder (red wire), exposing the fuse (see Fig. 37-4).
6. Replace the fuse accordingly (3AG 2 AMP).
7. Reassemble the fuse holder, control panel, and control box.

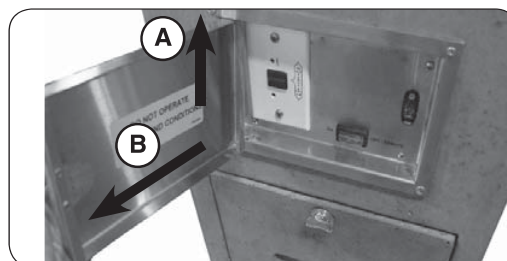


Fig. 37-2 Remove control panel door

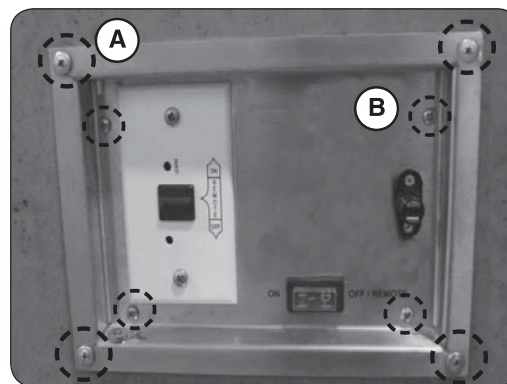


Fig. 37-3 Remove screws

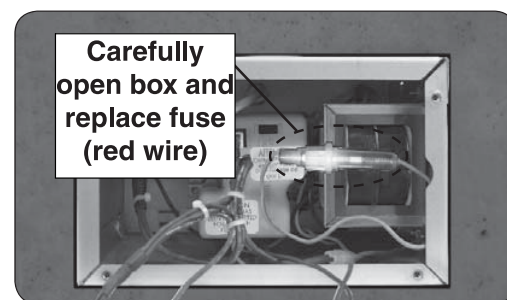


Fig. 37-4 Replace fuse

CONTROL BOX INTERIOR ACCESS (if applicable)

If access to the interior of the control box is required (for servicing), follow the instructions below:

1. Using a Phillips screwdriver, remove the 4 screws on the outer edge of the control box that are securing it into the side wall (see Fig. 37-3, A).
2. Pull the control box out of the cutout.
3. Once the control box is accessible, remove the bottom plate by using a screwdriver to pry open the tabs found along the box. The control panel can also be removed by unfastening the 4 screws that are securing it to the box. See Fig. 37-5.
4. Replace the bottom plate, control panel, and re-install the control box when servicing is done.

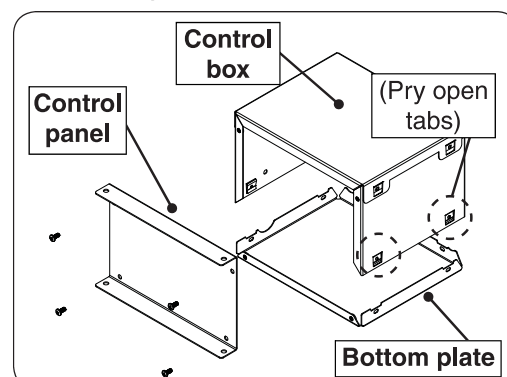


Fig. 37-5 Control panel interior access

TROUBLESHOOTING

If you have trouble with your unit, please use this list to identify the problem. By trying one or more of the solutions to the probable cause, you should be able to solve the problem. If this list does not address your present problem, or if you have other technical difficulties with your unit, please contact your local dealer or visit our web site at www.rhpeterson.com.

SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
Burner will not turn on	1. Gas not reaching appliance 2. Air in gas line 3. No ignition at igniter/pilot 4. Appliance is not receiving power 5. Loose electrical connection 6. Incorrect spark at igniter (V/K1 Models Only)	1. Check gas supply and gas shut-off valve. 2. Purge air from gas line. 3. See next page (Igniter Will Not Function symptom) for details. 4. Check that power supply cord is properly plugged in. Check GFCI. Check building circuit breaker. 5. Check all connections are secure in place. 6. Ensure the glass media is the appropriate type for use with this product (non-reflective), and is properly placed. See GLASS MEDIA PLACEMENT section.
Unit overheating or poor combustion	1. Vent openings/surrounding area blocked with debris	1. Clean vent openings and surrounding area of all obstructions.
Low flame	1. Low gas pressure 2. Low gas pressure/flame (propane) 3. Propane tank running low (if applicable)	1. Check gas pressure (Read E-F of PRE-INSTALLATION AND PREPARATION SAFETY GUIDELINES section, & <u>check with local gas company</u>). 2. Shut off all valves, including propane tank, and follow lighting instructions exactly. (See important note* below.) 3. Fill tank completely.
Low flame or too high flame	1. Using natural-gas burner on propane gas or propane burner on natural gas	1. Ensure proper gas type. The gas supply used may not be the same as that stated on the unit rating plate. Shut down immediately to verify, and if necessary contact your local dealer. (The unit may be converted to the gas type of the gas supply, IF PERMITTED.)
Flame lifts off the burner assembly	1. Unit exposed to high-wind conditions	1. Ensure that the unit is installed in an area that is less susceptible to high wind conditions. DO NOT operate in high-wind conditions.
Flame height drops when unit is in operation	1. Low gas pressure (due to improper gas supply line)	1. Check gas supply line and gas pressure (Read E-F of PRE-INSTALLATION AND PREPARATION SAFETY GUIDELINES section, & <u>check with local gas company</u>).
Burner lights but will not stay lit	1. Low gas pressure 2. Unit exposed to high-wind conditions 3. Clogged burner ports 4. Faulty valve or regulator 5. Bad flame sensor	1. Check gas pressure (Read E-F of PRE-INSTALLATION AND PREPARATION SAFETY GUIDELINES section, & <u>check with local gas company</u>). 2. Ensure that the unit is installed in an area that is less susceptible to high wind conditions. 3. Clean burner ports. 4. Contact a qualified professional service technician and the local dealer. 5. Check/replace pilot assembly.

Note: *Propane tanks are equipped with a safety shutdown device that may cause low or no gas/flame at the burners if operating and lighting instructions are not followed exactly. **If you suspect the propane tank safety shutoff is in effect:** 1) Shut off unit's valve. 2) Shut off tank valve. 3) Open and close unit's valve. 4) Open tank valve. 5) Follow the LIGHTING INSTRUCTIONS. Lighting instructions are located in your owner's manual and printed on the unit's label plate. Lighting instructions are located in the owner's manual. If the problem persists, continue troubleshooting, or contact your local dealer or distributor for assistance.

TROUBLESHOOTING (cont.)

SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
Burner flashback or flame burning out of orifice	1. Clogged burner ports 2. Clogged burner orifice	1. Clean burner ports. 2. Clean burner orifice.
Flame not spiraling	1. Improper media placement 2. Air mixer shutter 3. Weather conditions	1. See GLASS MEDIA PLACEMENT section. 2. Ensure air shutter is fully open. 3. Ideal flame pattern is achieved within 5 -10 minutes of operation. Time frame may increase in cold conditions.
Excessive Sooting	1. Flame not spiraling 2. Heating value too high	1. See section above. 2. Derate burner. Contact your local dealer for details.
Pilot will not ignite	1. Obstruction in pilot gas supply or pilot gas-supply line is kinked 2. Inadequate gas supply 3. Air in line 4. Pilot screen covered	1. Clear out obstruction. Replace pilot gas-supply line if kinked. 2. Have gas pressure checked by installer or gas supplier. 3. Air should clear; attempt to relight. 4. Ensure screen is clear of glass media. See GLASS MEDIA PLACEMENT section for details.
Igniter will not function	1. Loose wires 2. Dead batteries, OR, appliance is not receiving power 3. Faulty igniter or pilot 4. Faulty valve 5. Faulty switch 6. Faulty remote system (if equipped)	1. Check all wires are securely in place. 2. Replace batteries, OR, check that power supply cord is properly plugged in. Check GFCI. Check building circuit breaker. 3. Check/replace igniter or pilot assembly. 4. Check/replace valve. 5. Check/replace switch. 6. Check/replace remote system.
Pilot lights, but main burner will not	1. Wire leads are not connected to proper valve terminals or switch terminals not tight 2. Batteries too low for voltage output 3. No flame verification 4. Faulty valve	1. Make sure all wire leads are tight and attached to proper terminals as illustrated in wiring diagram (see SPECIFICATIONS AND DIMENSIONS section). 2. Replace with new batteries. 3. Check/replace pilot assembly. 4. Check/replace valve.
Remote receiver does not respond to remote transmitter	1. Receiver batteries dead 2. Remote system not synced 3. Remote receiver in incorrect position 4. Loose wires	1. Check/replace batteries in remote receiver (see BATTERY REPLACEMENT section). 2. See SYNCING THE REMOTE SYSTEM section to sync. 3. Slide switch on receiver to REMOTE position. See LIGHTING INSTRUCTIONS - REMOTE LIGHTING for details. 4. Check all wires are connected properly.

