



Fire Garden™

Voracious Fire™

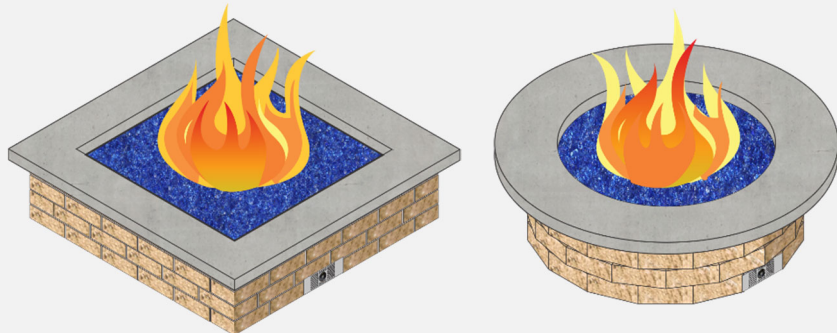
Fire Pit Burner

Manual

25" Fire Pit Burner	94900345
28" Fire Pit Burner	94900346
33" Fire Pit Burner	94900347
37" Fire Pit Burner	94900348
47" Fire Pit Burner	94900351



Listed by
Omni-Test Laboratories, Inc.
Report # 0028GM147S
ANSI Z21.97-2017 /CSA 2.41-2017, CSA 2.17-2017
Outdoor Decorative Gas Appliances



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.

⚠ 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.

⚠ 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.

⚠ WARNING: For outdoor use only. Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

⚠ WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

⚠ 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.

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

French language manuals at outdoorfiregarden.com. Manuels de langue Française à outdoorfiregarden.com

Travis Industries, Inc.
\$10.00

12521 Harbour Reach Dr., Mukilteo, WA 98275
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www.travisproducts.com
Part # 100-01619

Overview

This manual details the installation, operation, and routine maintenance of the Voracious Fire - Fire Pit Burners.

Listing Details

This appliance 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". The listing label is chained to the appliance. A copy is shown to the right.

Important Registration & Service Info

No other appliance has the same serial number as yours. The serial number is on the safety label attached by a chain inside the electrical box. This serial number will be needed if you require service of any type. To receive full warranty coverage, you will need to show evidence of the date of purchase. Visit traviswarranty.com to register your appliance. If any service issues arise, contact your dealer for assistance.

National Fireplace Institute

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CERTIFIED
www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

Dealer Information

Please record your dealer information here for future reference:

Dealer Name: _____
 Dealer Address: _____
 Dealer E-Mail: _____
 Dealer Phone #: _____

CALIFORNIA RESIDENTS



WARNING: This product can expose you to chemicals including Carbon Monoxide and Benzene, which are known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Serial Number

 **TRAVIS INDUSTRIES
HOUSE OF FIRE**
12521 Harbour Reach Drive
Mukilteo, WA 98275

**VORACIOUS
FIRE PIT BURNER**



Listed by
OMNI-Test Laboratories, Inc.
Report No. 0028GM147S

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 24v ignition: 24 VAC, 60Hz, 1.6 Amps

Electrical rating Pulse ignition: 1.5 VDC

Match Light ignition requirement: ≤65,000 BTUs

For outdoor installation only. 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.

If conversion to propane (LP) is desired, the optional factory conversion kits must be used. Part No. 250-03881 for 25" burner. Part No. 250-00398 for 28" burner. Part No. 250-06223 for 33" burner. Part No. 250-00395 for 37" burner. Part No. 250-03472 for 47" burner.

Minimum Clearances to Combustible Materials: See manual for further details

GAS RATING

Input Rating (BTU/h)

Orifice Size

Manifold Pressure

Max. Inlet Pressure

Min. Inlet Pressure

NG

LP

7" WC
7" WC
6" WC

11" WC
11" WC
10" WC

MANUFACTURE DATE:

☐ 2025	☐ Jan.	☐ Apr.	☐ Jul.	☐ Oct.
☐ 2026	☐ Feb.	☐ May	☐ Aug.	☐ Nov.
☐ 2027	☐ Mar.	☐ Jun.	☐ Sep.	☐ Dec.

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- ! **CAUTION - Do not attempt to light the appliance if the burner is covered in snow or debris.**
- ! **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 appliance 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 the use of the appliance.
 - If using a gas supply line to the appliance, 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 about the dangers of the appliance. Young children should be supervised when they are in the same area as the appliance. Do not let children play with the appliance.
 - 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 appliance 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 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 appliance is designed for.
- Do not place clothing or other flammable items on or near the appliance.
- Contact your local building officials to obtain a permit and information on any installation restrictions or inspection requirements in your area.
- Any screen or guard removed for servicing must be replaced prior to operating the appliance.
- If the flame becomes sooty, dark orange in color, or extremely tall, do not operate the appliance. Call your dealer and arrange for proper servicing.
- Do not operate the appliance if it is not operating properly in any fashion or if you are uncertain. Call your dealer for a full explanation of your appliance and what to expect.
- Do not store or use gasoline or other flammable liquids in the vicinity of this appliance.
- Never remove, replace, modify, or substitute any part of the appliance 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 appliance to cool before conducting any maintenance or cleaning.
- Operate the appliance 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 on how to shut the gas off to the appliance 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 appliance during a lightning storm or a possible lightning storm.
- Do not operate the appliance 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 appliance, and assumes no responsibility for any consequential damage(s).**

Features and Specifications

5

Features:

- **24v Only** - Electronic Ignition (switch turns appliance on or off)
- Stainless Steel Construction
- **24v & Pulse Ignition Only** - Automatic Gas Shutoff Valve for Safety

Installation Options:

- For Outdoor Installation Only
- For Fixed Gas Line Installations Only
- Three different ignition options:
 - 24VAC Ignition
 - Pulse Ignition – (AAA Battery)
 - Match Light (36" units ONLY)

Electrical Specifications:

- 24 VAC., 60 Hz, 1.6 Amps.- 24v Ignition only
- 1.5VDC., (AAA Battery) – Pulse ignition only
- No electrical requirements - Match Light only

Appliance Weight:

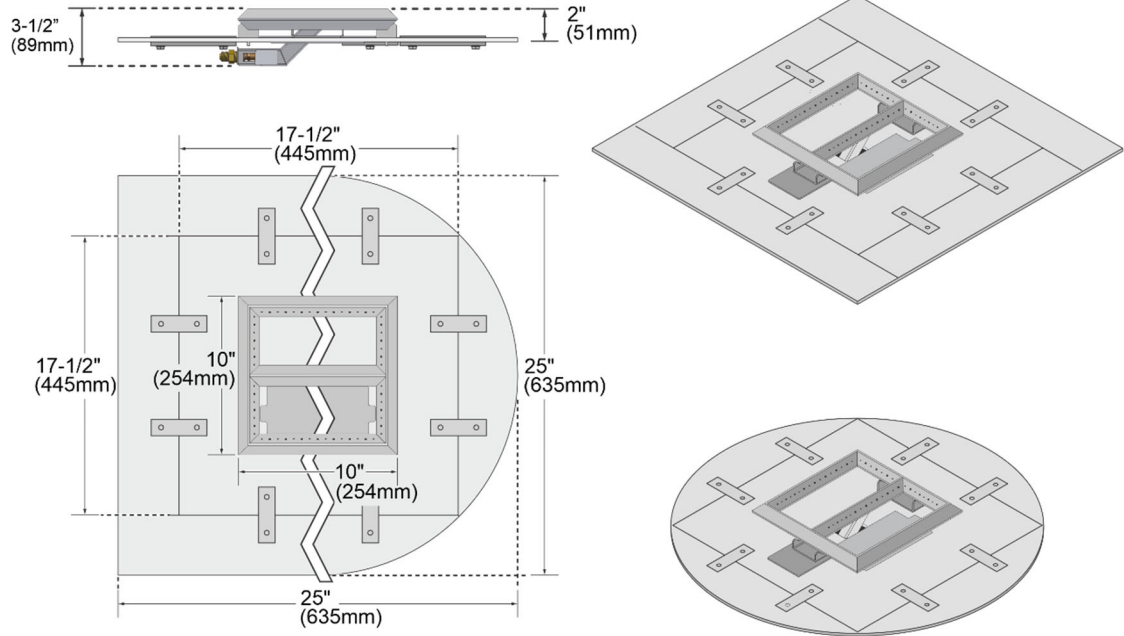
25" Fire Pit Burner	30 lbs. (13.6kg)
28" Fire Pit Burner	35 lbs. (15.9kg)
33" Fire Pit Burner	45 lbs. (20.4kg)
37" Fire Pit Burner	50 lbs. (22.7kg)
47" Fire Pit Burner	80 lbs. (36.3kg)

Gas Specifications:

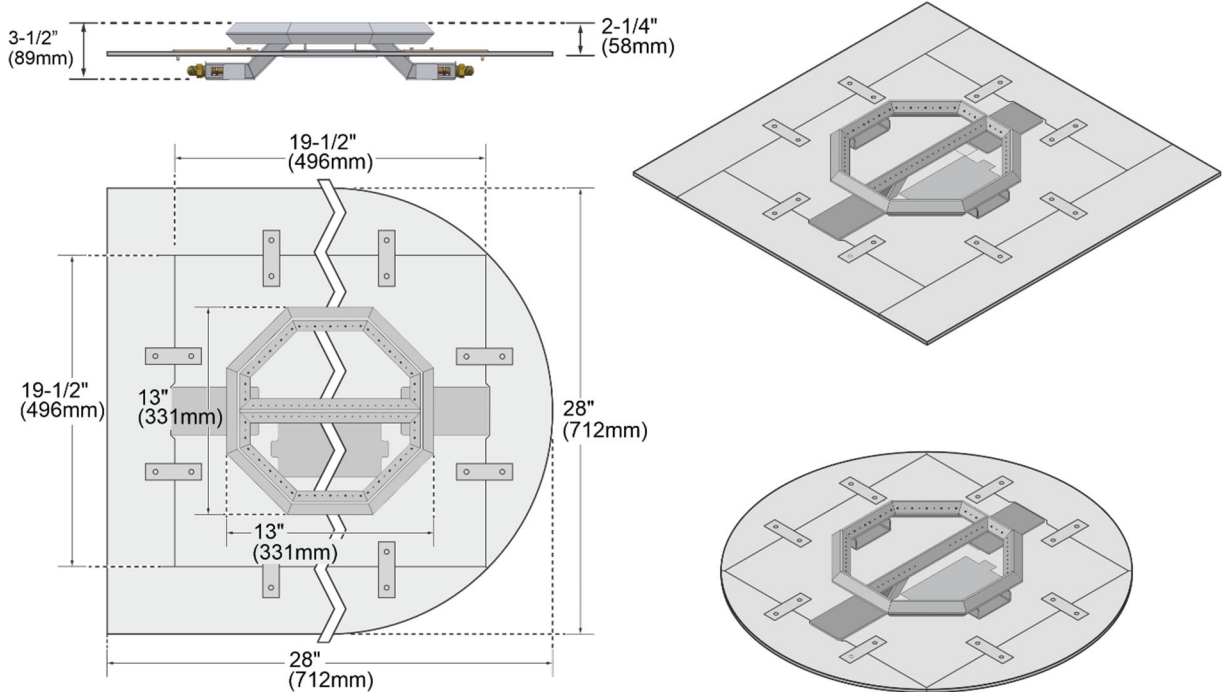
All VF Fire Pit Burners	Gas Pressures	NG	LP
	Manifold Pressure	7" wc	11" wc
	Max. Inlet Pressure	7" wc	11" wc
	Min. Inlet Pressure	6" wc	10" wc
25" Fire Pit Burner	Input Rating	NG	LP
	Input Rating (BTU/h)	65,000	65,000
	Orifice Size (DMS)	(1) - #30	(1) - #42
28" Fire Pit Burner	Input Rating	NG	LP
	Input Rating (BTU/h)	125,000	125,000
	Orifice Size (DMS)	(2) - #30	(2) - #43
33" Fire Pit Burner	Input Rating	NG	LP
	Input Rating (BTU/h)	175,000	175,000
	Orifice Size (DMS)	(2) - #21	(2) - 7/64"
37" Fire Pit Burner	Input Rating	NG	LP
	Input Rating (BTU/h)	225,000	225,000
	Orifice Size (DMS)	(2) - #19	(2) - #31
47" Fire Pit Burner	Input Rating	NG	LP
	Input Rating (BTU/h)	350,000	350,000
	Orifice Size (DMS)	(4) - #21	(4) - #36

VF Fire Pit Burner Dimensions:

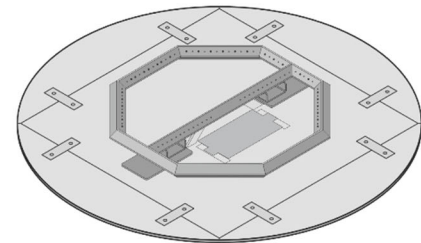
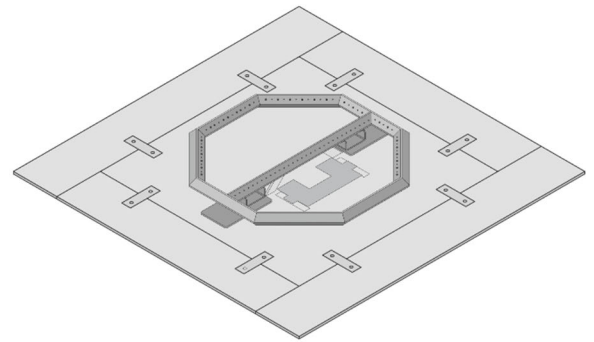
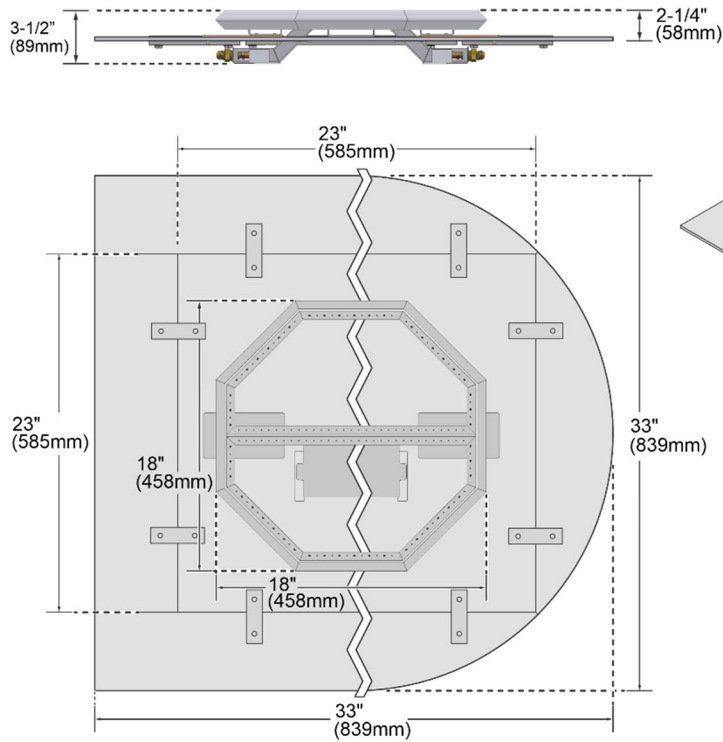
25" VF Fire Pit



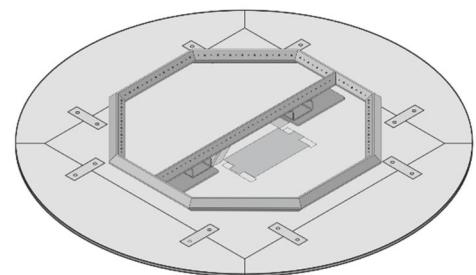
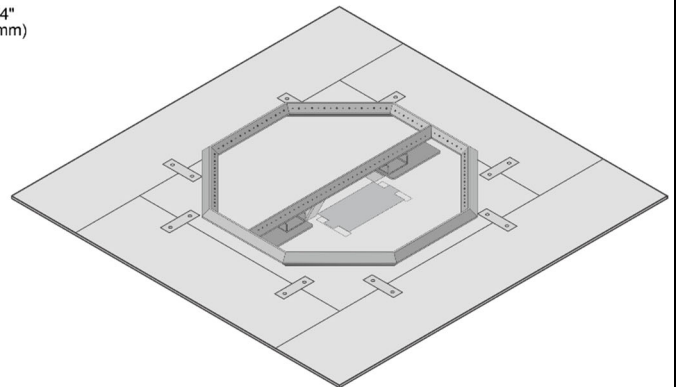
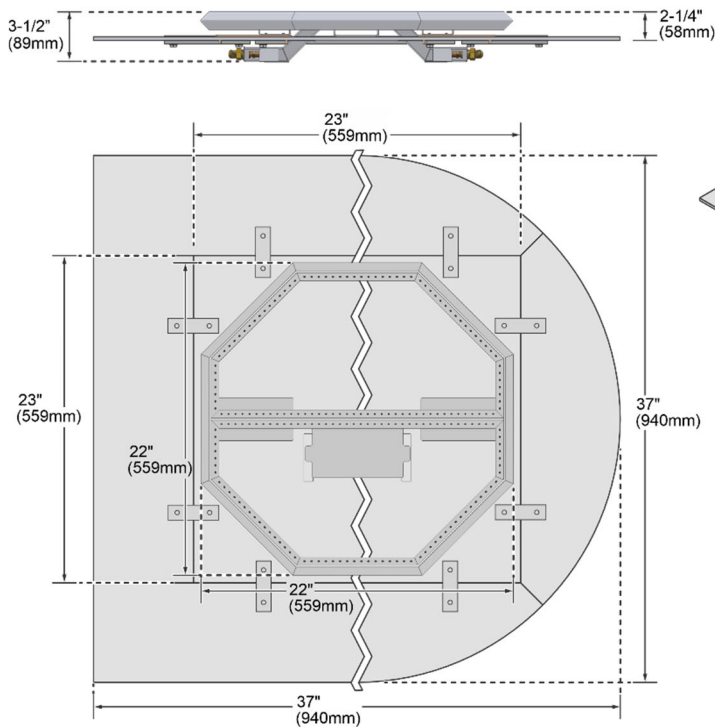
28" VF Fire Pit



33" VF Fire Pit



37" VF Fire Pit



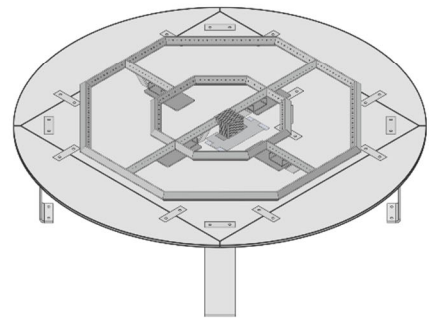
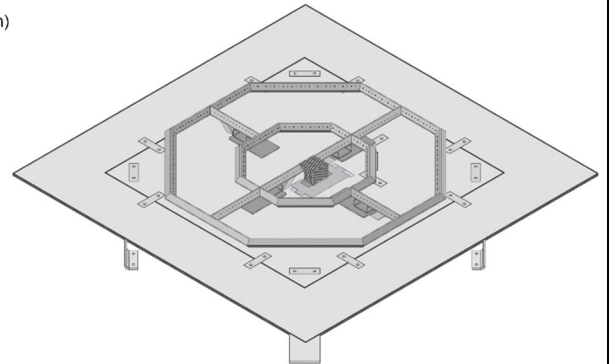
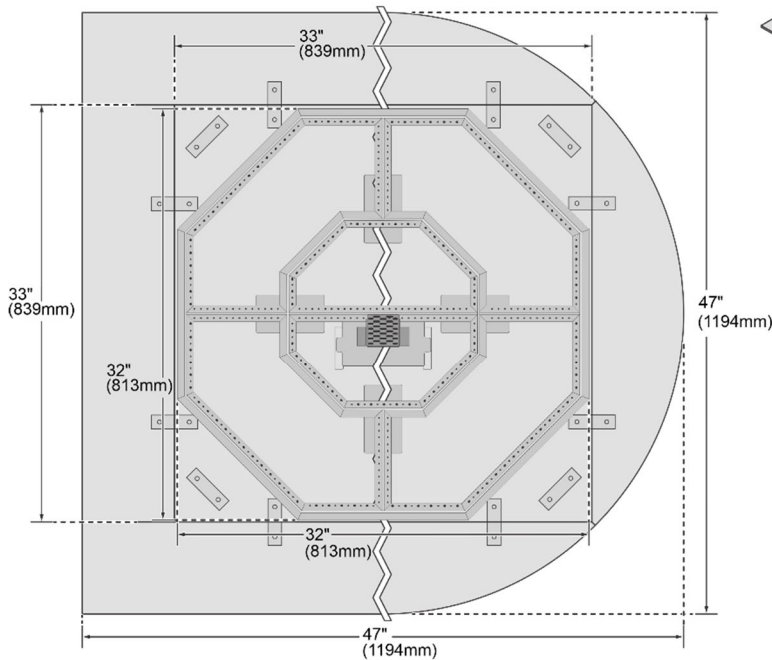
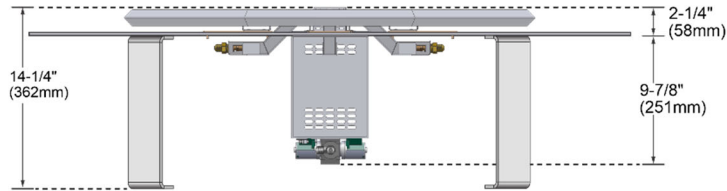
47" VF Fire Pit



IMPORTANT INFO



Comes with 24v Ignition system and leg kit preinstalled ONLY



Installation Warnings:

- ! This appliance is designed for outdoor use only, in well-ventilated areas.
- ! Failure to follow all the requirements may result in property damage, bodily injury, or even death.
- ! This appliance 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.
- ! Notify your insurance company before hooking up this appliance. All relevant information on the appliance 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.

Recommended Order of Installation

1. **CAREFULLY PLAN THE INSTALLATION**. Determine the location of the VF Fire Pit Burner and the controls. Make sure all clearances will be met, (see page 14).

2. Run the gas line to the fire pit location. The appliance requires:

- **65,000 BTU** input (NG or LP) for a **25"** Burner.
- **125,000 BTU** input (NG or LP) for a **28"** Burner
- **175,000 BTU** input (NG or LP) for an **33"** Burner
- **225,000 BTU** input (NG or LP) for a **37"** Burner
- **350,000 BTU** input (NG or LP) for a **47"** Burner

3. Install the transformer and on/off switch and run low voltage wire to the fire pit location.
4. Frame the VF Fire Pit Burner enclosure (see page 18) **OR** construct the fire pit block enclosure (see page 20). Install the key valve enclosure vent assemblies or separate key valve and vents at this time.
5. Convert the appliance to LP gas if applicable (see page 23).
6. Assemble the 4-piece base plate on the fire pit burner assembly (see page 21).
7. Run hard pipe or flex from the gas supply stub to the key valve.
8. Connect the 34" long flex line from the fire pit valve to the key valve.
9. Electrical Supply:

24v Ignition Only

The appliance uses 24VAC power and draws approximately 1.6 amps - Make sure the circuit and wiring are appropriately sized (see diagrams starting on pg. 54). If multiple appliances are powered through a single switch, the control modules for each of the individual appliances may be daisy-chained together. Make sure to leave slack in the electrical line so the appliance or Linear Fire Pit Burner tray can be removed for service.

Pulse Ignition Only

(1) AAA battery 1.5VDC

Match Light (36" Outdoor Linear Burner ONLY)

No electricity needed

10. Bleed the gas line and briefly test fire the fire pit by switching on the electrical power to the control module. Leak test the gas lines. Verify the appliance works correctly and that there are no gas leaks.
11. Place the fire pit assembly into the enclosure.
12. Finalize the installation. Install the crushed glass, crushed glass with an optional Bonfire log set (sold separately), or tumbled stone media.
13. Give the manual to the homeowner and explain the operation of the appliance.

Packing List

- Fire Pit assembly with attached 34" Long 1" diameter gas flex line.
- LP Conversion Kit - see "LP Conversion" on page 23 for details.

Additional Items Required

- Gas Line Equipment (pipe, pipe fittings, pipe dope, etc.)
- One of the following control kits:
 - 24v ignition kit – (sku 94601272)
 - Pulse ignition kit – (sku 94601273)
 - Air Vent with Key Valve kit – (sku 94601025)
- 24volt transformer (With 24v ignition kit only)

Travis Industries provides the following transformer options:

- Travis Industries 24V AC Single Appliance Transformer (94800833)
- Travis Industries 24V AC Multiple Appliance Transformer (94800830)
- Low voltage wire (from the transformer to the appliance)
- High voltage wire (from house circuit to transformer)
- Weatherproof enclosure for wall switch (only needed if the switch is to be installed outdoors).
- Media (Crushed Glass, Tumbled Stones, optional Bonfire log set)
- Fire Pit Base Plate Kit (see below).

 IMPORTANT 			
You must order one of the following items to complete your fire pit.			
Fire Pit Model	Round Base Plate Kit	Square Base Plate Kit	Custom Base Plate Kit
25" Fire Pit Burner	25" 94601210	25" 94601211	Contact dealer for details 94601212
28" Fire Pit Burner	28" 94601215	28" 94601216	Contact dealer for details 94601217
33" Fire Pit Burner	33" 94601220	33" 94601221	Contact dealer for details 94601222
37" Fire Pit Burner	37" 94601225	37" 94601226	Contact dealer for details 94601227
47" Fire Pit Burner	47" 94601230	47" 94601231	Contact dealer for details 94601232



WARNING



The use of porous media materials such as lava rock in this appliance may create a hazardous condition. When moisture that has penetrated the small crevices of porous media such as lava rock is heated, the steam produced can cause the material to eject itself from the appliance and could cause injury and/or property damage.

Travis Industries does not recommend or encourage the use of any media in this appliance except that which has been tested and is provided through an authorized Travis Industries dealer.



Optional Filler Kit



There is an optional filler kit available that supplies metal shapes that fill up empty space around the burner. When using the filler kits the amount of crushed glass media needed will be reduced by approximately 50%. See the chart below for crushed glass quantities used with and without the filler kits. See page 74 for details.

Travis Industries offers the following Crushed Glass Options:

- **Platinum** sku# 94500580 ▪ **Cobalt** sku# 94500582 ▪ **Bronze** sku# 94500581 ▪ **Black** sku# 94500583

NOTE: The part numbers provide 10 lbs. of crushed glass so make sure to order the appropriate number of boxes of the desired part number (see chart below).

	Appliance	Amount of Media needed without filler kit	# of boxes needed	Amount of Media needed with filler kit	# of boxes needed
ROUND	25" Fire Pit Burner	60 lbs. (27.22 kg)	6	30 lbs. (13.61 kg)	3
	28" Fire Pit Burner	75 lbs. (34.02 kg)	8	35 lbs. (15.88 kg)	4
	33" Fire Pit Burner	105 lbs. (47.63 kg)	11	60 lbs. (27.22 kg)	6
	37" Fire Pit Burner	130 lbs. (58.97 kg)	13	70 lbs. (31.75 kg)	7
	47" Fire Pit Burner	210 lbs. (95.26 kg)	21	100 lbs. (45.4 kg)	10
SQUARE	25" Fire Pit Burner	75 lbs. (34.02 kg)	8	30 lbs. (13.61 kg)	3
	28" Fire Pit Burner	95 lbs. (43.09 kg)	10	35 lbs. (15.88 kg)	4
	33" Fire Pit Burner	130 lbs. (58.97 kg)	13	65 lbs. (29.49 kg)	7
	37" Fire Pit Burner	160 lbs. (72.58 kg)	16	70 lbs. (31.75 kg)	7
	47" Fire Pit Burner	260 lbs. (117.94 kg)	26	110 lbs. (49.9 kg)	11

Travis Industries offers the following Stone Options:

- **Tumbled Stone - Small** - sku# 94500985 | ▪ **Tumbled Stone – Large** - sku# 94500986

NOTE: The part numbers above provide 10 lbs. of small and 20 lbs. of large Tumbled Stone, respectively. Make sure to order the appropriate number of boxes for the appliance (see chart below).

	Appliance	Amount of Media needed	# of 94500985 needed	# of 94500986 needed
ROUND	25" Fire Pit Burner	20 lbs. (9.07 kg) small & 20 lbs. large (9.07 kg)	2	1
	28" Fire Pit Burner	40 lbs. (18.14 kg) small & 40 lbs. large (18.14 kg)	4	2
	33" Fire Pit Burner	50 lbs. (22.68 kg) small & 60 lbs. large (27.22 kg)	5	3
	37" Fire Pit Burner	60 lbs. (27.22 kg) small & 100 lbs. large (45.36 kg)	6	5
	47" Fire Pit Burner	70 lbs. (31.75 kg) small & 160 lbs. large (72.57 kg)	7	8
SQUARE	25" Fire Pit Burner	40 lbs. (18.14 kg) small & 40 lbs. large (18.14 kg)	4	2
	28" Fire Pit Burner	60 lbs. (27.22 kg) small & 60 lbs. large (27.22 kg)	6	3
	33" Fire Pit Burner	70 lbs. (31.75 kg) small & 100 lbs. large (45.36 kg)	7	5
	37" Fire Pit Burner	80 lbs. (36.29 kg) small & 140 lbs. large (63.50 kg)	8	7
	47" Fire Pit Burner	100 lbs. (45.36 kg) small & 220 lbs. large (99.79 kg)	10	11

Overview of Ignition Options

Below you will find a basic overview of the main components and how they are connected for a typical Voracious Fire Pit Burner installation.



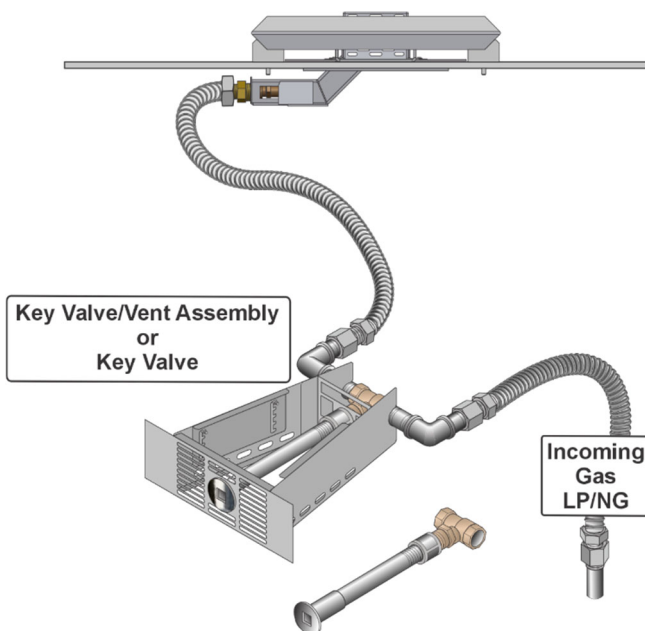
WARNING



This method of operating the firepit is only available to be used on 25" VF Fire Pit appliance.

