



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

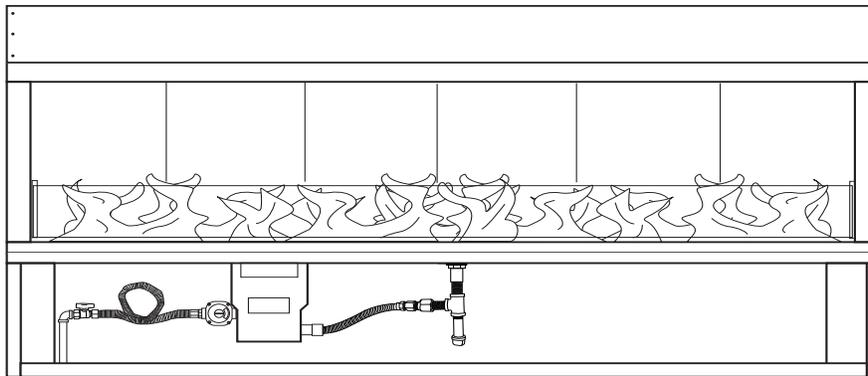
**MODEL:**

**SERIAL #:**

# Kalea Bay Outdoor Gas Fireplace



## Installation and Operating Instructions



### MODELS

Natural Gas	Propane Gas	Description
OFP-36LECO-N	OFP-36LECO-P	36" Open Front Fireplace
OFP-48LECO-N	OFP-48LECO-P	48" Open Front Fireplace
OFP-60LECO-N	OFP-60LECO-P	60" Open Front Fireplace
OFP-72LECO-N	OFP-72LECO-P	72" Open Front Fireplace

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

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

### INSTALLATION PRECAUTION:

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



**Warning: For Outdoor Use Only**  
Installation and service must be performed by a qualified installing service agency, or the gas supplier



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.



**DANGER**

**CARBON MONOXIDE HAZARD**

This appliance can produce carbon monoxide which has no odor.

Using it in an enclosed area 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:

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



**WARNING**

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or other appliance.

An LP cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

**WARNING**

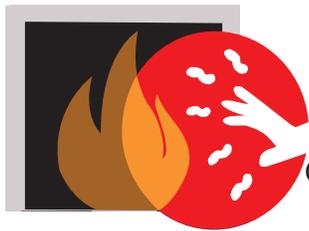
Do not leave unattended during use.  
Do not use for cooking.  
Follow all gas leak procedures in this manual prior to operation.



**WARNING**

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage, personal injury or loss of life

**DANGER**



**HOT GLASS WILL  
CAUSE BURNS**

**DO NOT TOUCH  
GLASS UNTIL COOLED**

**NEVER ALLOW CHILDREN  
TO TOUCH GLASS**

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

**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**.

**FOR YOUR SAFETY**

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or other appliances.

**CALIFORNIA PROPOSITION 65**



**WARNING**

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.

(For more information go to: [www.p65Warnings.ca.gov](http://www.p65Warnings.ca.gov).)



**CERTIFICATION:** These outdoor fireplaces are tested and approved to ANSI Z21.97-2017/CSA 2.41. standards by Underwriters Laboratories using listing MH#60069. It should be installed by a qualified installer in accordance with local and state building codes using National Fuel Gas Code ANSI Z223.1/NFPA54 or current CSA-B149.1 installation codes for Gas Burning Appliances and Equipment in Canada.

**DESCRIPTION:** These Outdoor fireplace models come ready to operate with HI/LO capabilities once installation is complete.

These are radiant fireplaces only and do not have a fan option. **Do not burn real wood or other combustible materials in these fireplaces.** Use only approved media. All models are shipped as Natural Gas only or Propane Gas only. Natural models can be converted to Propane Gas by ordering an optional conversion kit. See page 30.

**Note:** Propane models cannot be converted to Natural gas.

### Massachusetts Requirements

These appliances are approved for installation in the US state of Massachusetts if the following additional requirements are met:

- Un-vented Room Heaters shall be installed in accordance with 527 CMR 30.
- Installation and repair must be done by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.
- The flexible gas line connector used shall not exceed 36 inches (92 centimeters) in length.
- The individual manual shut-off must be a T-handle type valve.
- Unvented appliances may NOT be installed in bedrooms or bathrooms.
- A working smoke detector must be installed in the area where vent-free appliances are installed.
- Seller of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.



All media (i.e. lava rock, lava stones, lava boulders and fire glass) have 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 fireplace. Heavy rains, high humidity and the presence of moisture can contribute to this process.

### **SAFETY**

1. This appliance is manufactured from the factory specifically as Natural gas or Propane (LP). You must specify which gas to be used.
2. Do not place Propane (LP) supply tanks inside any unapproved structures. Locate propane tanks outdoors if unsure.
3. This fireplace is to be used only outdoors in a well ventilated space and shall not be used in a building, garage, or any other enclosed area.
4. Do not use this fireplace as a wood burning fireplace. Use only high temperature media approved for use with this fireplace.
5. Do not use this fireplace to cook or burn paper or other objects.
6. Do not use if exposed to or under water. Immediately call a qualified service technician to inspect the fireplace and replace any part of the control system and any gas control which has been under water.
7. Turn fireplace OFF and let cool before servicing. Only a qualified service person should perform service.

### **ALWAYS USE CAUTION WHEN USING THE FIREPLACE**

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

### **LOCAL CODES**

Install and use fireplace with care. Follow all local codes. In the absence of local codes, use the latest edition of the National Fuel Gas Code ANSI Z223.1/ NFPA54.





Fuels used in gas fired appliances, and the products of combustion such as fuels, contain chemicals known to cause cancer, birth defects and/or other reproductive harm. This warning is issued pursuant to the California Health & Safety Code Sec. 25249.1

**IT IS IMPORTANT TO READ THROUGH THE ENTIRE INSTALLATION MANUAL  
BEFORE BEGINNING INSTALLATION OF THIS FIREPLACE!!**

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This fireplace ships from the factory as a single-sided fireplace.  
An optional kit must be purchased to convert it into a see-through fireplace.  
If you choose to install it as a see-through, ensure you use pages 14 & 15 for proper specifications. Carefully read through this manual to understand.



## INSTALLATION PRECAUTIONS

1. **These fireplaces are designed for outdoor use only. Not approved for any indoor use.**
2. Determine which fireplace you are preparing to install, single-sided or see-through. (Refer to page 11 or 14).
3. **This fireplace is not a “load bearing” fireplace. All finishing materials must be supported by the surrounding structure and not rely on the fireplace itself.**
4. Fireplaces create high temperatures, it is very important to have any combustibles at a safe distance. See pages 11 for a single sided installation or page 14 for see-through installation.
5. Fireplace should never be left unattended while in operation. It should always be a safe distance from all trees and combustible landscape materials.
6. The fireplace must be installed on a flat, level, stable, non-combustible surface. **Exception:** It is permissible to place one layer of ½” cement board underneath the entire fireplace, then it may sit on a flat, level, stable, combustible surface. Drainage is critical to ensure that water does not damage gas valve and components. **Never install the fireplace below grade.**
7. **CAUTION:** A minimum of 18 square inches of cross ventilation (per side) is required to keep the inside of the enclosure dry. Install the supplied VENT-KIT-6x12SS approximately 3 to 4 inches from the floor centered on each end of the fireplace (See Fig. 3, page 6).
8. Only non-combustible materials (i.e. metal studs and cement board) should come in direct contact with any part of the fireplace. Underneath area should be non-combustible or a flat level combustible surface according to the clearances specified in this manual. Bend out nailing flanges on ends of fireplace and secure to metal studs.
9. **Hearth Extension:** A hearth extension is not required with this fireplace. Any hearth extension used is for appearance only and does not have to conform to a standard hearth extension installation requirements.
10. This fireplace is designed to have glass media covering the burner trough, so the burner tube is not visible. Media is **NOT** provided and must be purchased separately. When installing media use minimum of ½” to ¾” diameter Firegear Outdoors glass to fill the burner trough. After the burner trough is covered you are permitted to fill the remaining area in the burner pan. **DO NOT COVER THE IGNITION HOOD WITH ANY ROCK OR MEDIA.** See Figs. 24 & 25 on page 22 for details.
11. Do not use media that will absorb moisture over time and will not release this moisture quickly. Moisture can boil in this media and can rapidly break apart and cause property damage or personal injury.
12. Never leave any other combustible material on top of the fireplace. This could cause unsafe operation of this system and damage to the component that will not be covered under our warranty.
13. It is recommended to wear gloves when moving the fireplace into position and watch for sharp edges when handling the fireplace.
14. 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 fireplaces .
15. Follow the local code requirements for the gas type being used. This fireplace 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.
16. This appliance must be electrically grounded in accordance with the local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70; or the Canadian Electrical Code, CSA C22.1, if applicable.
17. Gas lines and fittings must be installed into the non-combustible structure. All gas connections must be leak tested before installation of the fireplace. Leak detection is required before regular use of the fireplace.



## INSTALLATION PRECAUTIONS

**CAUTION:** BEFORE BEGINNING INSTALLATION CAREFULLY REMOVE THE GLASS WINDSHIELD, PARTS BOX AND ANY PACKING MATERIALS FROM FIREPLACE AND SET ASIDE FOR LATER USE.

**FRAMING:** After framing is complete, place the fireplace into position and secure it with the side nailing flanges. Next install cement board, securing it to the metal studs and fireplace. The framing provides for a flush fit up to the opening of the fireplace. **DO NOT PROTRUDE INTO THE FIREPLACE OPENING WITH CEMENT BOARD.**

**GAS LINE:** The gas line must have a predetermined location to enable it to be installed. Fig. 1 shows one example of an inlet gas line with a gas shut off at the fireplace. This allows a technician to shut the inlet gas supply OFF and remove the burner for servicing. Ensure you follow the local and state gas codes per your installation.

**RECOMMENDATION:** Once the gas line is established it is recommended to remove the burner pan from the firebox until the fireplace is in the final stages and ready for the burner installation. Burner pan requires the removal of (4) screws at each corner of burner pan lip in addition to the (3) screws shown in Fig. 2.