WARRANTY**AMERICAN FYRE DESIGNS BY R. H. PETERSON CO.
LIMITED WARRANTY**

Robert H. Peterson Co. ("RHP") warrants your American Fire Designs product to be free from defects in material and workmanship.

American Fyre Designs ("AFD") exterior Glass Fiber Reinforced Concrete (GFRC) fire features ("products") and burners are warranted for **THREE (3) YEARS**.

All AFD valves, electrical components, accessories and controls are warranted for **ONE (1) YEAR** (excluding batteries, wind guards and screens).

This warranty **does not** apply to: product damage caused by burning wood or any fuel other than natural gas or propane; or damage or discoloration to product used in high wind conditions.

A COPY OF YOUR SALES SLIP FOR PROOF OF PURCHASE IS REQUIRED

This warranty applies to the original purchaser for products which are installed in the United States or Canada and which are operated and maintained as intended for single family residential usage. This warranty is valid only with proof of purchase, shall commence on the date of purchase, and shall terminate (both as to original and any replacement products) on the anniversary date of the original purchase of the product stated on the above schedules.

This warranty covers defects in material and workmanship. This warranty **does not** cover parts which become defective as a result of negligence, misuse, use not in compliance with the Owner's Manual/Installation Instructions, accidental damage, improper handling, improper storage, improper installation, lack of required routine maintenance (as specified in the Owner's Manual/Installation Instructions), electrical damage, local gas impurities or failure to protect against combustibles. Product must be installed (and gas must be connected) as specified in the Owner's Manual/Installation Instructions by a **qualified professional installer**. Modifications to products which are not specifically authorized will void this warranty. Accessories, parts, valves, remotes, etc. when used must be Peterson products or this warranty is void. Warranted items will be repaired or replaced at Peterson's sole discretion. This warranty **does not** apply to rust, corrosion, oxidation, or discoloration unless the affected part becomes inoperable.

This warranty **does not** cover labor or labor related charges, except as provided by separate specific written programs from the Peterson Co. All repair work must be performed by a qualified professional service person and requires prior approval of Peterson.

Peterson may require the defective product or part to be returned to the factory to determine the cause of failure. Peterson will pay freight charges if the product or part is determined to be defective. This warranty does not cover breakage in shipment from our (Independent) distributor to its customer if the damage is determined to have occurred during that shipment.

This warranty specifically excludes liability for **indirect, incidental**, or consequential damages. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specified legal rights, and you may have other rights that vary from state to state or province.

For additional information regarding this warranty, or to place a warranty claim, contact the R. H. Peterson dealer where the product was purchased.

**TO REGISTER YOUR PRODUCT ONLINE GO TO: WWW.RHPETERSON.COM,
AND CLICK ON PRODUCT REGISTRATION. THANK YOU FOR YOUR PURCHASE.**

Quality Check				Date: _____	
Burner Orifice	Nat.	L.P.	Leak Test: _____	Model#:	_____
Main:	_____	_____	Burn Test: _____	Serial#:	_____
			Gas Type: <u>Nat. / L.P.</u>	Inspector:	_____