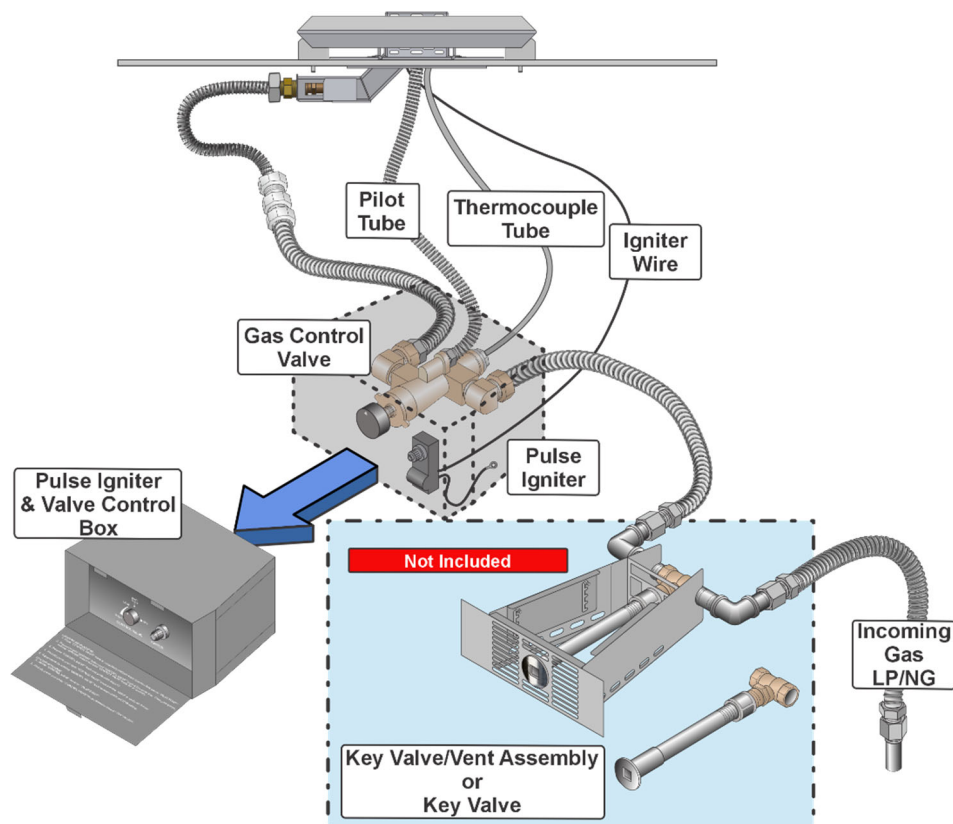
Match Light Ignition Installations sku 94601025

- The appliance is controlled via a key valve.
- The appliance is lit manually using a match or lighter.
- No safety pilot system.
- No electrical needed to operate.



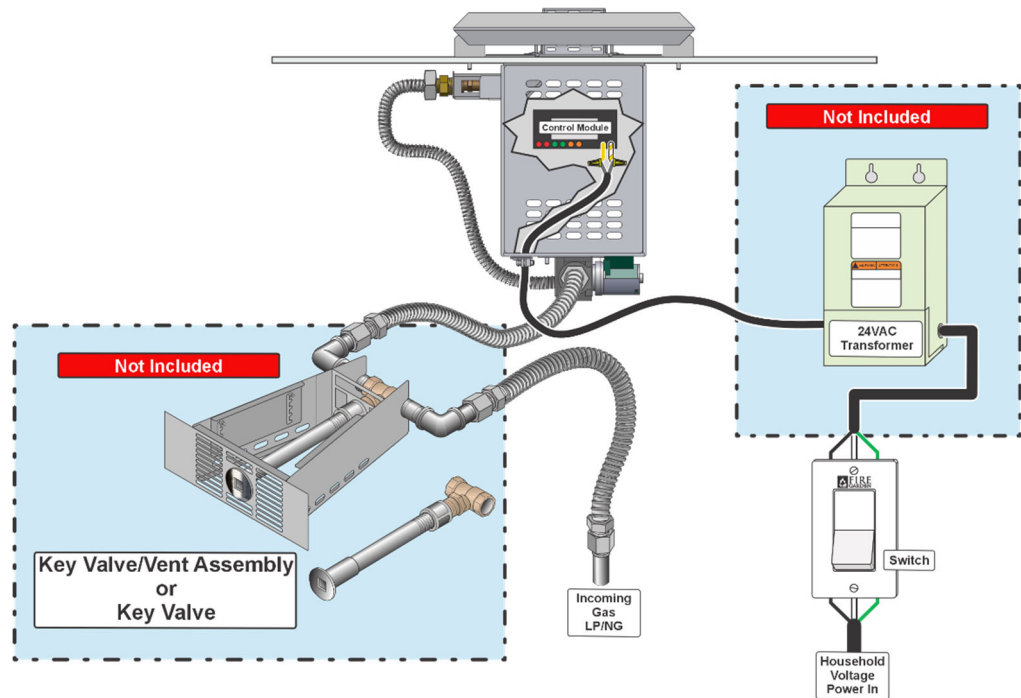
Pulse Ignition Installations sku 94602332

- Does not use AC power to operate.
- Uses a battery-operated pulse igniter to light the pilot.
- Operated via controls built into the enclosure.
- Adjustable flame height.
- Uses a pilot system that will turn the gas supply off if the pilot goes out.



24V Ignition Installations sku 94602331

- Requires AC power to operate a 24v transformer.
- Allows for the appliance to be operated via a wall switch or home automation system.
- Flame height is not adjustable.
- Uses a pilot system that will turn the gas supply off if the pilot goes out.

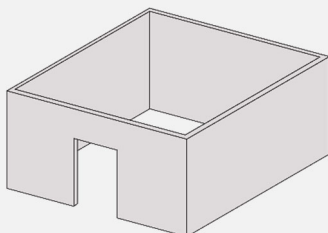
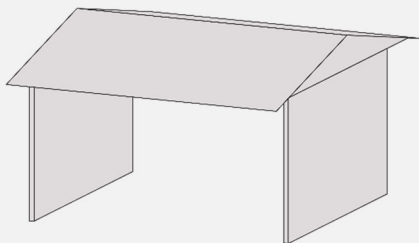
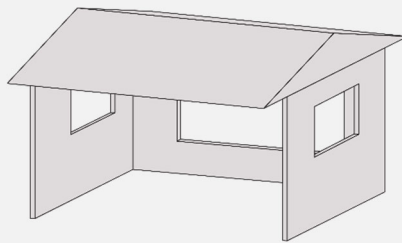


Weatherproofing the Installation

This appliance is designed to withstand being installed outdoors in the elements; however, the enclosure will need to be designed and constructed to withstand the same. The builder must provide a means for water to escape the enclosure that is appropriate and specific to the site of the installation. This may necessitate improving ground drainage, the fabrication of a drain pan, the creation of weep holes in the base of the enclosure, or building a roof over the appliance (covers over the appliance must meet all the requirements detailed in this manual).

Appliance Placement Requirements

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

WARNING	
The appliance is considered to be “outdoors” if installed with shelter no more inclusive than:	
Walls on all sides, but with no overhead cover.	Within a partial enclosure that includes an overhead cover and no more than two sidewalls. The sidewalls may be parallel, as in a breezeway, or at right angles to each other.
	
Within a partial enclosure that includes an overhead cover and three sidewalls, as long as 30 percent or more of the wall area of the enclosure is permanently open.	
To calculate - multiply the length of the walls by the height of the walls to get square feet. - Add the square feet of all 3 walls together. - Multiply the total by 0.3 to get the amount of square feet required to be open. Wall 1 - L x H = _____ ft² Wall 2 - L x H = _____ ft² Wall 3 - L x H = _____ ft² Wall 4 – Must Be Open Combined Total = _____ ft²  Take the combined total above and multiply by 0.3 to get 30% of the combined total which is the MINIMUM open space required for all windows and doors combined (must be open at all times - no operable doors or glass coverings). If the openings are screened, check with the local authority having jurisdiction before proceeding.	

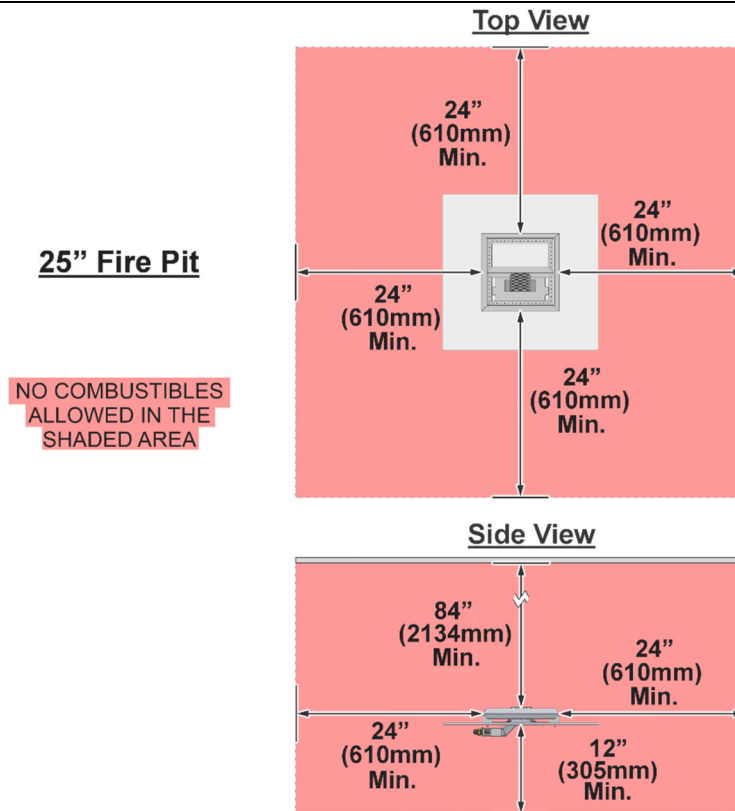
- The appliance must be installed on a level surface capable of supporting the appliance's weight.
- The appliance must be placed directly on a wood or non-combustible surface.
- The appliance should be located out of traffic and away from furniture and draperies.
- The distance from the top of the burner to a ceiling above the appliance must be a minimum of 84" (2134mm) for 25", 28", or 33" appliances, 96" (2439mm) for 37" appliances, and 132" (3353mm) for 47" appliances.

Do Not Locate the Appliance:

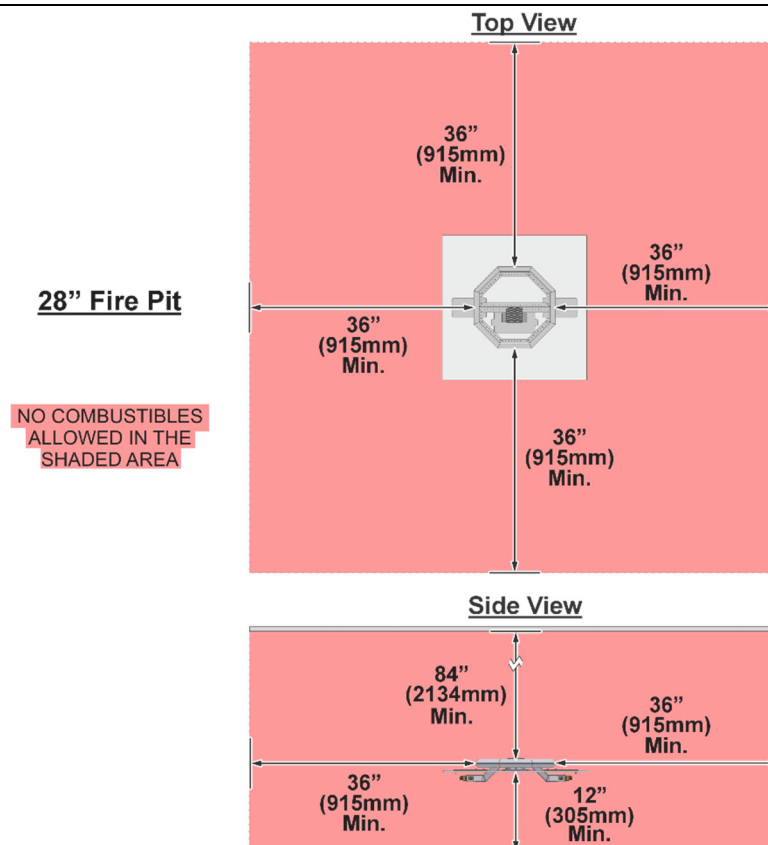
- In high-traffic areas.
- Under or near trees, plants, and buildings where debris may constantly fall into the appliance. Excessive debris will require high maintenance and/or cause malfunctioning of the appliance.
- In places where people, children, and pets may contact the appliance. Guards or fences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

Clearances

25" VF Fire Pit ONLY



28" VF Fire Pit ONLY

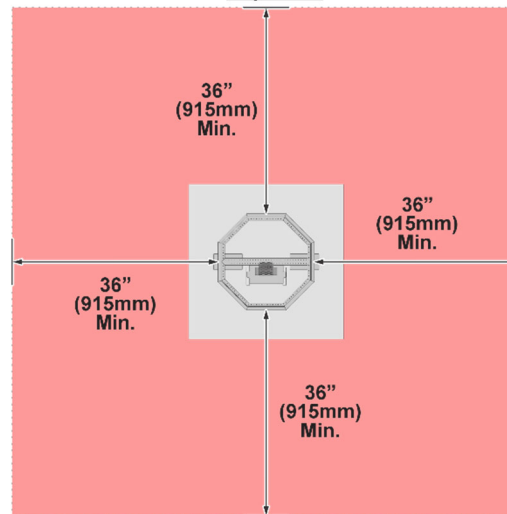


33" VF Fire Pit ONLY

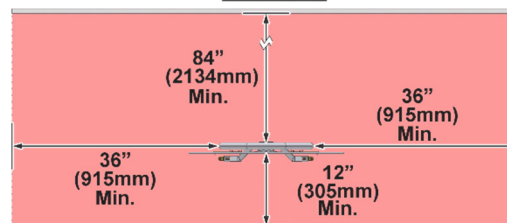
33" Fire Pit

NO COMBUSTIBLES
ALLOWED IN THE
SHADED AREA

Top View



Side View

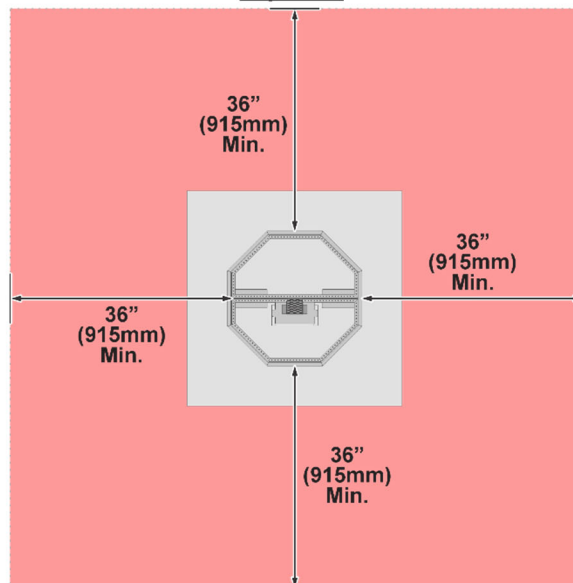


37" Fire Pit ONLY

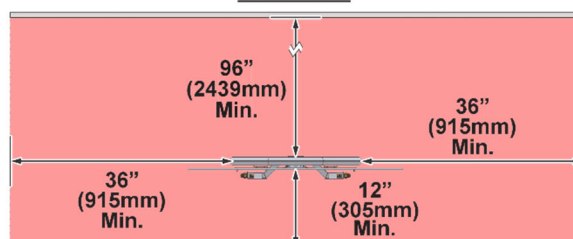
37" Fire Pit

NO COMBUSTIBLES
ALLOWED IN THE
SHADED AREA

Top View



Side View

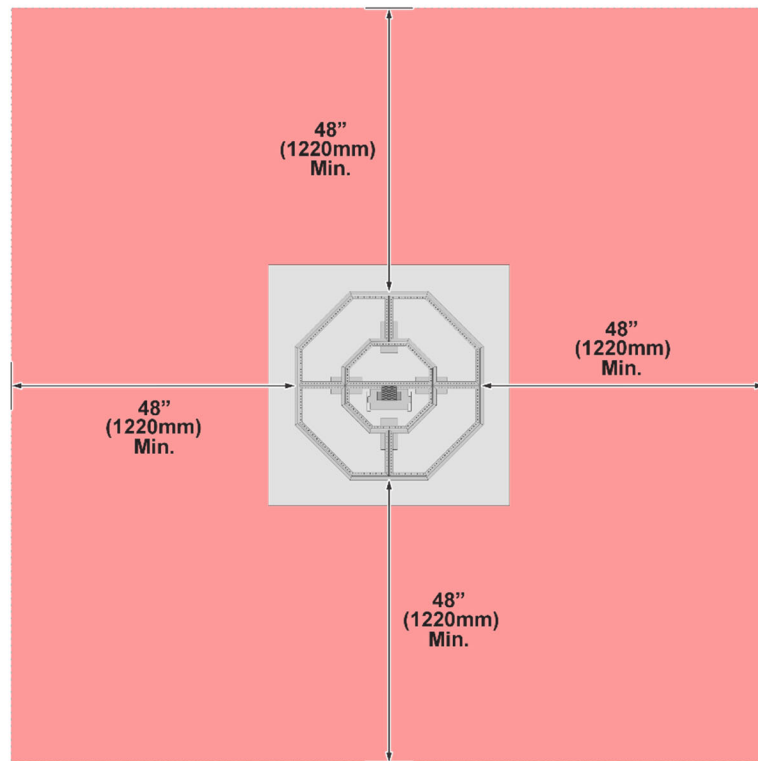


47" VF Fire Pit ONLY

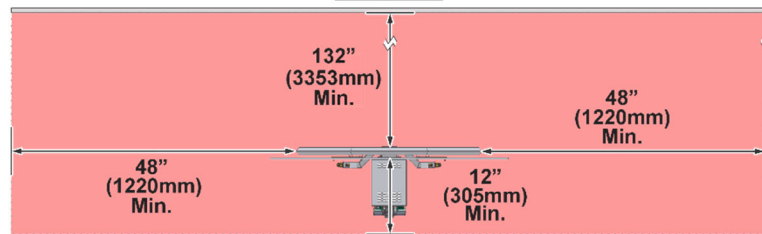
47" Fire Pit

NO COMBUSTIBLES
ALLOWED IN THE
SHADED AREA

Top View



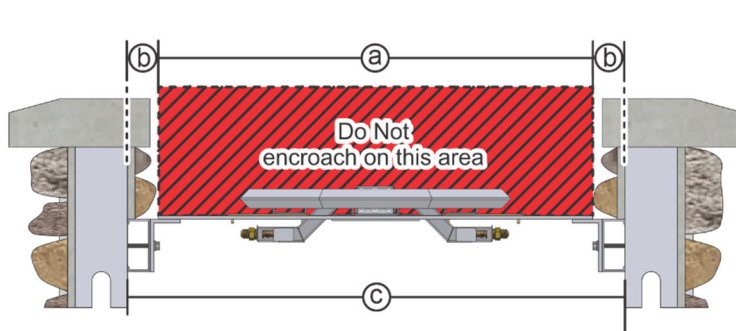
Side View



Minimum Framing Dimensions

If framing an enclosure for the VF fire pit, the following requirements must be met:

- The enclosure must be constructed entirely out of non-combustible materials.
- The fire pit must be recessed into the enclosure a minimum of 4" and a maximum of 8" from the top of the base plate to the top of the finish material.
- Accessing the components of the firepit for service or repair requires removing the fire pit assembly from the fire pit enclosure. Do not encroach on the footprint of the fire pit base plate with any finish material (see illustration below).
- The framing width of the enclosure is determined partially based on the finished material being used on the enclosure. To determine the width of the framing, take the outside dimensions of the bottom plate, add the thickness of the finish material, and add the thickness of the backer board to be used. Multiply that by 2 and add it to the width of the bottom plate. That calculation provides you with the minimum inside width of the enclosure.



$$a + (b \times 2) = c$$

a = Width of plate

b = Width of finish material

c = Inside framing dimension for enclosure

Example:

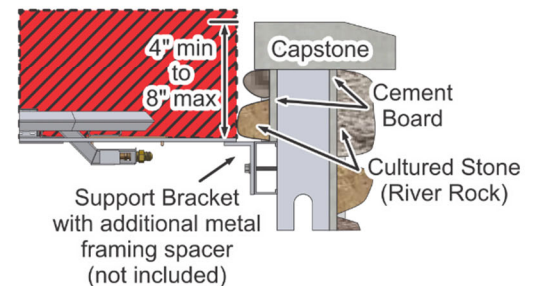
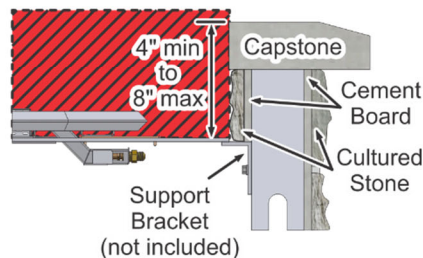
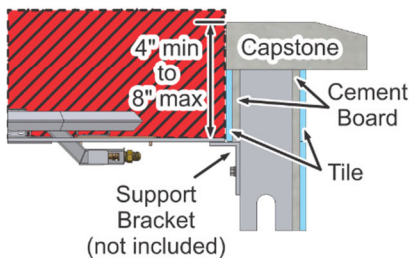
If a = 28" and b = 3"

What is c (the inside framing dimension)?

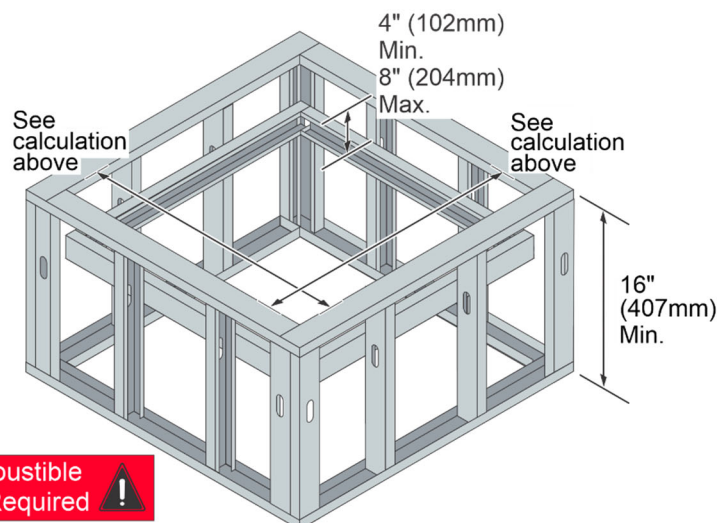
$$28" + (3" \times 2) = ?$$

$$28" + 6" = 34"$$

$$c = 34"$$



VF Fire Pit Burner Framing



**Non-combustible
Framing Required**

Enclosure Ventilation Requirements

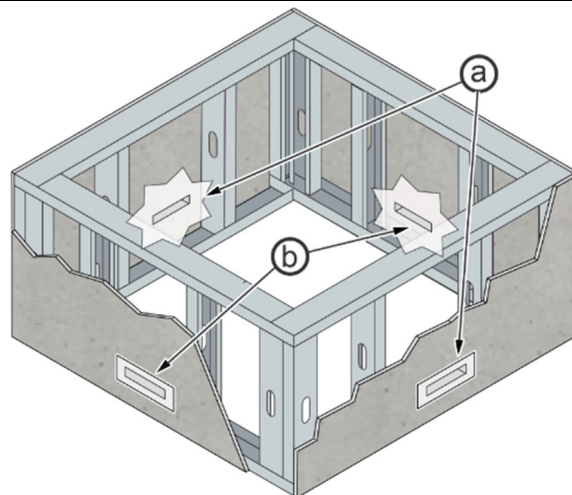
The VF Fire Pit burner enclosure must be ventilated to properly cool the fire pit (see illustration below for details).

! WARNING !

The enclosure must be ventilated in accordance with the requirements listed below to allow the appliance to cool. Failure to provide this ventilation will create a severe fire risk. The ventilation grills must be installed within 24" of the appliance.

Enclosure Ventilation Overview

- The VF Fire Pit Burner enclosure must have at least (2) vents. The vents must be on opposite sides of the enclosure from each other (either on the ends (a) or along the sides (b)). Each vent must provide a minimum of **9 square inches** of free area.



Example: If (w) = 4" and (h) = 2"

4" x 2" = 8 square inches
8" < 9" (the minimum)



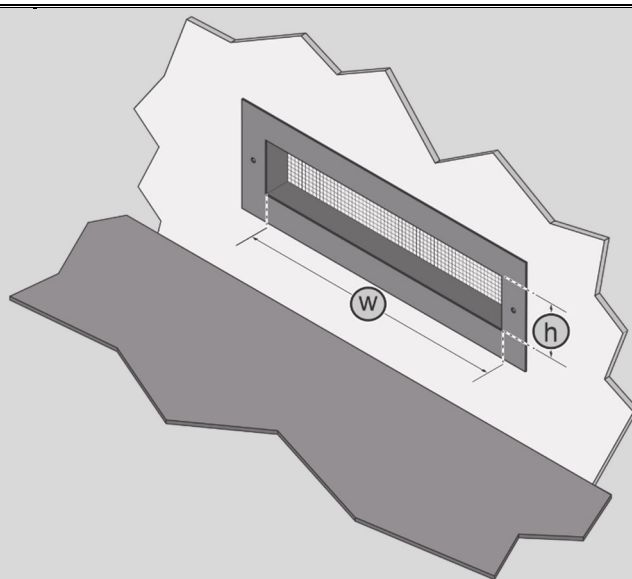
NOT LARGE ENOUGH

Example: If (w) = 12" and (h) = 2"

2" x 12" = 24 square inches
24" > 9" (the minimum)



LARGE ENOUGH



Enclosure Ventilation Grills

- Use grills to ventilate the enclosure. The grills must provide 18 square inches of free area opening (9 square inches each) into the enclosure cavity. The grills must be located within 24" of the appliance.
- The grills must be attached directly to the enclosure cavity.
- The grills must have a 1/4" screen to prevent debris, animals, etc., from entering the enclosure.
- The grills should not be placed in a location where they could become blocked.
- The ventilation air for the enclosure **MUST** be drawn from outdoor air only.
- The grills should be installed into the enclosure as low as possible.
- Facing may be applied over the flange of the grills but cannot protrude over the screened opening.
- The grills may be painted.
- The grills must be located within 24" of the appliance.

Landscaping Block Enclosure Ventilation (Optional) (94601025)

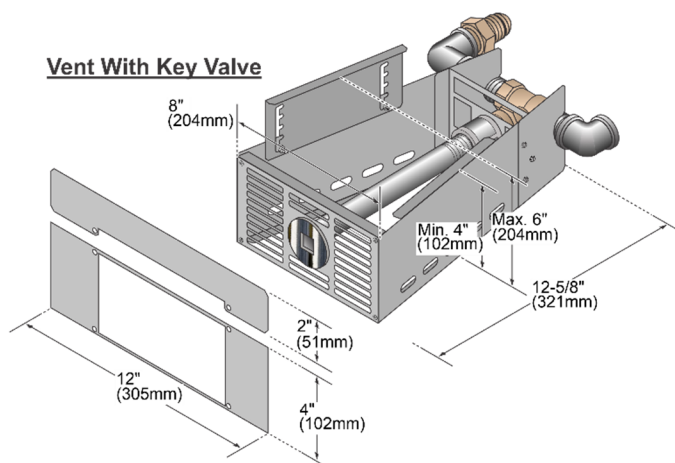
If using landscaping blocks to build the enclosure there is an optional key valve/ventilation kit to provide the required ventilation for the enclosure. This kit is also used as the control system with match light systems but can be used in conjunction with the Pulse or 24v Ignition systems to provide ventilation and a gas shutoff.

- The assemblies can accommodate 4" to 6" high block sizes. Adjust the brackets on the assembly to accommodate heights of more than 4 inches.

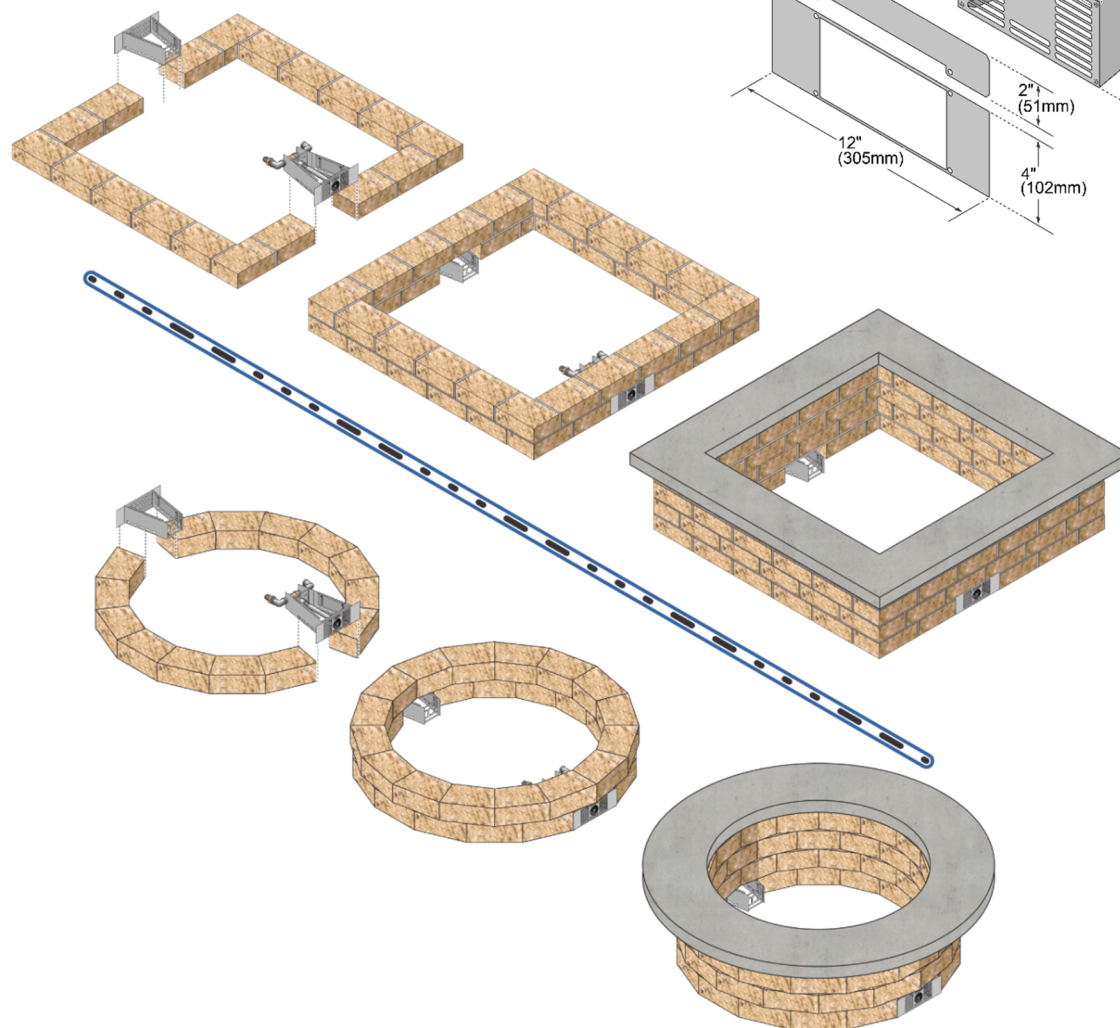
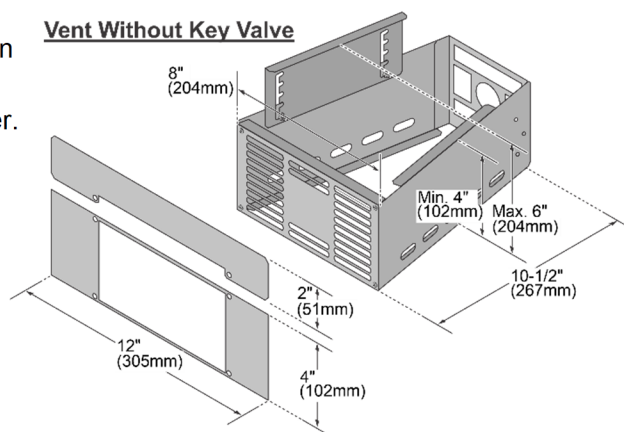
NOTE: The assemblies are designed to fit a 4" high x 8" wide opening in the block. Two optional front plates can be added to increase the size to 6" high x 12" wide. The plates can be trimmed to accommodate sizes in between (see illustrations to the right).