**GAS CONVERSION:** The burner pan must be removed from the fireplace to convert it to LP gas. See pages 29-31.

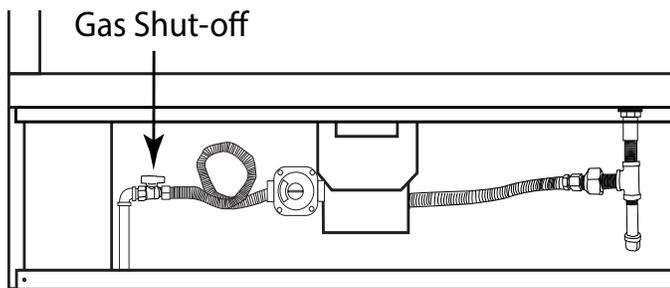


Fig. 1 Close up view of inlet gas connection with shut-off valve.

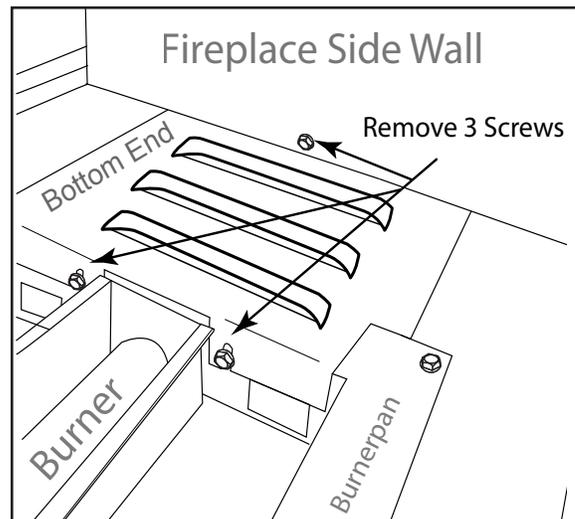


Fig. 2 Removal of burner pan screws.

**IMPORTANT:** It is permissible to reverse the burner pan in the field to enable a closer gas line connection if necessary.

### BURNER PAN REMOVAL

**Step 1:** Lift out the pilot cover on each end of the burner.

**Step 2:** Remove the three (3) screws in the bottom end. Then lift the bottom end up and out from the side of the burner pan area. Fig. 2.

**Step 3:** Remove the four (4) screws (two on each end) out from the burner pan. They are located at the outer edge of the burner pan, on each corner (See Fig. 2).



Never fill the cavity under and around the valve box with any material, this is air space necessary for ventilation.

### VENTILATION FOR NON-COMBUSTIBLE ENCLOSURE

Fireplaces are subjected to many outdoor elements such as rain, snow, wind, heat or cold. **A minimum of 18 square inches of cross ventilation (2 sides) is required to keep the components in good working order.** Use Fig. 3 as a guide.

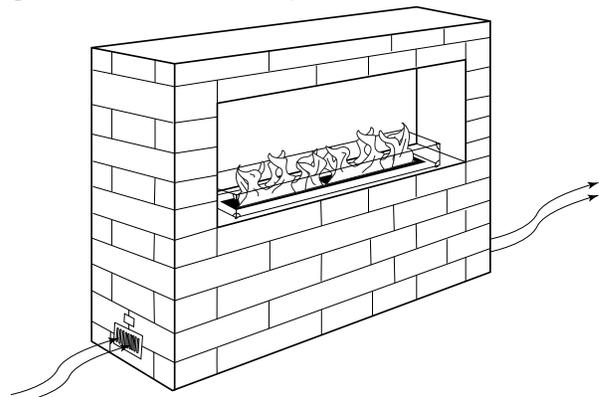


Fig. 3 - Cross ventilation example using the Cross Ventilation Kit, VENT-KIT-6x12, provided.

**Note:** Installation of two 18-square inch vents or one 36-square inch vent is required for ventilation of enclosures. When two vents are used, they may be installed on one wall. Install the bottom of the vent(s) within one foot of the floor level. See local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54 (USA) – latest edition or CAN/CGA-B149.1 Natural gas and propane installation code (Canada) – latest edition. Do not place Propane (LP) supply tanks inside any structure or enclosure. Locate propane tanks outdoors.



## INSTALLATION PRECAUTIONS

The vents (VENT-KIT-6x12SS ) used for cross ventilation should be installed at each end of the fireplace. Vents should be placed 3-4" from the bottom of the fireplace and centered side to side as shown in Fig. 3B.

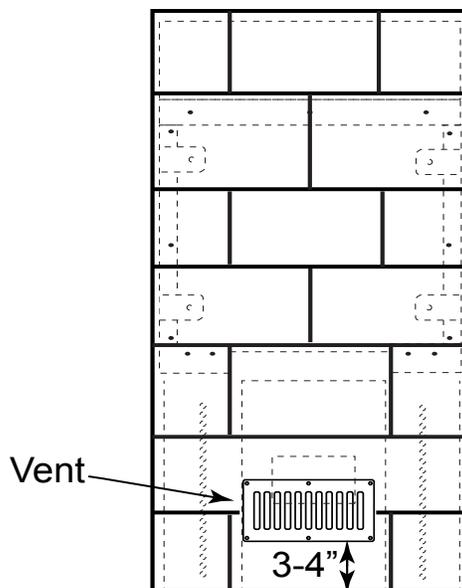


Fig. 3B Vent location.

**WARNING:** Proper clearances from combustible, construction materials must be maintained from all sides, top and bottom of this appliance.

### IMPORTANT

Installation of Natural or Liquid Propane Gas should be done by a qualified installer, service agency or gas supplier. This appliance must be disconnected 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  $\frac{1}{2}$ " psig (3.5kPa)

### HARD PIPING TO FIREPLACE WITHOUT GAS PROXIMITY

**NOTE:** 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 fireplaces rated above 100,000 BTU.

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 using minimum of  $\frac{3}{4}$ " 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 (supplied) will require a  $\frac{1}{2}$ " male flared fitting to enable connection of the stainless steel flex gas line supplied with the fireplace (See Fig. 1 page 6).

### HIGH ELEVATION INSTALLATION

This appliance is listed for elevations from 0 to 4500 feet in Canada and the U.S. If elevation exceeds 4500 feet it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input should be reduced 4% for each 1000 feet beyond the 4500 feet above sea level. Check with your local gas utility for assistance in determining the proper orifice in your location. In some cases the heating value may already be reduced and downsizing the orifice may not be necessary.

PAY CLOSE ATTENTION TO THE FOLLOWING PAGES. THIS FIREPLACE IS SHIPPED AS A SINGLE-SIDED FIREPLACE, HOWEVER YOU HAVE THE OPTION TO CONVERT IT INTO A SEE-THROUGH FIREPLACE WITH AN OPTIONAL KIT. SEE-THROUGH DIMENSIONS AND CLEARANCES ARE LISTED ON PAGE 11 & 14.



## SPECIFICATIONS

**NOTE:** These fireplaces come shipped gas specific as Natural Gas or Propane Gas models. There is an LP conversion kit available as an accessory. Ensure you order the specific conversion kit for your model fireplace. Table 1 shows the applicable information if converting to Liquid Propane (LP) gas. See page 29.

**IMPORTANT:** It is permissible to reverse the burner pan in the field to enable a closer gas line connection if necessary.

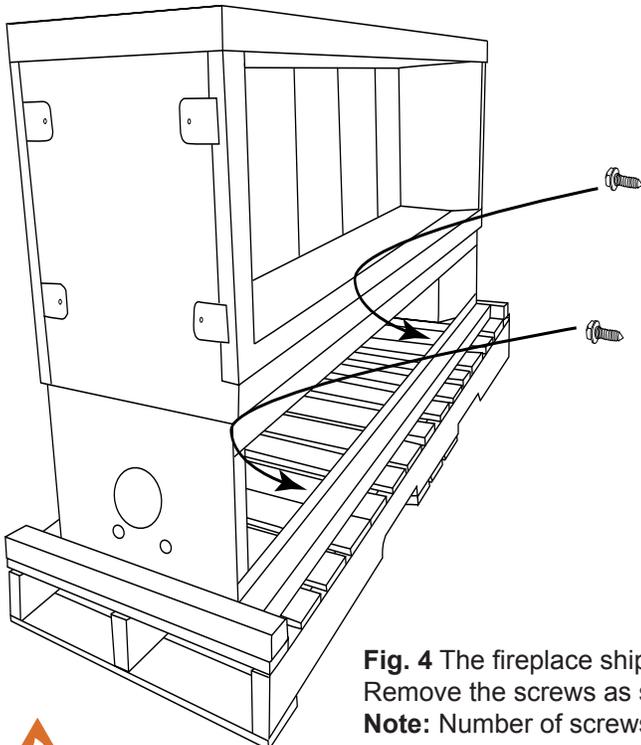
<b>NG Models:</b>	<b>NG Factory Orifice</b>	<b>NG Btu's High</b>	<b>NG Btu's Low</b>	<b>NG Low Rate Screw</b>
OFP-36LECO-N	#41	31,000 (9.08 kW)	18,500 (5.42 kW)	#44
OFP-48LECO-N	#32	43,500 (12.74 kW)	24,500 (5.42 kW)	#34
OFP-60LECO-N	#30	50,000 (14.65 kW)	36,000 (7.18kW)	#27
OFP-72LECO-N	#25	65,000 (19.00 kW)	42,000 (12.30 kW)	#18
<b>LP Models:</b>	<b>LP Factory Orifice</b>	<b>LP Btu's High</b>	<b>LP Btu's Low</b>	<b>LP Low Rate Screw</b>
OFP-36LECO-P	#52	30,000 (8.79kW)	19,500 (5.72kW)	#52
OFP-48LECO-P	#48	42,500 (12.46kW)	29,000 (8.50kW)	#46
OFP-60LECO-P	#44	50,000 (14.65kW)	36,000 (10.55kW)	#42
OFP-72LECO-P	#42	60,000 (17.58kW)	45,000 (13.19kW)	#36

**Table 1** Fireplace specifications and conversion kits.

<b>LP Conversion Kit</b>	<b>LP Factory Orifice</b>	<b>LP Low Rate Screw</b>
OFP-36LECO-LPK	OAS-LP52	ECO-LSS-52
OFP-48LECO-LPK	OAS-LP48	ECO-LSS-46
OFP-60LECO-LPK	OAS-LP44	ECO-LSS-42
OFP-72LECO-LPK	OAS-LP42	ECO-LSS-35

**Table 2** LP conversion kit for Natural Gas models.

**Disclaimer:** Btu listings are based on 7.0"WC for Natural Gas and 11.0WC for Propane Gas at inlet side of gas regulator. Flex line sizing and proper gas pipe sizing can affect Btu's. As a result, your Btu's may vary slightly from Table 1 specifications.



