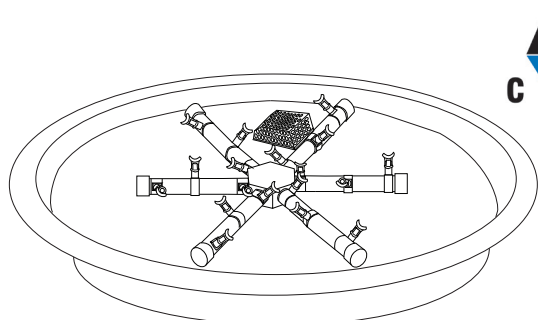


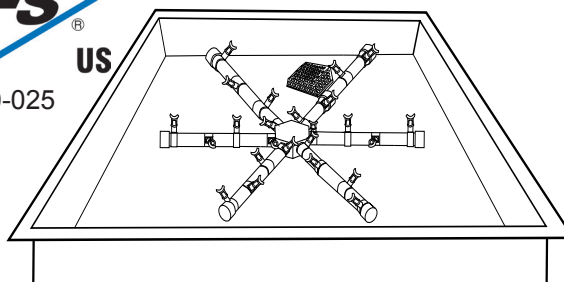


**DO NOT DISCARD. THIS MANUAL  
HAS IMPORTANT OPERATING AND  
MAINTENANCE INSTRUCTIONS.  
LEAVE WITH THE HOMEOWNER.**

**MODEL:**  
**SERIAL #:**



Round Pan



Square Pan

| Natural Gas Models  | Propane Gas Models  | Description                              |
|---------------------|---------------------|------------------------------------------|
| FPB-19RPSBR14TPSI-N | FPB-19RPSBR14TPSI-P | 19" Round Pan with 14" Pro Brass Burner  |
| FPB-25RPSBR21TPSI-N | FPB-25RPSBR21TPSI-P | 25" Round Pan with 21" Pro Brass Burner  |
| FPB-29RPSBR21TPSI-N | FPB-29RPSBR21TPSI-P | 29" Round Pan with 21" Pro Brass Burner  |
| FPB-33RPSBR21TPSI-N | FPB-33RPSBR21TPSI-P | 33" Round Pan with 21" Pro Brass Burner  |
| FPB-20SPSBR14TPSI-N | FPB-20SPSBR14TPSI-P | 20" Square Pan with 14" Pro Brass Burner |
| FPB-26SPSBR21TPSI-N | FPB-26SPSBR21TPSI-P | 26" Square Pan with 21" Pro Brass Burner |
| FPB-32SPSBR21TPSI-N | FPB-32SPSBR21TPSI-P | 32" Square Pan with 21" Pro Brass Burner |

## Outdoor Thermocouple Piloted Safety Ignition (TPSI) Fire Pits

### Installation and Operating Instructions

**IF YOU CANNOT READ OR UNDERSTAND THESE INSTALLATION INSTRUCTIONS  
DO NOT ATTEMPT TO INSTALL OR OPERATE THIS APPLIANCE**

### **INSTALLATION PRECAUTION:**

This system requires a minimum 18-square inches (per side) of cross ventilation.  
Failure to provide proper ventilation will void the warranty.



**Warning:** For Outdoor Use Only



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

|                                                                                                 |                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>DANGER</b> | <p><b>CARBON MONOXIDE HAZARD</b></p> <p>This appliance can produce carbon monoxide which has no odor.</p> <p>Using it in an enclosed area can kill you.</p> <p>Never use this appliance in an enclosed space such as a camper, tent, car or home.</p> |
|                |                                                                                                                                                                                                                                                       |

|                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>DANGER</b></p> <p>If you smell gas:</p> <ol style="list-style-type: none"> <li>1. Shut off gas to the appliance</li> <li>2. Extinguish any open flame.</li> <li>3. If odor continues, keep away from the appliance and immediately call your gas supplier or fire department.</li> </ol> |  <p><b>WARNING</b></p> <p>Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or other appliances.</p> <p>Any LP cylinder not connected for use shall not be stored in the vicinity of this or other appliances.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>WARNING</b></p> <p>Do not leave unattended during use.<br/>Do not use for cooking.<br/>Follow all gas leak procedures in this manual prior to operation.</p> |  <p><b>WARNING</b></p> <p>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.</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b><u>WARNING</u></b></p> <p>If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.</p> <p><b><u>FOR YOUR SAFETY</u></b></p> <p>Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or other appliances.</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p align="center"><b>CALIFORNIA PROPOSITION 65</b></p> <p align="center"> <b>WARNING</b></p> <p>This product is designed to operate with one of the following fuel sources: Liquid Propane or Natural Gas. The fuel used to operate this product, and the products of combustion of such fuel, can expose you to chemicals including Benzene which is known to the State of California to cause cancer, birth defects and other reproductive harm and Carbon Monoxide which is known to the State of California to cause birth defects or other reproductive harm.</p> <p align="center">(For more information go to: <a href="http://www.p65Warnings.ca.gov">www.p65Warnings.ca.gov</a>.)</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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**Congratulations!** You have just purchased a Firegear “Pro Series” fire pit that includes a 304 Stainless Steel burner pan with a Brass Burner. The Brass Burners come in two diameter sizes, 14-inch, and 21-inch models. Each burner leg incorporates individual injectors that take the place of a standard main burner orifice. Each burner is unique in the fact that the 14-inch burner has three (3) injectors per leg and the 21-inch burner has four (4) injectors per leg. These injectors provide a unique flame pattern that differs from a typical steel burner.



### CAUTION

All media (i.e. lava rock, lava stones, lava boulders and fire glass) has the potential of thermal spalling. This is a process that may occur when media is wet and moisture gets trapped inside of the material due to rapid temperature differences. When this happens the media has the potential to crack or “pop” outside the fire feature.

### WE HIGHLY RECOMMEND COVERING ALL FIRE FEATURES WHEN NOT IN USE

The use of a cover can lessen the impact of thermal spalling; however, heavy rains, high humidity and the presence of moisture may still cause the media to pop.

### ALWAYS USE CAUTION WHEN USING THE FIRE FEATURE

Extra caution should be taken when lighting a fire feature when heavy rains, high humidity and moisture are present. Light the fire feature; leave the area allowing any moisture in the media to dissipate. We strongly recommend that during this drying out time that you monitor the fire feature from a distance. This drying out period should be no less than 30 minutes. Continue monitoring the flame from distance to ensure that all popping has ceased before fully enjoying the fire.



## SPECIFICATIONS

| Natural Gas Models: | Propane Gas Models: | A<br>Depth | B<br>Min/Max<br>Opening | C<br>Inside Pan<br>Dimension | D<br>Ground<br>Level | E<br>Side<br>Wall | F<br>Combustible<br>Ceiling | G<br>Combustible<br>Floor |
|---------------------|---------------------|------------|-------------------------|------------------------------|----------------------|-------------------|-----------------------------|---------------------------|
| FPB-19RPSBR14TPSI-N | FPB-19RPSBR14TPSI-P | 2½"        | 19 ¼" - 20"             | 19" Rd.                      | 16"                  | 36"               | 120"                        | 18"                       |
| FPB-25RPSBR21TPSI-N | FPB-25RPSBR21TPSI-P | 2½"        | 25 ¼" - 26"             | 25" Rd.                      | 16"                  | 36"               | 120"                        | 18"                       |
| FPB-29RPSBR21TPSI-N | FPB-29RPSBR21TPSI-P | 2½"        | 30 ¼" - 31"             | 29" Rd.                      | 16"                  | 36"               | 120"                        | 18"                       |
| FPB-33RPSBR21TPSI-N | FPB-33RPSBR21TPSI-P | 2½"        | 34 ¼" - 35"             | 33" Rd.                      | 16"                  | 36"               | 120"                        | 18"                       |
| FPB-20SPSBR14TPSI-N | FPB-20SPSBR14TPSI-P | 2½"        | 20 ¼" - 21"             | 20" Sq.                      | 16"                  | 36"               | 120"                        | 18"                       |
| FPB-26SPSBR21TPSI-N | FPB-26SPSBR21TPSI-P | 2½"        | 26 ¼" - 27"             | 26" Sq.                      | 16"                  | 36"               | 120"                        | 18"                       |
| FPB-32SPSBR21TPSI-N | FPB-32SPSBR21TPSI-P | 2½"        | 32 ¼" - 33"             | 32" Sq.                      | 16"                  | 36"               | 120"                        | 18"                       |