- The ventilation air for the enclosure **MUST** be drawn from outdoor air only.
- The vents must be located within 24" of the appliance.
- The vents must be kept free from vegetation or debris that can restrict the flow of air.
- The vents must be installed on opposite sides from each other.
- The vents must be installed in the first course of brick in the enclosure.

Vent With Key Valve



Vent Without Key Valve

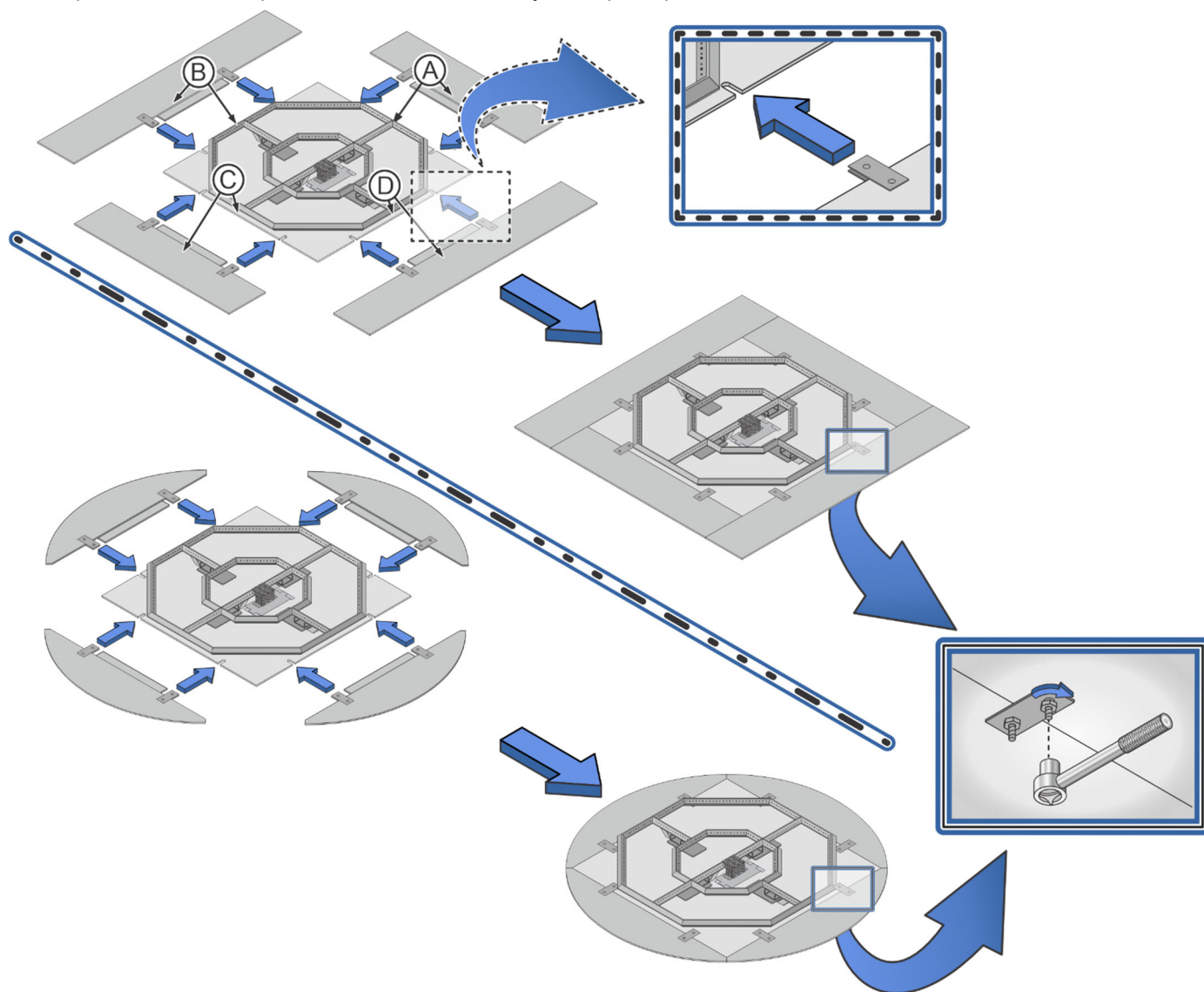


Assembling the Base Plate

The fire pits are shipped with an attached main base plate, but an additional 4-piece base plate kit is required to complete the firepit and determine the shape (round or square) (see page 10 for part numbers). A base plate kit **MUST be used for all installations.**

Follow the steps below to assemble the fire pit burner assembly for installation.

- Each of the secondary base plates are marked with a letter A through D. These letters correspond with letters on each of the (4) sides of the main base plate. Make sure that the letters match when installing the secondary base plates to the main base plate.
- There are brackets attached to each of the secondary base plate sections. Align the brackets with the notches in the main base plate (see illustration below).
- Push the secondary base plates up against the main base plate until there is no gap between them.
- Secure the secondary base plates to the main base plate. Use a 7/16" ratchet or nut driver to tighten the nuts on the underside of the brackets to secure the plates.
- Repeat the same steps with the other secondary base plate panel.



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.

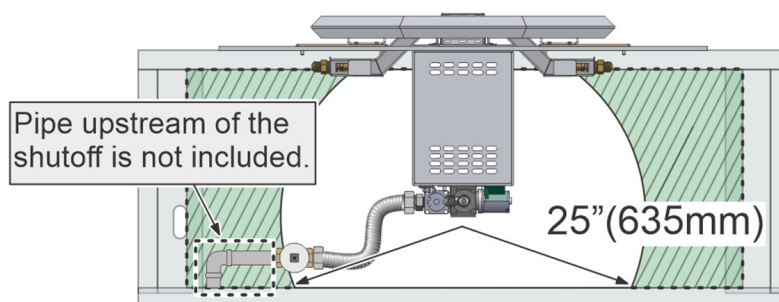
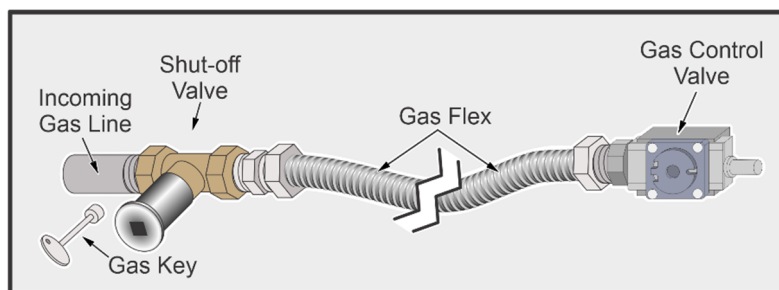
OTHER MASSACHUSETTS CODE REQUIREMENTS:

- Flexible connector must not be longer than 36 inches.
- Shutoff 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 appliance 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 Fire Pit Burner.

Gas Line Connection

- Installation must be performed by a qualified installer, service agency, or the gas supplier (In Massachusetts a licensed plumber/gasfitter).
- An accessible manual gas shutoff valve is required on the gas supply to the appliance and must be installed upstream of the appliance gas control valve. Check with the local authority having jurisdiction for any additional requirements.
- The supply regulator (the regulator that attaches directly to the residence inlet or the propane tank) should supply gas at the required input pressure detailed in the section "Gas Specifications" on page 5. Contact the local gas supplier if the regulator is at improper pressure.
- The gas should be stubbed into the area under the appliance indicated by the shaded boxes (see diagrams to the right and below).
- If the key valve is located within 25" of the appliance gas control valve, the included gas flex will provide sufficient length to make the connection (see right). If the key valve is located in the striped areas shown, additional gas pipe will need to be supplied by the installer.
- The appliance comes with a 34" flex attached to the fire pit gas control valve. Connect the other end of this flex to the key valve in the firepit enclosure wall.
- Connect the incoming gas line to the key valve using either flex and an adapter or hard pipe (not included).



LP Conversion

The appliance comes configured for Natural Gas from the factory. A kit to convert the fire pit to use propane (LP gas) is included with the fire pit.

The LP conversion kit contains the burner orifice(s) listed under LP in the chart below:

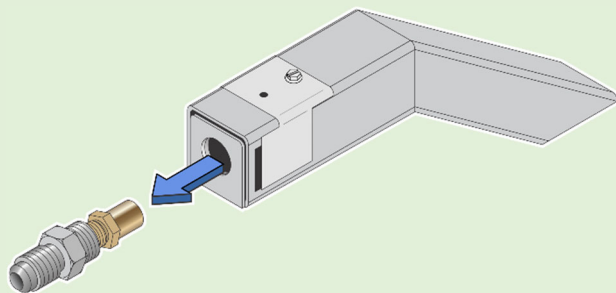
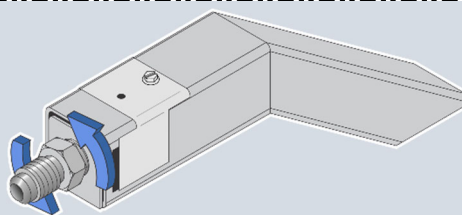
25" Fire Pit Burner	NG	LP
	(1) - #30	(1) - #42
28" Fire Pit Burner	NG	LP
	(2) - #30	(2) - #43
33" Fire Pit Burner	NG	LP
	(2) - #21	(2) - 7/64"
37" Fire Pit Burner	NG	LP
	(2) - #19	(2) - #31
47" Fire Pit Burner	NG	LP
	(4) - #21	(4) - #36

! WARNING !

This conversion kit must be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion, or production of carbon monoxide may result causing property damage, personal injury, or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

LP Conversion Steps

1. Turn the fire pit over and place it on a soft, protective surface such as cardboard or a drop cloth. Remove the gas flex from the appliance adapter.
2. Unscrew the appliance adapter from the air mixing tube as shown to the right.

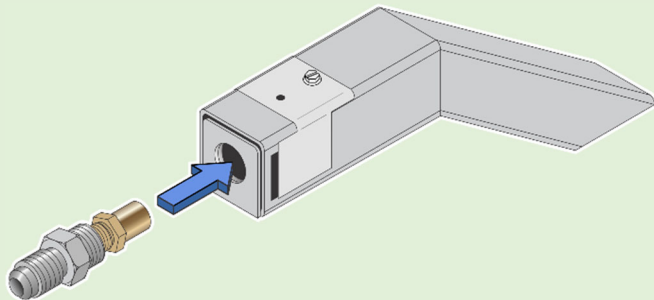
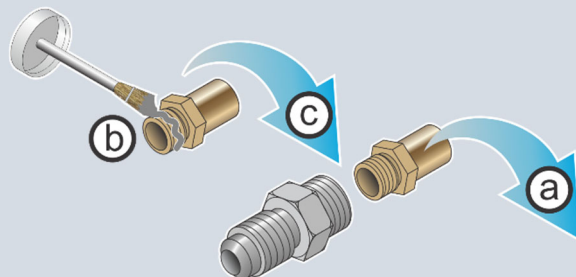


3. Remove the appliance adapter and the attached NG burner orifice from the mixing tube

LP Conversion Steps – Cont.

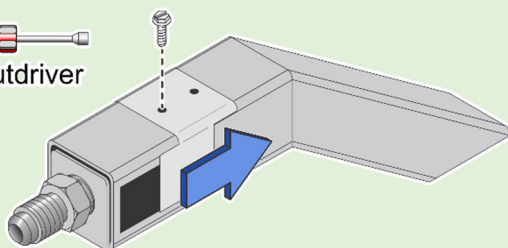
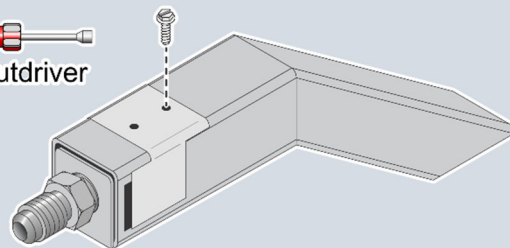
4. Remove and replace the NG burner orifice with the correct LP orifice (see chart above).

- (a) Unscrew the NG orifice from the appliance adapter.
- (b) Apply appropriate thread sealant to the threads of the LP burner orifice.
- (c) Screw the LP orifice into the appliance adapter.



5. Reinstall the appliance adapter and orifice assembly into the mixing tube

6. Use a 1/4" nut driver to remove the screw that secures the air shutter to the mixing tube.



7. Slide the air shutter open until the previously unused hole is in line with the hole in the mixing tube. Reinstall the screw removed in the previous step to secure the air shutter to the mixing tube.
8. Reattach the gas flex to the appliance adapter. Make sure to check this connection to make sure there is no gas leak after installation.

Ignition System Details (Match Light, Pulse, & 24v Ignition)

Optional Match Light Kit (94601025)

This kit can be used with all Fire Garden Fire Pits when it is being used as a gas supply shutoff and enclosure vent. When being used in this manner, there must be another control system in place to operate the gas flow to the burner of the appliance (Fire Garden – Pulse Ignition Kit sku# 94601273 or the Fire Garden – 24v Ignition kit sku# 94601272). This provides the means to turn the gas supply completely off to the appliance, as well as providing the required ventilation for the enclosure, as detailed in the appliance manual.

This kit can also be used as a standalone “Match Light” control system for the Fire Garden Linear 36” Burner and the 25” Voracious Fire Burners **ONLY**. When used as a control system, there are a few things that should be considered.

1. There is no “safety pilot” when used as a match light control system.

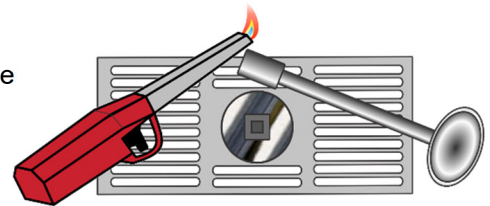
Why this matters.

If the burner flame goes out due to wind or other circumstances, gas flow will continue through the burner until someone physically turns the key valve to the off position. There is no mechanism for the appliance to try to relight itself or turn off the gas supply.

2. There is no igniter.

Why this matters.

With this kit, used as a control system, the person operating the appliance must light a long match or long lighter and hold it next to the burner while turning on the gas flow using the manual key valve.



3. This kit can only be used as a control system for appliances that are rated for 65,000 BTUs per hour or less.

Why this matters.

There are only two Fire Garden appliances that are rated at 65,000 BTUs per hour or less:

- Fire Garden Linear 36” Burner – sku# 94900434
- Fire Garden Voracious Fire (VF) 25” Burner – sku# 94900345



WARNING



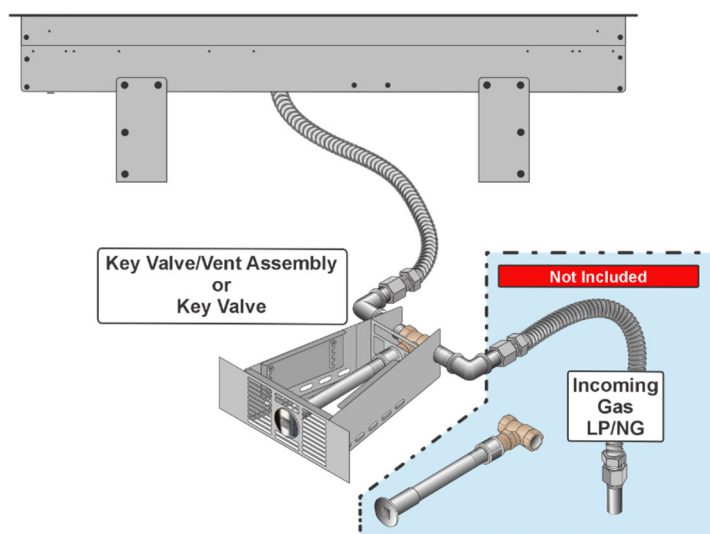
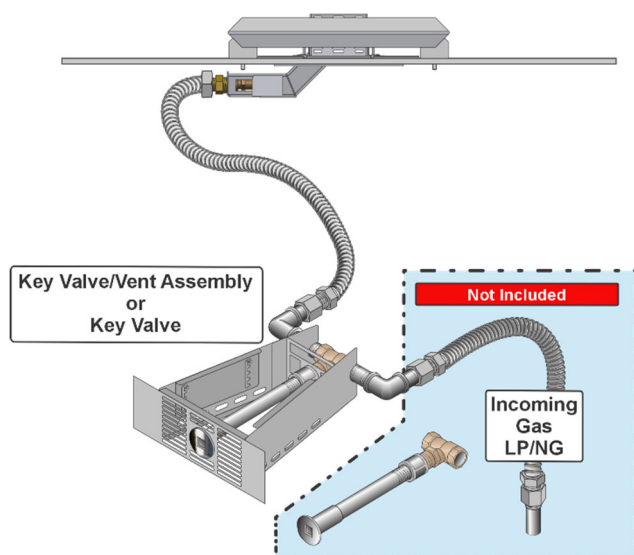
DO NOT ATTEMPT TO USE THIS KIT AS A CONTROL SYSTEM FOR ANY OTHER FIRE GARDEN APPLIANCE.



WARNING



- This kit requires the use of a long match or long lighter to light the appliance. Read the appliance operating instructions thoroughly BEFORE attempting to light the appliance. Not following the lighting and operating instructions in full can lead to property damage, injury, and loss of life.
- Ensure that a responsible adult, familiar with the operation of this appliance, is present whenever this appliance is in use.
- Verify that there is no debris over the burner or firepit media before lighting the appliance.
- Installation and service of this appliance must only be performed by a qualified service professional.
- When installed in the manner described in the instructions below, if the flame is extinguished, gas will continue to flow from the burner unit until the gas shutoff is manually turned to the OFF position.



Packing List

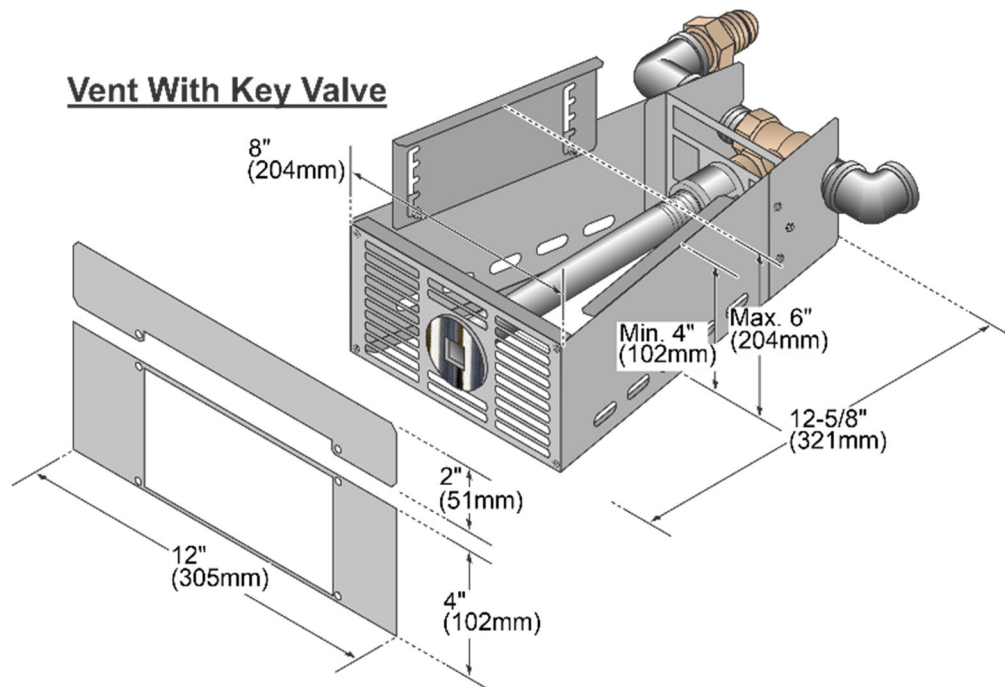
- (1) Enclosure vent assembly with Key Valve
- (1) Enclosure vent assembly without Key Valve
- (1) 18" Gas Key

Additional Items Needed

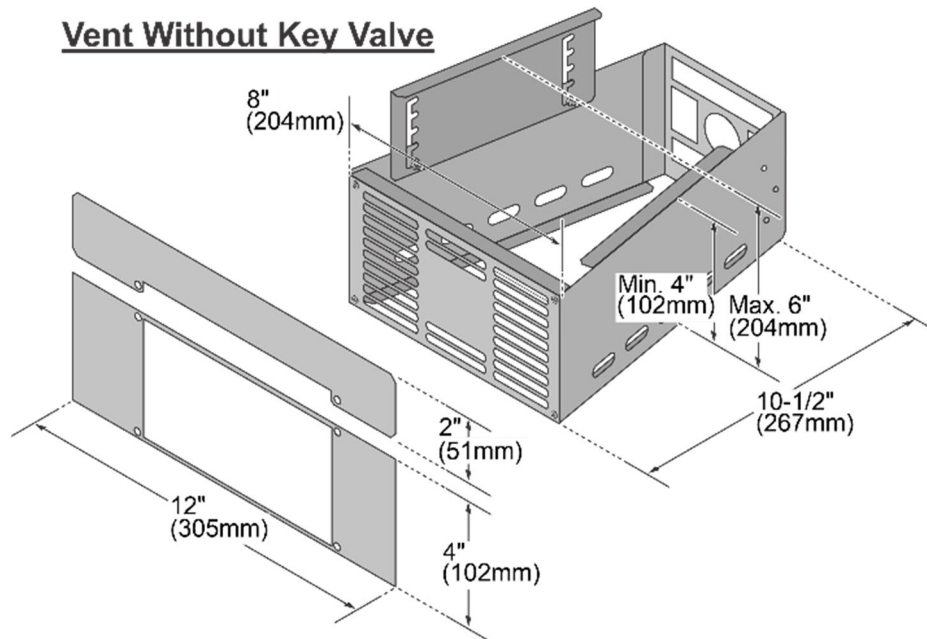
- Gas line and fittings from the gas supply to the inlet of the key valve.
- Thread Sealant (pipe dope).

Dimensions

Vent With Key Valve



Vent Without Key Valve



Installation

- The assemblies can accommodate 4" to 6" high block sizes. Adjust the brackets on the assembly to accommodate heights of more than 4 inches.

NOTE: The assemblies are designed to fit a 4" high x 8" wide opening in the block. Two optional front plates can be added to increase the size to 6" high x 12" wide. The plates can be trimmed to accommodate sizes in between (see illustrations to the right).

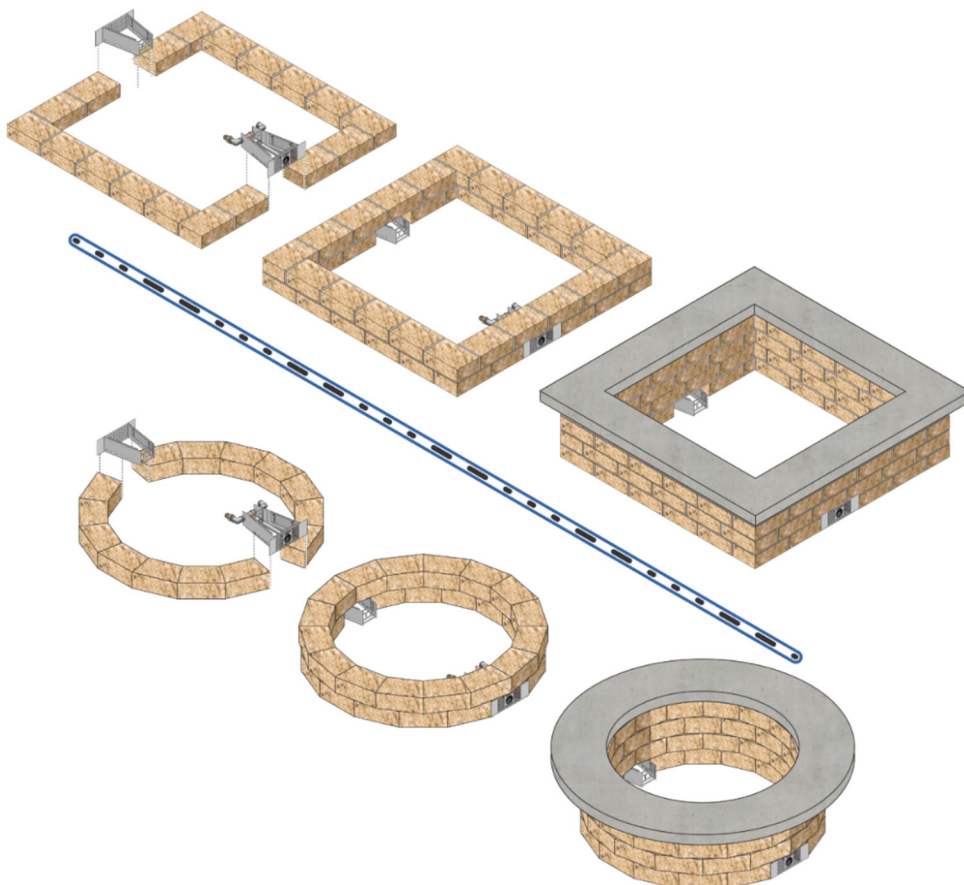
- The ventilation air for the enclosure **MUST** be drawn from outdoor air only.
- The vents must be located within 24" of the appliance.
- The vents must be kept free from vegetation or debris that can restrict the flow of air.
- The vents must be installed on opposite sides from each other.
- The vents must be installed in the first course of brick in the enclosure.

1. Lay the first course of block and place the vent assemblies in the desired locations, opposite each other.
2. Lay the remaining courses of block as normal.
3. Install capstone material if applicable.
4. Connect the gas flex supply line to the key valve flare fitting.

NOTE: Do not use thread sealant on the flare fitting connections.

5. Connect the gas flex from the appliance to the flare fitting on the outlet of the key valve.
6. If using this kit in conjunction with another control system, proceed with the installation steps outlined in the control system's instructions.

If using this kit as a match light kit, lower the appliance into the enclosure and follow the instructions in the appliance manual regarding the installation of media.



Operating the Appliance – When used as a control system

Ignition



WARNING



Lighting a match light firepit requires being in close proximity to the appliance during the starting process. Take care that no loose clothing, long hair, or any part of your body is above the burner during the lighting process. We recommend the use of long fireplace matches or long barbecue lighters for igniting the fire pit.

Lighting this appliance should only be performed by a capable adult who understands the proper operation of the appliance.

Match light installations do not use a safety pilot system to turn the gas flow off if the pilot is extinguished. When lighting the appliance, you are igniting the burner directly. Light a long match or use a long barbecue lighter and hold the flame over the pilot shield area. With the ignition source lit, open the gas “Key Valve” to the right to allow gas to flow to the burner. With the burner lit, adjust the key valve until the desired flame height is achieved.

Appliance in Operation

The appliance, once lit, will stay lit until the key valve is turned to the OFF position. If the burner is extinguished due to wind or rain, the gas will continue to flow until the key valve is turned off.

Safety Circuit



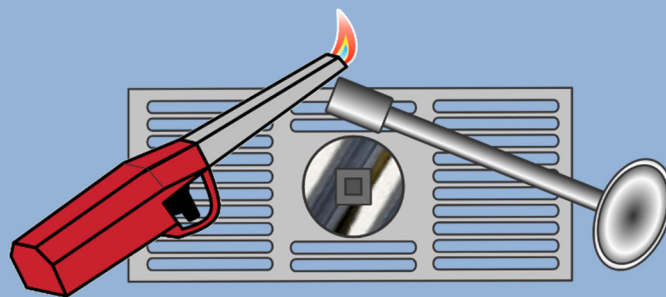
WARNING



There is no Safety Pilot System for match light installations. If the burner flame goes out, gas will continue to flow until the key valve is turned all the way off. We recommend never leaving this type of installation unattended when in use.

Location of Controls

- Match light fire pits are controlled by the key valve (see lighting instructions for details).
- Use a match or long lighter to ignite the burner. Hold the lit match or lighter near the edge of the burner before turning the key valve.
- Use the key to start the gas flow
- Control the flame height with the key valve.
- Turn the key valve to the off position to turn the appliance off.
- Remove the key from the valve and store it in a safe place where children and unauthorized people will not have access.



Operating the Appliance – When used as a Gas Shutoff and Enclosure Vent

Turn the key valve to the on position. Refer to the instructions that came with the other control system kit for details regarding starting the appliance. When the appliance is not in use, the key valve should be turned back to the OFF position.