**Fig. 4** The fireplace ships on a wooden skid. Remove the screws as shown and lift fireplace off of skid.  
**Note:** Number of screws vary with model size.

<b>Pressure</b>	<b>NG</b>	<b>LP</b>
Min. Inlet	5.0" WC (1.24kPa)	10.5" WC (2.61 kPa)
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)
Manifold	4.0"WC (.99 kPa)	10.0"WC (2.48 kPa)

**Table 3** Gas Pressures



# GAS PIPE SIZING

## 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



# SINGLE-SIDED FIREPLACE DIMENSIONS, FRAMING AND CLEARANCES SECTION

This fireplace comes with two boxes prepackaged inside and outside the fireplace. Do not discard any boxes unless noted to do so. Read the list below for the contents.

PART NUMBER	DESCRIPTION	QTY.
77140	Parts box (includes all parts in box)	1
VENT-6X12SS	6x12 vent kit (includes 2- stainless vents; 12- washers, 12- nuts; 12- screws & manual)	1
01-487	01-487 connector valve 1/2"	1
77161	10-foot Module Wire Harness	1
77151	Pilot screen (sits behind pilot box)	2
77150	Pilot cover	
77139	FG Control Box Assembly	1
VCS-ECOBBUEXT120	120" extension wire harness for battery pack	1
BATTC	C-size batteries	4
77161	WP 10-foot 8-pin ECOMOD WH	1
DIEGREASE-014	.014oz Dielectric grease & instruction	1
(36") 73230 (48") 74230 (60") 75230 (72") 76230	Windshiled parts box (includes all items listed below)	1
77156 & 77157	Glass Clips (2) sizes - Right	1
77154 & 77155	Glass Clips (2) sizes- Left	1
77129	8-32x 1/2" Phillips pan screw SS	11
(36") 73131 (48") 74131 (60") 75131 (72") 76131	Hood	1
(36") KB-36-73120 (48") KB-36-73120 (60") KB-60-73120 (72") KB-72-73120	Windshield (see part # for specific sizes)	1
73237 74237 75237 76237	Windshield Support - 36" Windshield Support - 48" Windshield Support - 60" Windshield Support - 72"	1

**It is important to understand that when installing this outdoor appliance the installation must follow ANSI standards as described below.**

## **AN OUTDOOR SPACE IS DEFINED AS FOLLOWS PER ANSI Z21.97:**

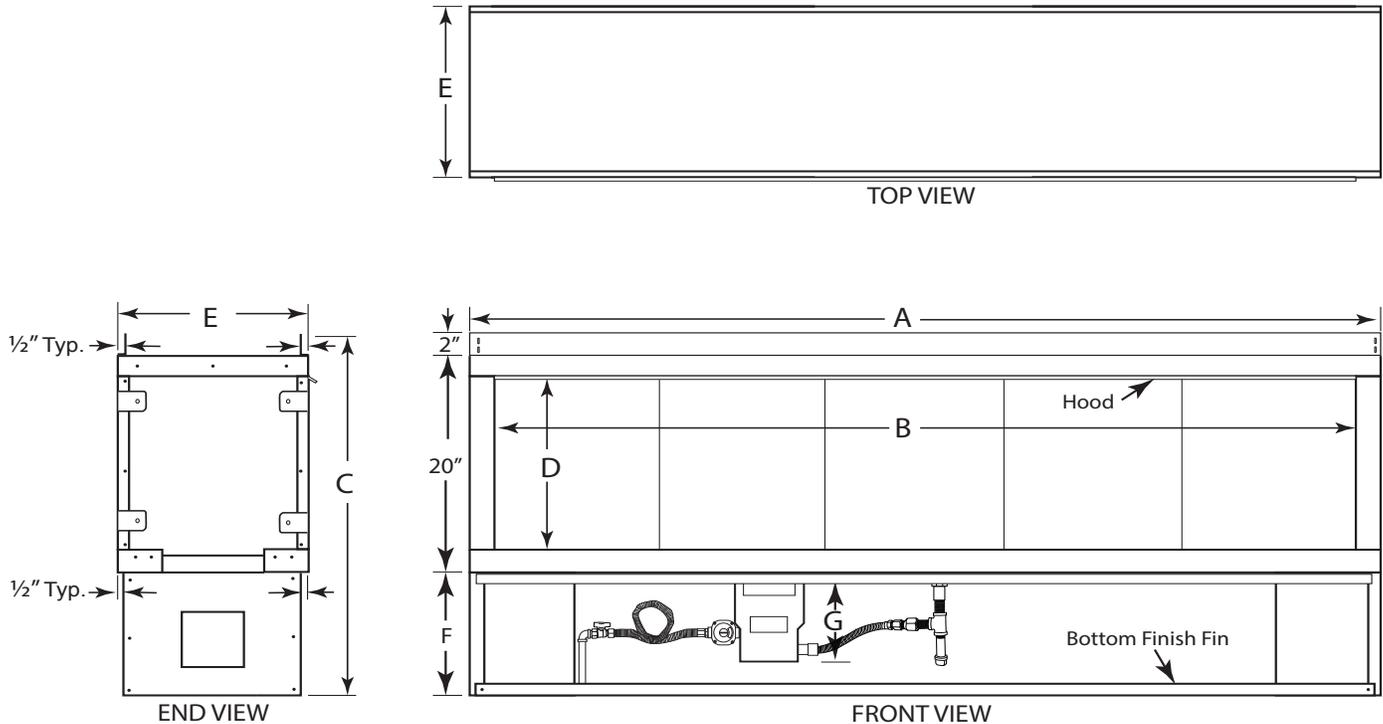
- Outdoor spaces - An appliance is considered to be outdoors if installed with shelter no more inclusive than:
- a) With walls on all sides, but with no over-head cover;
  - b) Within a partial enclosure which includes an overhead cover and no more than two side walls. These side walls may be parallel, as in a breezeway, or at right angles to each other; or
  - c) Within a partial enclosure which includes an overhead cover and three sidewalls, as long as 30% or more of the horizontal periphery of the enclosure is permanently open.



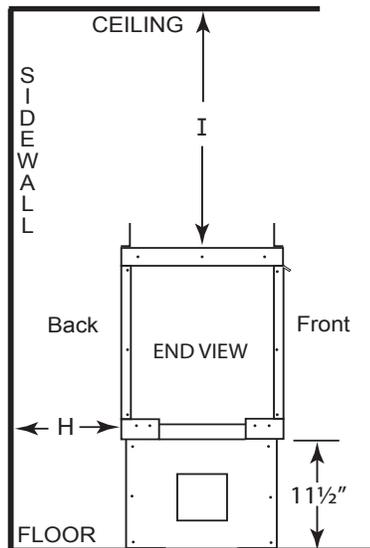
# SINGLE-SIDED FIREPLACE DIMENSIONS & CLEARANCES

Model: N= NG P= LP	A Overall Length	B Inside Opening	C Overall Height	D Opening Height	E Overall Depth	F Leg Height	G Valve Box Depth	H Clearance To Combustible Side Wall	I Clearance To Combustible Ceiling
OFF-36LECO-N/P	40"	36"	33½"	16"	16¼"	11½"	10¼"	6"	46 ½"
OFF-48LECO-N/P	52"	48"	33½"	16"	16¼"	11½"	10¼"	6"	46 ½"
OFF-60LECO-N/P	64"	60"	33½"	16"	16¼"	11½"	10¼"	6"	46 ½"
OFF-72LECO-N/P	76"	72"	33½"	16"	16¼"	11½"	10¼"	6"	46 ½"

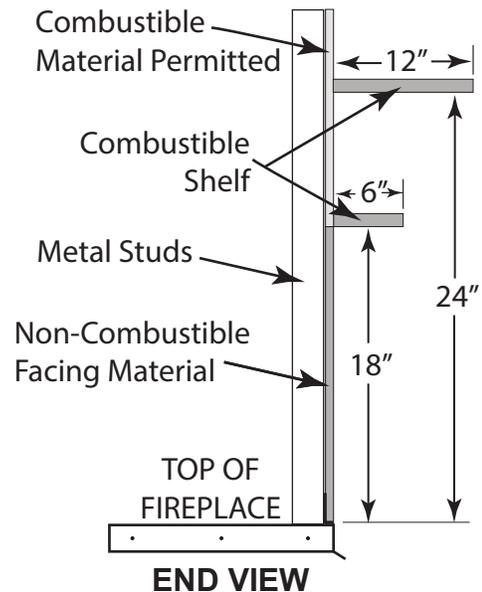
**Table 5** Fireplace dimensions and clearances. Ensure you follow the proper clearances during installation.