**Table 1** Fire Pit Dimensions

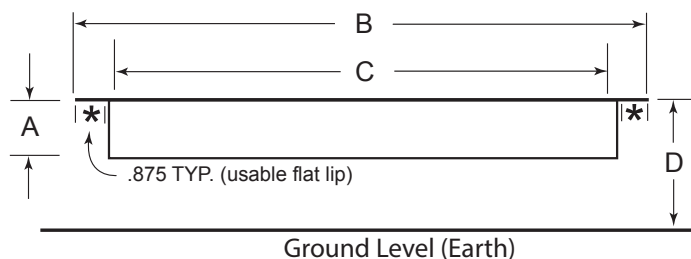


**Fig. 1** Burner pan specifications.

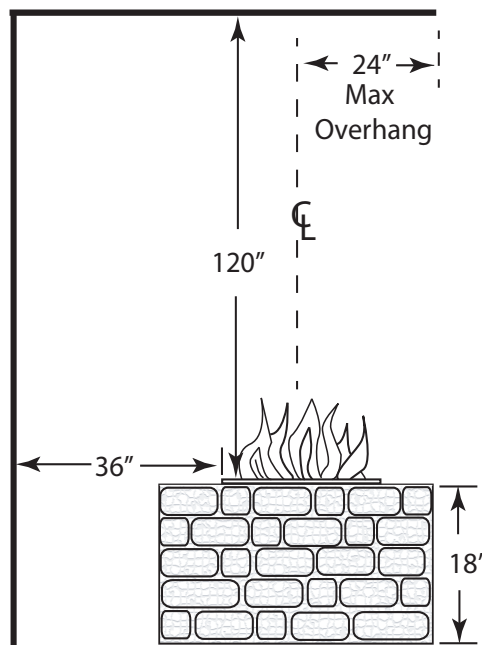


**Fig. 2** Clearance to Combustibles  
(Not to be used in an enclosed space)

| Model:<br>N=Natural Gas | Injector Size | Model:<br>P=Propane Gas | Injector Size | Btu Ratings    |
|-------------------------|---------------|-------------------------|---------------|----------------|
| FPB-19RPSBR14TPSI-N     | #61 (0.039)   | FPB-19RPSBR14TPSI-P     | #68 (0.031)   | 125K (36.63kW) |
| FPB-25RPSBR21TPSI-N     | #61 (0.039)   | FPB-25RPSBR21TPSI-P     | #68 (0.031)   | 175K (51.28kW) |
| FPB-29RPSBR21TPSI-N     | #61 (0.039)   | FPB-29RPSBR21TPSI-P     | #68 (0.031)   | 175K (51.28kW) |
| FPB-33RPSBR21TPSI-N     | #61 (0.039)   | FPB-33RPSBR21TPSI-P     | #68 (0.031)   | 175K (51.28kW) |
| FPB-20SPSBR14TPSI-N     | #61 (0.039)   | FPB-20SPSBR14TPSI-P     | #68 (0.031)   | 125K (36.63kW) |
| FPB-26SPSBR21TPSI-N     | #61 (0.039)   | FPB-26SPSBR21TPSI-P     | #68 (0.031)   | 175K (51.28kW) |
| FPB-32SPSBR21TPSI-N     | #61 (0.039)   | FPB-32SPSBR21TPSI-P     | #68 (0.031)   | 175K (51.28kW) |

**Table 2** Burner specifications.

**Disclaimer:** Btu listings are based on 7.0"WC for Natural Gas and 11.0"WC for Liquid Propane (LP) at the burner orifice. Flex line size and proper gas pipe sizing will also affect Btu's. As a result your Btu's may vary slightly from Table 2 specifications.

| Pressure     | NG                 | LP                  |
|--------------|--------------------|---------------------|
| Min. Inlet   | 3.5" WC (0.87 kPa) | 8.0" WC (1.99kPa)   |
| Max. Inlet   | 10.5" WC (2.61kPa) | 13.0" WC (3.23 kPa) |
| Normal Inlet | 7.0" WC (1.74 kPa) | 11.0" WC (2.73 kPa) |

**Table 3** Gas Pressures



# GAS PIPE SIZING CHART

## NATURAL GAS : PIPE SIZING CHART

| Length of Pipe in Feet | 1/2" | 3/4" | 1"  | 1 - 1/4" | 1 - 1/2" | 2"   | 2 - 2 1/2" | 3"   | 4"   |
|------------------------|------|------|-----|----------|----------|------|------------|------|------|
| 10                     | 108  | 230  | 387 | 793      | 1237     | 2259 | 3640       | 6434 | -    |
| 20                     | 75   | 160  | 280 | 569      | 877      | 1610 | 2613       | 5236 | 9521 |
| 30                     | 61   | 129  | 224 | 471      | 719      | 1335 | 2165       | 4107 | 7859 |
| 40                     | 52   | 110  | 196 | 401      | 635      | 1143 | 1867       | 3258 | 6795 |
| 50                     | 46   | 98   | 177 | 364      | 560      | 1041 | 1680       | 2936 | 6142 |
| 60                     | 42   | 89   | 159 | 336      | 513      | 957  | 1559       | 2684 | 5647 |
| 70                     | 38   | 82   | 149 | 317      | 476      | 896  | 1447       | 2492 | 5250 |
| 80                     | 36   | 76   | 140 | 239      | 443      | 840  | 1353       | 2315 | 4900 |
| 90                     | 33   | 71   | 133 | 275      | 420      | 793  | 1288       | 2203 | 4667 |
| 100                    | 32   | 68   | 126 | 266      | 411      | 775  | 1246       | 2128 | 4518 |
| 125                    | 28   | 60   | 117 | 243      | 369      | 700  | 1143       | 1904 | 4065 |
| 150                    | 25   | 54   | 105 | 215      | 327      | 625  | 1008       | 1689 | 3645 |
| 175                    | 23   | 50   | 93  | 196      | 303      | 583  | 993        | 1554 | 3370 |
| 200                    | 22   | 47   | 84  | 182      | 280      | 541  | 877        | 1437 | 3160 |
| 300                    | 17   | 37   | 70  | 145      | 224      | 439  | 686        | 1139 | 2539 |

- Natural Gas (NG) flow is given in thousands of BTU/hr. = 1 cubic foot of NG gas - 1000 BTU
- Nominal pressure at the burner for Natural Gas is 3.5" of water column. (Typical machine supply 5"-7")
- Pipe length must include additional length for all fittings. Add approximately 5 feet of pipe per fitting.
- Natural Gas Example: A machine with a burner that requires 440,000 BTU would need a 1 - 1/4" pipe for a 20" long run.

## LIQUID PROPANE : PIPE SIZING CHART

| Length of Pipe in Feet | 1/2" | 3/4" | 1"   | 1 - 1/4" | 1 - 1/2" | 2"   | 2 - 2 1/2" | 3"    | 4"    |
|------------------------|------|------|------|----------|----------|------|------------|-------|-------|
| 10                     | 275  | 567  | 1071 | 2205     | 3307     | 6221 | 10140      | 17990 | 35710 |
| 20                     | 189  | 393  | 732  | 1496     | 2299     | 4331 | 7046       | 12510 | 25520 |
| 30                     | 152  | 315  | 590  | 1212     | 1858     | 3465 | 5695       | 10110 | 20620 |
| 40                     | 129  | 267  | 504  | 1039     | 1559     | 2992 | 4778       | 8481  | 17300 |
| 50                     | 114  | 237  | 448  | 913      | 1417     | 2646 | 4343       | 7708  | 15730 |
| 60                     | 103  | 217  | 409  | 834      | 1275     | 2394 | 3908       | 6936  | 14150 |
| 70                     | 89   | 185  | 346  | 724      | 1086     | 2047 | 3329       | 5908  | 12050 |
| 80                     | 78   | 162  | 307  | 630      | 976      | 1811 | 2991       | 5309  | 10830 |
| 90                     | 69   | 146  | 275  | 567      | 866      | 1606 | 2654       | 4711  | 9613  |
| 100                    | 63   | 132  | 252  | 511      | 787      | 1496 | 2412       | 4281  | 8736  |
| 125                    | 54   | 112  | 209  | 439      | 665      | 1282 | 2083       | 3618  | 7382  |
| 150                    | 48   | 100  | 185  | 390      | 590      | 1138 | 1808       | 3210  | 6549  |
| 175                    | 43   | 90   | 168  | 353      | 534      | 1030 | 1637       | 2905  | 5927  |
| 200                    | 40   | 83   | 155  | 325      | 491      | 947  | 1505       | 2671  | 5450  |
| 300                    | 37   | 77   | 144  | 303      | 458      | 887  | 1404       | 2492  | 5084  |

- Liquid Propane (LP) Gas flow is given in thousands of BTU/hr. = 1 cubic foot of LP gas - 2500 BTU.
- This chart refers to low pressure LP, after regulation, Standard nominal pressure at the burner for Liquid Propane Gas is 11" of water column.
- Pipe length must include additional length for all fittings. Add approximately 5 feet of pipe per fitting.
- LP Example: A machine with a burner that requires 440,000 BTU would need a 1" pipe for a 20' long run.