Optional Pulse Ignition Kit (94601263)

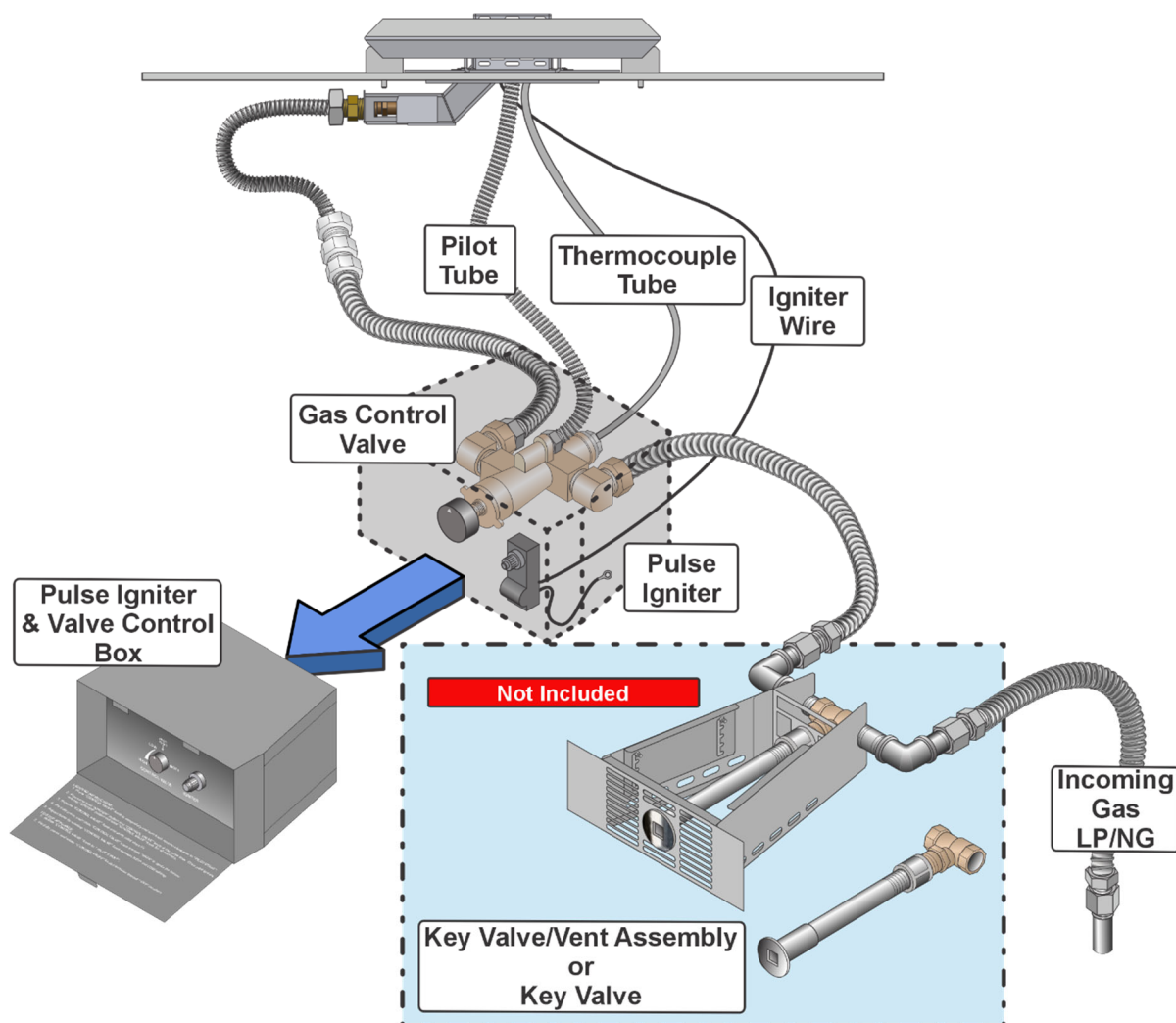
This kit is to be used in conjunction with a Fire Garden Voracious Fire (VF) burner. The kit configures a VF burner to use a pulse igniter to light, and a gas valve with a safety pilot assembly to operate the appliance.



WARNING



This service must only be performed by a qualified service professional.



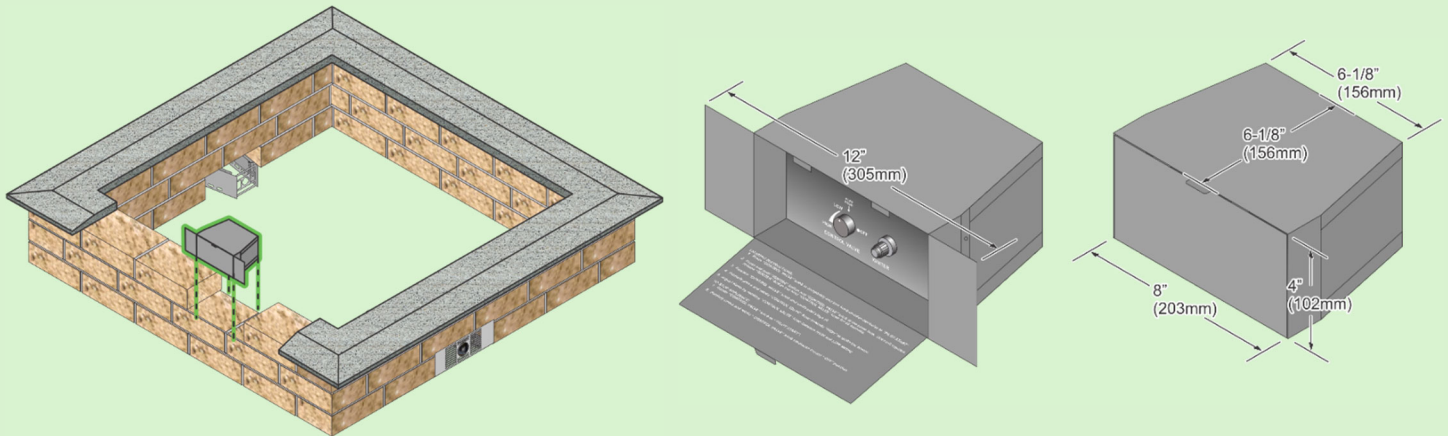
Packing List

- (1) Pulse control box assembly
- (1) 1" Dia. Gas flex line
- Media tray cover
- (1) Pilot Assembly
- (1) AAA Battery
- (2) Control box extensions
- (1) LP Pilot Orifice

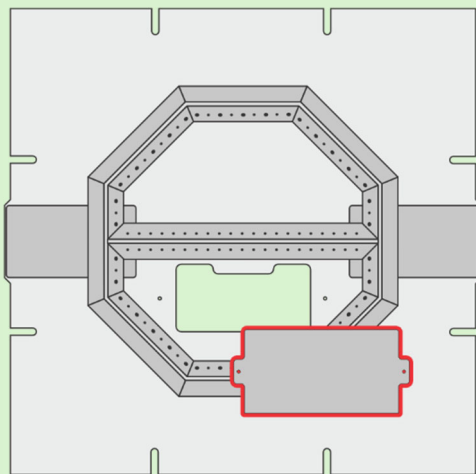
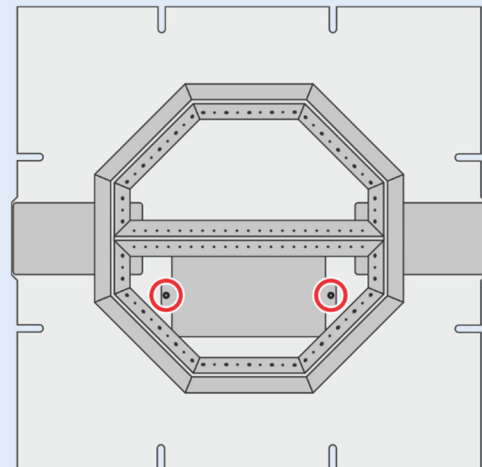
Installation

- Refer to the appliance manual for information regarding the requirements and details for constructing an enclosure for the appliance and accommodating the control box for this kit. Read the manual thoroughly while in the planning stages to ensure a smooth and trouble-free installation.

NOTE: The control box must be installed within 36" (914mm) from the center of the burner.



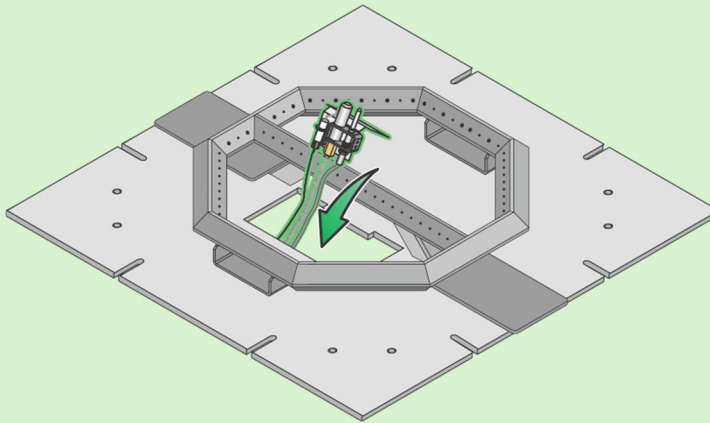
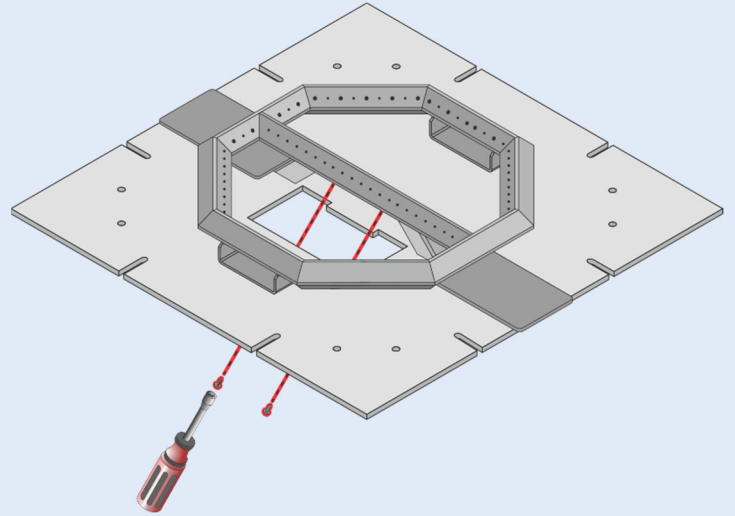
- Remove the (2) 1/4" screws that secure the center media tray cover plate from the media tray (set the screws aside for reinstallation).



- Remove the center media tray cover (can be discarded).

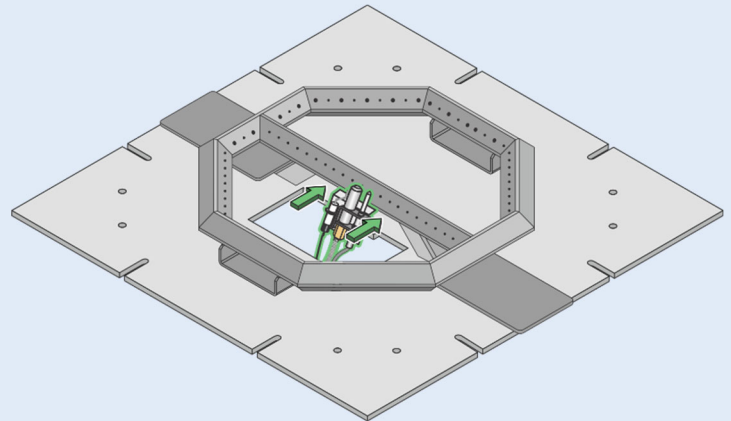
- Use a 1/4" driver to remove the (2) screws on the bottom of the center burner tube (set the screws aside for reinstallation).

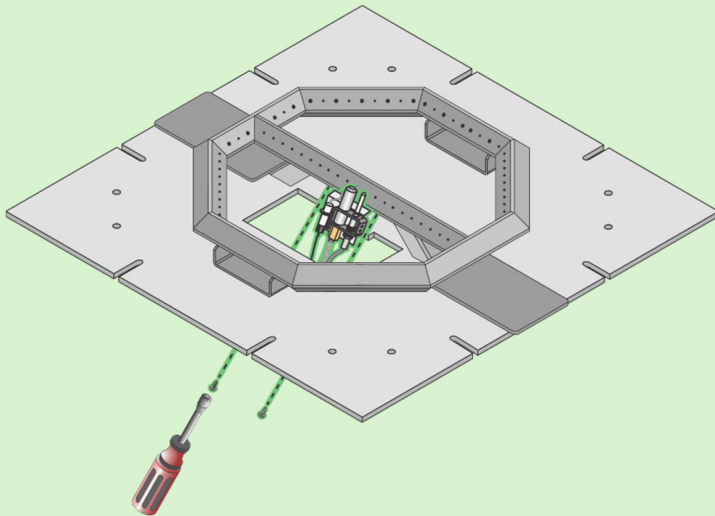
NOTE: You will need to insert the driver through the hole in the base plate to be at the correct angle to engage the screws.



- Guide the pilot tube, igniter wire, and thermocouple tube through the firepit base plate as shown to the right.

- Push the pilot assembly up against the center burner tube. Align the (2) holes in the pilot bracket with the (2) holes on the bottom of the center burner tube.

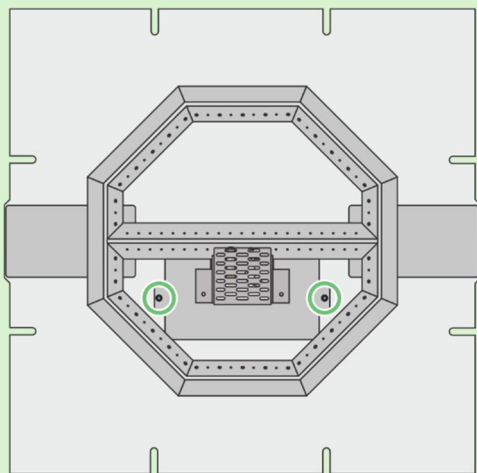
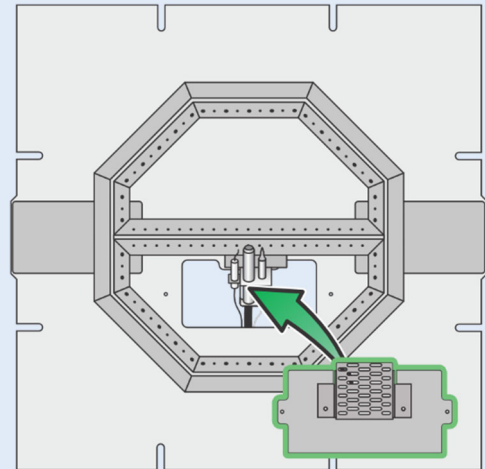




- Use the (2) screws (removed in an earlier step) to secure the pilot assembly to the center burner tube. Use a 1/4" driver to install the screws.

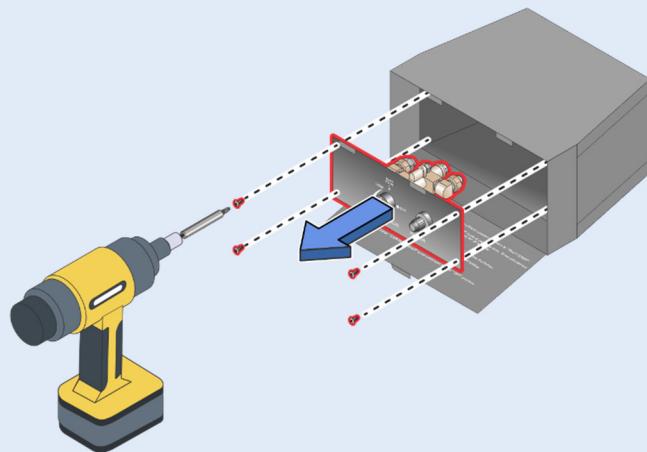
NOTE: You will need to insert the driver through the hole in the base plate to be at the correct angle to engage the screws.

- Install the media tray cover that is included with this kit. Take care not to damage the pilot assembly when putting the media tray cover in place.



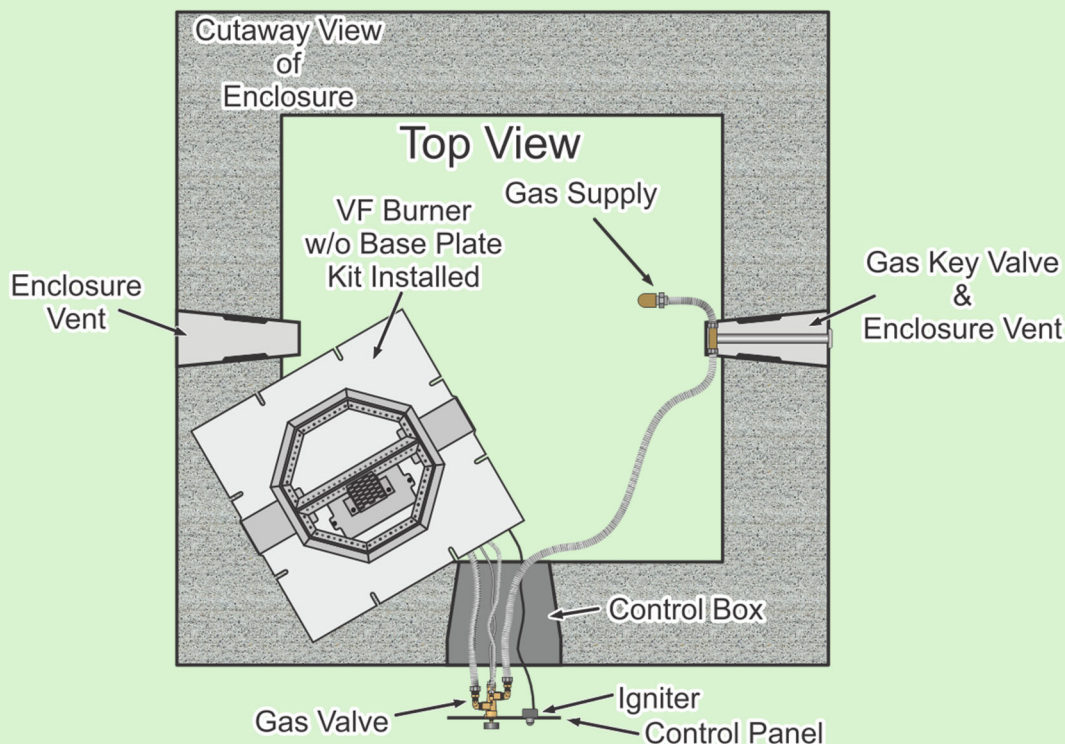
- Use a 1/4" driver to secure the cover plate to the fire pit base plate with (2) of the included screws.

- Use a Philips head driver to remove the (4) screws that secure the control panel to the control box (set the screws aside for reinstallation). Pull the control panel forward to gain access to the back of the valve and pulse igniter.

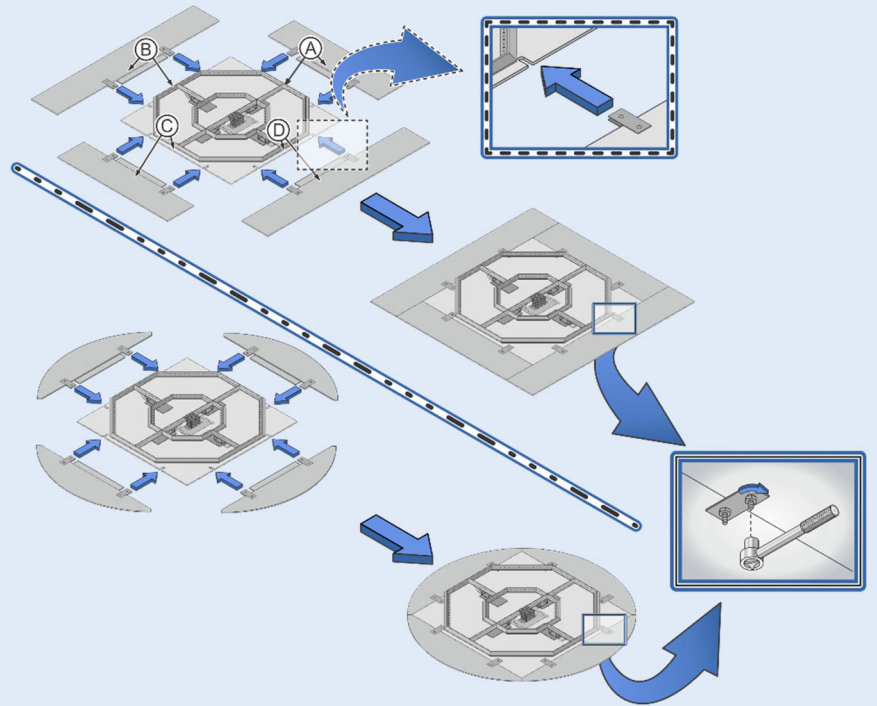


- Set the burner on top of the enclosure as shown below (this will allow access to feed the pilot wires and gas lines to the back of the control panel. Guide the flex lines and igniter wire through the control box before making the connections to the valve and igniter. Make all of the following connections before setting the burner into the enclosure:
 - Gas flex line from the gas supply to a key valve (not included).
 - Flex from the key valve to the inlet of the gas control valve (in the control box).
 - Flex from the outlet of the gas control valve to the linear burner.
 - Pilot tube from the pilot assembly to the gas control valve.
 - Wire from the igniter (pilot assembly) to the pulse igniter (on the control panel).

These connections are detailed in the steps below.

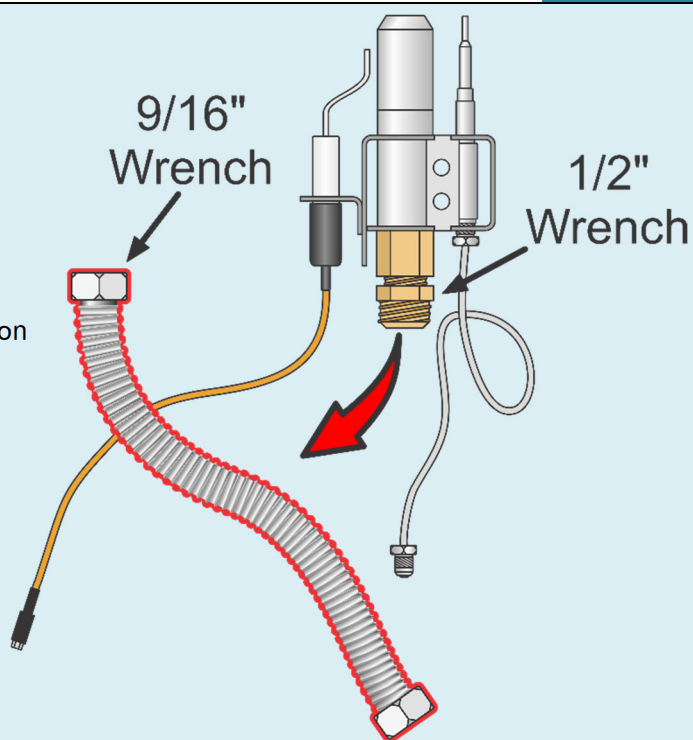


- Install the plate kit onto the main base plate of the fire pit (see appliance manual for details).

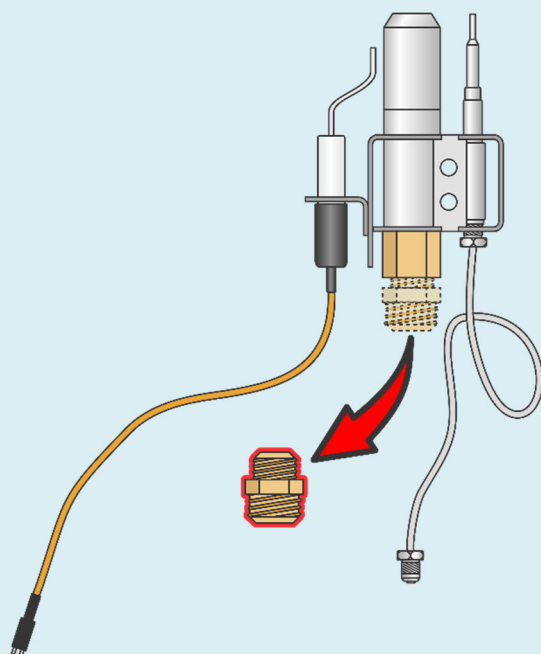


Converting the Pilot Assembly to LP (Optional)

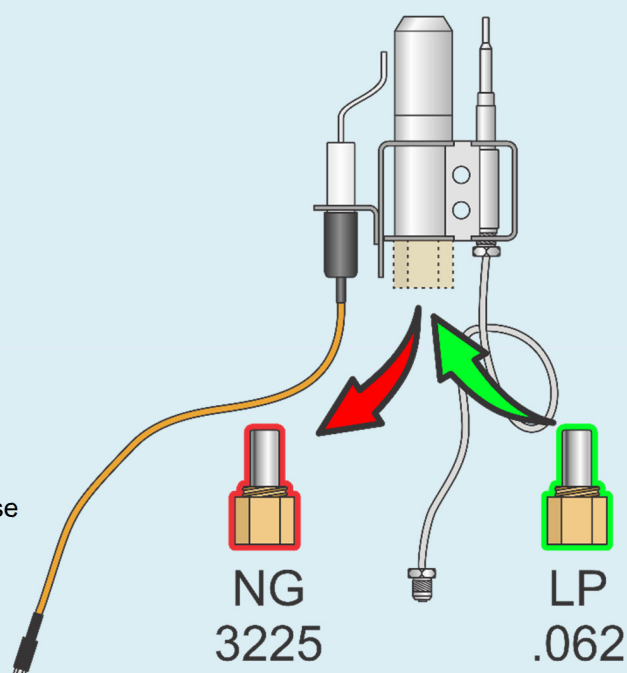
- Use a 9/16" wrench on the flex and a 1/2" wrench on the flex adapter to remove the pilot tube from the adapter. Set the pilot tube flex aside for reinstallation.



- Use a 1/2" wrench to remove the flex adapter from the pilot orifice. Set the flex adapter aside for reinstallation.



- Use a 1/2" wrench to remove the NG pilot orifice (marked 3225) from the pilot assembly. Install the included LP pilot orifice (marked .062) in its place.
 - Reinstall the flex adapter and pilot tube flex.
- NOTE:** These connections are flare fittings. Do not use thread sealant on these connections.

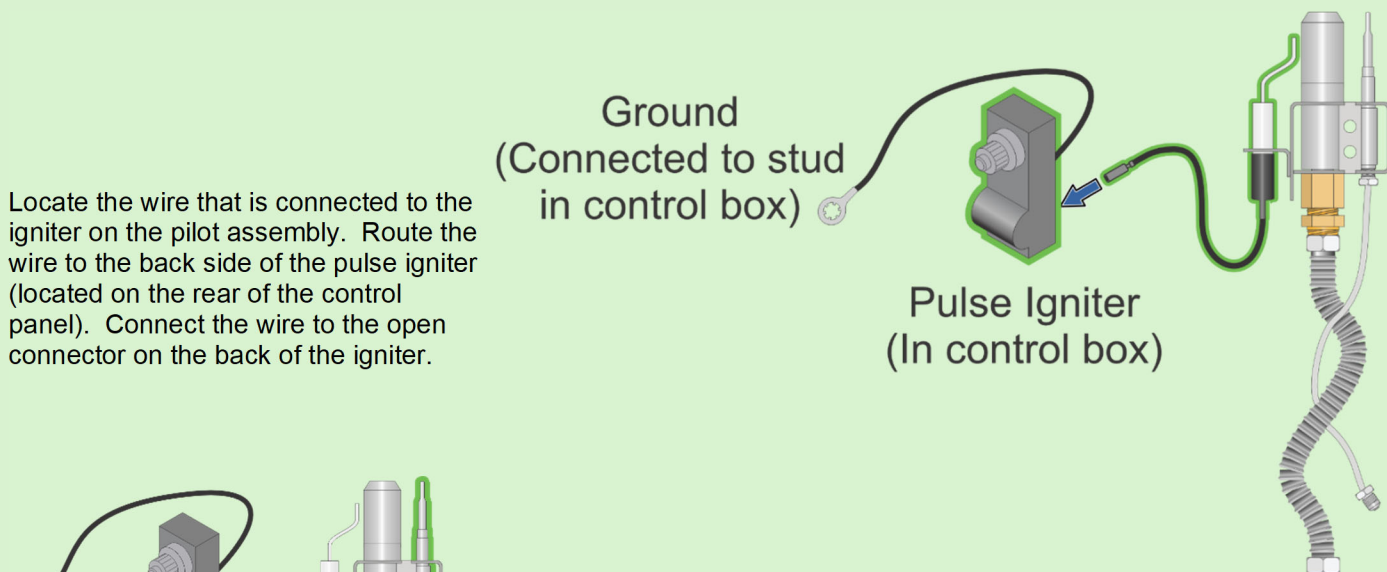


Connecting the Pilot Assembly

- Locate the wire that is connected to the igniter on the pilot assembly. Route the wire to the back side of the pulse igniter (located on the rear of the control panel). Connect the wire to the open connector on the back of the igniter.

Ground
(Connected to stud
in control box)

Pulse Igniter
(In control box)



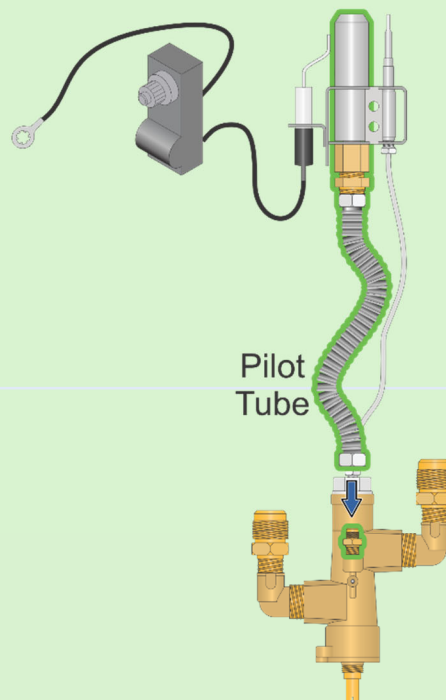
- Gently uncoil the thermocouple tube and route the free end to the back of the gas control valve (located on the rear of the control panel). Screw the free end of the thermocouple tube into the silver fitting in the center of the main valve body. Seat the fitting snugly, but **DO NOT OVERTIGHTEN THE FITTING.**

Thermocouple
Tube

Gas Control Valve
(on the control panel)

- Connect the flex pilot tube to the valve. There is a small flare fitting on the center-top of the valve. Attach the pilot tube to this fitting and tighten to ensure a good seal.

NOTE: This connection is a flare fitting. Do not use thread sealant on this connection.