**Fig. 5** Fireplace dimensions; refer to Table 3.



**Fig. 6** Single-sided fireplace clearance to combustibles (See Table 3)



**Fig. 7** Open front fireplace mantel clearances



## SINGLE-SIDED FRAMING DIMENSIONS WITH METAL STUDS

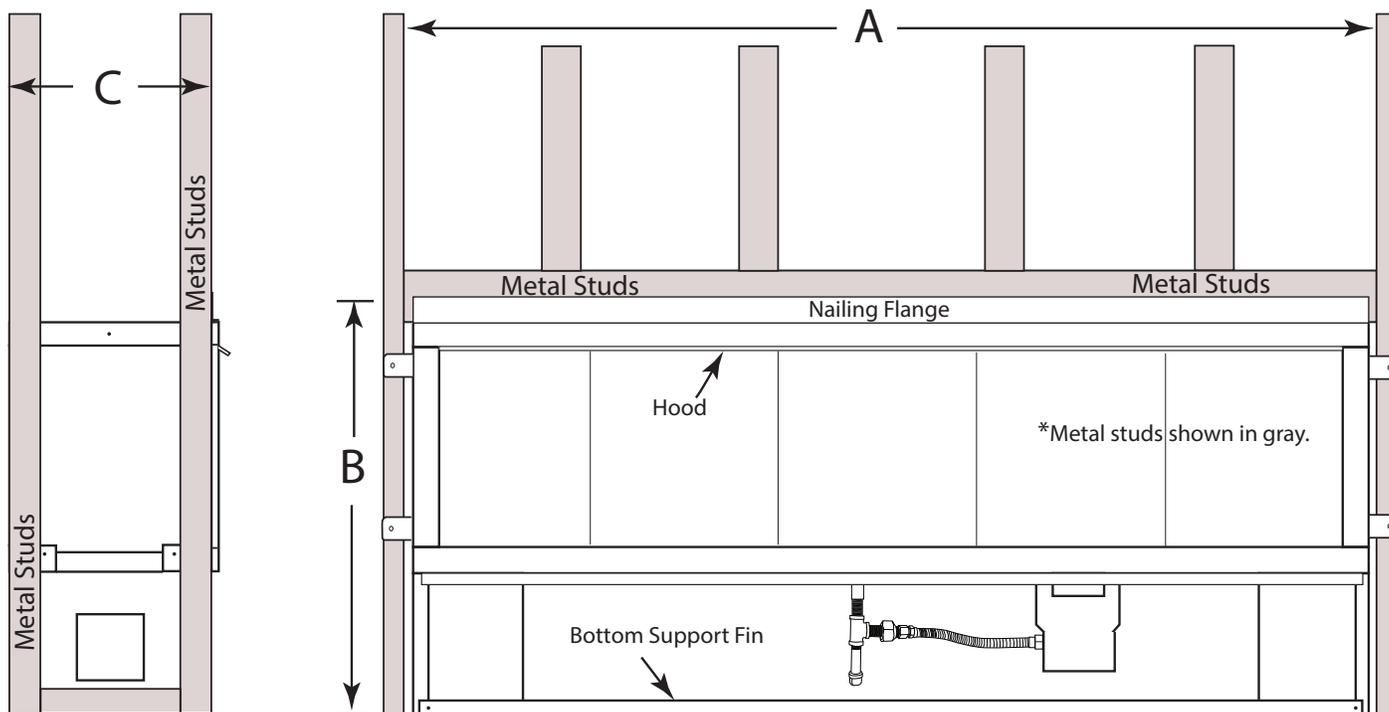
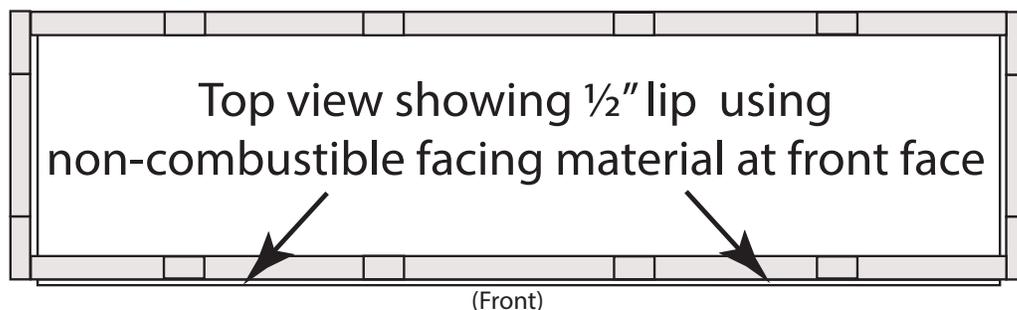
Model: N=NG LP=P	A Width	B Height	C Depth
OFP-36LECO-N/P	40 1/2"	33 3/4"	15 3/4"
OFP-48LECO-N/P	52 1/2"	33 3/4"	15 3/4"
OFP-60LECO-N/P	64 1/2"	33 3/4"	15 3/4"
OFP-72LECO-N/P	76 1/2"	33 3/4"	15 3/4"



**NOTE:** This outdoor fireplace is not a “load bearing” fireplace. All finishing materials must be supported by the surrounding structure and not rely on the fireplace itself.

**Table 6** Fireplace framing dimensions.

**NOTE:** This fireplace requires metal studs for framing. WOOD STUDS ARE NOT PERMITTED.



**Fig. 8** Framing dimensions using all non-combustible materials for single-sided fireplace; refer to Table 4.



# SEE-THROUGH FIREPLACE DIMENSIONS, FRAMING AND CLEARANCES SECTION

**It is important to understand that when installing this outdoor appliance the installation must follow ANSI standards as described below.**

## **AN OUTDOOR SPACE IS DEFINED AS FOLLOWS PER ANSI Z21.97:**

Outdoor spaces - An appliance is considered to be outdoors if installed with shelter no more inclusive than:

- a) With walls on all sides, but with no over-head cover;
- b) Within a partial enclosure which includes an overhead cover and no more than two side walls. These side walls may be parallel, as in a breezeway, or at right angles to each other; or
- c) Within a partial enclosure which includes an overhead cover and three sidewalls, as long as 30% or more of the horizontal periphery of the enclosure is permanently open.

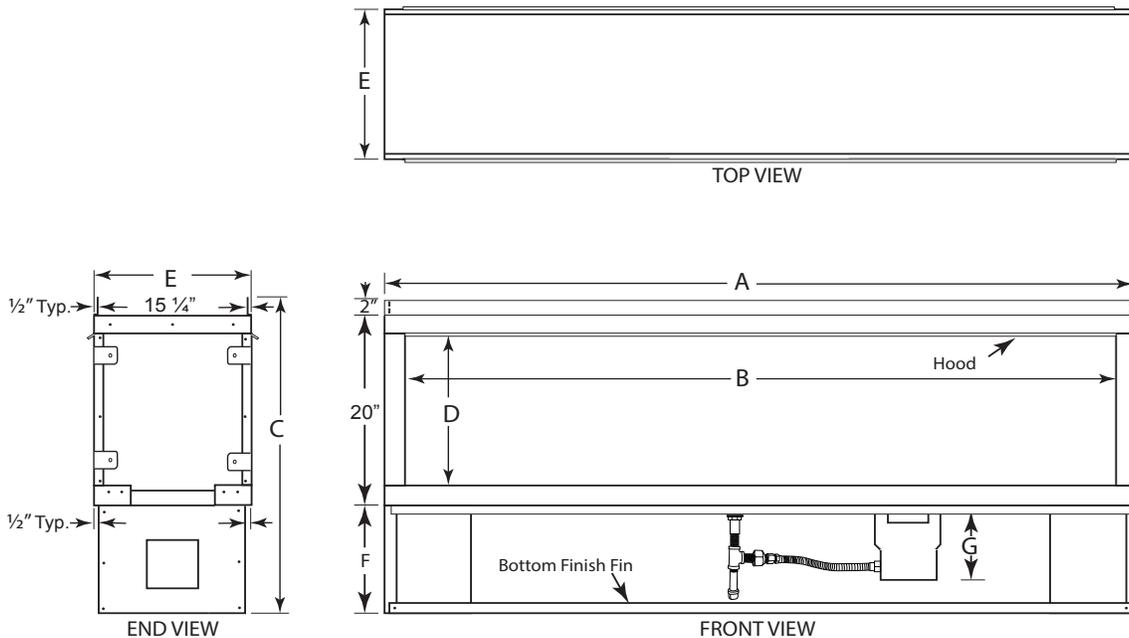


## SEE-THROUGH FIREPLACE DIMENSIONS & CLEARANCES ONLY

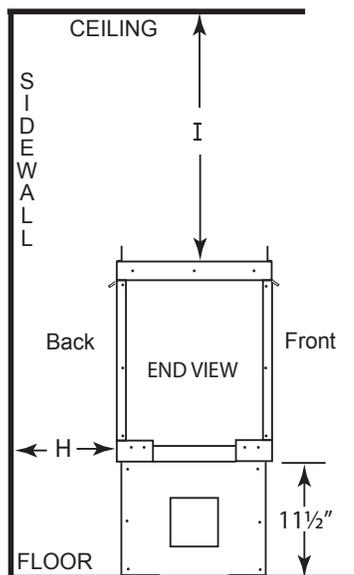
This fireplace ships from the factory as a single sided fireplace, but by removing the back panels you can convert it into a see-through fireplace. Your specific application, single sided verses see-through, will determine your installation. Ensure you follow the proper clearances during installation.

Model: N=NG P=LP	A	B	C	D	E	F	G	H	I
	Overall Length	Inside Opening	Overall Height	Opening Height	Overall Depth	Leg Height	Valve Box Depth	Clearance To Combustible Side Wall	Clearance To Combustible Ceiling
OFP-36LECO-N/P	40"	36"	33½"	16"	16"	11½"	10¼"	36"	48 ½"
OFP-48LECO-N/P	52"	48"	33½"	16"	16"	11½"	10¼"	36"	48 ½"
OFP-60LECO-N/P	64"	60"	33½"	16"	16"	11½"	10¼"	36"	48 ½"
OFP-72LECO-N/P	76"	72"	33½"	16"	16"	11½"	10¼"	36"	48 ½"

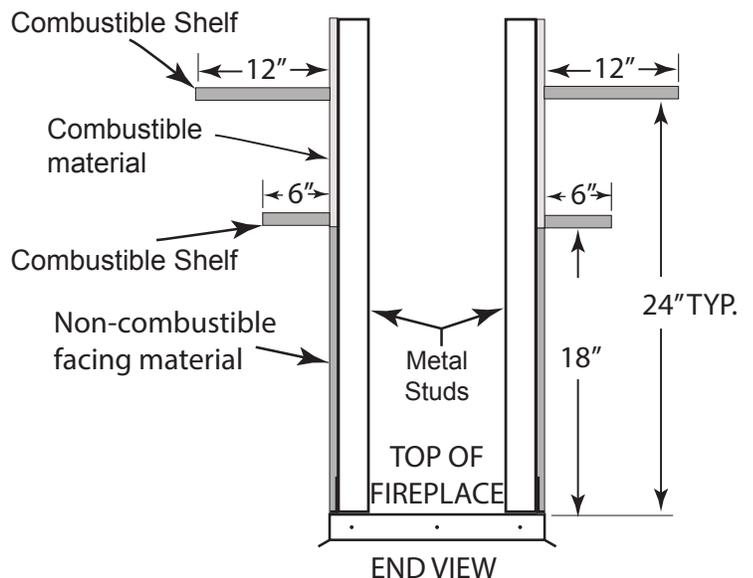
**Table 7** Fireplace dimensions and clearances.