NOTE: The sizing charts above list the specific pipe sizes required for the amount of BTU's for a new gas line installations. If you are using an existing gas line you must take into consideration the existing gas line capacities to ensure you will have proper pressure. **This chart is for reference only, we recommend you consult with a Licensed Plumber/Gas Fitter or NFPA54 (National Fuel Gas Code - current edition) for more details.**

**Table 4** Gas Pipe Sizing Chart



## PREPARING A NON-COMBUSTIBLE STRUCTURE

**WARNING:** Proper clearances from combustible materials must be maintained from all sides, top and bottom of this appliance. Use the specifications listed on page 4 for proper clearance to combustibles.

The fire pit can be installed on a flat, stable surface, away from any combustible materials. Install Fire pit on any level, outdoor non-combustible, flat stable surface or a combustible floor according to the clearances specified in this manual. **NOTE:** Do not place fire pit directly on grass, dirt, or rocks this may prevent proper ventilation (Fig.1, pg. 4). **Ensure proper water drainage is also incorporated into the fire pit enclosure.**

### HARD PIPING TO FIRE PIT WITHOUT GAS PROXIMITY

**NOTE:** We recommend using ¾" black iron pipe; however please refer to the NFPA54 (National Fuel Gas Code) for proper pipe sizing when exceeding 20-feet in length for fire pits rated above 100,000 Btu's.

1. Turn **OFF** gas supply system. **NOTE:** All gas connections (except for brass to brass) require the following. Clean pipe threads using either a wire brush or steel wool. Apply pipe sealant to the fittings before making any connection.

**BE CAREFUL!** Ensure all gas connections are snug, but do not over tighten!

2. Extend the gas supply system using minimum of ¾" black iron pipe or an approved flexible gas line from existing house supply. This can be accomplished by teeing off or tapping into a gas line connection. Install necessary pipe for the distance required and then install a manual shut-off valve at the exterior house wall. If pipe is to pass through a foundation or house wall, make sure to re-seal the area around the pipe with weather sealant.

3. The primary gas shut-off (not supplied) will require a ½" male flared fitting to enable connection of the stainless steel flex gas line supplied with the fire pit (see Fig. 7 page 9).



**ALL PAN OR FLAT DISCS MUST BE REMOVABLE FOR SERVICE** Pans or Discs CANNOT be installed in a manner to prevent them from being removed for service. Top coping material or top cap of fire pit MUST NOT overlap onto the pan or disc surface without easily being removed. Pan lip of disc edge must be unobstructed so it can be lifted out of the fire pit for servicing. We highly recommend the use of a flex frame kit for all installations.

### **IMPORTANT**

Installation of Natural or LP gas should be done by a qualified installer, service agency or gas supplier. This appliance must be isolated from the gas supply piping system by closing its manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½" psig (3.5kPa)

### **VENTILATION FOR NON-COMBUSTIBLE ENCLOSURE**

Fire pits are subjected to many outdoor elements such as rain, snow, wind, heat or cold. **A minimum of 18 square inches (per side) of cross ventilation is required to keep the components in good working order.** Use Fig. 6 as guide to assist to incorporate proper ventilation.

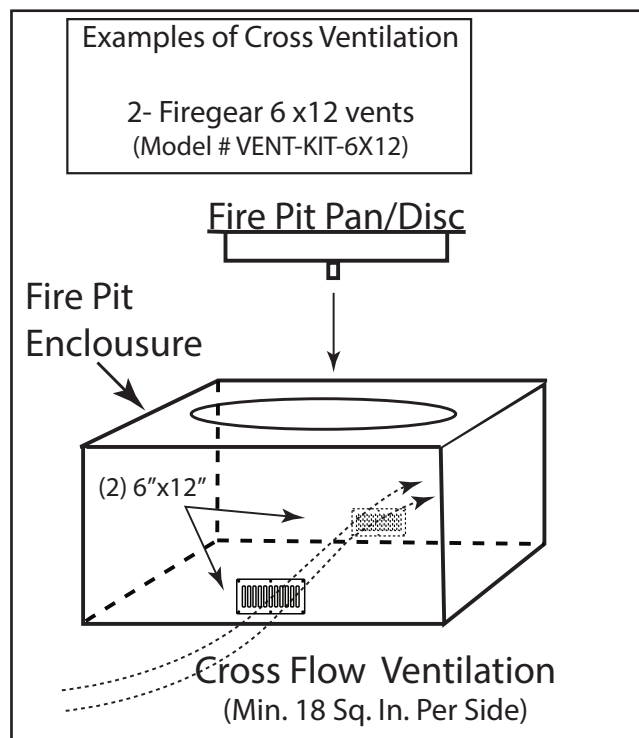


**Fig. 6** Cross Ventilation Example



## REMOVING FIRE PIT FROM CARTON

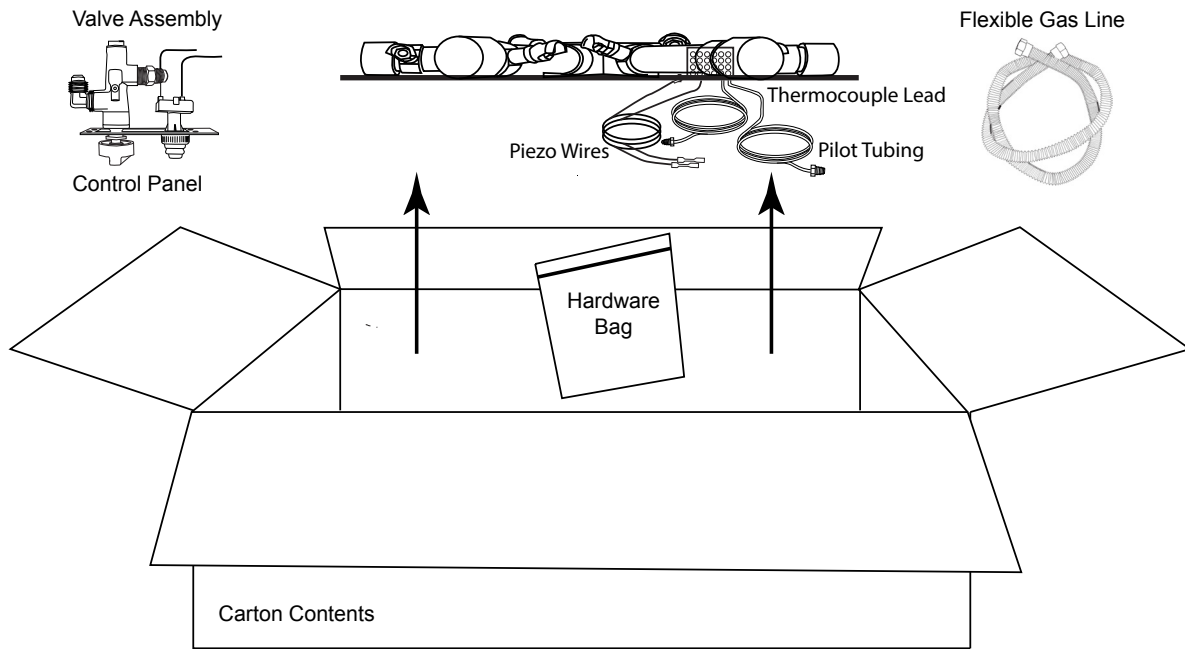


**Fig. 3** Shows carton contents. **Note:** Round pan was illustrated for this drawing.

This fire pit comes partially assembled from the factory. The pilot tubing and thermocouple leads are 48" in total length, therefore, when mounting the Gas Valve/Piezo mounting plate, ensure the mounting plate is close enough to make all connections.

Open carton and remove contents. Inspect for any damage or missing parts.

The hardware bag includes mounting plate screws, injector hoods, Piezo wires and flex connector to complete the installation.

Carefully install the fire pit into the prepared enclosure, connect the gas line and wire according to the figure drawings in this manual.

### BEFORE THE FIRE PIT IS INSTALLED

Install the burner nipple and flared fitting to the burner. Ensure the nipple and fitting has gas rated Teflon tape wrapped around the threads (See Fig. 4). Install in a clockwise manner. Secure into position.

### CONTROL PANEL MOUNTING PLATE

The control panel can use the template on the back of this manual for mounting or you can purchase an optional PAVER-CP-TPSI control plate to mount the control panel. Once you have determined the location of mounting plate, install the gas connections and Piezo wires as shown in Fig. 5 and secure all connections.