Pilot
Tube

Gas Control Valve
(On the control panel)

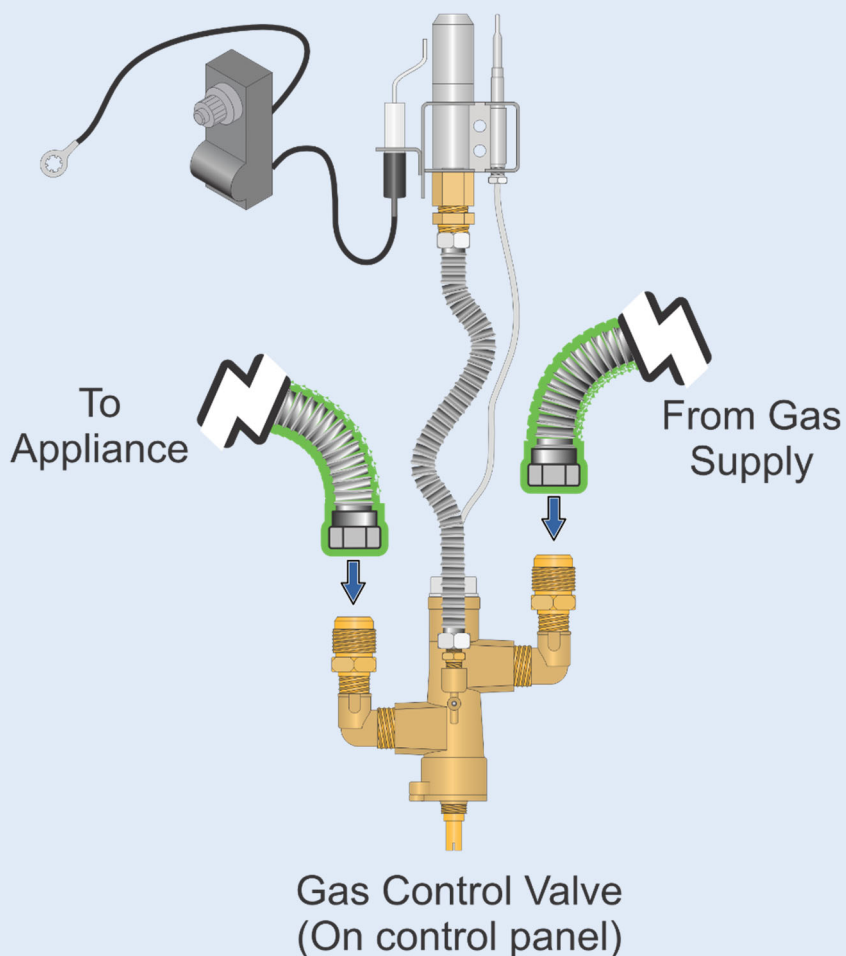
Connecting Gas to the Valve

- Connect the large gas flex that is attached to the appliance to the gas valve outlet (as shown to the right).

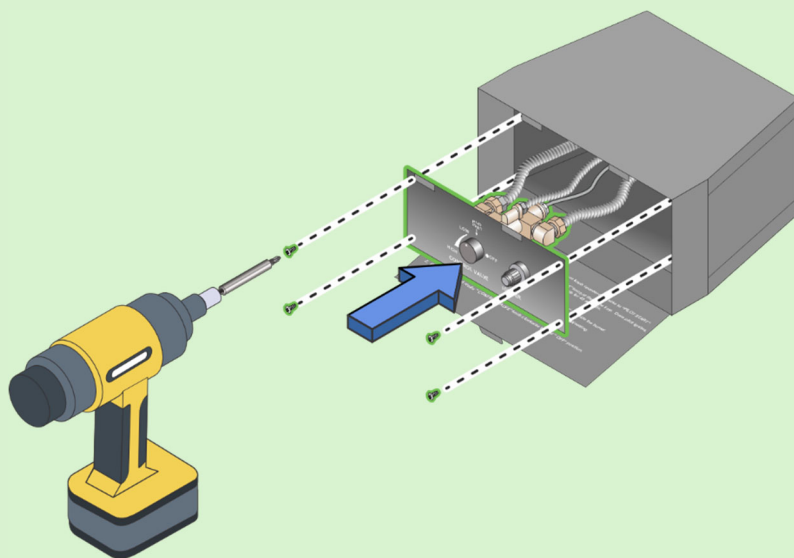
NOTE: The gas outlet on the valve is the one that is closer to the front of the valve.

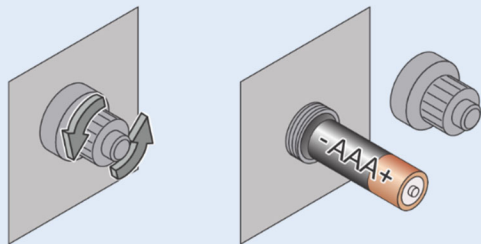
- Connect one end of the gas flex included with this kit to the gas supply and the other end to the inlet on the gas valve (as shown to the right).

NOTE: These connections are all flare fittings. Do not use thread sealant on this connection, but make sure to tighten it well to ensure a good seal.



- Gently guide the flex lines and thermocouple tube back into the control box while pushing the control panel back in place. Use the Philips head screws removed previously to secure the control panel to the box.





- Unscrew and remove the igniter push button cap. Install the included battery, as shown to the left, and reinstall the cap.

- Install the burner assembly into the enclosure and return the appliance to its correct configuration.
- Consult the appliance manual for additional installation options and to ensure that all additional requirements are met.

Operating the Appliance

Ignition

Make sure the gas supply is turned on to the appliance before trying to light the pilot. To light the appliance, press the control valve knob in completely and turn the knob counter-clockwise to the "Pilot Start" setting. Press the control knob all the way in to allow gas flow to the pilot. While pressing and holding the knob in, press and hold the "Igniter" button in until the pilot lights. Once the pilot ignites, release the igniter button while continuing to press the gas control knob. After approximately 45 seconds, slowly release the gas control knob and verify that the pilot remains lit. If the pilot remains lit, partially press and rotate the gas control knob towards the "High" setting to allow gas to flow to the burner. The pilot will then ignite the gas flowing through the burner. Adjust the control valve knob anywhere between the high and low settings for the desired flame height.

NOTE: In rare cases, the pilot may fail to light. In this occurs, wait 30 seconds to allow any gas to dissipate and then follow the instructions above to attempt to light the pilot. If the pilot fails to light after three tries, return the gas control knob to the OFF position, turn off the gas supply to the appliance, and contact a qualified service technician for service.

Appliance in Operation

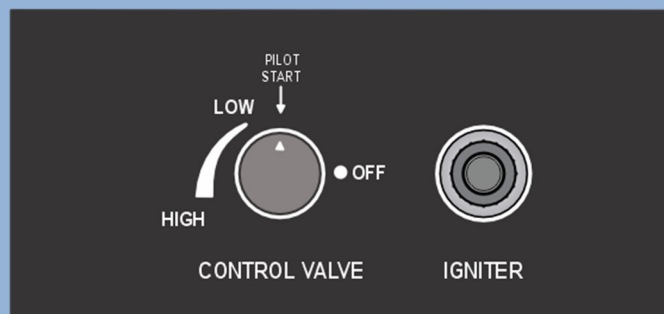
The appliance, once lit, will stay lit until the gas control knob is turned to the OFF position. If the pilot and burner are extinguished due to wind or rain, the gas valve will close, interrupting the flow of gas to the appliance.

Safety Circuit

Each appliance has a built-in safety circuit that only allows gas to flow during the ignition sequence and when the appliance is lit. This prevents gas buildup. The safety circuit relies upon a thermopile to keep the gas valve open. If the flame goes out, the valve will shut the gas off. If a problem persists, call a qualified service technician for service.

Location of Controls

- The igniter button and the knob to operate the valve are located in the control box that is built into the fire pit enclosure.
- Unscrew the igniter button to gain access to the AAA battery that powers the igniter.
- The control knob pushes in to allow gas to flow while lighting the pilot and rotates to control flame height (see lighting instructions for details).

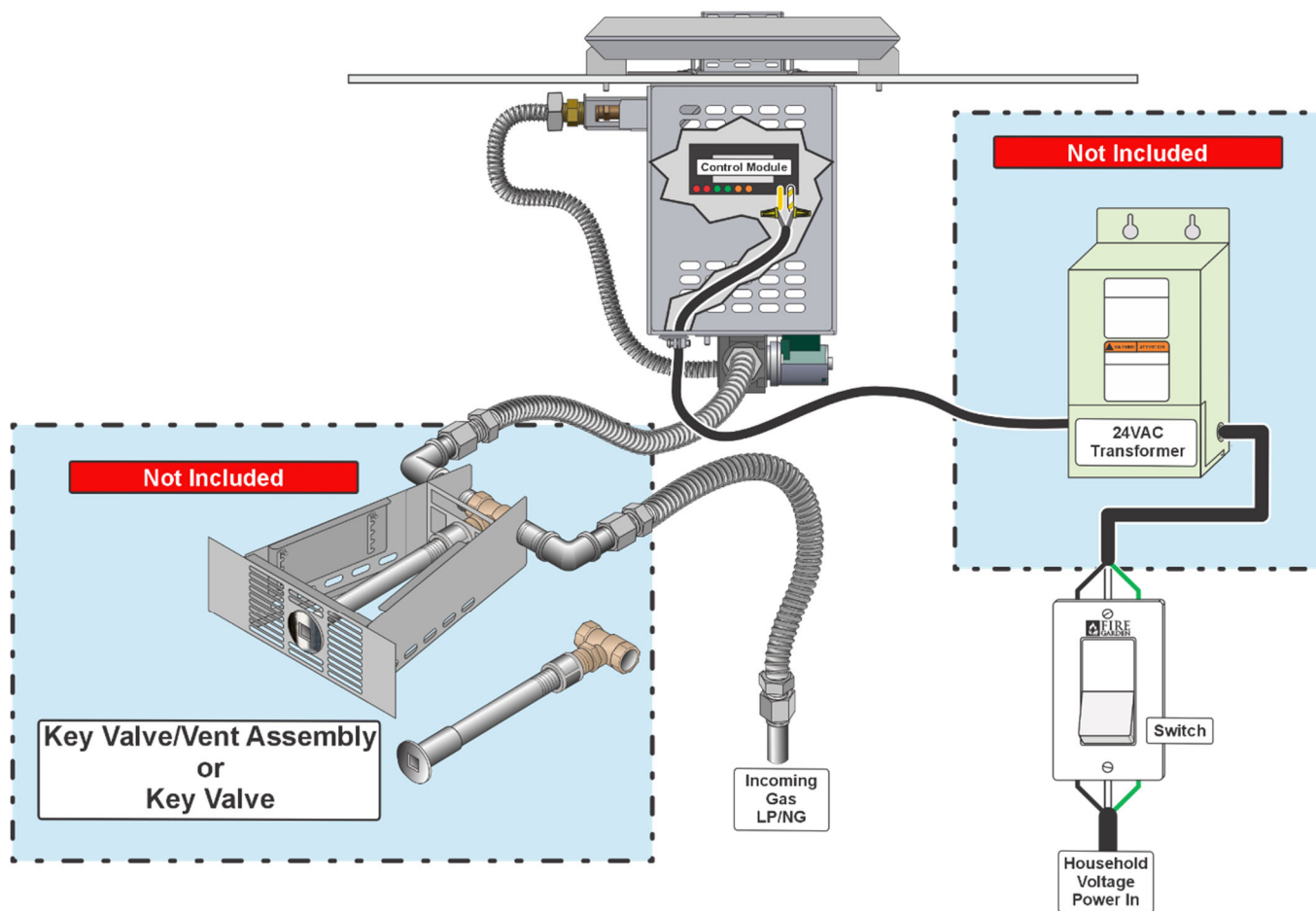


Optional 24v Ignition (94601262)

This kit is to be used in conjunction with a Fire Garden - Voracious Fire (VF) burners. The kit configures a VF burner to use our Hot Shot Igniter™ to light, and a gas valve with a safety pilot assembly to operate the appliance.

WARNING

This service must only be performed by a qualified service professional.

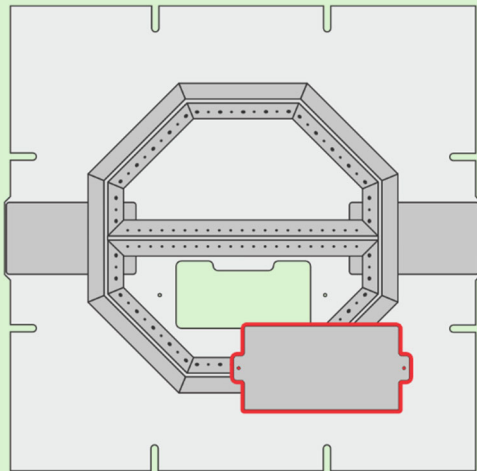
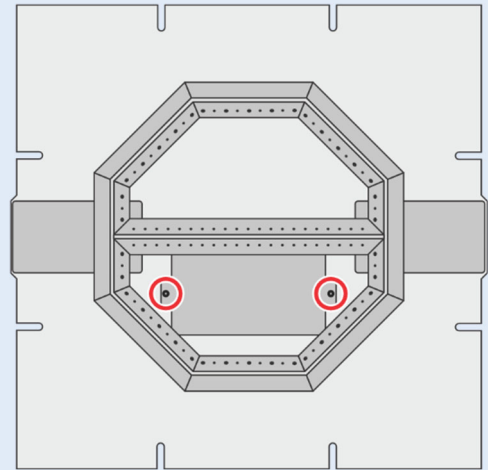


Packing List

- (1) 24v control box assembly
- (1) Pilot Assembly
- Wall Switch
- Media tray cover
- (1) 1" Dia. Gas Flex line
- Switch Cover Plate

Installation

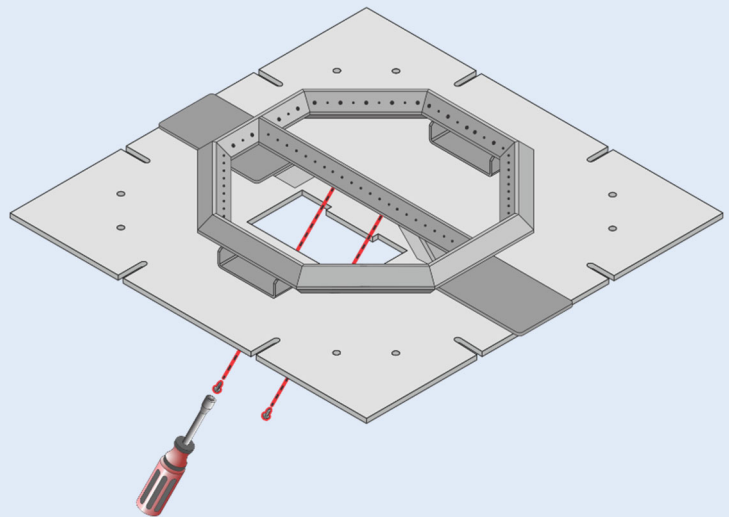
- Remove the (2) 1/4" screws that secure the center media tray cover plate from the media tray (set the screws aside for reinstallation).



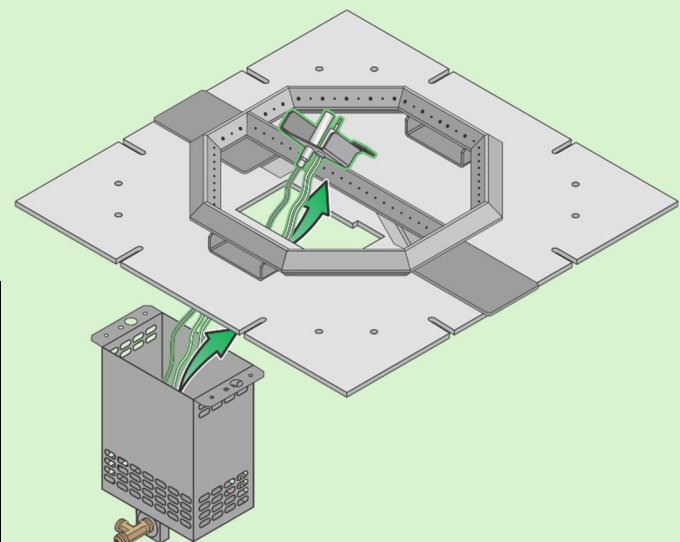
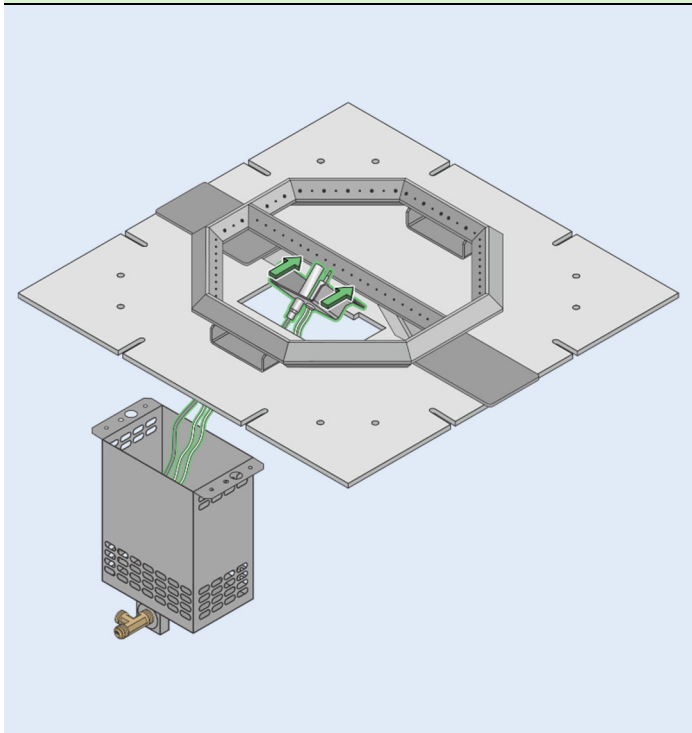
- Remove the center media tray cover (can be discarded).

- Use a 1/4" driver to remove the (2) screws on the bottom of the center burner tube (set the screws aside for reinstallation).

NOTE: You will need to insert the driver through the hole in the base plate to be at the correct angle to engage the screws.



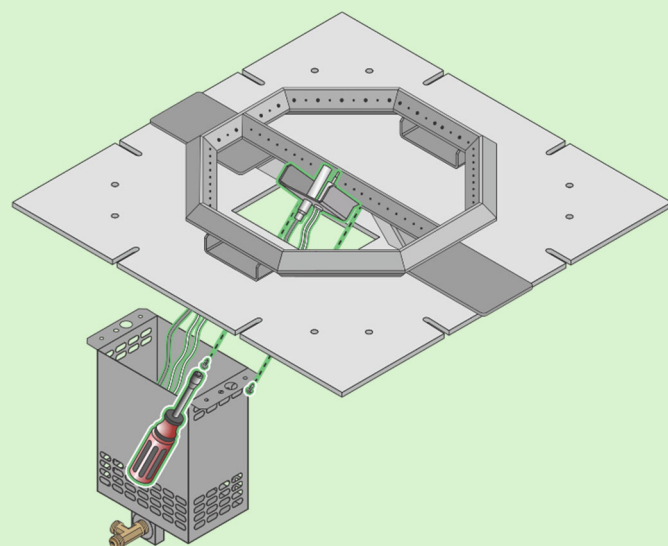
- Gently stretch out the igniter assembly from the control box. Guide the igniter assembly up, through the opening in the base plate as shown to the right.

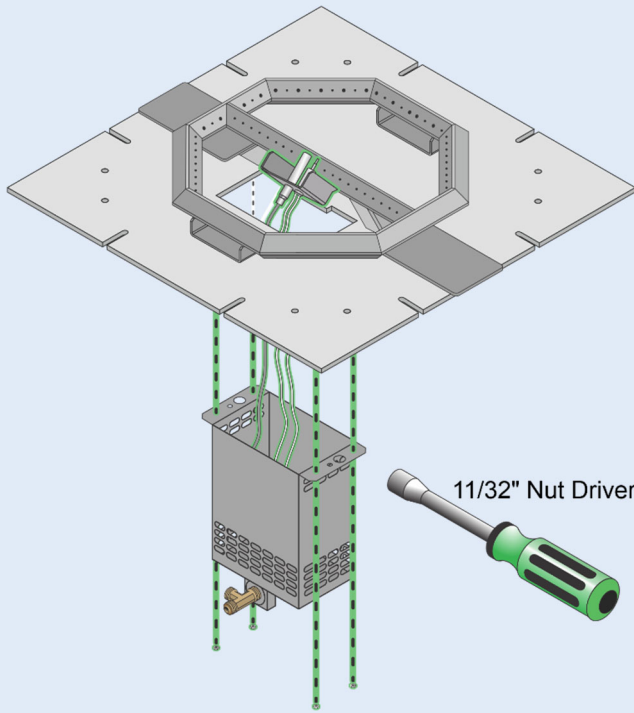


- Push the igniter assembly up against the center burner tube and align the (2) holes in the igniter bracket with the (2) holes on the bottom of the center burner tube.

- Use the (2) screws (removed in an earlier step) to secure the igniter assembly to the center burner tube. Use a 1/4" driver to install the screws.

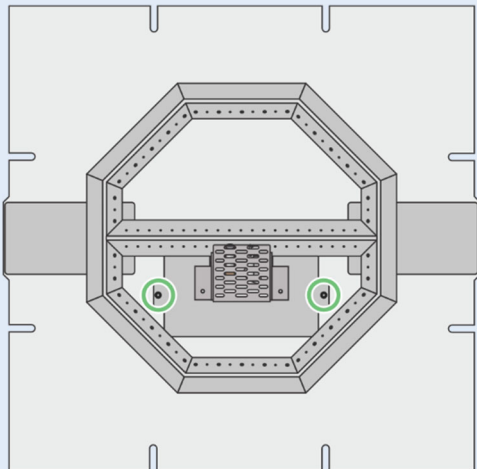
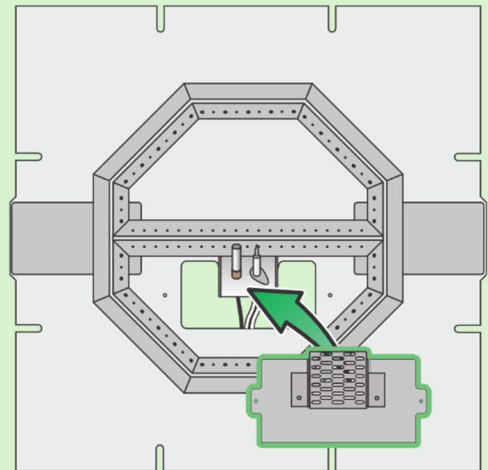
NOTE: You will need to insert the driver through the hole in the base plate to be at the correct angle to engage the screws.





- Use a 11/32" driver to remove the (4) KEPS nuts from the studs on the bottom of the base plate. Put the control box assembly in place and reinstall the nuts to secure the assembly.

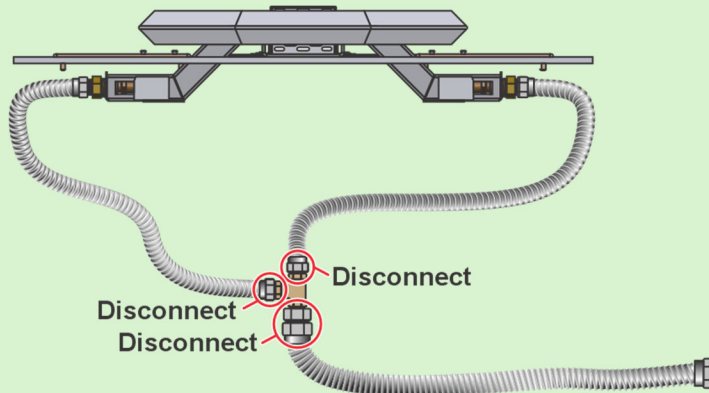
- Install the media tray cover that is included with this kit. Take care not to damage the pilot assembly when putting the cover plate in place.



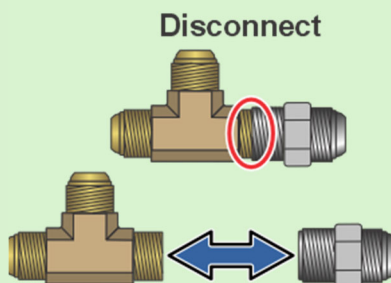
- Use (2) of the included screws and a 1/4" driver to secure the cover plate to the fire pit base plate.

28", 33", & 37" UNITS ONLY

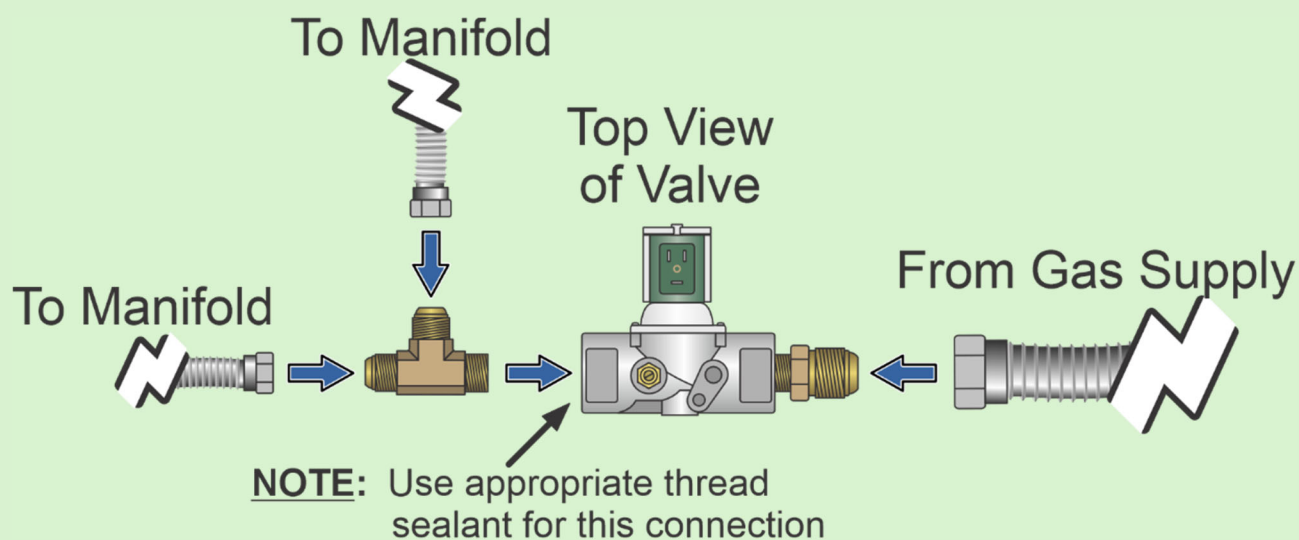
- Disconnect all three gas flex lines from the tee under the appliance.



- Disconnect the tee from the flare adapter. Discard the adapter but keep the tee for the next step.

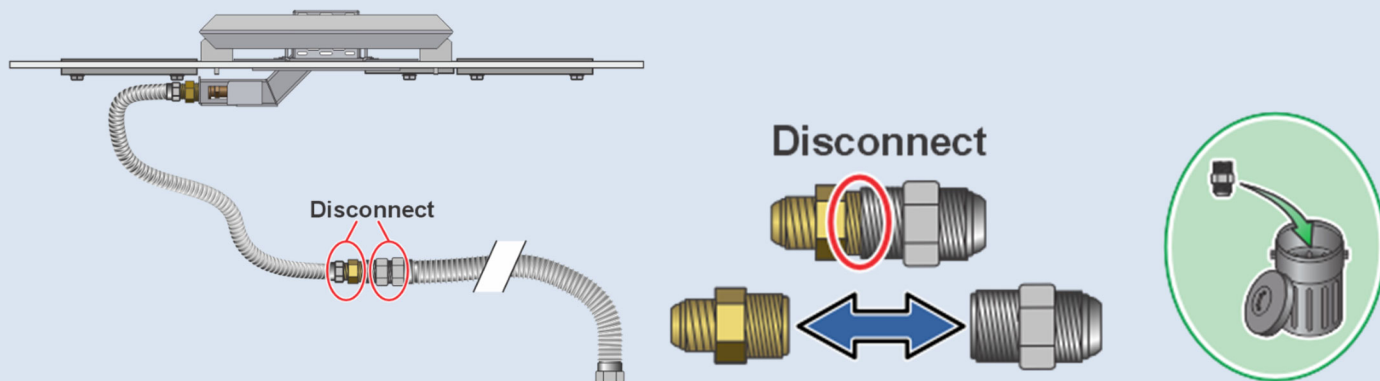


- Install the tee from the previous step to the outlet of the gas valve. Make sure to thread the pipe thread portion of the tee to the valve and use appropriate thread sealant. Attach the (2) gas flex lines from the appliance to the flare fittings that was just attached to the valve. Attach the larger gas flex, that was removed from the appliance, to the flare fitting that came preinstalled into the gas inlet of the valve. Attach the other end of this flex to the gas supply.



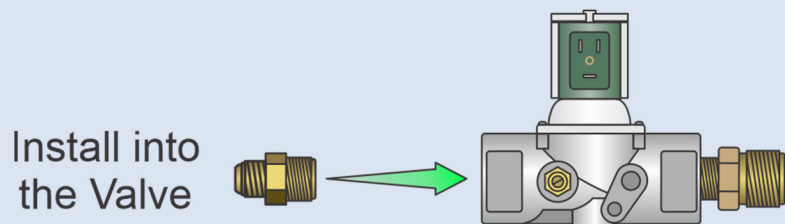
25" UNITS ONLY

- Disconnect the two gas flex lines from the two connected flare fitting adapters under the appliance, as shown below. Once the flare fittings are removed, disconnect the two fittings from each other and discard the larger of the two.



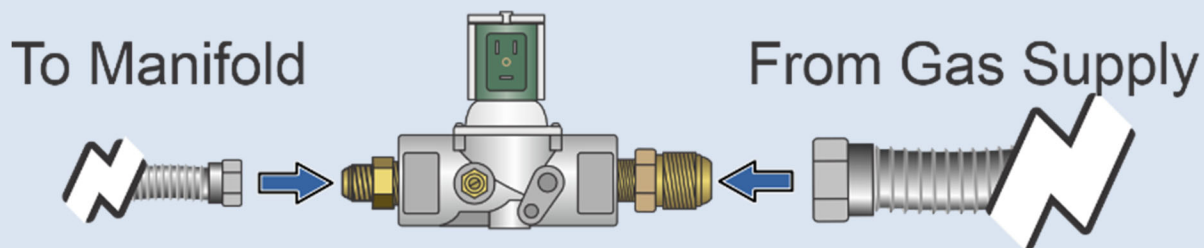
- Attach the flare fitting adapter to the outlet of the gas valve where the tee was just removed.

NOTE: Use appropriate thread sealant when attaching the flare fitting to the gas valve.

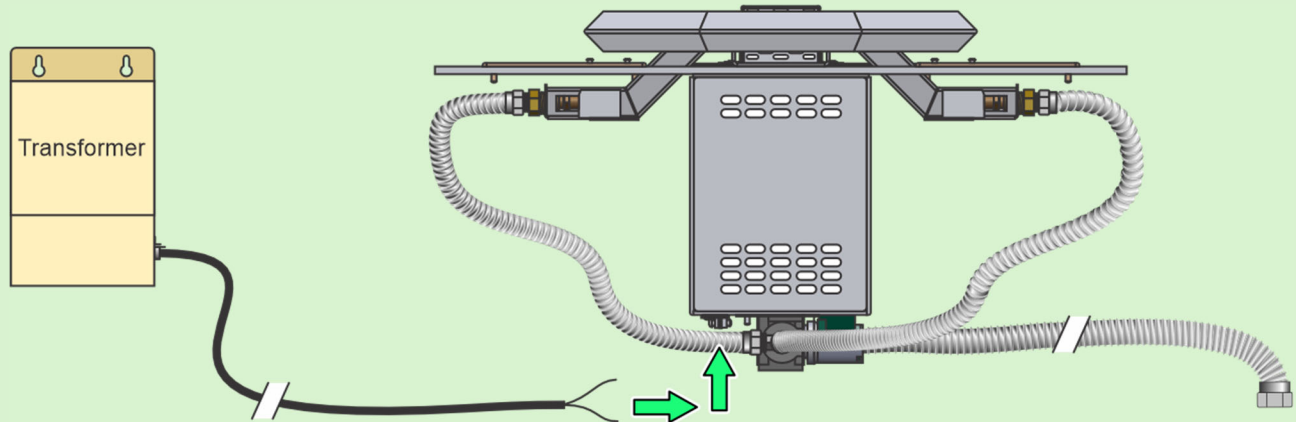


NOTE: Use appropriate thread sealant for this connection

- Attach the large gas supply flex to the inlet of the gas valve. Attach the smaller flex, which is connected to the appliance gas manifold, to the gas valve outlet.