**Fig. 9** Fireplace dimensions; refer to Table 6



**Fig. 10** See-through fireplace clearance to combustibles (See Table 6)



**Fig. 11** See-through fireplace mantel clearances



## SEE-THROUGH FRAMING DIMENSIONS WITH METAL STUDS

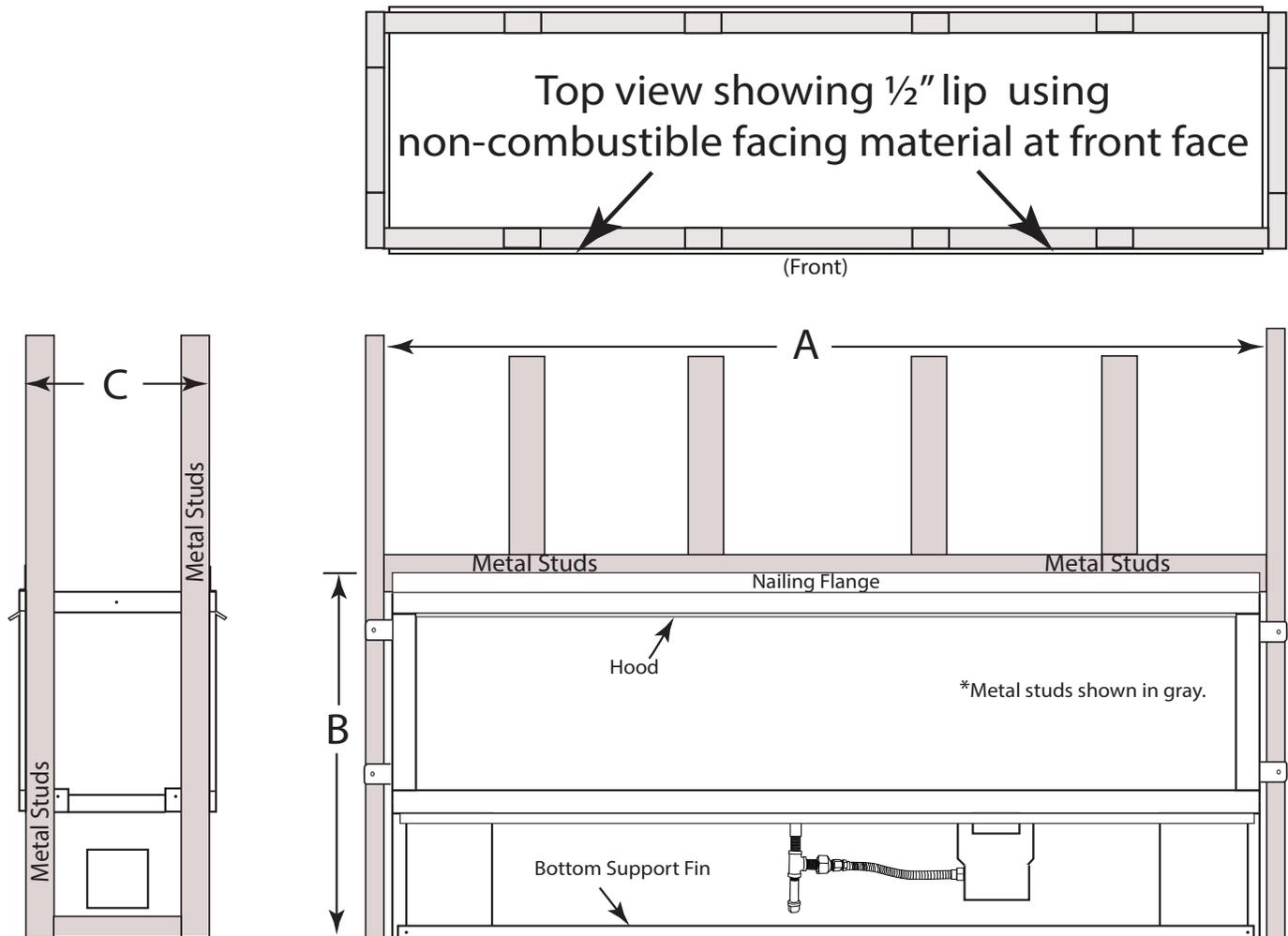
Model: N=NG P=LP	A Width	B Height	C Depth
OFP-36LECO-N	40 1/2"	33 3/4"	15"
OFP-48LECO-N	52 1/2"	33 3/4"	15"
OFP-60LECO-N	64 1/2"	33 3/4"	15"
OFP-72LECO-N	76 1/2"	33 3/4"	15"



**NOTE:** This outdoor fireplace is not a “load bearing” fireplace. All finishing materials must be supported by the surrounding structure and not rely on the fireplace itself.

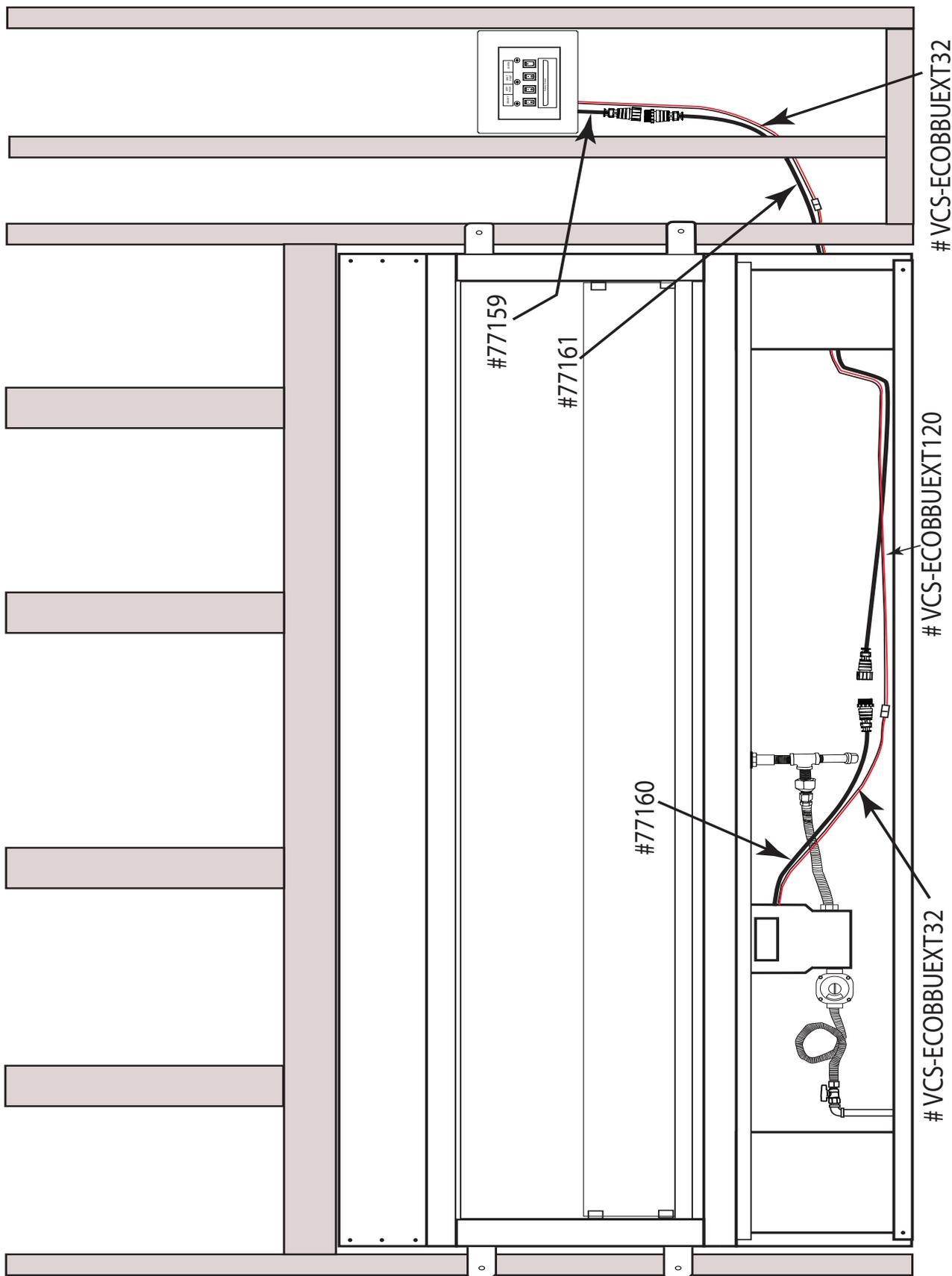
**Table 8** Fireplace framing dimensions.

**NOTE:** This fireplace requires metal studs for framing. **WOOD STUDS ARE NOT PERMITTED.**



**Fig. 12** Framing dimensions using all non-combustible materials for see-through fireplace; refer to Table 7.

# WIRING TO CONTROL BOX



**Fig. 13** Overview of fireplace wiring to control box. **Note:** The fireplace is provided with 10-foot of wire. If you require a longer length, an optional 10-foot wire harness 77161 & VCS-ECOBBUEXT120 are available in replaemet parts section.