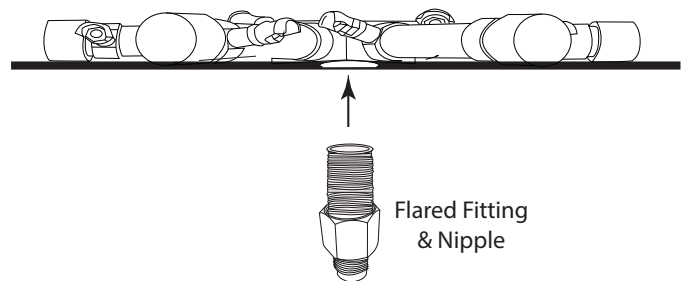


**Fig. 4** Installing nipple into bottom of burner.

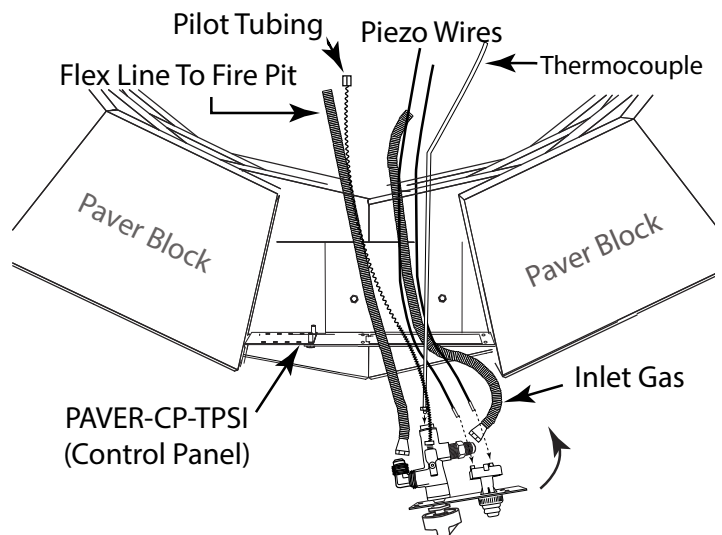


**Fig. 5** Installing control panel into PAVER-CP-TPSI mounting plate.



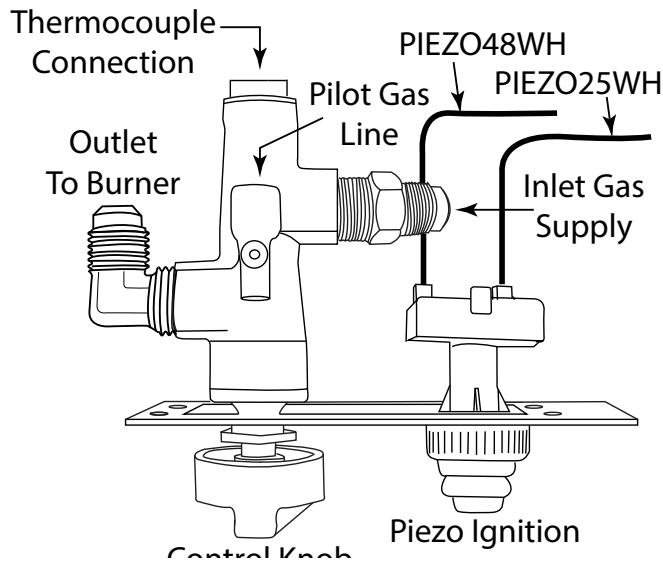


**Fig. 7** TPSI control panel mounting plate.

Remove red button cap and install battery into Piezo ignitor module.

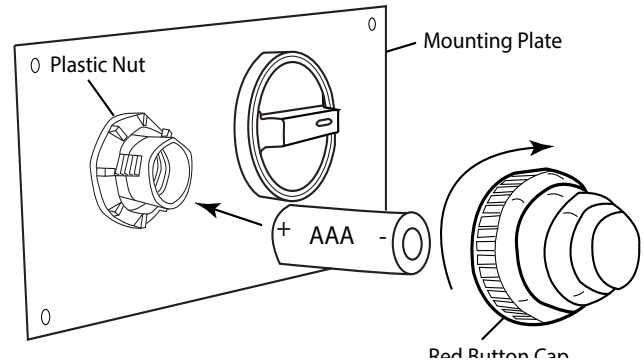


**Fig. 8** Installing battery into Piezo.

## INSTALLATION OF FIRE PIT INTO AN APPROVED ENCLOSURE

### REQUIREMENTS

- Only non-combustible materials should come in direct contact with any part of the fire pit. Underneath area should be non-combustible or a flat level combustible surface according to the clearances specified in this manual.
- We recommend using  $\frac{3}{4}$ " black iron pipe; however please refer to the NFPA54 (National Fuel Gas Code) for proper pipe sizing when exceeding 20-feet in length for fire pits rated above 100,000 Btu's.
- Determine the size of the round or square fire pit you are preparing to install (Refer to page 4).
- You must provide a round or square opening out to place the fire pit into the non-combustible enclosure. Do not exceed the maximum opening from Table 1, dimension B.
- Follow the local code requirements for the gas type being used. This fire pit should be installed in accordance with local codes and ordinances or in the absence of local codes, with the latest National Fuel Gas Code, ANSI Z223.1 NFPA54 or CSA B149.1, Natural and Propane Installation Code in Canada.
- Fire pits create high temperatures, it is very important to have any combustibles at a safe distance.
- CAUTION: A minimum of 18 square inches of cross ventilation (per side) is required to keep the enclosure dry.**
- These products are **designed for outdoor use only**. Not approved for any indoor use.
- This fire pit is designed to have lava rock completely covering the spur burner, so that the burner is not visible. Do not cover more than 1" above the top of the burner and do not block the injectors with any media. When purchasing lava rock use 1" diameter as a base to fill the burner pan.
- Gas lines and fittings must be installed in to the non-combustible structure. All gas connections must be leak tested before installation of the fire pit. Soapy water leak detection is required before regular use of the fire pit.
- Do not use material that will absorb moisture over time and will not release this moisture quickly. Moisture can boil in this material and can rapidly break apart and cause damage or personal injury.
- Never leave any other combustible material on top of the fire pit. This could cause unsafe operation of this system and damage to the component that will not be covered under our warranty.

**Ensure proper water drainage is also incorporated into the fire pit enclosure.**



## PILOT ASSEMBLY

It is important to understand that this is a “standing pilot” system. When placing media around the pilot area ensure the top of the screen hood/cover is open to exhaust the gases and enable the pilot to operate properly. See Fig. 9.

## INSTALLATION OF LAVA ROCK/MEDIA INTO FIRE PIT

Install lava rock/media into the burner pan. Ensure the lava rock is a 1 to 2-inch diameter for proper operation. **Note:** Do not pour Lava Rock directly from bag. It should be placed naturally and NOT packed in tight. Loose fitting is important to ensure robust flames. Be sure rocks are free of any excessive dust. This prevents the burner pan weep holes from being plugged and holding water.

**IMPORTANT:** Do not place media directly on top or under the screen cover. The screen must be free of any debris to ensure proper lighting of burner and good flame sense (See Fig. 10).

Cover the burner completely with media but do not make the depth greater than 1-inch over top of the burner port-holes.

Do NOT cover the top of the screen hood with any rock or glass. It must be free an any debris to operate properly.

## INJECTOR HOOD/RAIN SHIELD INSTALLATION

Install the hood/rain shields over top of each injector of the pro brass burner by sliding it into position. Use the bead in the lower section of the hood, and align it with the groove in the injector, until it snaps into place. See Fig. 11. Rotate the hood to ensure it is protecting the injector opening from the elements (i.e. rain, dirt or media). See Fig. 1 for proper alignment. **Note:** If there is no detent in the injector, ensure the hood is  $\frac{1}{2}$ " from the base of the injector to the bottom edge of the hood as shown in Fig. 12.

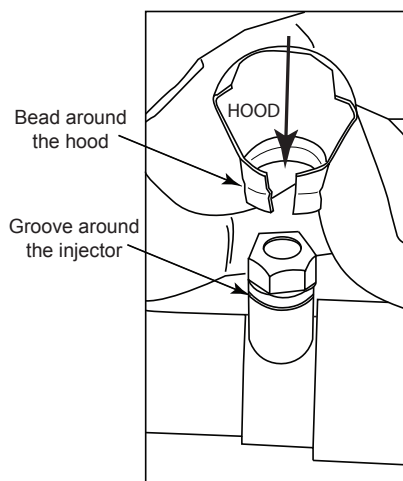


Fig. 11 Installing hood over top of injector.