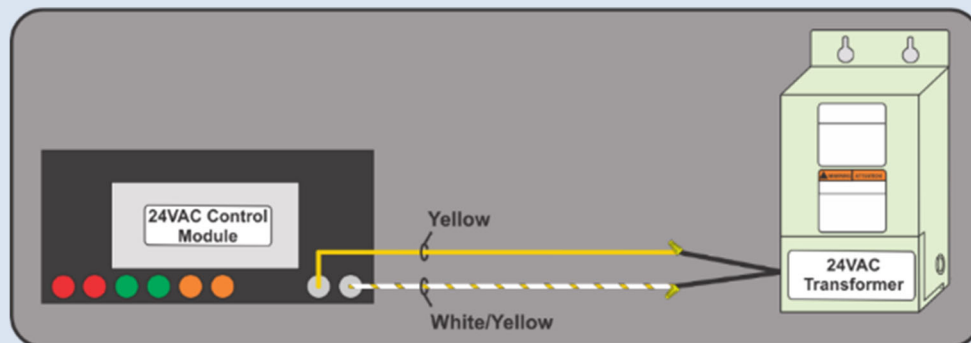


- Run the 24v power wires from the transformer through the strain relief clamp on the bottom of the electrical box. Run enough wire into the box to have a service loop in the box. Secure the wire with the clamp, but take care not to overtighten the clamp, which could cause an electrical short.

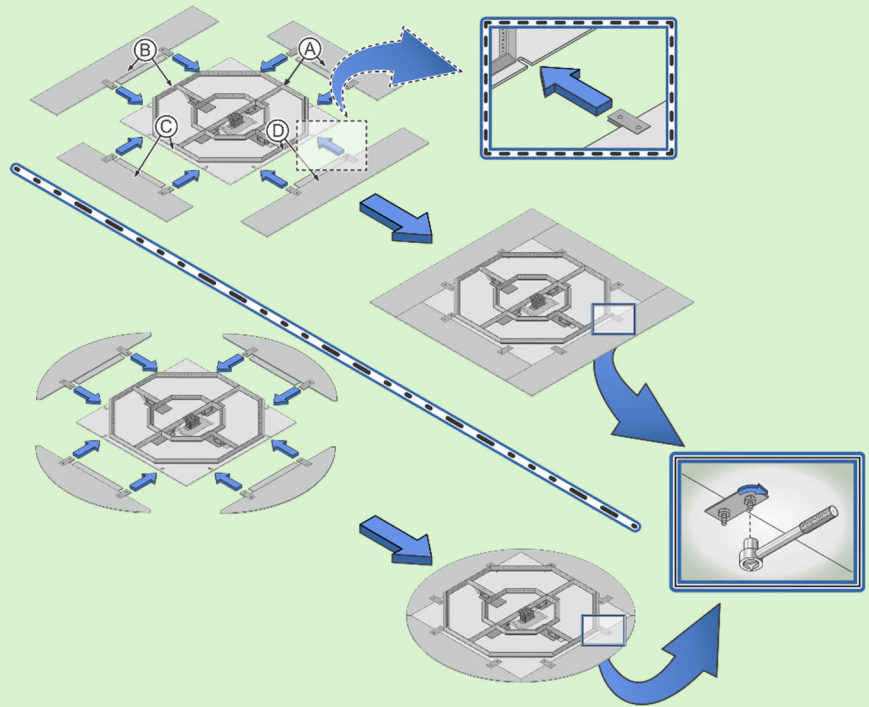


- Use wire nuts to connect the wires from the 24VAC transformer to the yellow and the yellow/white striped wires on the control module (polarity does not matter for this connection). When the connections are secure, coil the wires and push them back into the white plastic wire clip to ensure the wires do not contact any hot surfaces.

NOTE: We recommend outdoor-suitable connectors (silicone-filled wire connectors, dielectric grease, etc.) on the power-in connections to the control module to prevent corrosion.



- Install the plate kit onto the main base plate of the fire pit (see appliance manual for details).



- Install the burner assembly into the enclosure and return the appliance to its correct configuration.

- The appliance uses approximately 40 watts during startup (1.6 amps at 24 VAC). Make sure the circuit and wires are sized appropriately. The appliance requires a minimum of 22 VAC to operate (if the voltage drops below this, the appliance may not start).

- Consult the appliance manual for additional installation options and to ensure that all additional requirements are met.

Operating the Appliance

Ignition

Make sure the gas supply is turned on to the appliance before trying to operate the appliance. When you switch the appliance on, electrical power is supplied to the control module, starting the ignition sequence. During ignition, the igniter will heat up. Gas is then turned on to the appliance. The appliance will ignite, and the thermopile will signal the control module that the appliance is lit, and the igniter will then turn off.

NOTE: In rare cases, the appliance will fail to light. In these cases, the appliance will wait 30 seconds, then restart the 30-second ignition sequence. The control module will try to restart the appliance a total of 3 times. If it fails to light after three tries, the appliance will then shut off. To restart, turn the switch off, wait 5 minutes, then turn the switch on.

Appliance in Operation

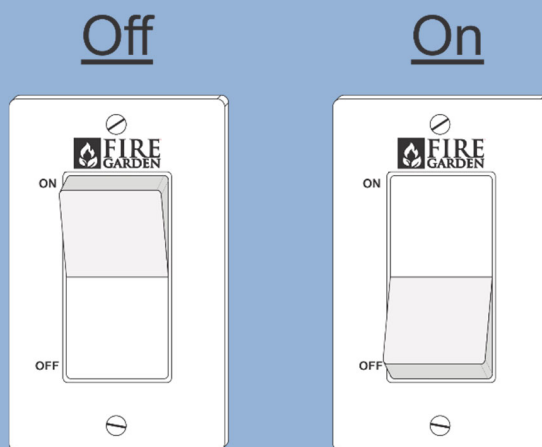
The appliance, once lit, will stay lit until the switch is turned off. If the gas flow is interrupted or if wind blows out the flame, the appliance will start the 1-1/2 minutes (90 second) ignition sequence.

Safety Circuit

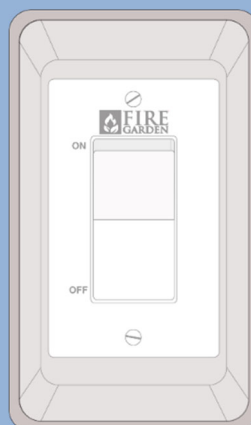
Each appliance has a built-in safety circuit that only allows gas to flow during the ignition sequence and when the appliance is lit. This prevents gas buildup. The safety circuit relies upon a thermopile to keep the gas valve open. If the flame goes out, the control module will shut the gas off, then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

Location of Controls

- Use the wall switch to supply power to the appliance. The appliance will automatically light when power is supplied (The location of the switch is specific to your installation).



- If the wall switch is to be located where it is not protected from precipitation, it must be installed in a weather resistant enclosure (not included).



Electrical Connection Requirements (24v ONLY)

- ! 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).
- ! Use a transformer to convert 120VAC power to 24VAC power for the appliance. Supply the transformer with 120VAC at approximately 0.9 amps - make sure the circuit and wiring are appropriately sized. The power supply must be routed through a switch to turn the appliance on and off (see pg. 68). Multiple Travis Industries, Inc. 24-volt appliances may be placed on a single circuit. Each appliance uses 24VAC at approximately 1.6 amps - Make sure the circuit and wiring are appropriately sized (see diagrams starting on pg. 54.). If multiple appliances are powered through a single switch the control modules for each of the individual appliances may be daisy-chained together.

24VAC Transformer

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

Single Appliance Installations (24v ONLY)

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.

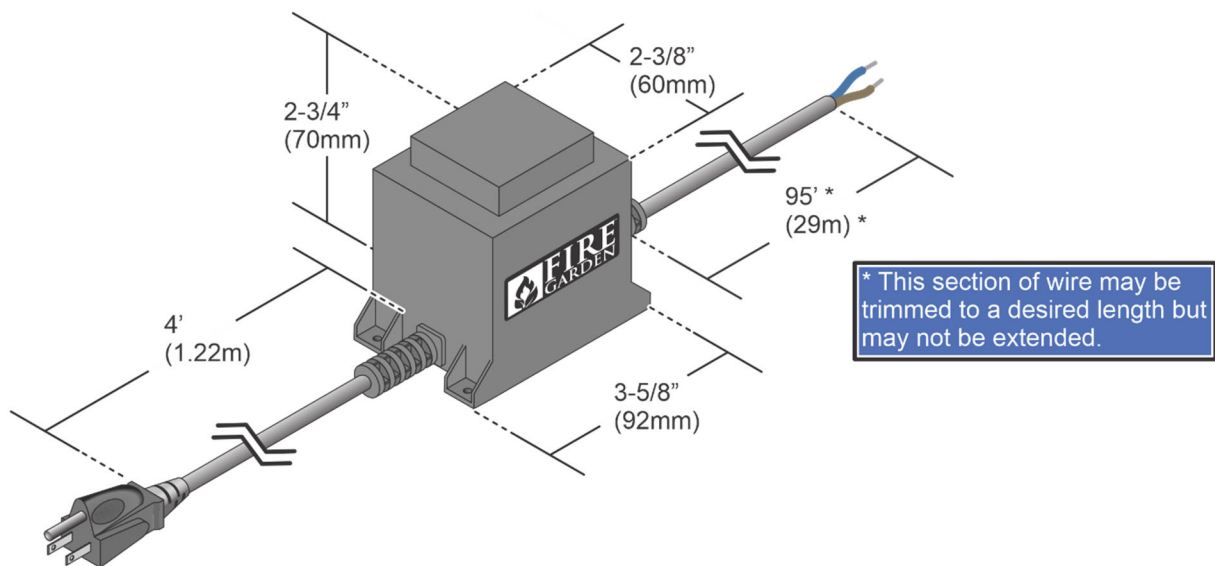
Compatibility

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.



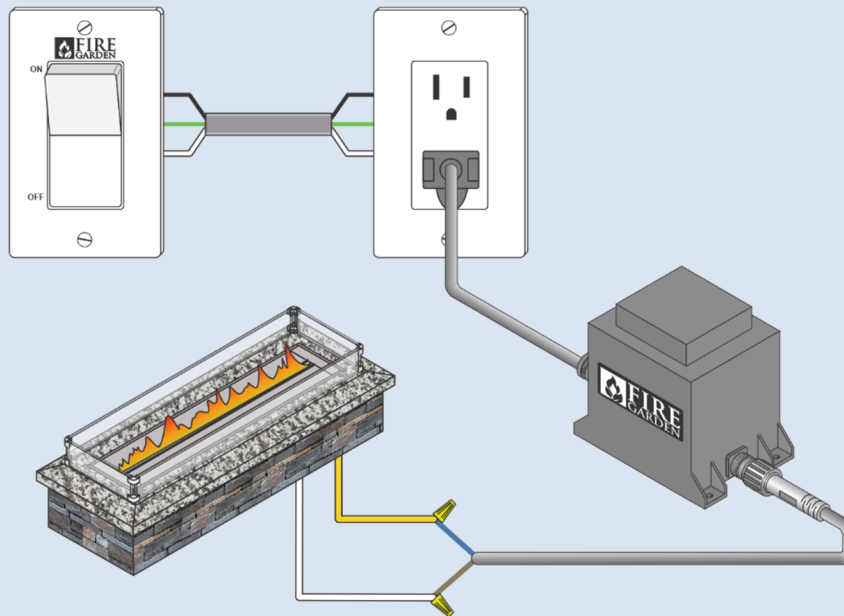
Installation should only be performed by a qualified electrician or installer (consult local codes). Use suitable connectors when wiring the transformer (silicone-filled wire nuts).

Mounting Requirements

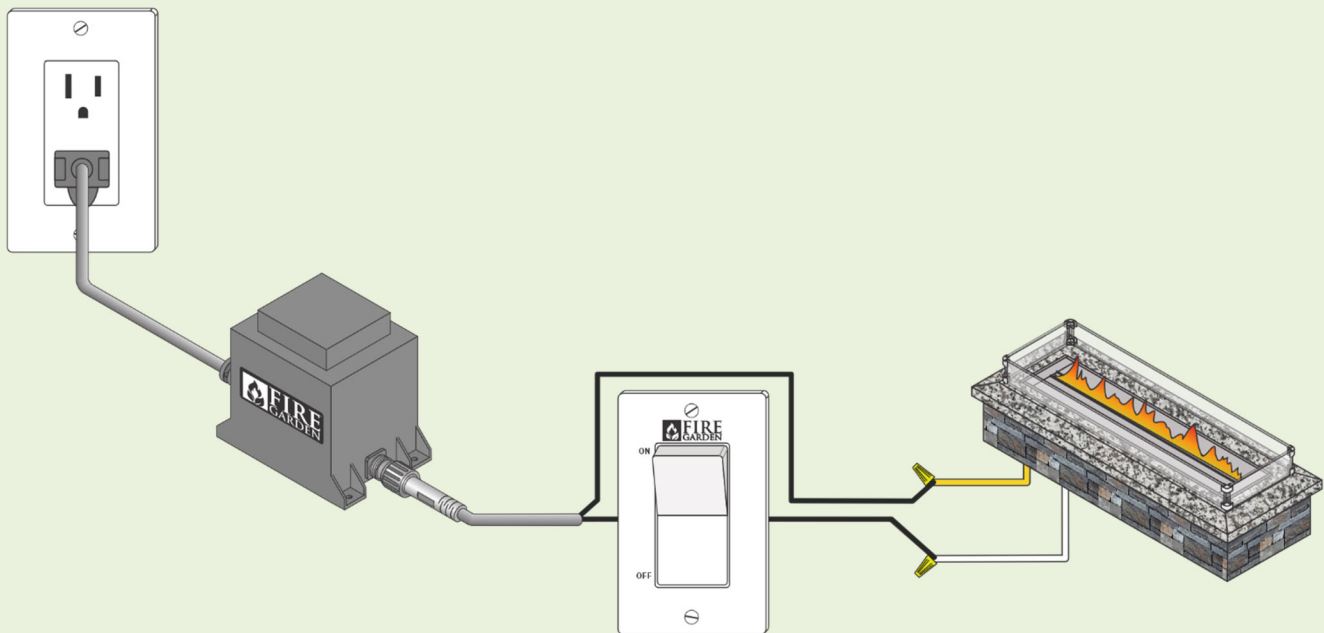
- This transformer is intended to be plugged into a standard household GFCI-protected outlet.
- The transformer is wet-rated and can be exposed outdoors.
- If this transformer will be used on an outdoor outlet, the outlet must have a weatherproof receptacle cover.

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.

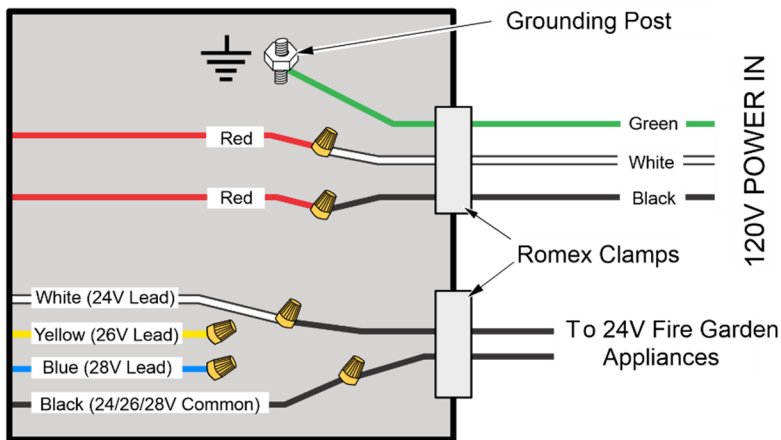
Compatibility

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

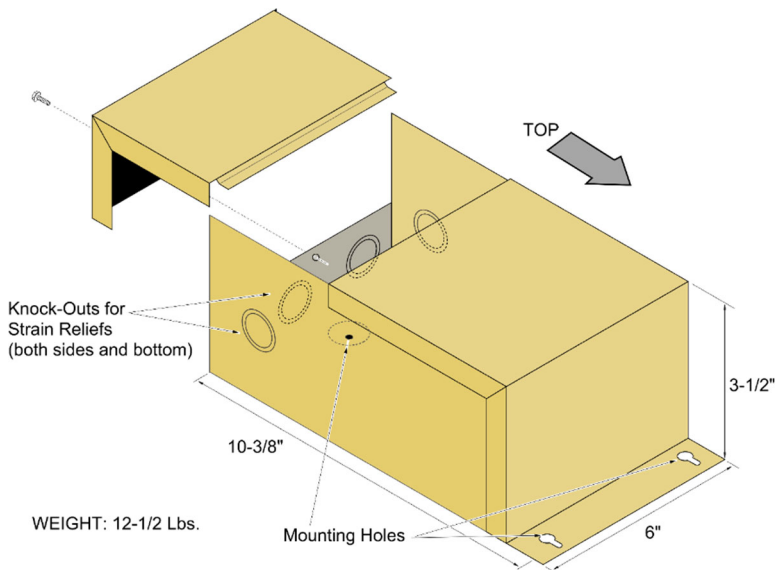
Transformer Junction Box



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)

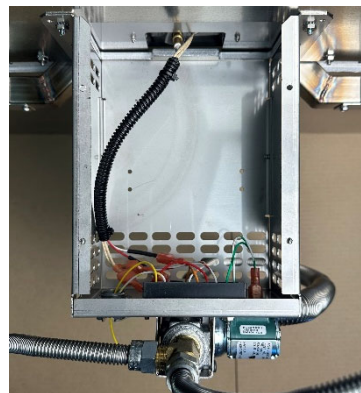
Dimensions



Wiring Installation

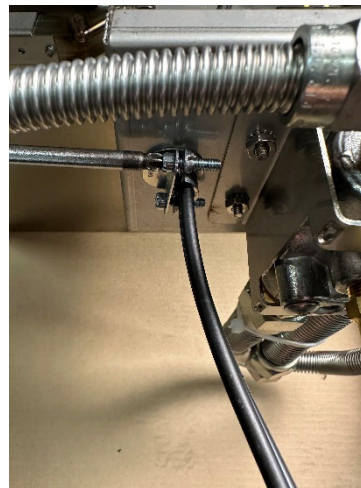
NOTE: We recommend the use of outdoor-suitable connectors (silicone-filled wire connectors, dielectric grease, etc.) on the power-in connections to the control module to prevent corrosion.

- Position the VF fire pit so that you have access to the components underneath the base plate. Remove the (4) 1/4" screws that secure the cover to the electrical box (set the screws and the cover aside for reinstallation).

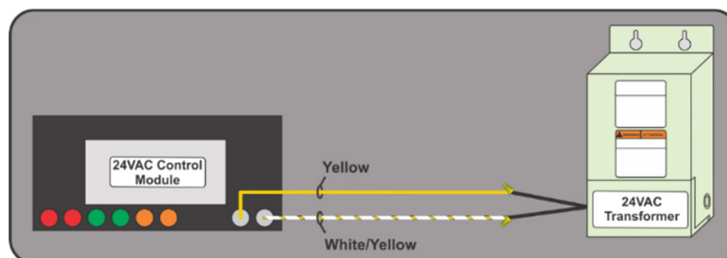
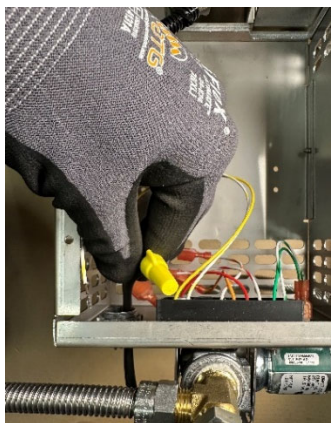


- Route the wires from the 24VAC transformer through the strain relief at the bottom of the electrical box. When there is approximately 3" (77mm) of the low voltage wire in the box, tighten the strain relief to secure the wire.

NOTE: Use listed low voltage wiring. Make sure to provide slack in the electrical line for removal and service.



- Use wire nuts to connect the wires from the 24VAC transformer to the yellow and the yellow/white striped wires on the control module (polarity does not matter for this connection). When the connections are secure, coil the wires and push them back into the electrical box.
- Replace the cover and screws removed in the first step.

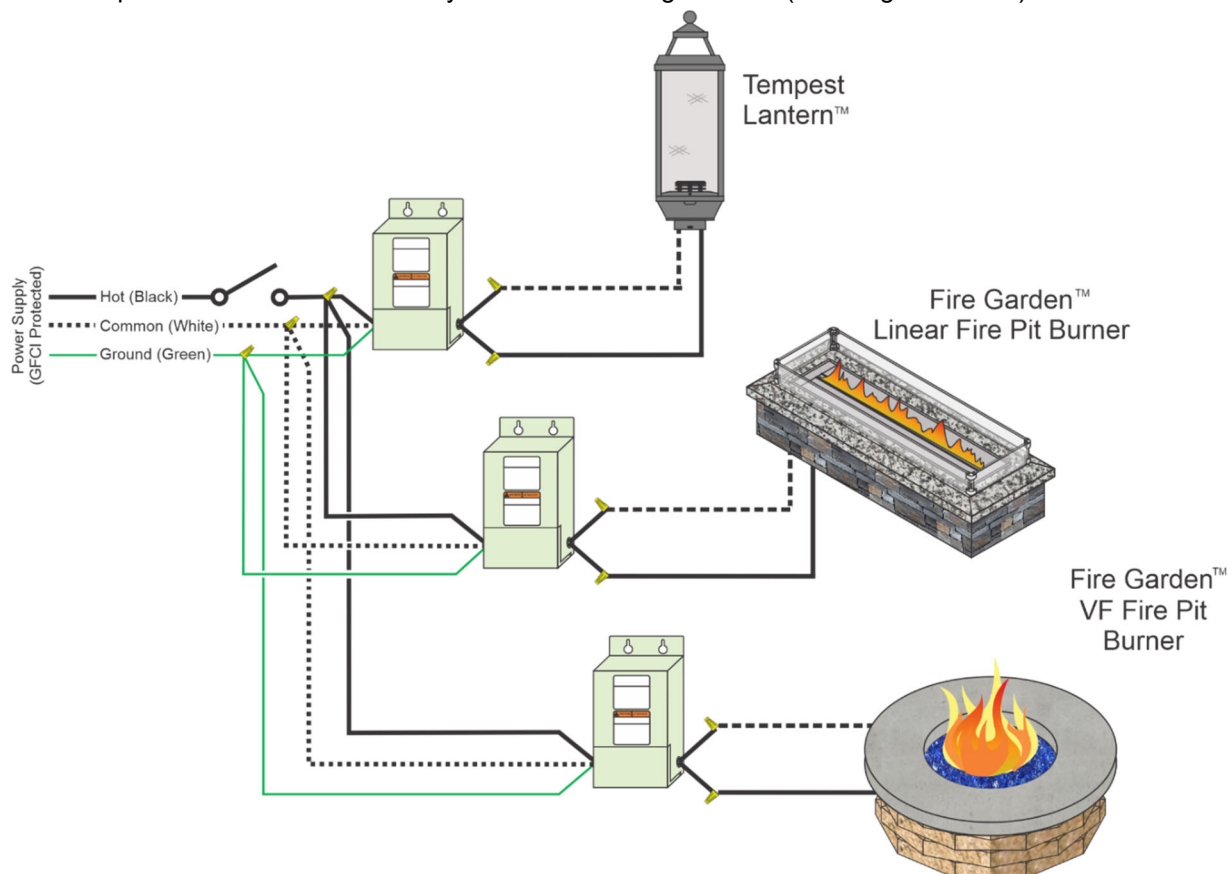


Using More than One 24-volt Appliance

Travis Industries, Inc. manufactures other 24-volt appliances that can add to the ambiance of your outdoor space (Tempest Torch™, Tempest Lantern™. Visit firegardenoutdoor.com for more details). If using more than one appliance, make sure to think about how the appliances will be used and if they need to be able to be controlled separately or if it would be more convenient to control them all using one switch. The following pages show examples of multi-appliance installation options using one switch and powering more than one appliance using the same transformer. If you are planning an installation using two or more appliances, be sure to pay close attention to the wiring sizing detailed in this section.

Wiring Multiple Transformers to One Switch

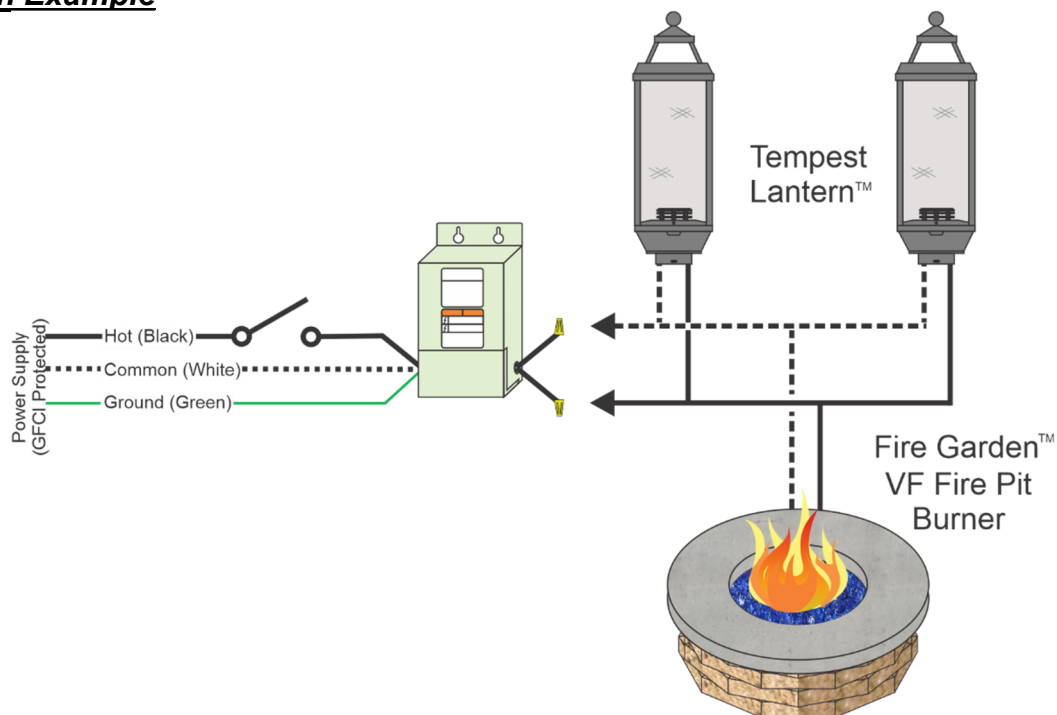
- Multiple 24VAC transformers may be wired to a single switch (see diagram below).



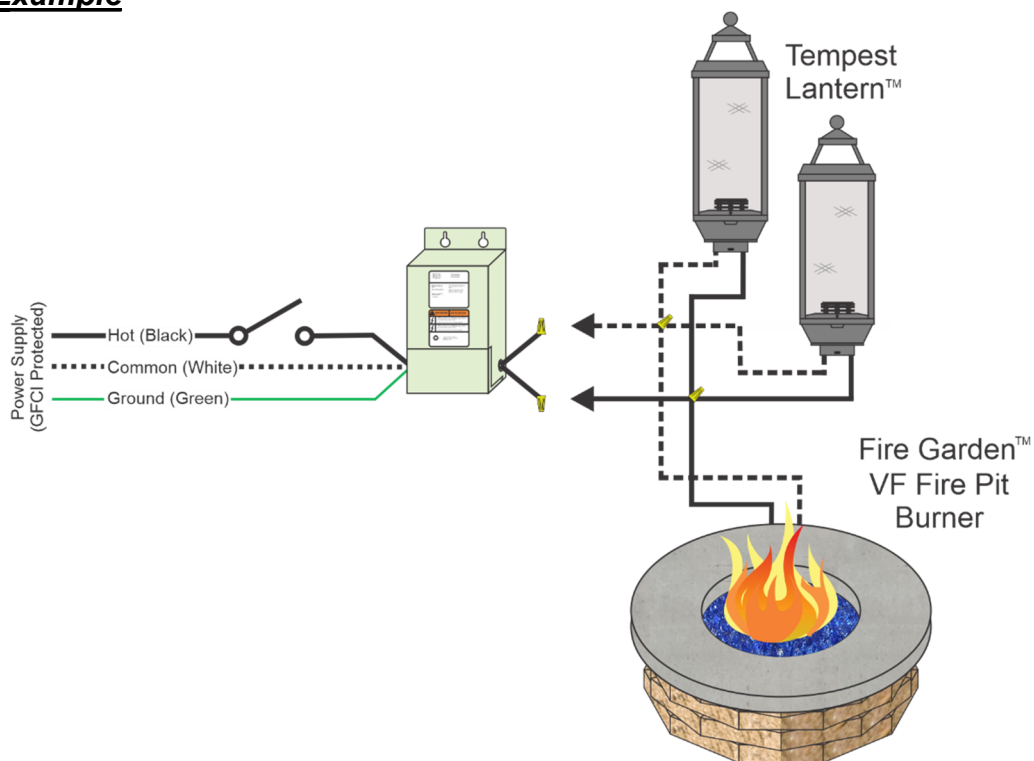
Wiring Multiple Appliances to One Transformer

The manner in which 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.

Daisy-Chain Example



Direct-Run Example

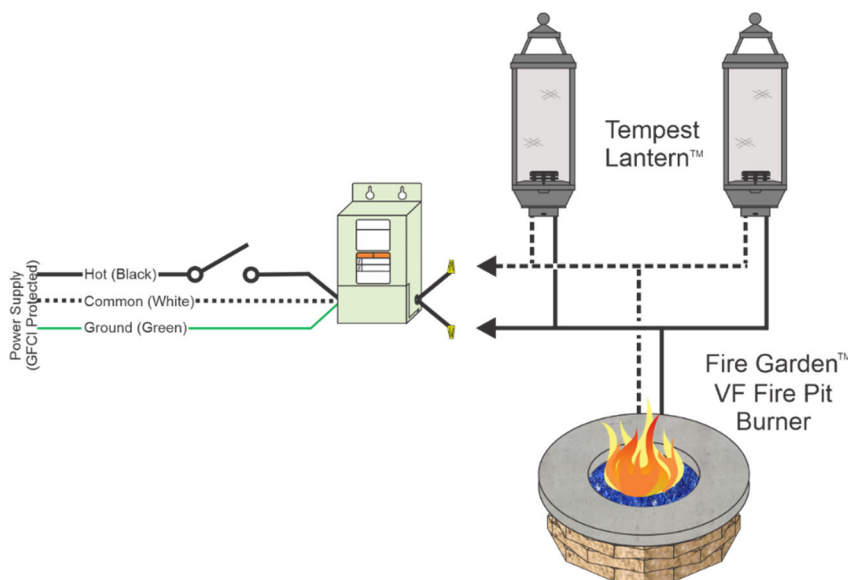


Daisy-Chain Wire Length Chart

This type of wire configuration allows for multiple Travis Industries 24-volt products 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 2 Tempest Lanterns and a VF Fire Pit Burner on one branch.