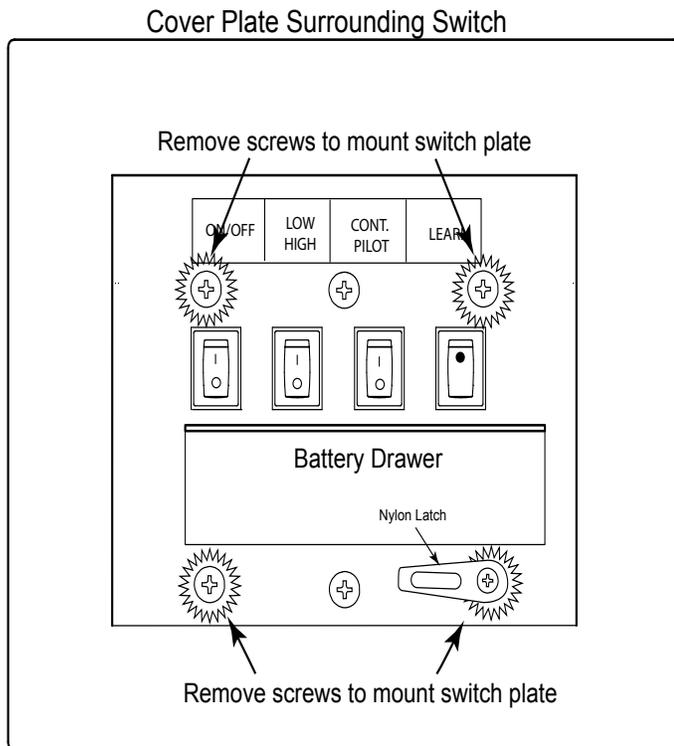


## CONTROL BOX INSTALLATION

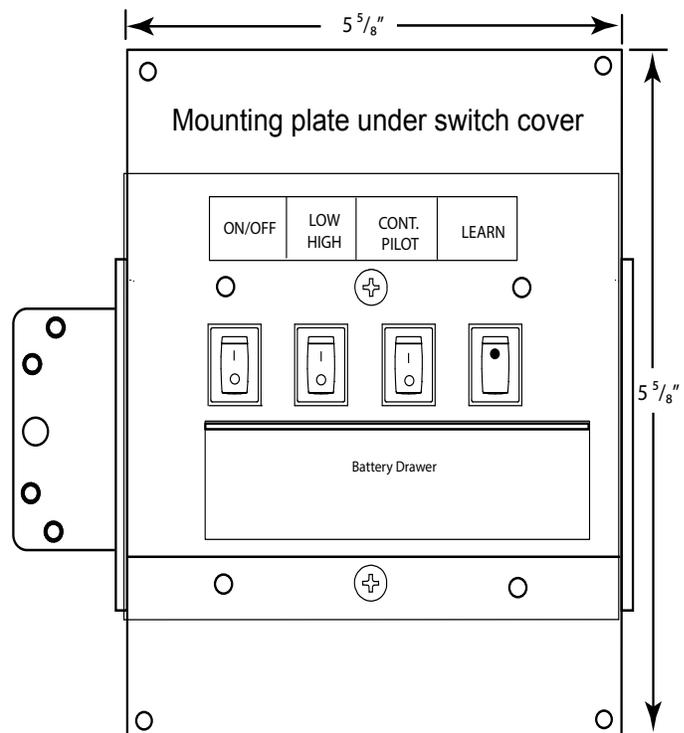
**Step 1:** After the fireplace has been framed into position begin determining the control box location. Locate the module wire harness (#77160) and battery pack harness (#VCS-ECOBUEXT32) protruding outside of the valve box. Refer to page 16 Fig. 13.

**Step 2:** Connect the module wire harness #77160 to #77161 wire harness (10' wire harness from parts box).

**Step 3:** Connect the #VCS-ECOBUEXT32 to the other #VCS-ECOBUEXT120 (10' battery pack wire harness from parts box).



**Fig. 14** Control box with 8  $\frac{3}{4}$ " x 8  $\frac{3}{4}$ " cover/face plate.



**Fig. 15** Control box mounting plate

**Step 4:** Remove the control box from the components parts carton. The fireplace is supplied with 10-feet of wiring for the control box switch installation. Find a suitable location within a close proximity of the fireplace for convenience of operation and mount the control box upright and level as shown in Fig. 13 on page 16. Use Figs 14 & 15 for dimensional reference. **CAUTION:** Ensure all switches are in the OFF position. "I" indicates ignite/ON and "O" indicates OFF. The switch on the far right is a "Learn" switch. It does not turn ON and OFF, it remains in its original position.

**Step 5:** Remove the four (4) outer screws from each corner inside the cover plate shown in Fig. 14 and remove the outer face plate and nylon latch. This will expose the mounting plate. See Fig. 15. **CAUTION:** Do not remove the two center screws from the cover plate. This will release the entire switch box wiring from inside the junction box and make it difficult to reinstall.

**Step 6:** Install the control box mounting plate into framing members/finish material and secure into place. Replace the mounting plate flush with wall materials or allow for depth of wall material to slide under the four corners of the plate. The mounting plate will then be flush with the wall. **Note:** If desired, you can purchase 10-foot wire extensions in the accessories section that will enable you to move the RGB control box up to 50-feet away from the fireplace.



## CONTROL BOX INSTALLATION

**Step 7:** Feed the wire harness (# 77161) up to the control box and attach the Molex connectors from the module wire harness to the control box wire harness. At the same time, connect the 2-PIN connector (#VCS-ECOBBUEXT32) from module wire harness to the 2-PIN connector inside the control box. See Fig. 16. Refer to page 16 Fig. 13.

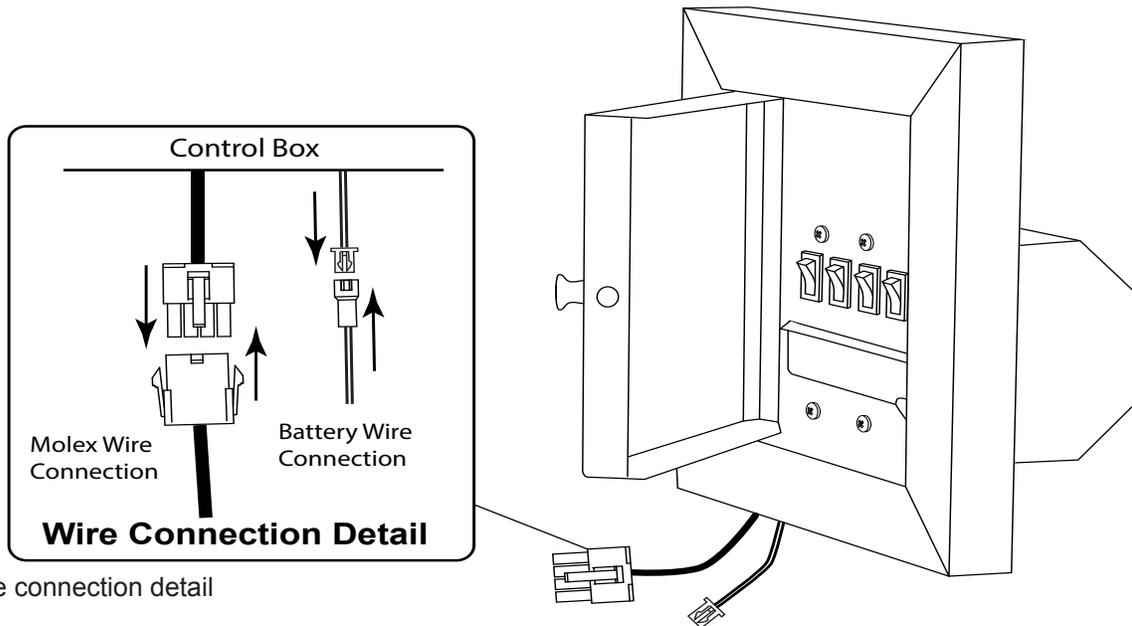


Fig. 16 Wire connection detail

**Step 8:** Reinstall the control box cover/face plate and nylon latch back on the control box mounting plate.

**Step 9:** Turn (rotate) the nylon latch up or down (out of the way) of the battery box drawer (Fig. 14; page 17).

**Step 10:** Pull the battery box drawer out of the control box and install the (4) C-size batteries (included) in the battery pack. Follow the diagram inside for battery direction.

**Step 11:** Look for the 2-PIN connector at the back of the battery pack and the mating 2-PIN connector inside the control box. Insert the male connector into the female connector then carefully install the battery pack drawer back into the control box. Move the nylon latch over edge of the battery box drawer to secure it into place. See Fig. 17. **Note:** Careful not to pinch the wires when installing the battery box drawer back into the control box.