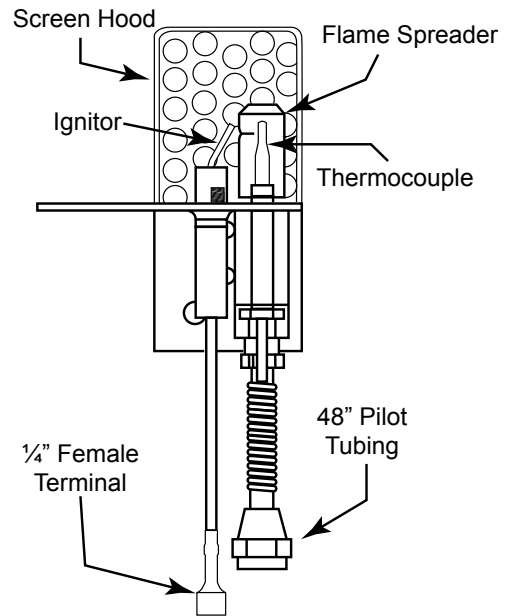


Fig. 9 Show TPSI pilot assembly identification.

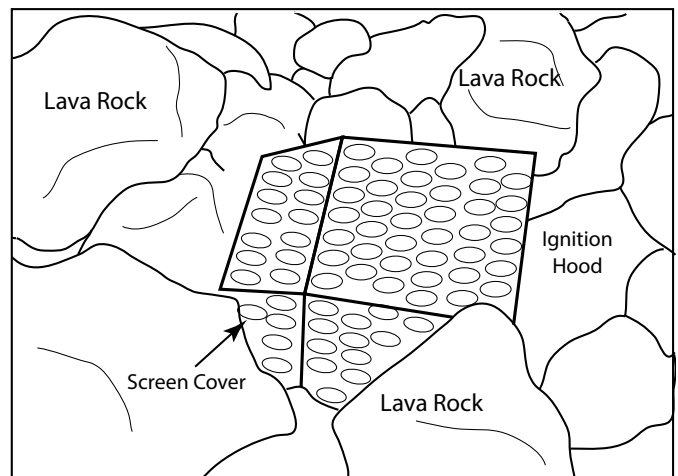


Fig. 10 Keep screen cover exposed

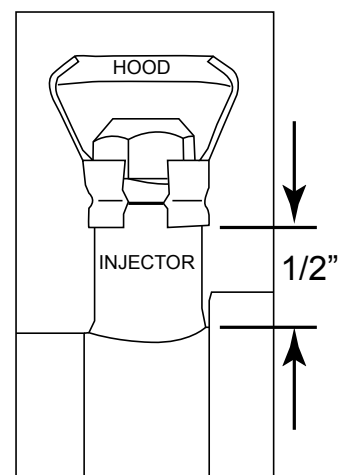
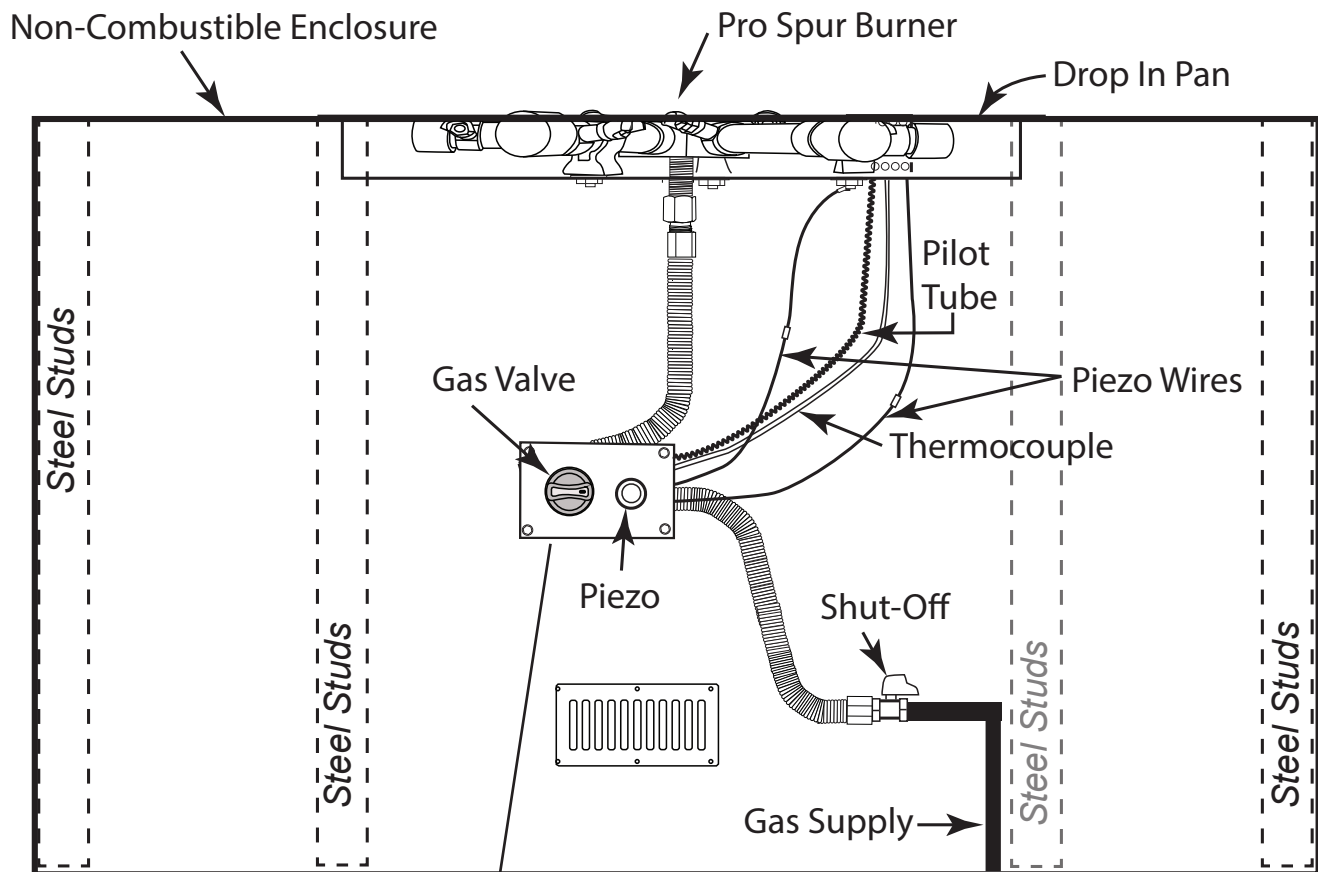
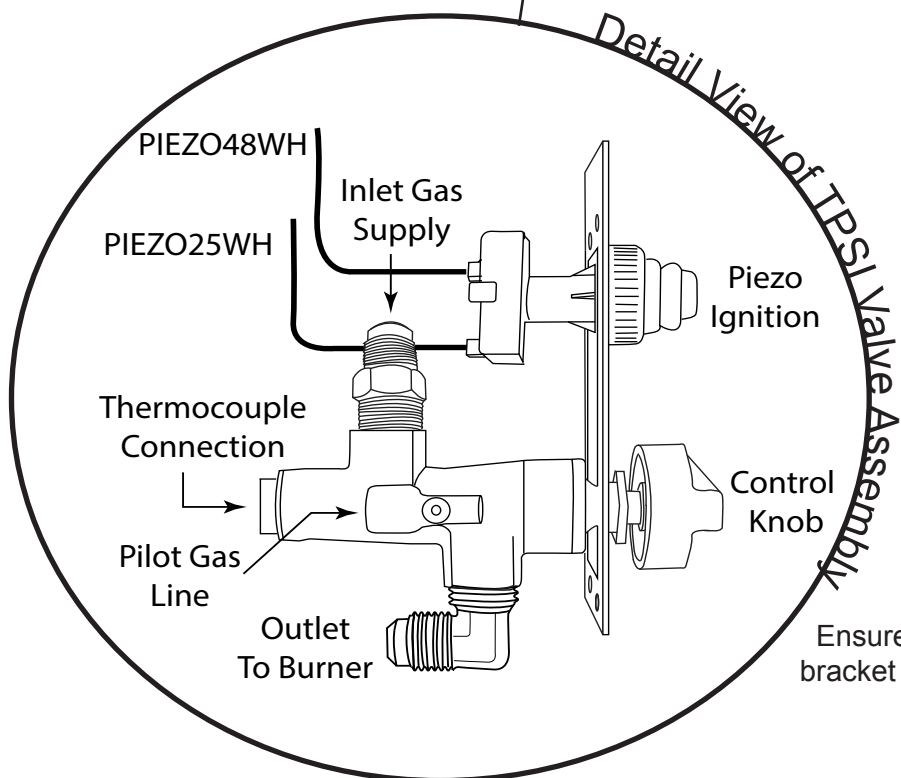


Fig. 12 Shows  $\frac{1}{2}$ " spacing from bottom of injector.





Gas valve and flexible gas lines are supplied; E-Stop shut-off is not supplied, but available in accessories page. Flex lines with flared fittings do not require Teflon tape or pipe compound. Ensure not to "kink" the flex lines to allow better gas flow of gas. The illustration above is only a guide for the gas connection. Local codes may require different methods to connect the gas supply. **Note: See optional mounting method of TPSI face plate on back of this manual.**



Ensure you determine how to mount valve bracket into place before completing fire pit.