How to Calculate Wire Length:

Add together all 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

		# of appliances on branch				
Wire		2	3	4	5	6
14 GA	min	0'	0'	0'	0'	0'
	max	113'	71'	49'	37'	28'
12 GA	min	0'	0'	0'	0'	0'
	max	173'	108'	75'	55'	43'
10 GA	min	0'	0'	0'	0'	0'
	max	266'	165'	115'	85'	65'

26 Volt Lead*

		# of appliances on branch				
Wire		2	3	4	5	6
14 GA	min	27'	10'	1'	0'	0'
	max	184'	118'	85'	65'	51'
12 GA	min	41'	16'	2'	0'	0'
	max	281'	179'	129'	99'	79'
10 GA	min	63'	23'	3'	0'	0'
	max	432'	276'	198'	151'	121'

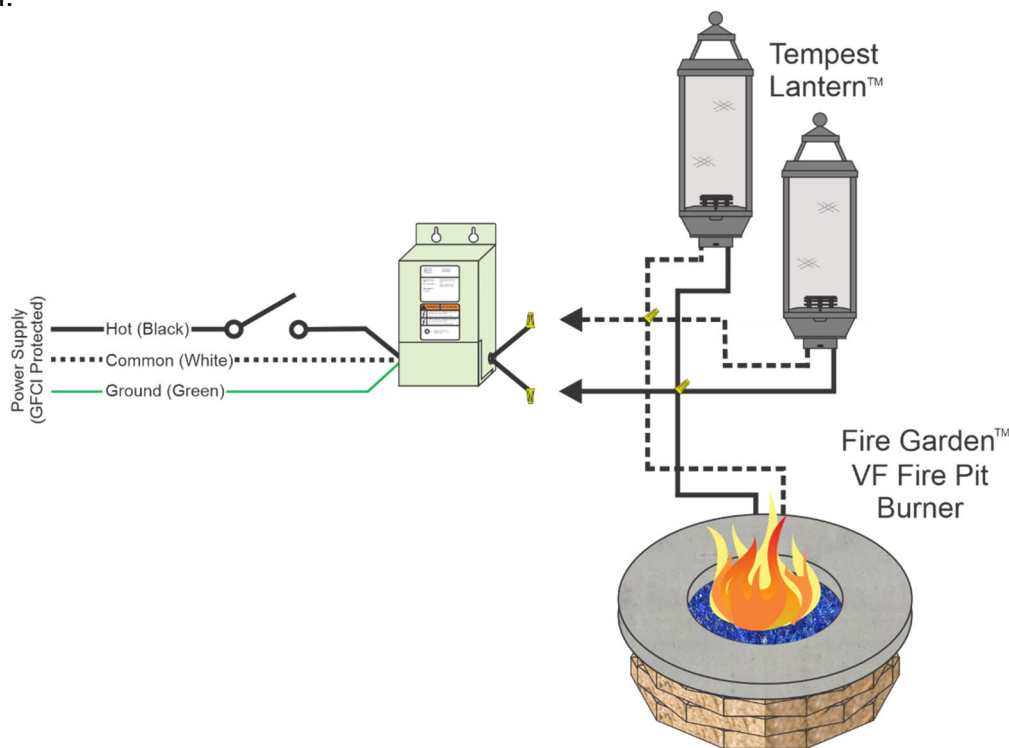
28 Volt Lead*

		# of appliances on branch				
Wire		2	3	4	5	6
14 GA	min	104'	62'	40'	27'	19'
	max	242'	157'	113'	88'	71'
12 GA	min	160'	94'	61'	41'	28'
	max	369'	238'	173'	134'	108'
10 GA	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 the appliances (see illustration below). Use the charts below to determine the correct wire gauge and length.



24 Volt Lead

Wire		
14 GA	min	0'
	max	242'
12 GA	min	0'
	max	369'
10 GA	min	0'
	max	566'

26 Volt Lead*

Wire		
14 GA	min	79'
	max	384'
12 GA	min	120'
	max	584'
10 GA	min	184'
	max	897'

28 Volt Lead*

Wire		
14 GA	min	234'
	max	499'
12 GA	min	356'
	max	760'
10 GA	min	548'
	max	1168'

* Not available on some transformers.

Wiring Examples:

Daisy-Chain Installations:

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

Direct Run Installations:

- When using an appliance on a 200' run, 14 ga wire, use the 24V Lead.
- When using 6 appliances, each on a 200' run, 14 ga wire, use the 24V Lead.

How to Determine Wire Gauge: When purchasing your wire, it should include a 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 sizes (do not use 14-gauge & 10-gauge wire on the same transformer).

Steps for Finalizing the Installation

1. If using propane (LP) gas, convert the appliance (prior to installing the crushed glass or other media).
2. Connect the fire pit to the gas line.
NOTE: We recommend you purge the gas line at this time.
3. Leak test all gas line joints.
4. Install the crushed glass or Tumbled Stone media.
5. Test burn the appliance.

Crushed Glass Installation

Crushed glass may be placed over the burner and base plate. Use only 1/4" crushed glass from Travis Industries and/or other media specifically approved by Travis Industries.

Placing Crushed Glass on the Burner and Fire Pit Base Plate

		Round	Square
Glass Quantity Needed	25" Fire Pit Burner	60 lbs. (27.22 kg)	75 lbs. (34.02 kg)
	28" Fire Pit Burner	75 lbs. (34.02 kg)	95 lbs. (43.09 kg)
	33" Fire Pit Burner	105 lbs. (47.63 kg)	130 lbs. (58.97 kg)
	37" Fire Pit Burner	130 lbs. (58.97 kg)	160 lbs. (72.57 kg)
	47" Fire Pit Burner	210 lbs. (95.25 kg)	260 lbs. (117.93 kg)

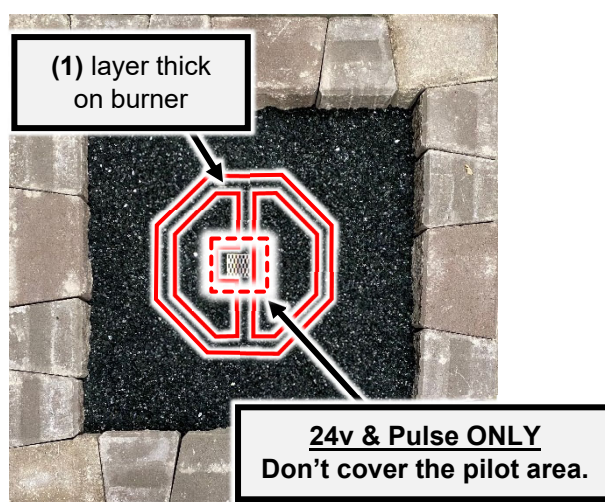
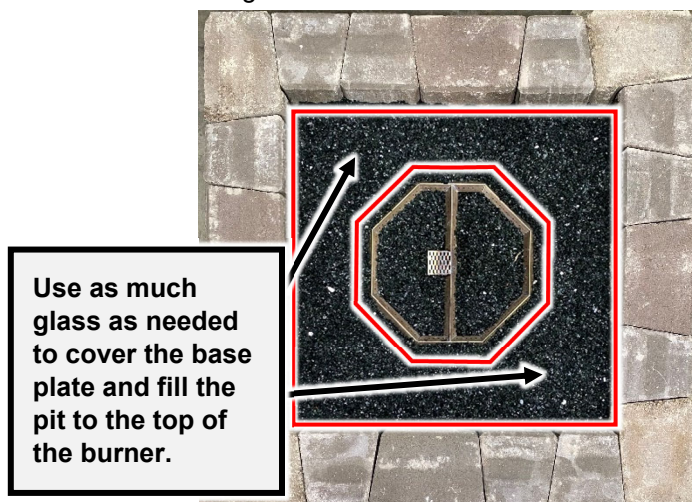
**1 Level Cup (8 fl. oz.) (240ml) = 0.95 lbs.
So...1 Slightly Rounded Cup = 1 lb.**



Determine the amount of glass needed for the size Fire Pit Burner being installed. Set this glass aside in portions to allow for an even amount of glass to be placed over the surface of the burner and media tray.

NOTE: It is better to install too little glass than too much.

- (a) Open a bag of crushed glass and pour it evenly onto the burner and base plate. Use a brush or glove to evenly distribute the glass over the surface.



- (b) Spread an even layer of crushed glass over the base plate and burner until the burner is covered by one layer of glass. The glass can be as thick as needed up to the burner tubes but must be only (1) layer thick over the burner. Excessive glass placed on top of the burner may cause poor burn characteristics and can lead to sooting and/or delayed ignitions.

Tumbled Stone Installation

Tumbled Stone may be placed over the burner and base plate. Only use the Tumbled Stone media kit from Travis Industries. Use small stones to cover the burner and base plate. Large stones may be placed anywhere over the base plate but should not be installed over the burner.

Placing Tumbled Stone on the Burner and Media Trays

		Round	Square
Tumbled Stone Quantity Needed	25" Fire Pit Burner	20 lbs. (9.07 kg) small & 20 lbs. large (9.07 kg)	40 lbs. (18.14 kg) small & 40 lbs. large (18.14 kg)
	28" Fire Pit Burner	40 lbs. (18.14 kg) small & 40 lbs. large (18.14 kg)	60 lbs. (27.22 kg) small & 60 lbs. large (27.22 kg)
	33" Fire Pit Burner	50 lbs. (22.68 kg) small & 60 lbs. large (27.22 kg)	70 lbs. (31.75 kg) small & 100 lbs. large (45.36 kg)
	37" Fire Pit Burner	60 lbs. (27.22 kg) small & 100 lbs. large (45.36 kg)	80 lbs. (36.29 kg) small & 140 lbs. large (63.50 kg)
	47" Fire Pit Burner	70 lbs. (31.75 kg) small & 160 lbs. large (72.57 kg)	100 lbs. (45.36 kg) small & 220 lbs. large (99.79 kg)

NOTE: We recommend painting the burner and base plate with black, high temperature stove paint prior to installing the stones in order to disguise the metal burner and base plate making it less noticeable between the stones.

- Determine the amount of small stones needed for the appliance being installed. Distribute the stones to disguise the burner. The small stones may be placed over the burner, but the pilot area must remain uncovered. Use only enough small stones over the burner to hide the metal.
- Large stones may be placed anywhere on the media tray that is aesthetically pleasing but should not be placed directly over the burner.



Before the First Fire

- ! Read this entire manual before you use your new appliance, 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 appliance prior to operation.
- ! Inspect the appliance to make sure it is free of debris or objects that may have fallen into the appliance prior to operation.
- ! Inspect the appliance, burner, electrical wires, and gas supply lines for any damage prior to operation. If any damage is discovered, contact your dealer for service.
- ! It may be difficult to see the burner operating in direct sunlight.

Operating Instructions

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

How your appliance works (24v ONLY)

Ignition

Make sure the gas supply is turned on to the appliance before trying to operate the appliance. When you switch the appliance on, electrical power is supplied to the control module, starting the ignition sequence. During ignition, the igniter will heat up. Gas is then turned on to the appliance. The appliance will ignite, and the thermopile will signal the control module that the appliance is lit, and the igniter will then turn off.

NOTE: In rare cases, the appliance will fail to light. In these cases, the appliance will wait 30 seconds, then restart the 30-second ignition sequence. The control module will try to restart the appliance a total of 3 times. If it fails to light after three tries, the appliance will then shut off. To restart, turn the switch off, wait 5 minutes, then turn the switch on.

Appliance in Operation

The appliance, once lit, will stay lit until the switch is turned off. If the gas flow is interrupted, or if wind blows out the flame, the fireplace will start the 1-1/2 minutes (90 second) ignition sequence.

Safety Circuit

Each appliance has a built-in safety circuit that only allows gas to flow during the ignition sequence and when the appliance is lit. This prevents gas buildup. The safety circuit relies upon a thermopile to keep the gas valve open. If the flame goes out, the control module will shut the gas off, then try to relight the appliance. Your appliance can not be operated manually if a problem persists, consult the troubleshooting guide (pg. 66) and call a qualified service technician if needed.

How your appliance works (Pulse Ignition ONLY)

Ignition

Make sure the gas supply is turned on to the appliance before trying to light the pilot. To light the appliance, press the control valve knob in completely and turn the knob counter-clockwise to the "Pilot Start" setting. Press the control knob all the way in to allow gas flow to the pilot. While pressing and holding the knob in, press and hold the "Igniter" button in until the pilot lights. Once the pilot ignites, release the igniter button while continuing to press the gas control knob. After approximately 45 seconds, slowly release the gas control knob and verify that the pilot remains lit. If the pilot remains lit, partially press and rotate the gas control knob towards the "High" setting to allow gas to flow to the burner. The pilot will then ignite the gas flowing through the burner. Adjust the control valve knob anywhere between the high and low settings for the desired flame height.

NOTE: In rare cases, the pilot may fail to light. In this occurs, wait 30 seconds to allow any gas to dissipate and then follow the instructions above to attempt to light the pilot. If the pilot fails to light after three tries, return the gas control knob to the OFF position, turn off the gas supply to the appliance and contact a qualified service technician for service.

Appliance in Operation

The appliance, once lit, will stay lit until the gas control knob is turned to the OFF position. If the pilot and burner are extinguished due to wind or rain, the gas valve will close, interrupting the flow of gas to the appliance.

Safety Circuit

Each appliance has a built-in safety circuit that only allows gas to flow during the ignition sequence and when the appliance is lit. This prevents gas buildup. The safety circuit relies upon a thermopile to keep the gas valve open. If the flame goes out, the valve will shut the gas off. If a problem persists, call a qualified service technician for service.

How your appliance works (Match Light ONLY) (25" units ONLY)

Ignition



WARNING



Lighting a match light firepit requires being in close proximity to the appliance during the starting process. Take care that no loose clothing, long hair, or any part of your body is above the burner during the lighting process. We recommend the use of long fireplace matches or long barbecue lighters for igniting the fire pit.

Lighting this appliance should only be performed by a capable adult who understands the proper operation of the appliance.

Match light installations do not use a safety pilot system to turn the gas flow off if the pilot is extinguished. When lighting the appliance, you are igniting the burner directly. Light a long match or use a long barbecue lighter and hold the flame over the pilot shield area. With the ignition source lit, open the gas "Key Valve" to the right to allow gas to flow to the burner. With the burner lit, adjust the key valve until the desired flame height is achieved.

NOTE: In rare cases, the appliance may fail to light. If this occurs, turn the key valve off and wait 30 seconds to allow any gas to dissipate. After the 30 seconds, follow the instructions above to attempt to light the appliance again. If the appliance fails to light after three tries, verify that fuel is present from the gas supply. If it is, contact a qualified service technician for service.

Appliance in Operation

The appliance, once lit, will stay lit until the key valve is turned to the OFF position. If the burner is extinguished due to wind or rain, the gas will continue to flow until the key valve is turned off.

Safety Circuit



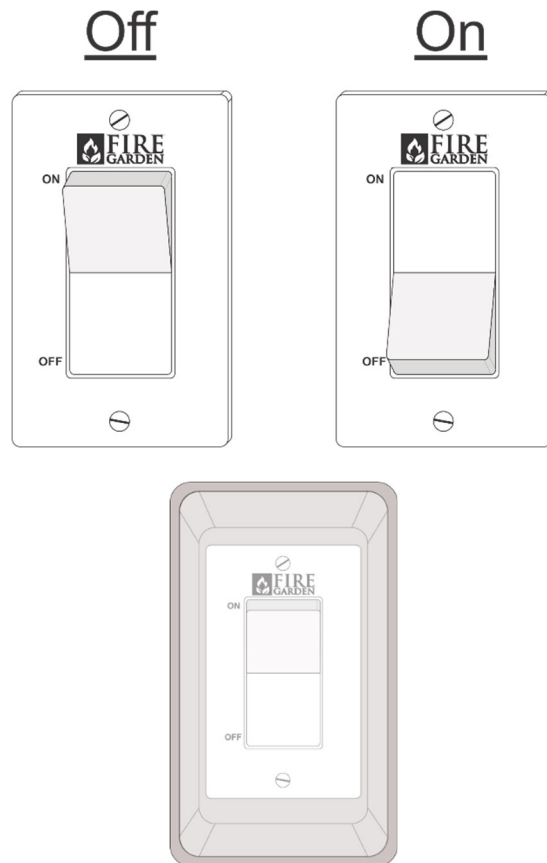
WARNING



There is no Safety Pilot System for match light installations. If the burner flame goes out, gas will continue to flow until the key valve is turned all the way off. We recommend never leaving this type of installation unattended when in use.

Location of Controls

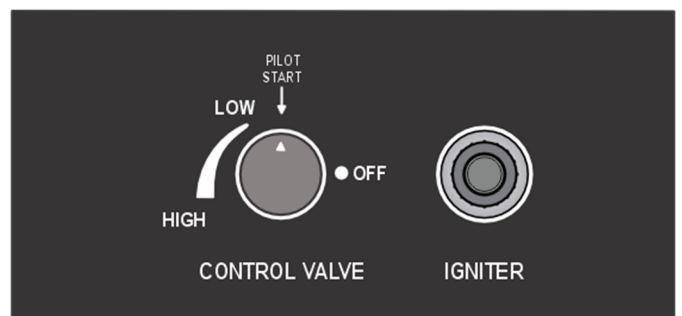
- Use the wall switch to supply power to the appliance. The appliance will automatically light when power is supplied (The location of the switch is specific to your installation).



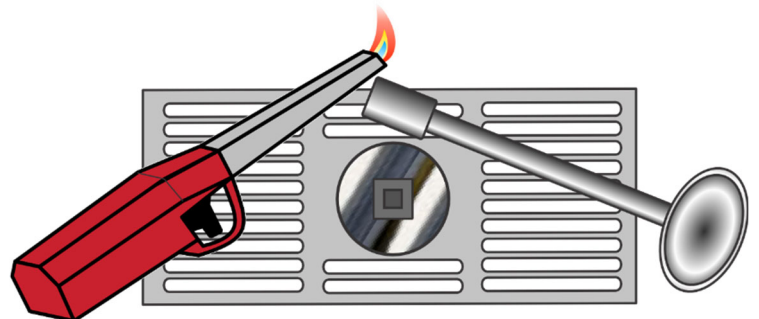
- If the wall switch is to be located where it is not protected from precipitation, it must be installed in a weather resistant enclosure (not included).

Location of Controls (Pulse Ignition ONLY)

- The igniter button and the knob to operate the valve are located in the control box that gets built into the fire pit enclosure.
- Unscrew the igniter button to gain access to the AAA battery that powers the igniter
- The control knob pushes in to allow gas to flow while lighting the pilot and rotates to control flame height (see lighting instructions for details).

**Location of Controls (Match Light ONLY)(25" Units ONLY)**

- Match light fire pits are controlled by the key valve (see lighting instructions for details).
- Use a match or long lighter to ignite the burner. Hold the lit match or lighter near the edge of the burner before turning the key valve.
- Use the key to start gas flow
- Control the flame height with the key valve.



Maintaining Your Appliance

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

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

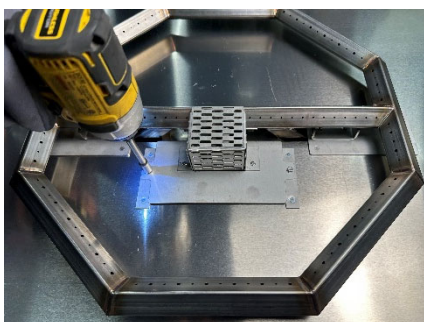
Accessing the Pilot/Igniter Components (Pulse & 24v)

! WARNING !

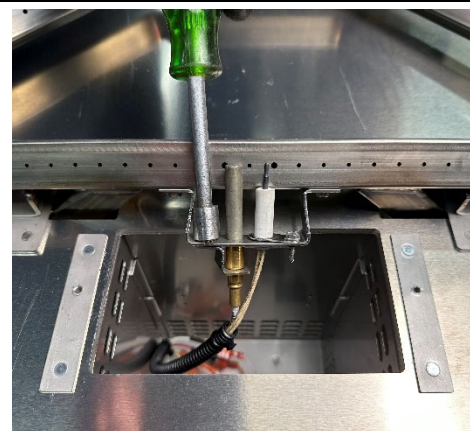
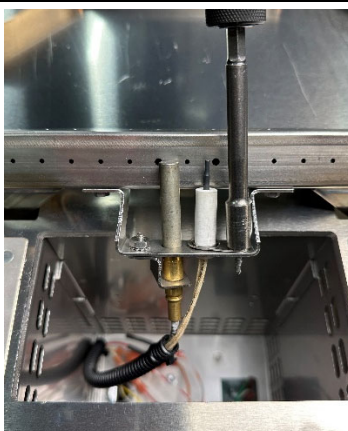
Disconnect power before attempting maintenance or repair.

The pilot components are located under the slotted protective cover and are accessible from the top of the burner tray. To access the components, follow the steps below.

- Remove any media covering the pilot access panel. Use a 1/4" nut driver to remove the (2) screws that secure the pilot cover and access panel (set the screws and access panel aside for reinstallation).



- (24v shown) To remove the pilot components, use a 1/4" nut driver to remove the screw that secures the ignitor to the pilot bracket. Use an 11/32" nut driver to remove the nut that secures the thermopile bracket to the pilot assembly.
- (Pulse)



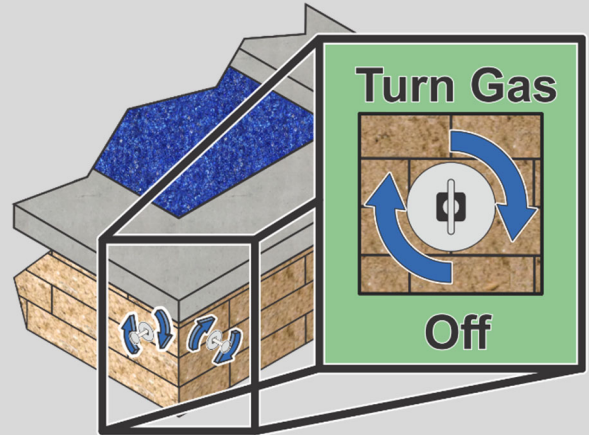
- Once maintenance or testing of components is complete, follow the above steps in reverse to return the appliance to its proper configuration.

Winterizing the Appliance**WARNING**

THE GAS MUST BE TURNED OFF IF A COVER IS INSTALLED ON THE APPLIANCE.

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

Failure to turn off the gas when the appliance is covered can create a severe safety hazard and may result in property damage, personal injury, or loss of life.

***Yearly Service Procedure***

DANGER HIGH VOLTAGE: Disconnect power before attempting maintenance or repair.

- Failure to inspect and maintain the appliance may lead to improper combustion and a potentially dangerous situation. We recommend the following procedures be performed by a qualified technician.

THIS APPLIANCE IS NOT USER SERVICEABLE: Contact your dealer for service.

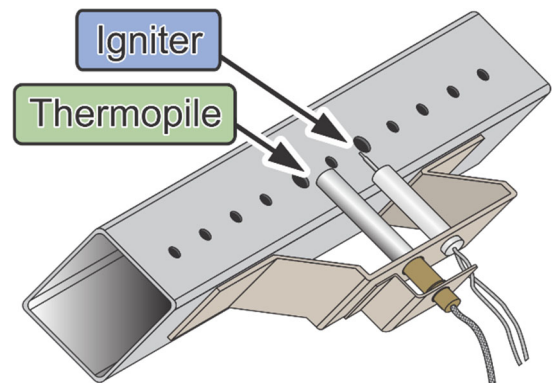
Shut off the gas to the appliance and let it cool for 15 minutes.

Remove crushed glass. If excessive sooting is found, the appliance will require adjustment. Contact your dealer.

- Inspect the burner and remove any debris.
- Make sure the burner is not warped, cracked, or damaged.
- Check the firebox and area around the pilot to make sure there is no warping or damage.
- If any problem is found, discontinue use and contact your dealer for service.
- Replace the crushed glass.

Check the gas control valve and the gas lines. If damage is found, discontinue use, and contact your dealer for service.

Start the burner. After 15 minutes, the flames should be orange/yellow. If the appliance is not burning correctly, contact your dealer for service. If the igniter is not getting hot or lighting the appliance properly contact your dealer for service.



Replacement Parts List

CAUTION: Use only Travis Industries replacement parts. Do not use substitute materials.

Replacement Parts (24v ONLY)	
GAS CONTROL VALVE (24v ONLY)	250-05704
THERMOPILE	250-04550
IGNITER	250-04549
CONTROL MODULE	250-04553
WALL SWITCH	250-00778
WALL SWITCH COVER PLATE	250-05821

Replacement Parts (Pulse Ignition ONLY)	
GAS CONTROL VALVE	250-07120
GAS CONTROL VALVE KNOB	250-07121
PILOT ASSEMBLY	250-07122
IGNITER	250-04549

Universal Outdoor Linear Burner Parts	
BURNER ORIFICE - (#19)	250-06426
BURNER ORIFICE - (#21)	250-06131
BURNER ORIFICE - (#30)	250-04091
BURNER ORIFICE - (#31)	250-00395
BURNER ORIFICE - (#36)	250-03472
BURNER ORIFICE - (#42)	250-03881
BURNER ORIFICE - (#43)	250-00398
BURNER ORIFICE - (7/64")	250-06223

Contact your local Fire Garden™ dealer to purchase replacement parts.

Troubleshooting Table

Problem:	Possible Cause:	Don't Call for Service Until You:
(24v) Appliance does not light and igniter does not glow Red	- Electrical Power Off - Igniter burned out - Burner or burner orifice may be dirty or blocked	Verify the power is on and check the circuit breaker or GFCI. Replace Igniter Contact your dealer for details on removing any debris (spider webs, etc.) from the burner and orifice area.
(24v) Appliance does not light and igniter glows red	- Gas is Off - Not enough electrical current to the appliance	Turn Gas On (check shut-off valve) Voltage must be checked with power draw (appliance in startup)
(Pulse) Appliance does not light and igniter does not spark	- Battery voltage is low - Igniter burned out - Pulse generator is bad - Burner or burner orifice may be dirty or blocked	Test battery and replace if needed. Replace Igniter assembly Replace Pulse generator is bad Contact your dealer for details on removing any debris (spider webs, etc.) from the burner and orifice area.
(Pulse) Appliance does not light but igniter sparks	- Gas is Off - Not enough electrical current to the appliance	Turn Gas On (check shut-off valve) Voltage must be checked with power draw (appliance in startup)
Appliance lights during ignition sequence, then goes out during normal operation	- Dirty Air Channel or Burner - Thermopile(24v) or thermocouple (pulse) has worn out	Remove the glass and clean soot from burner, and any air channels. If the problem persists, contact the dealer for service. Replace thermopile (24v) or Pilot assembly (Pulse)
Flames are too short	The gas supply pressure to the appliance is too low.	Depleted LP cylinder. 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.

Limited Warranty

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Register your TRAVIS INDUSTRIES, INC. Limited 7 Year Warranty online at 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.

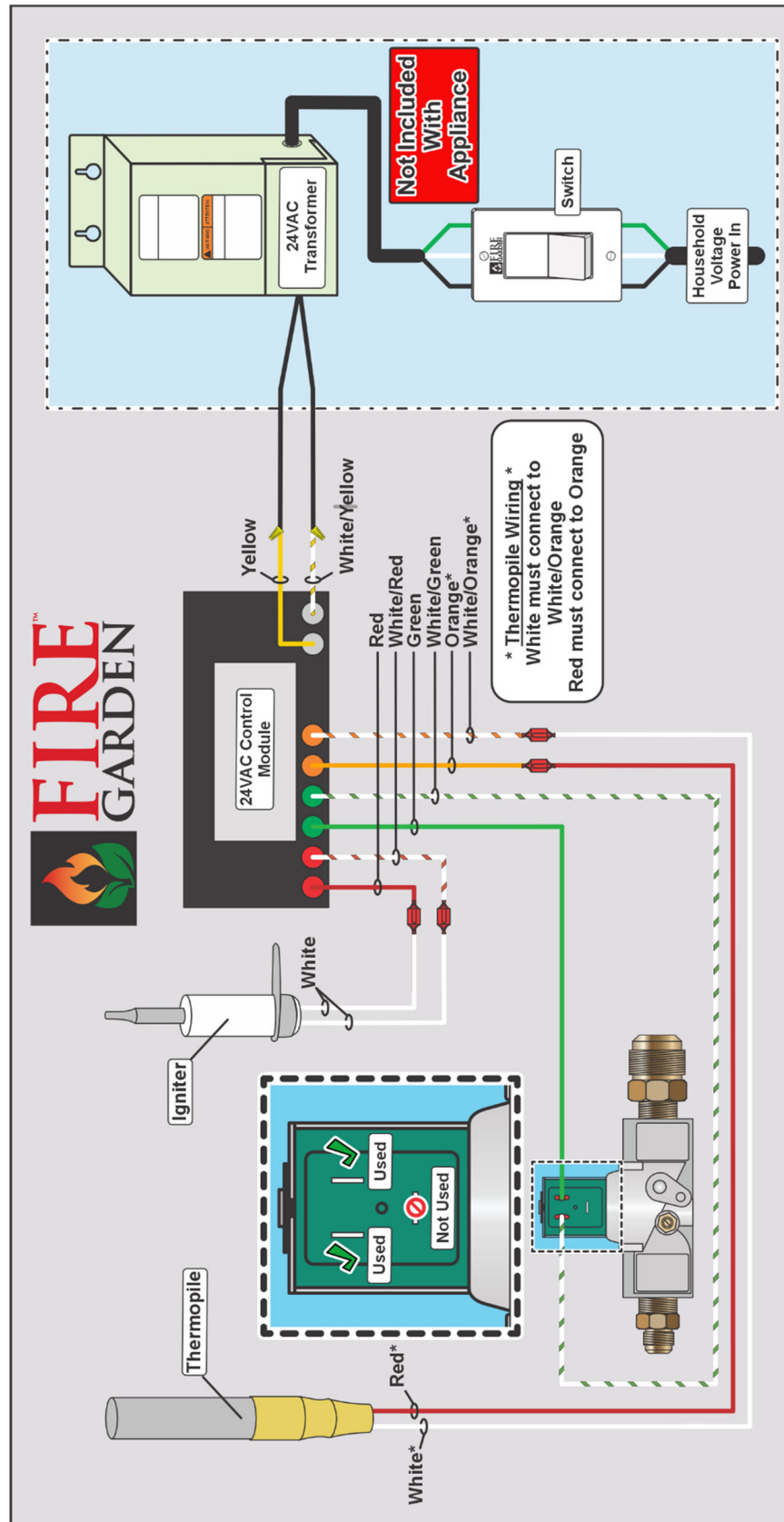
Warranty Period			Component
Residential		Commercial	
Parts	Labor	Parts	
7 years	2 years	1 year	Burner Assembly Burner Pan Assembly, Main Burner Orifice
2 years	2 years	1 year	Electrical Assembly (within appliance structure) Wire harness, Transformer (if purchased with the appliance), Igniter
2 years	2 years	1 year	Gas Control Assembly Gas Valve, Control Module, Pilot Assembly Components
2 years		1 year	One-Way Freight Allowance One-way freight allowance on pre-authorized repair done at the factory is covered.
90 days		90 days	Accessories Optional Log Set, Media (*Optional aluminum media filler pieces NOT COVERED)
90 days		90 days	All replacement parts purchased beyond the warranty period

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.