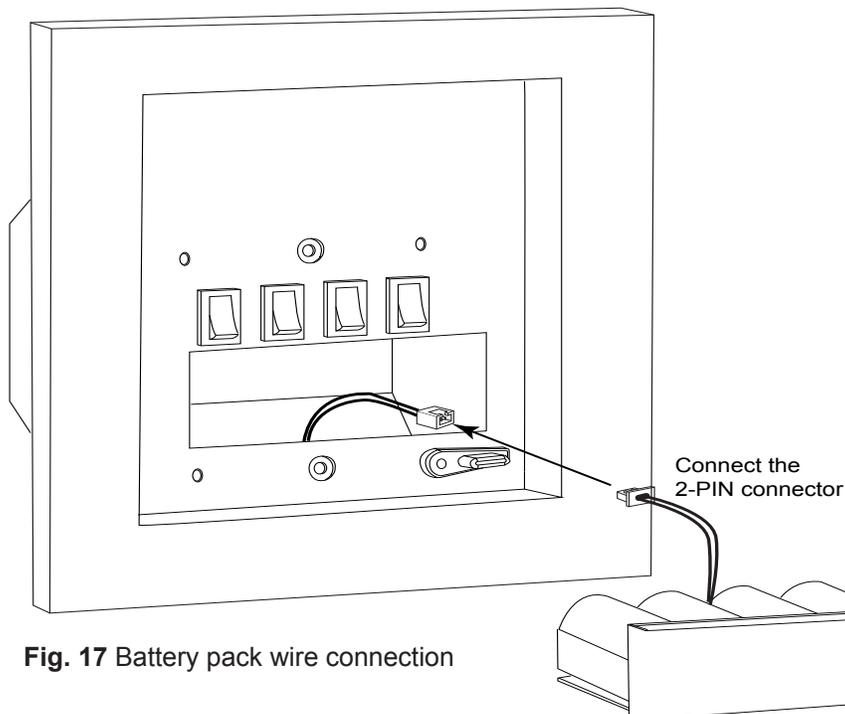
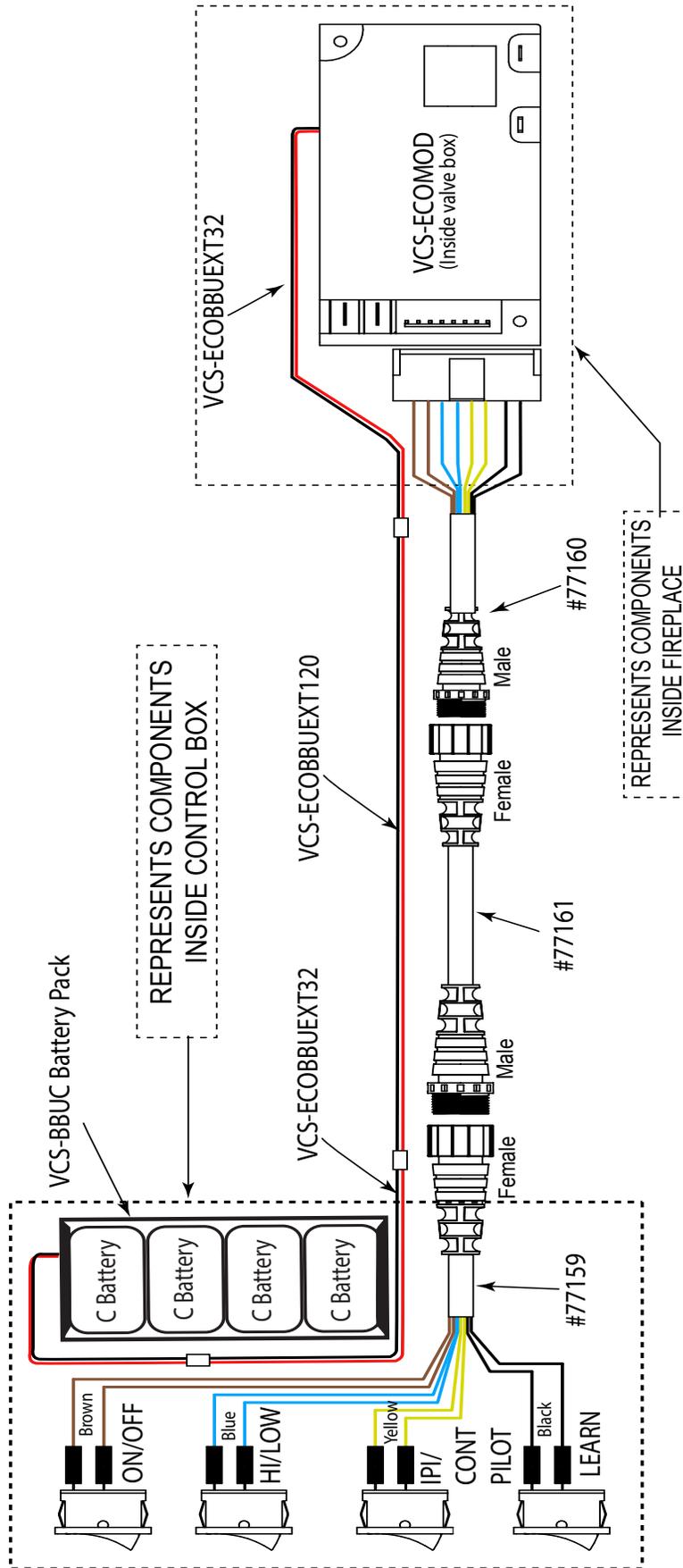


Fig. 17 Battery pack wire connection



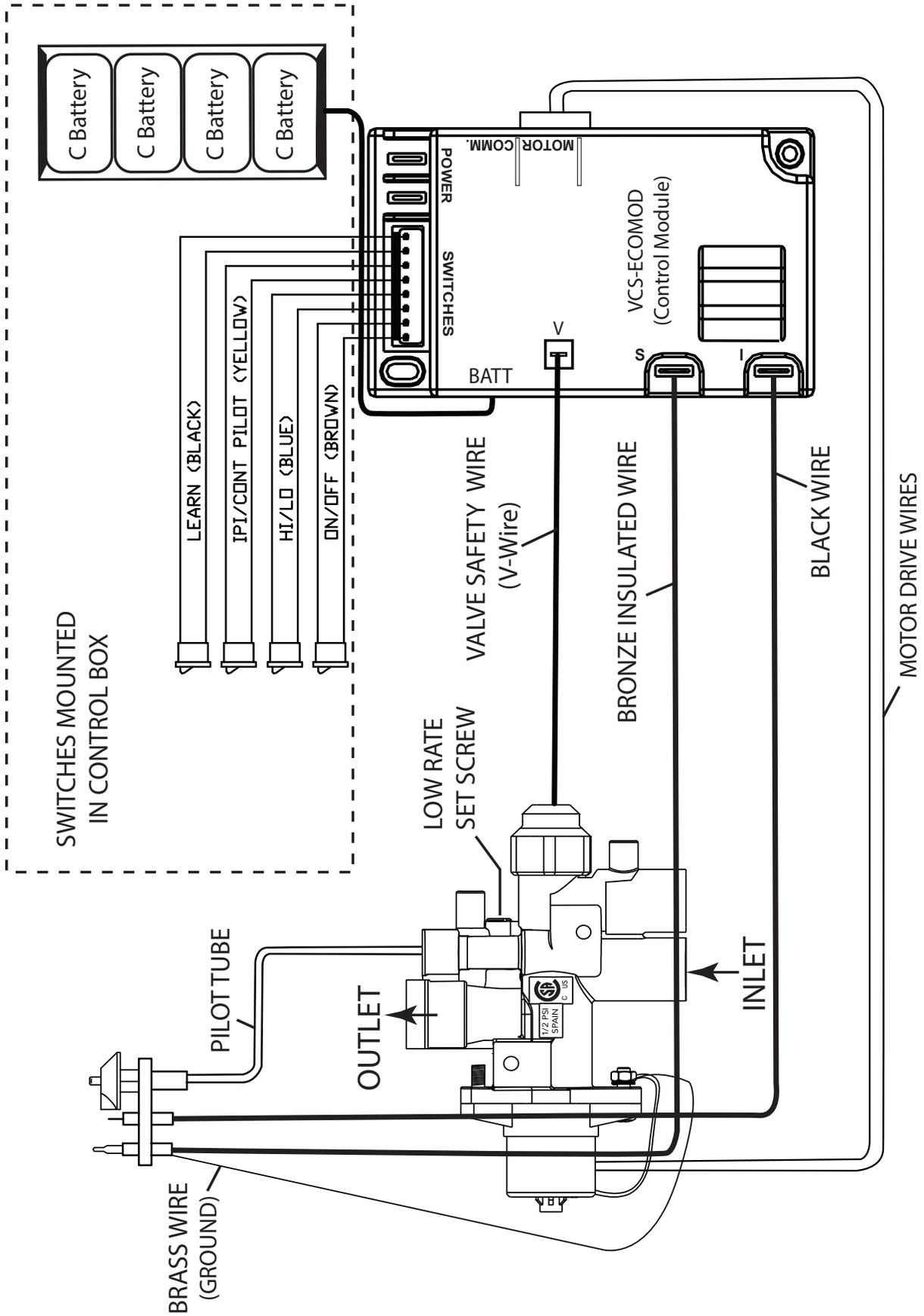
# MODULE & BATTERY PACK WIRING



**Fig. 18** This wiring diagram shows wiring from control panel and battery pack to control module. Each is independent of the other.



# WIRING DIAGRAM INSIDE VALVE BOX



**Fig. 19** This wiring diagram shows the components inside the valve box. The dotted line box shows the components external of the valve box.



## FINAL PREPARATION

After the fireplace is framed into position and the gas line is run in place, ensure the burner pan is installed. It is recommended to burn test the fireplace before the finish work is complete. This will ensure proper operation and enables the installer to check for any gas leaks at the fireplace.

Next, install the glass clips and media.

### **Step 1: Peel the plastic coating from each glass panel clip before installing.**

There will be (4) glass clips. The two longest clips are used for the windshield supports and the shorter glass clips will be installed in front of the longer glass clips. The windshield support clips (two longest clips) are installed first, closest to the burner tray. **Note:** There are two right side and two left side clips supplied.

Install the longer glass clips by sliding them down through the metal bridges as shown in Fig. 20. Install (1) clip on the left and (1) clip on the right side of the inner fireplace side panel. **Note:** If you are preparing a see-through fireplace you will install a total of (8) glass clips, two for each open side. The additional clips are supplied with the see-through conversion kit.

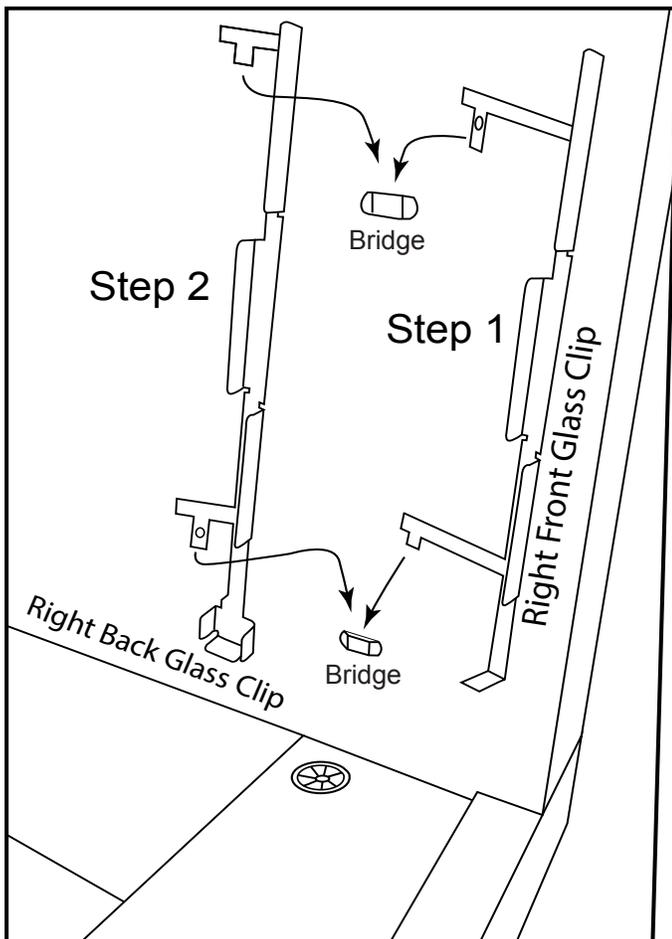


Fig. 20 Installing glass clips.