**Fig. 13** Typical installation.



## OPERATION

**CAUTION:** Children and adults should be alerted to the hazards on high surface temperatures and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the area of the appliance.

**WARNING:** Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of control system and any gas control, which has been under water.

### SAFETY WARNINGS

1. Never leave the fire pit unattended during operation.
2. Clothing or other flammable materials should not be placed on or near the appliance.
3. Any guard or other protective device removed for servicing the appliance must be replaced prior to operating the appliance.
4. Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required as necessary. It is imperative the control compartment, burners and circulating air passageways of the appliance be kept clean.
5. Inspect the fuel supply connection before each use of the appliance.
6. Temporary storage of this appliance indoors is permissible only if it has been disconnected from its fuel supply (Natural or L.P. gas line).

### WARNING

1. This appliance is hot when operated and can cause severe burns if contacted.
2. Do not burn any solid fuels in this appliance.

### READ ALL LIGHTING INSTRUCTIONS BEFORE ATTEMPTING TO LIGHT FIRE PIT

**CAUTION:** ENSURE YOU HAVE LEAK TESTED THE FIRE PIT BEFORE OPERATING.

**WARNING: Do not stand over fire pit during ignition or operation due to high surface temperatures.**

## LIGHTING INSTRUCTIONS

### TURNING ON FIRE PIT

1. Depress and hold the red Piezo button and ensure sparking is occurring inside the pilot hood. An audible sparking sound can be heard.
2. While holding the Piezo button, slightly depress the control knob inward and rotate counter clockwise to the PILOT position. Depress and hold control knob inward for at least 30 to 60 seconds; to light the PILOT.
3. Once the pilot lights, release the Piezo button and turn control knob counter clockwise to the ON position. If pilot does not stay lit, release the control knob, turn the control knob clockwise to turn OFF and wait 5 minutes before trying again. Turn gas supply OFF to check ignitor spacing and Piezo battery if no sparking occurs.
4. Repeat steps 1-4 to try again.

### TURNING OFF FIRE PIT

1. Slightly depress the control knob inward and rotate the knob clockwise to OFF position. Fire pit will turn OFF.
2. After cooling off install cover (if applicable).

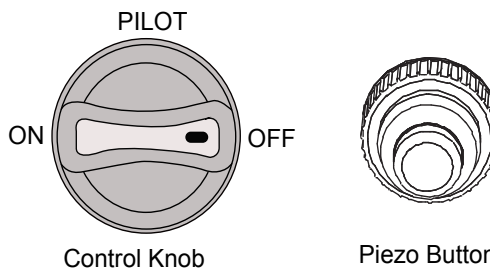
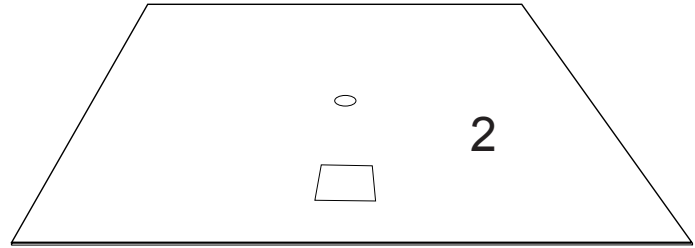
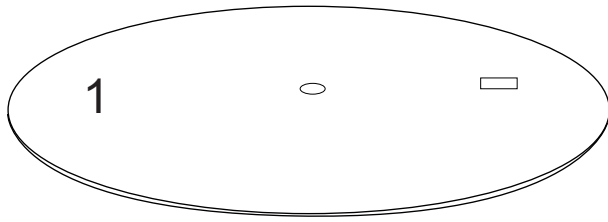


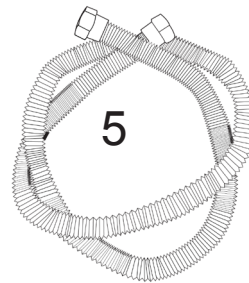
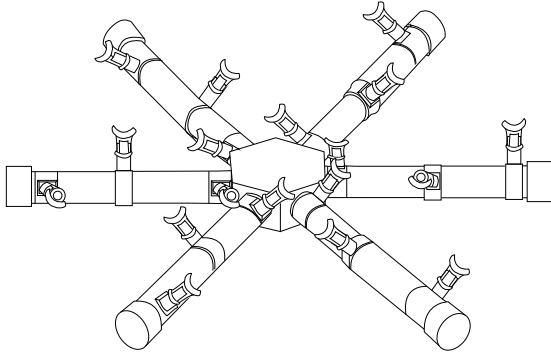
**Fig. 14** Control panel with gas valve knob and Piezo.



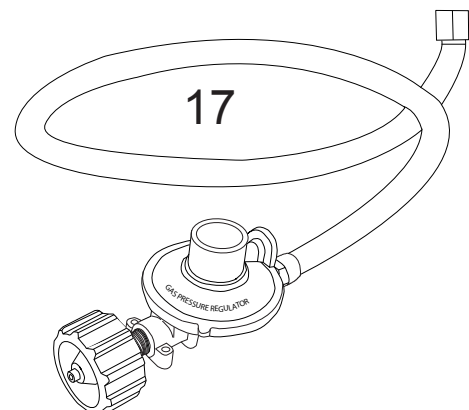
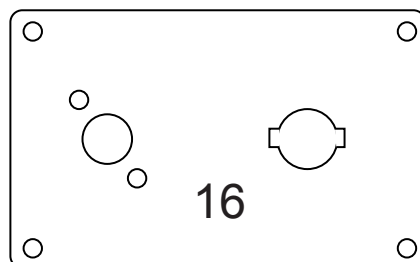
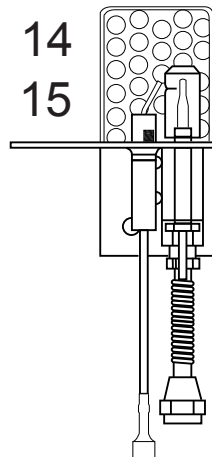
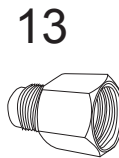
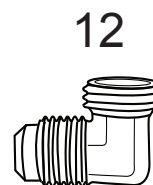
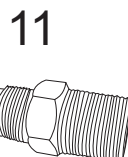
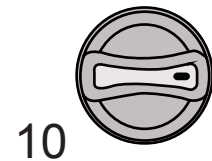
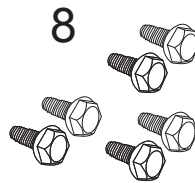
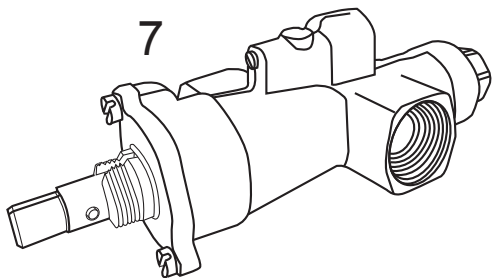
# TPSI REPLACEMENT PARTS



3-3A / 4-4A



Drawings not to scale.