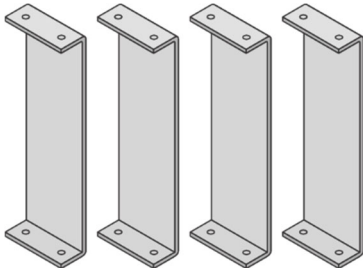
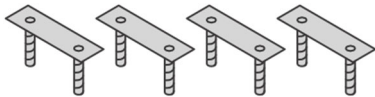
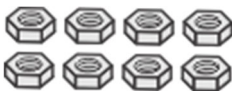
Wiring Diagram

Optional – Leg Kit – sku 94601202

Overview

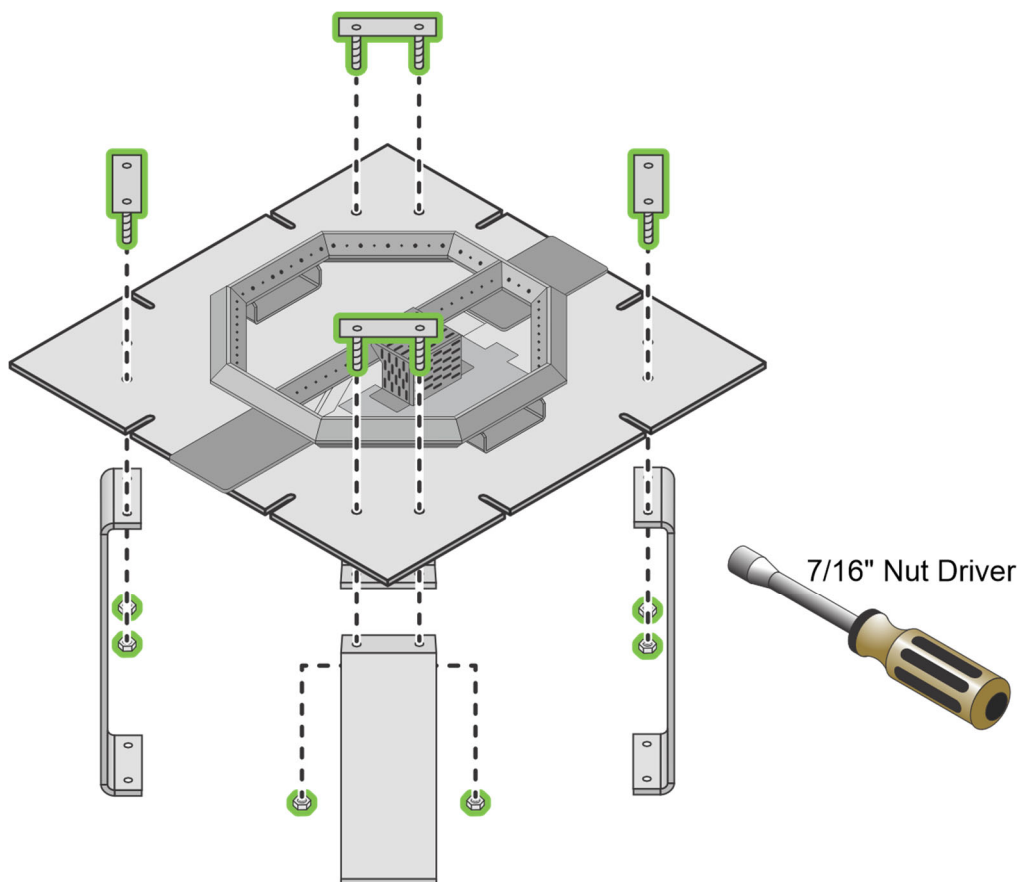
This kit is to be used in conjunction with a Fire Garden Voracious Fire Burners. The kit supports the burner to make it easier to make the required gas and electrical connections during the installation of the appliance. The legs can also be used to support the burner inside the enclosure if desired.

Packing List

- (4) Legs 
- (4) Stud Plates 
- (4) 1/4-20 KEPS Nuts 

Installation

- Insert the studs on the bottom of one of the stud plates through the holes in the corner of the base plate of the burner.
- Put one of the legs in place. The holes in the end of the leg fit over the studs that are protruding through the base plate.
- Use (2) of the included KEPS nuts on the stud and use a 7/16" nut driver to tighten the nuts and secure the leg.
- Repeat the same process with the other (3) legs.



Optional – Landscaping Block Enclosure Brackets – sku 94601203**Overview**

Landscaping blocks may be used to create the enclosure for the VF burner. There is an optional bracket kit available to support the fire pit in the enclosure.

NOTE: The bracket kit can be used with square or round pits. The brackets are made of aluminum and can be bent to match the radius of a round enclosure.

- **The brackets must be installed so that the portion of the bracket that the burner plate will rest on is between 4" and 8" from the top of the finish material on top of the enclosure, to provide protection from the wind.**

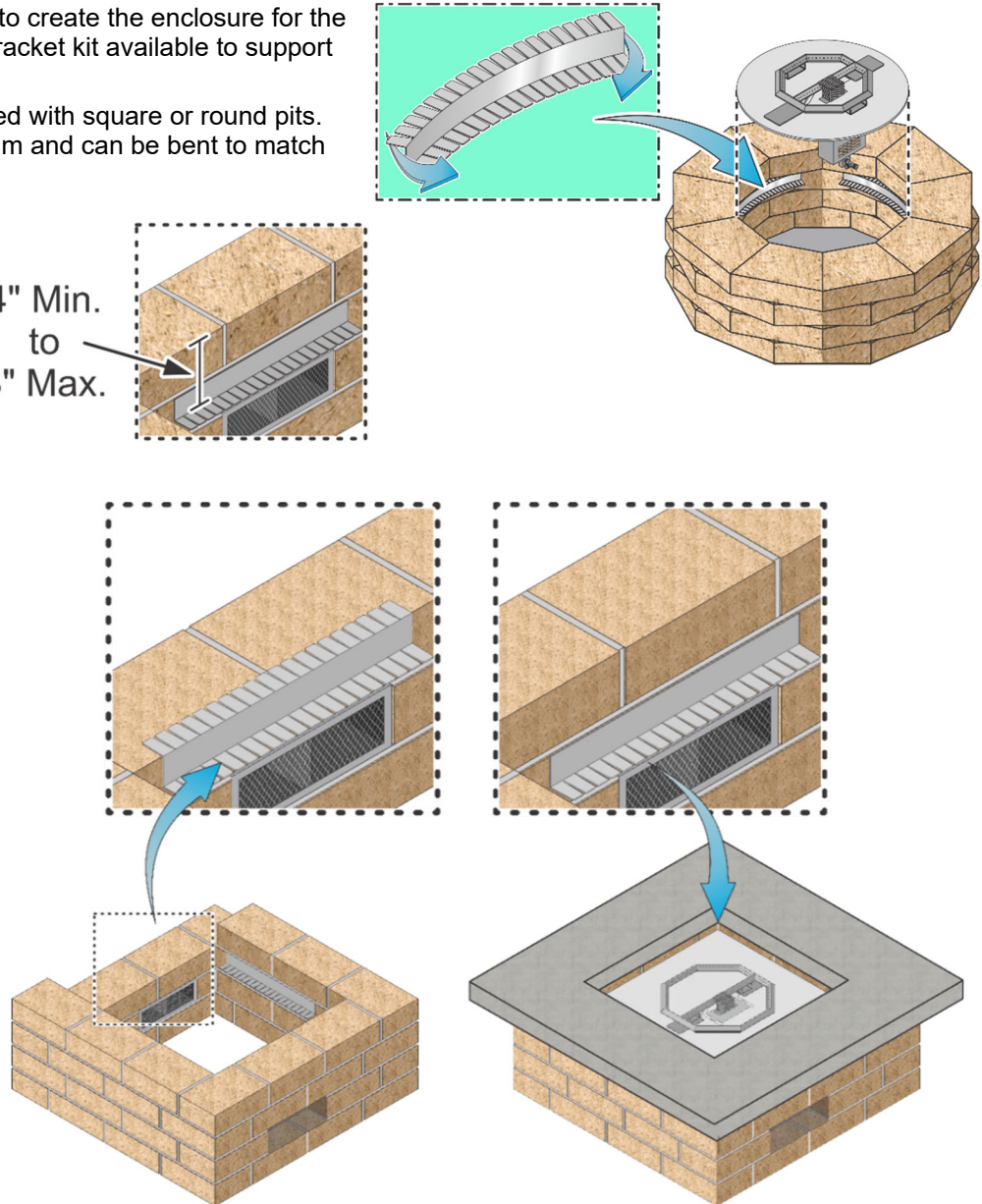
4" Min.
to
8" Max.

- The brackets may be installed under the top course of blocks or a capstone if one is used.

NOTE: If installing the brackets under a capstone, the capstone must be heavy enough to support the weight of the fire pit burner and media used on the burner.

- The brackets can be used in dry stack or mortared applications.

Make sure the brackets on all sides are level with each other.

**Inside Dimensions for Landscaping Block Enclosures**

	25" Fire Pit Burner	28" Fire Pit Burner	33" Fire Pit Burner	37" Fire Pit Burner	47" Fire Pit Burner
Square Base Plate	25-1/8" x 25-1/8" (639mm x 639mm)	28-1/8" x 28-1/8" (715mm x 715mm)	33-1/8" x 33-1/8" (842mm x 842mm)	37-1/8" x 37-1/8" (943mm x 943mm)	47-1/8" x 47-1/8" (1197mm x 1197mm)
Round Base Plate	25-1/8" diameter (639mm)	28-1/8" diameter (715mm)	33-1/8" diameter (842mm)	37-1/8" diameter (943mm)	47-1/8" diameter (1197mm)

Optional – Burner Pan Kit – sku 94601201

Overview

This kit adds a 2" high lip to the perimeter of a VF burner plate to help contain the glass or stone media. The panels for this kit can be installed on both square firepits and round firepits by bending the aluminum to match the outer edge of the burner plate. The panels may also be trimmed as needed. 1 kit will provide enough material to accommodate all standard sizes of VF burner plates except for a square plate for a 47" burner. If using this on a square plate for a 47" burner or a large custom-sized burner plate an additional media pan kit may be required.

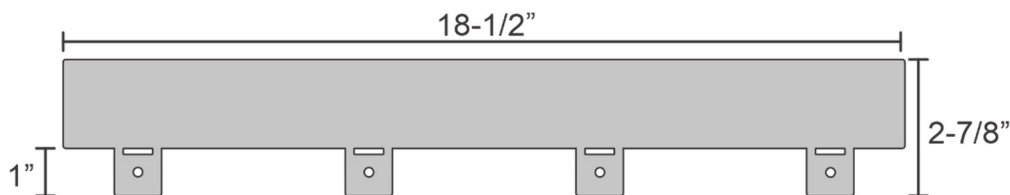
Compatibility

- All Voracious Fire Burners (square or circular).

NOTE: (1) media pan kit will work for all sizes of VF burners except the square version of the 47". For a square version of the 47" or a larger custom sized burner plate order (2) media pan kits.

Packing List

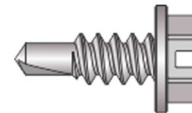
- (8) Panels (18-1/2" x 8 = 148" total length included in the kit)



- (1) 9/64" Drill Bit



- (32) #8 x 1/2 TEK screws

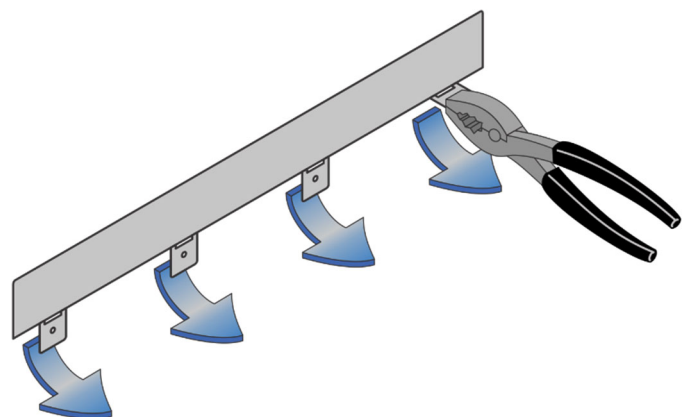


Tools and Additional Items Needed

- Pliers
- Power drill
- Gloves
- Center Punch or Sharpie pen

Installation

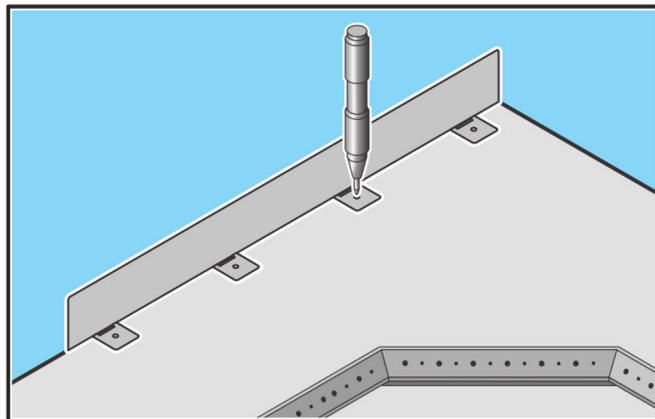
- Prepare the panels for installation. Use pliers to bend the tabs 90 degrees as shown in the illustration. We recommend using gloves to protect your hands from any sharp metal edges.



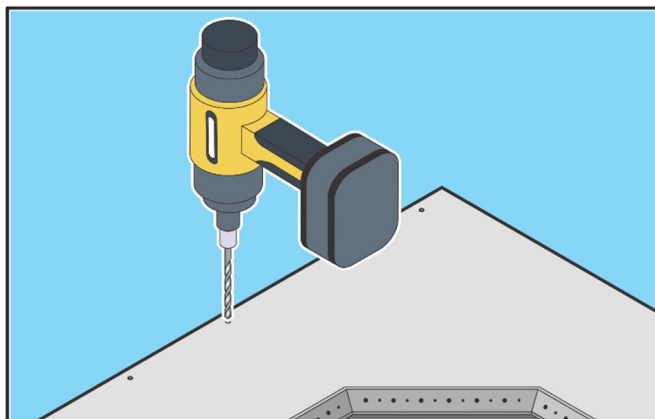
NOTE: If the kit is being installed on a round fire pit bend them to match the radius of the burner bottom plate.



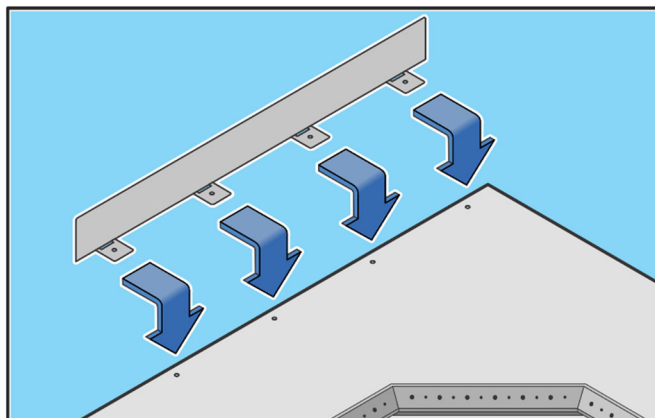
- Place a formed panel along the outer edge of the burner bottom plate and use a center punch or a Sharpie pen to mark the location of the holes in the tab on the burner bottom plate.



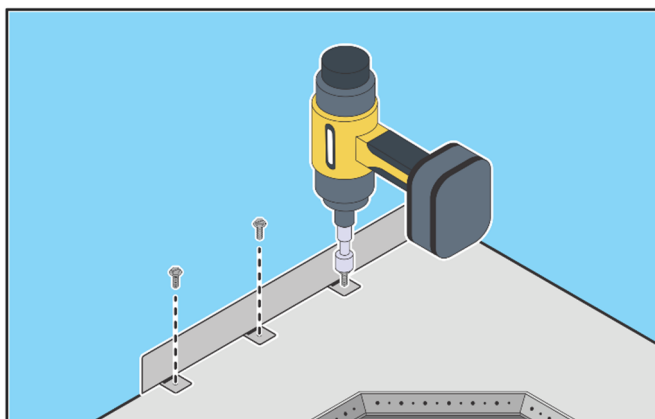
- Set the panel aside and use the included drill bit to drill through the burner bottom plate on every mark.



- Align the panel with the holes just drilled in the bottom plate.

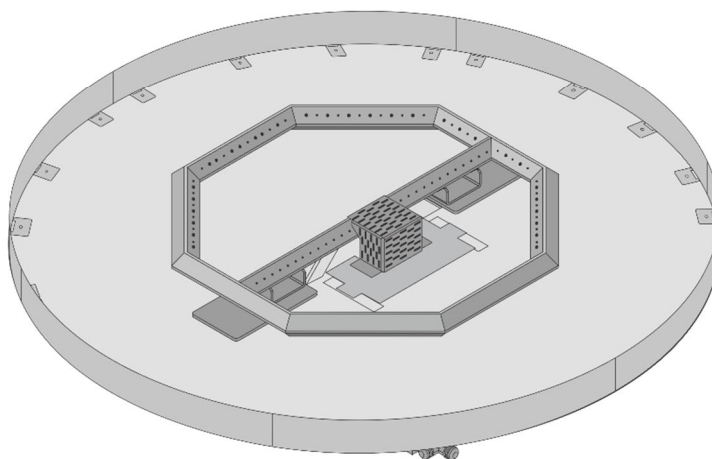
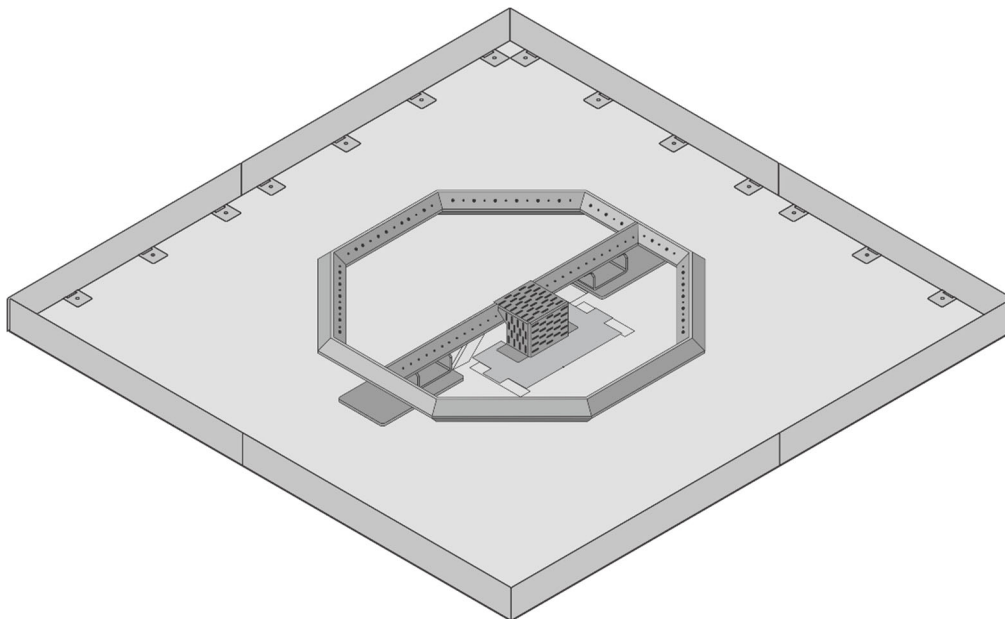
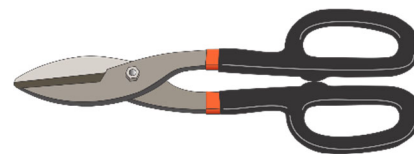


- Use the included TEK screws to secure the plate to the burner bottom plate.



- Repeat the steps above with the remaining plates until the entire perimeter of the burner bottom plate is edged with the panels.

NOTE: The panels may be trimmed with sheers, as needed.



Optional - Glass Media Filler Kits

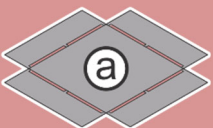
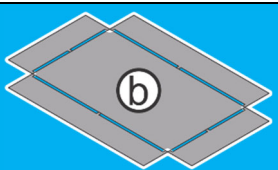
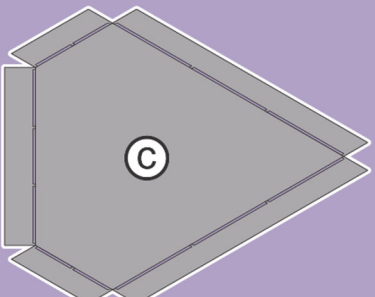
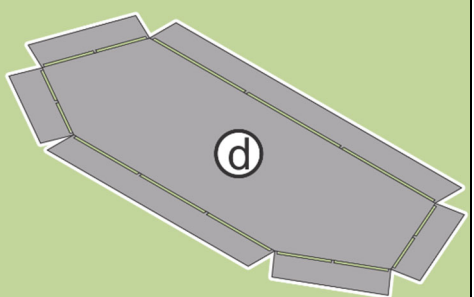
Overview

These kits (or a combination of them) provide aluminum filler shapes to take up some of the space around the burner thereby reducing the amount of glass media that is needed to cover the firepit bottom plate and cover the burner by approximately 50%. The filler pieces are shipped flat and must be bent into shape before being installed in the firepit. **Each kit sku number ordered provides (4) of the shapes indicated in the packing list section below.** **NOTE:** Do not obstruct the burner with any of the filler pieces when installing.

Compatibility

- All Voracious Fire Burners (square or circular).

Packing List

Sku 94601241 Filler Piece Shape "A" 	Sku 94601242 Filler Piece Shape "B" 
Sku 94601243 Filler Piece Shape "C" 	Sku 94601244 Filler Piece Shape "D" 

Tools and Additional Items Needed

- Pliers (optional)
- Gloves

Kits Needed for Each Fire Pit

Use the chart below to determine the number of kits needed for each standard fire pit size.

NOTE: Some configurations will have unused shapes. The unused parts may be kept for the future or discarded.

	Sku 94601241	Sku 94601242	Sku 94601243	Sku 94601244
25" VF Fire Pit with Square Plate	0	4	0	0
28" VF Fire Pit with Square Plate	0	0	1	0
33" VF Fire Pit with Square Plate	1	1	1	0
37" VF Fire Pit with Square Plate	3	2	1	0
47" VF Fire Pit with Square Plate	2	1	1	2
25" VF Fire Pit with Round Plate	2	1	0	0
28" VF Fire Pit with Round Plate	0	0	0	1
33" VF Fire Pit with Round Plate	1	1	0	1
37" VF Fire Pit with Round Plate	3	1	0	1
47" VF Fire Pit with Round Plate	1	0	0	3

Installation

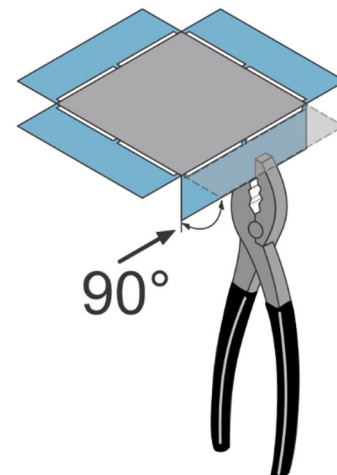
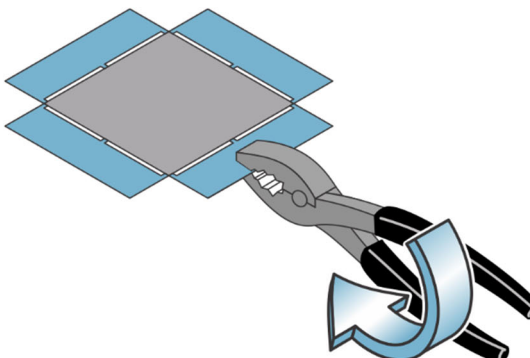
- Use the chart below to determine the quantity of each filler piece shape needed for the fire pit that you are installing. **NOTE:** Depending on the size of the fire pit there may be leftover pieces.

	Shape "A"	Shape "B"	Shape "C"	Shape "D"
25" VF Fire Pit with Square Plate	0	16	0	0
28" VF Fire Pit with Square Plate	0	0	4	0
33" VF Fire Pit with Square Plate	4	4	4	0
37" VF Fire Pit with Square Plate	10	8	4	0
47" VF Fire Pit with Square Plate	7	4	4	8
25" VF Fire Pit with Round Plate	8	4	0	0
28" VF Fire Pit with Round Plate	0	0	0	4
33" VF Fire Pit with Round Plate	4	4	0	4
37" VF Fire Pit with Round Plate	10	4	0	4
47" VF Fire Pit with Round Plate	3	0	0	12

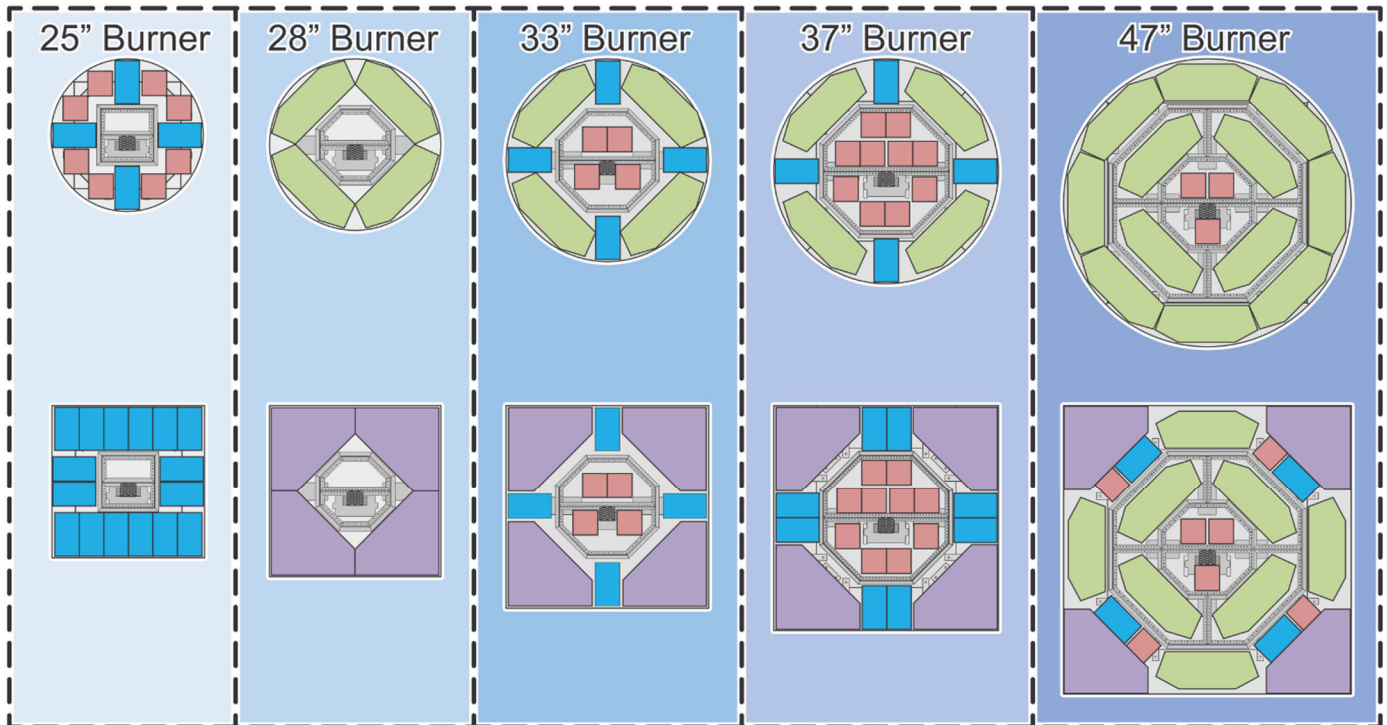
! WARNING !

When forming the shapes as shown below, we recommend using gloves to protect your hands from any sharp metal edges.

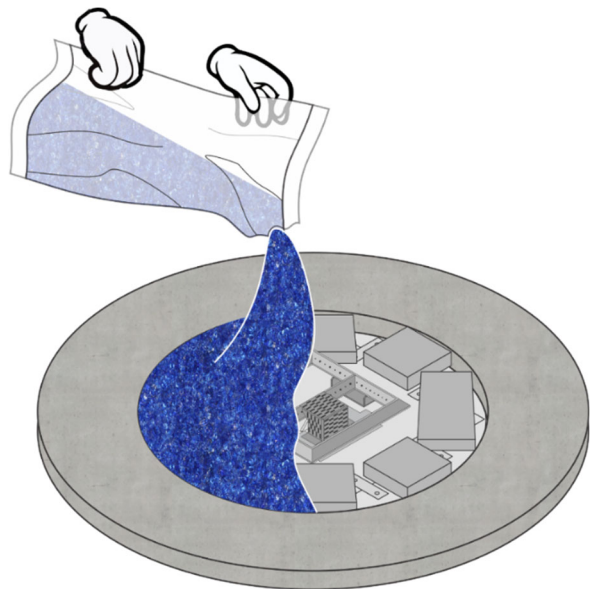
- The filler piece shapes have perforated tabs along its perimeter. Use pliers to gently bend the tabs of each filler piece down 90 degrees.



- Place the formed shapes on the burner plate as shown in the illustration. Make sure you are using the correct illustration for the fire pit you are installing.



- Place the appropriate amount of glass on the fire pit. Make sure the filler pieces are all covered and hidden by glass and that there is only one layer of glass over the burner tubes.



Glass Media Weights When Using Filler Kit

When using the glass filler kits as described above disregard the weights listed in the appliance manual. The amount of glass media needed for the installation will decrease to the weights below.

	25" Fire Pit	28" Fire Pit	33" Fire Pit	37" Fire Pit	47" Fire Pit
Round	30 lbs.	35 lbs.	60 lbs.	70 lbs.	100 lbs.
Square	25 lbs.	35 lbs.	65 lbs.	70 lbs.	110 lbs.

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