# TPSI REPLACEMENT PARTS

| Item | Description                                         | Qty. | Part Number     |
|------|-----------------------------------------------------|------|-----------------|
| 1    | 19-inch Round Stainless Pan                         | 1    | PAN-SS19R       |
| 1    | 25-inch Round Stainless Pan                         | 1    | PAN-SS25R       |
| 1    | 29-inch Round Stainless Pan                         | 1    | PAN-GV29R       |
| 1    | 33-inch Round Stainless Pan                         | 1    | PAN-GV33R       |
| 2    | 20-inch Square Stainless Pan                        | 1    | PAN-SS20S       |
| 2    | 26-inch Square Stainless Pan                        | 1    | PAN-SS26S       |
| 2    | 32-inch Square Stainless Pan                        | 1    | PAN-SS32S       |
| 3    | 14-inch Pro Spur Burner - Natural Gas               | 1    | FG-PSBR-BS14-NG |
| 3A   | 14-inch Pro Spur Burner - Propane Gas               | 1    | FG-PSBR-BS14-LP |
| 4    | 21-inch Pro Spur Burner - Natural Gas               | 1    | FG-PSBR-BS21-NG |
| 4A   | 21-inch Pro Spur Burner - Propane Gas               | 1    | FG-PSBR-BS21-LP |
| 5    | ½" Flex Gas Line (46-inch Length)                   | 1    | T200-9898-46    |
| 6    | ½" MIP x 2" Nipple                                  | 1    | 113SS4-D2       |
| 7    | Copreci High Capacity Gas Valve                     | 1    | 68001599        |
| 8    | Stainless Steel Thread Cutting Screws #10-24x ½"    | 8    | ST3-113-1028    |
| 9    | Lock Nut, M15 x 1 for TPSI Gas Valve                | 1    | 08032504        |
| 10   | Gas Valve Control Knob for TPSI Valve               | 1    | CN-ALHC         |
| 11   | ½" OD Flare to ½" MIP Fitting                       | 1    | U1-8D-S         |
| 12   | ½" Flare to ½" MIP 90° elbow                        | 1    | 49-88           |
| 13   | ½" NPT Female to ½" Male Flare Fitting              | 1    | U3-8D-S         |
| 14   | Complete Natural Gas Pilot Assembly with 48" leads  | 1    | PSE-NA495       |
| 15   | Complete Propane Gas Pilot Assembly with 48" leads  | 1    | PES-LP495       |
| 16   | TPSI Face Plate                                     | 1    | 78188           |
| 17   | LP Regulator with 32" Hose                          | 1    | FG-32LPHRK      |
| 18   | #10-24 Stainless Nut (not shown)                    | 4    | ST3-113-1020    |
| 19   | #10 Stainless Flat Washer (not shown)               | 4    | WASHER10SS      |
| 20   | #10-24 x 1.25" Stainless Phillips Screw (not shown) | 4    | SCREW1024PANSS  |
| 21   | Copreci Valve Knob Label Sticker (not shown)        | 1    | VALVEKNOBLABEL  |
| 22   | 48" long ¼" OD Corrugated Pilot Tube (not shown)    |      | 90-9898-48      |
| 23   | Manual Spark Ignitor Module (not shown)             | 1    | 3042-RB         |
| 24   | 23" Piezo Extension wire - See page 16 (not shown)  | 1    | PIEZO23WH       |
| 25   | 48" Piezo Extension wire - See page 16 (not shown)  | 1    | PIEZO48WH       |
| 26   | Ground tab for Piezo ignition (not shown)           | 1    | GROUNDTAB       |
| 27   | 5½" x 3" TPSI cover plate (not shown)               | 1    | 78116           |



## FIRE PIT MAINTENANCE

1. The fire pit should be inspected and cleaned before initial use at least annually by a qualified field service person.
2. Any component that is found faulty must be replaced with an approved component.
3. Any tampering or modifying with the fire pit is dangerous and voids all warranties.
4. During winter months in cold climates and various seasons operation the fire pit may be affected by weather conditions. It is recommended to use a ventilated cover overtop of your fire pit to protect it from humid/rainy weather conditions when not in use. Heavy rains/downpours could affect the fire pit operation if not covered; if this occurs ensure you allow the fire pit time to dry out before attempting to operate. **NOTE:** If a combustible type cover is used over the fire pit when not in use be sure to remove it before operation to prevent a severe safety hazard.
5. Over time stainless steel parts can discolor when heated, usually a golden or brown hue. This discoloration is normal and does not affect the performance of the appliance.

## TROUBLE SHOOTING

| <u>Symptom</u>       | <u>Remedy</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Pit Won't Light | <ol style="list-style-type: none"><li>1. Bleed gas line.</li><li>2. Ensure all gas supply lines are turned ON.</li><li>3. Ensure there is not too much media over top of burner; it can inhibit gas from flowing.</li></ol>                                                                                                                                                                                                                                                                                                                                                                |
| Low Flame            | <ol style="list-style-type: none"><li>1. Ensure the base media is at least 1-inch in diameter and top media is no more than 1-inch over top of burner.</li><li>2. Ensure all shut-off valves and valve is fully open.</li><li>3. Check for spider webs inside burner orifice.</li></ol>                                                                                                                                                                                                                                                                                                    |
| Water in my Fire Pit | <ol style="list-style-type: none"><li>1. Excess dust/sand material from media may be blocking the weep holes to relieve water.</li><li>2. Remove all media and unplug weep holes. Clean or install new media free of dust and dirt.</li><li>3. Ensure fire pit enclosure has proper drainage for water and proper ventilation to dry out.</li><li>4. Recommend to purchase a cover/lid to keep excessive water out of the fire pit.</li></ol>                                                                                                                                              |
| Whistling Noises     | <ol style="list-style-type: none"><li>1. Check media to ensure it is not too tightly packed around the burner tube.</li><li>2. Ensure a non-whistling flex connector is being used.</li></ol><br><ol style="list-style-type: none"><li>1. Windy days can potentially blow pilot flame out. Gusts of 25-30mph or higher can cause pilot intermittent outage.</li><li>2. Too much media around the pilot can cause thermocouple to overheat.</li><li>3. Operating the fire pit after heavy rains can potentially cause pilot outage. Let the fire pit completely dry before using.</li></ol> |



## ACCESSORIES

The following accessories are available from your local Firegear Outdoors dealer/distributor. Each accessory comes with a separate installation manual. Read each instruction thoroughly before installing.

|                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><i><b>E-STOP</b></i></p> <p>Gas shut-off valve with mechanical timer and emergency shut-off.</p> <p><b>Models:</b><br/>ESTOP1-0H                      1-hour timer</p> | <p><i><b>Paver Vents</b></i></p> <p><b>Model:</b> PAVER-VENT-4-LNTS<br/>2 - paver brackets, parts and 2 - 4" vents. Provides 18 sq. in. of ventilation</p> <p><b>Model:</b> PAVER-VENT-6-LNTS<br/>2 - paver brackets, parts and 2 - 6" vents. Provides 18 sq. in. of ventilation</p> <p><b>Model:</b> PAVER-VENT-6X12SS<br/>2 - 6"x12" vents and screws.<br/>Provides 18 sq. in. of ventilation</p> | <p><i><b>Flexframe</b></i></p> <p>Universal brackets to support a fire pit disc when using paver or other non-combustible enclosures.</p> <p><b>Models:</b> FLEXFRAME-SS (2-piece)<br/><b>Models:</b> FLEXFRAME-SS3 (3-piece)</p> |
| <p><i><b>Paver Kit</b></i></p> <p>Description: For installation into a paver block assembly.</p> <p>Model: PAVER-CP-TPSI</p>                                              |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                   |

See Firegear catalog for other accessories.

### FOR TECHNICAL SERVICE, CALL:

Firegear Outdoors, an Earthcore Industries Brand  
1600 Riverfork Drive  
Huntington, IN 46750  
260-388-5653  
techsupport@firegearoutdoors.com

*Manual changes often occur, ensure to check the Firegear website for any recent updates and warranty information.*



Firegear Outdoors hereby warrants to the end user that products will be free from material and workmanship defects that prevent safe and correct operation of the product. The warranty commences from date of sale to the end user for the following period:

**ALL WARRANTIES WITHIN THIS DOCUMENT ONLY APPLY TO PRODUCTS MANUFACTURED AFTER | 01 / 01 / 2026**

| <b>BURNER SYSTEMS   BURNERS   COMPONENTS   ACCESSORIES</b><br><small>TYPE OF PRODUCT</small> | <b>CONSUMER<br/>APPLICATIONS</b> | <b>COMMERCIAL<br/>APPLICATIONS</b> |
|----------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| Construction and Manufacturer Defects                                                        | Lifetime Warranty                | 2 Year Warranty                    |
| Stainless Steel Burners and Pans                                                             | Lifetime Warranty                | 2 Year Warranty                    |
| Pro Series Burners                                                                           | Lifetime Warranty                | 2 Year Warranty                    |
| Gas Valve, Spark Igniter, and Pilot Assemblies                                               | 5 Year Warranty                  | 2 Year Warranty                    |
| AWS Electronic Ignition Systems (12 VAC, 24 VAC, 30 VAC)                                     | 3 Year Warranty                  | 1 Year Warranty                    |
| TPSI Electronic Components                                                                   | 5 Year Warranty                  | 2 Year Warranty                    |
| MT Components (Key Valve)                                                                    | 5 Year Warranty                  | 2 Year Warranty                    |
| Refractory Gas Log Sets                                                                      | 5 Year Warranty                  | 2 Year Warranty                    |
| Skytech Manufactured Optional Controls                                                       | 2 Year Warranty                  | 1 Year Warranty                    |

| <b>OUTDOOR FIREPLACE   KALEA BAY</b><br><small>TYPE OF PRODUCT</small> | <b>CONSUMER<br/>APPLICATIONS</b> | <b>COMMERCIAL<br/>APPLICATIONS</b> |
|------------------------------------------------------------------------|----------------------------------|------------------------------------|
| Construction and Manufacturer Defects                                  | Lifetime Warranty                | Lifetime Warranty                  |
| Stainless Steel Components                                             | Lifetime Warranty                | Lifetime Warranty                  |
| Gas Valve, pilot Assembly, Power Supply, and Controls                  | 5 Year Warranty                  | 2 Year Warranty                    |
| Skytech Manufactured Optional Controls                                 | 5 Year Warranty                  | 2 Year Warranty                    |

| <b>SANCTUARY SERIES - GFRC FIRE FEATURES</b><br><small>TYPE OF PRODUCT</small>                                                                                                                                                                                                                                   | <b>CONSUMER<br/>APPLICATIONS</b> | <b>COMMERCIAL<br/>APPLICATIONS</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| GFRC Structure<br><small>* The warranty covers manufacturing defects or structural failure. Small stress cracks and surface crazing are a natural occurrence in GFRC products and are not covered within this warranty. Discoloration over time is a natural process and is not covered by this warranty</small> | <b>* 3 Year Warranty</b>         | <b>* 3 Year Warranty</b>           |
| Burner System<br><small>** Please refer to your burner system warranty for more information about your warranty.</small>                                                                                                                                                                                         | <b>** Refer to Burner System</b> | <b>** Refer to Burner System</b>   |

| <b>ACCESSORIES</b><br><small>TYPE OF PRODUCT</small>      | <b>CONSUMER<br/>APPLICATIONS</b> | <b>COMMERCIAL<br/>APPLICATIONS</b> |
|-----------------------------------------------------------|----------------------------------|------------------------------------|
| Construction and Manufacturer Defects                     | Lifetime Warranty                | Lifetime Warranty                  |
| Stainless Steel Components (Lids, Stainless Steel Covers) | Lifetime Warranty                | Lifetime Warranty                  |
| ESTOP1-0H, Windshields, Hoses & Regulators                | 1 Year Warranty                  | 1 Year Warranty                    |

**For additional details, please refer to the products installation manual**

The end-user must provide a bill of sale, canceled check, or payment record to verify the purchase date and to establish the warranty period. This Limited Warranty shall be valid and limited to the original purchaser only.

**WARNING:** Any modification to the product will void the warranty.

This Limited Warranty shall be limited to the repair and/or replacement of parts that have been proven to be defective under normal use and service. All warranty claims must be made by the Distributor/Dealer account on behalf of the end-user. You may contact Technical Support at 800-966-8126.

Our Technical Service Department must confirm all approved defects. If a defect is confirmed and we approve the claim, we will replace such parts without charge. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

The manufacturer may request defective products returned with an RMA (Return Merchandise Authorization) issued by Firegear Outdoors for specific products, which is considered to be the nature of the defect and or warranty claim. Product to be returned should; be packed so as not to incur damages during transportation. Firegear Outdoors is not responsible for damages on returned items. RMA is valid for thirty (30) days from the date issued. The RMA must be clearly marked on the outside of the package.

Please check with your local building code department or governing agency for proper approvals before purchasing. Firegear Outdoors is not responsible for any violation of local codes.

Travel, diagnostic cost, service labor to repair the defect on warranty parts to and from the factory will be the responsibility of the owner. We will not be responsible for labor charges and/or damage incurred in installation, repair, and replacement. Firegear Outdoors is not responsible for Issues related to gas or electrical installation.

The Limited Warranty is voided if not assembled, installed, and operated as intended. This Limited Warranty does not cover any defects due to accident, abuse, misuse, alteration, misapplication, vandalism, improper installation or improper maintenance or service, removal from the original location, or re-installation into another location, or failure to perform normal and routine maintenance.

Damage due to severe weather conditions such as hail, hurricanes, earthquakes, tornadoes, discoloration due to overheating, exposure to chemicals (including chlorine and salt), either directly or in the atmosphere, or very high humidity, is not covered by this Limited Warranty. Coastal, humid and/or salt environments are subject to manufacturer review. All out-of-box claims must be made within 30 days of purchase and must be made prior to installation. Any product installed damaged will be considered damaged during installation and not covered under warranty.

There are no other express warranties except as set forth herein. For consumer applications, any applicable implied warranties of merchantability and fitness are limited in duration to the period of coverage of this Limited Warranty. Some states do not allow limitation on how long an implied warranty lasts, so this limitation may not apply to you.

For Commercial Applications, the liability of Firegear Outdoors is limited to the express terms of this warranty. We expressly disclaim any and all implied warranties, including any warranties of fitness for a particular purpose or merchantability.

We are not liable for any special, indirect or consequential damages. Our maximum liability is limited to the purchase price of the purchased units. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you.

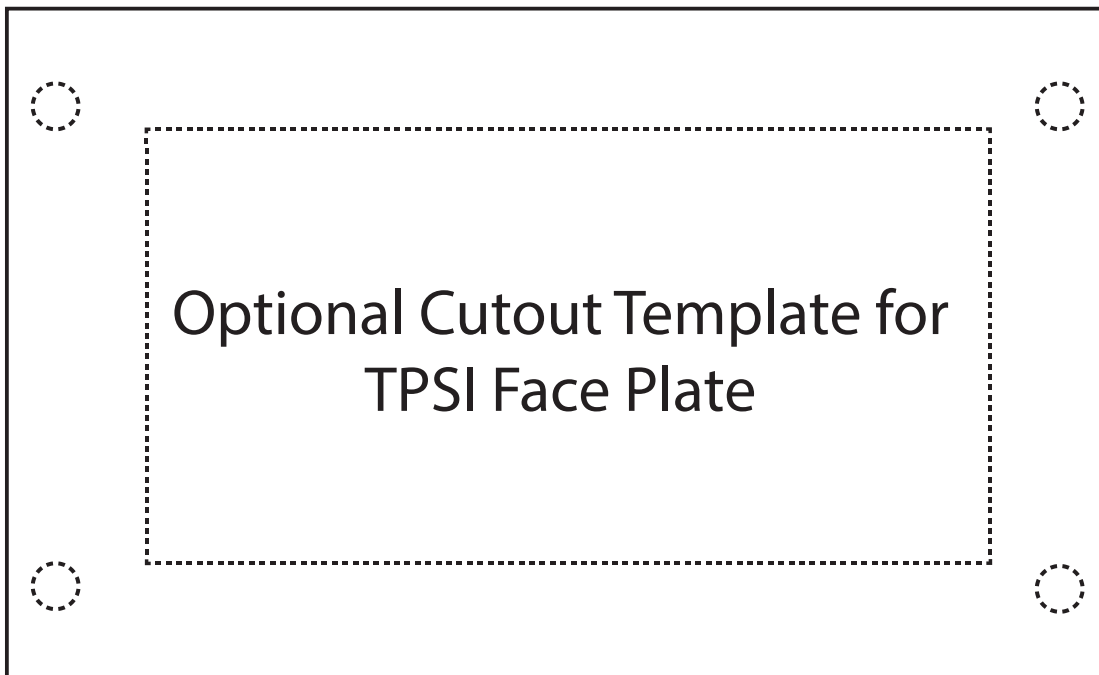
We do not authorize any person or company to assume for it any other obligation or liability in connection with the sale, installation, use, removal, return, or replacement of its equipment, and or such representation are binding.



Firegear Outdoors  
1600 Riverfork Dr. East  
Huntington, IN 46750

[www.firegearoutdoors.com](http://www.firegearoutdoors.com)

[illegible]



This fire pit instruction provides an option to mount the TPSI face plate to concrete board. Use the template above to complete the installation.

The TPSI face plate can be mounted vertically or horizontally. Our suggestion is to attach the face plate in a horizontal position with the gas valve on the left side. This allows the control knob text to be orientated in a position to be easily read.

Using scissors carefully cutout the template and trace it on your concrete board. The dotted line provides the cutout area to mount face plate. Use a concrete drill bit to drill (4) 3/16" diameter holes. Install the 1¼" black oxide screws through the front of the faceplate with the nuts and washers on the backside. These are all provided in the hardware bag.

**Note:** Mounting plate can also be installed into a paver control panel (PAVER-CP-MT) bracket system.

**CAUTION:** Careful not to over-tighten screws and nuts to ensure the cement board does not crack or break.





Having problems getting the fire pit to operate? Don't leave the job site! We want to help! Call 260-355-5577 for Technical Support between the hours of 8:30AM to 4:30PM  
**BEFORE YOU CALL WE WILL NEED THIS INFORMATION**

1. Model Number: \_\_\_\_\_
2. Serial Number: \_\_\_\_\_
3. How long is the gas line run? Nat Gas \_\_\_\_\_ LP Gas \_\_\_\_\_
4. What size is gas line? \_\_\_\_\_
5. Inlet Gas Pressure: \_\_\_\_\_ WC  
Manifold Gas Pressure: \_\_\_\_\_ WC
6. What type of media are you using? \_\_\_\_\_
7. Review the troubleshooting section in the installation manual.
8. What are the symptoms? Please be prepared to explain.
9. Be prepared to send photos to us when on the phone.
10. Found missing or damaged parts? Let us know ASAP or send photos.