**Step 2:** After each LED glass clip is installed, use a flat blade screw and carefully bend the bottom tab out and upward to lock it into position. Use a fingertip or pliers to press the tab flat against the metal bridge. See Fig. 21.

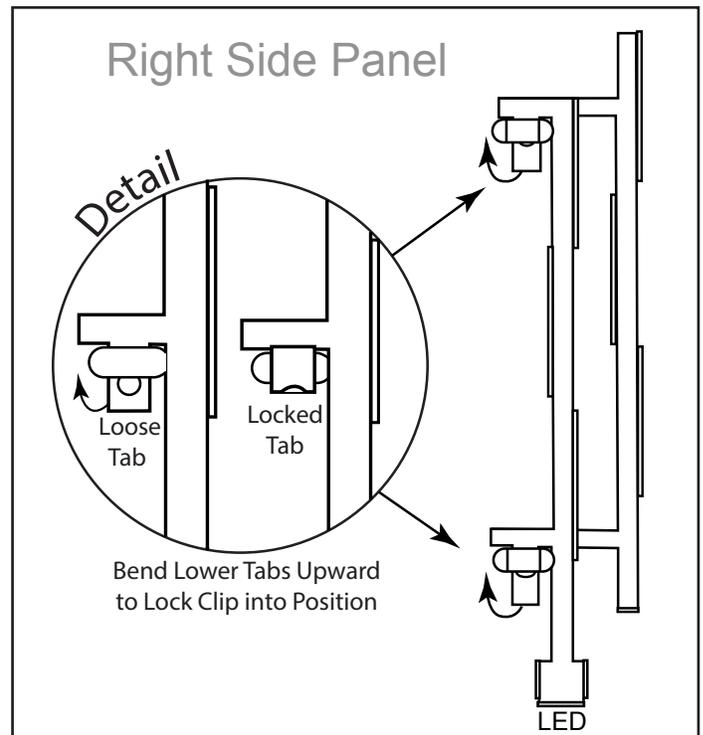


Fig. 21 Detail close up of glass clips.



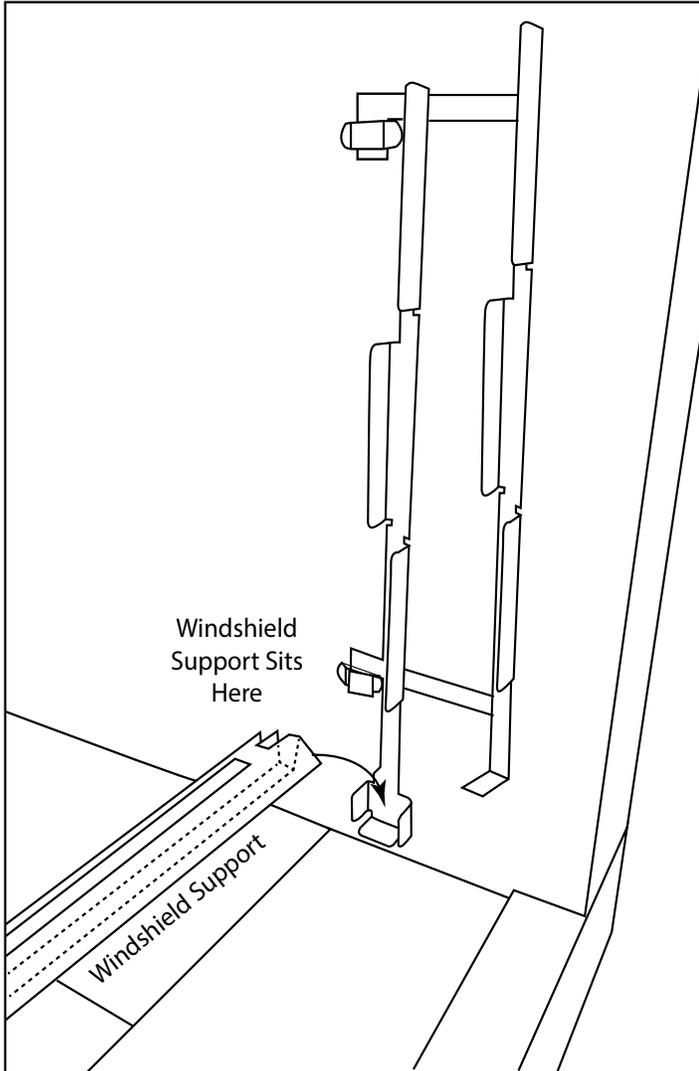
## FINAL PREPARATION

**Step 3:** Remove the windshield support from the carton (The front of the support has a shield facing the front. See Figs. 19-21 for details. **Note:** If you are installing into a see-through fireplace you will install a windshield support will be used on both sides of the fireplace.



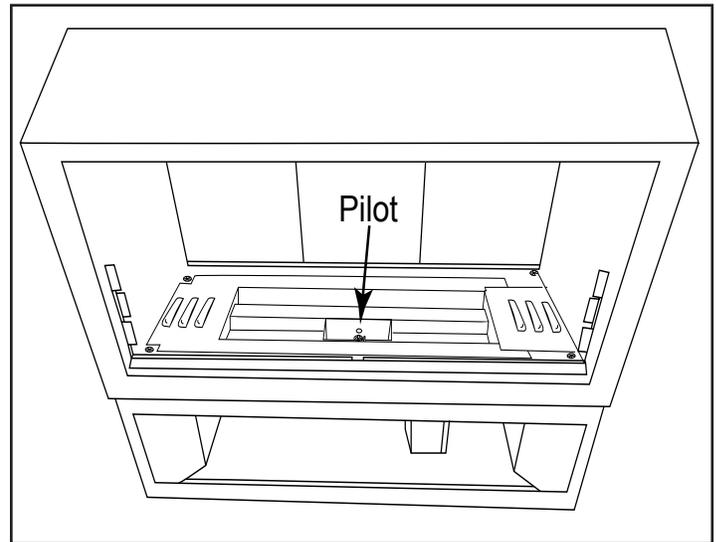
**Fig. 22** Shows windshield support.

**Step 4:** Install the windshield support into the bottom of the glass clip. Ensure the other end of the channel is also sitting inside the other glass clip. See Figs. 20 & 21 as a reference. **Note:** If you are installing into a see-through fireplace, install the other windshield support in the same manner.



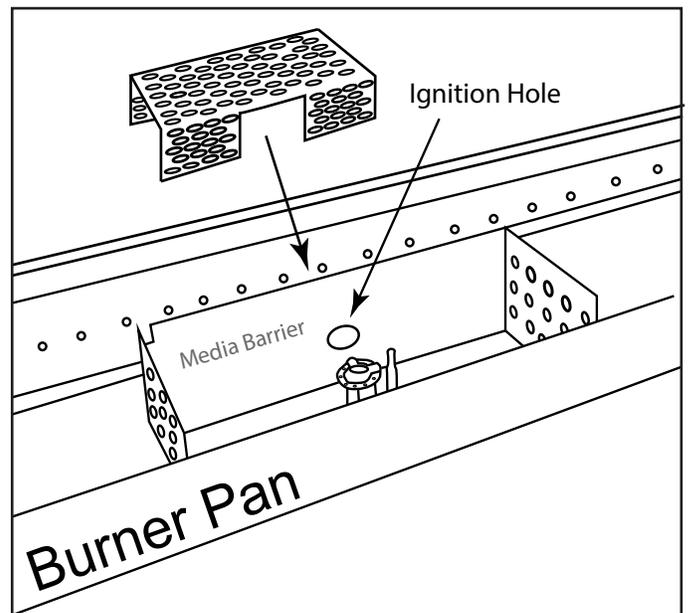
**Fig. 23** Installing windshield support.

**Step 5:** Install the burner pan back into the fireplace. See Fig. 24.



**Fig. 24** Shows burner pan installed into fireplace.

**Step 6:** Install ignition screen (from parts box) overtop of the burner tube with the cutout area centered behind the pilot box ignition hole as shown in Fig. 25. The ignition screen sit on top of the burner tube.



**Fig. 25** Installing ignition screen.



## FINAL PREPARATION

**Step 7: NOTE: The pilot hood will have a plastic film that must be removed before installing.**

Remove the plastic film from the pilot hood and place it on top of the pilot box as shown in Figs. 26 & 27..

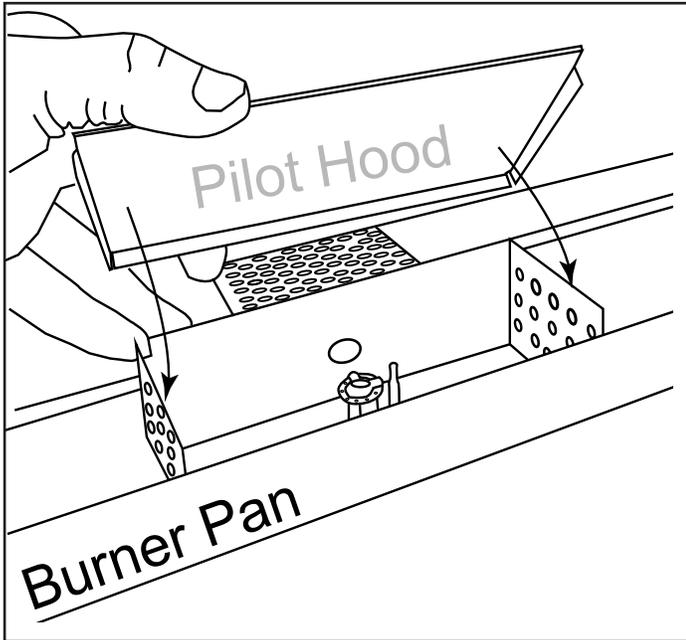


Fig. 26 Proper pilot flame through ignition hole.

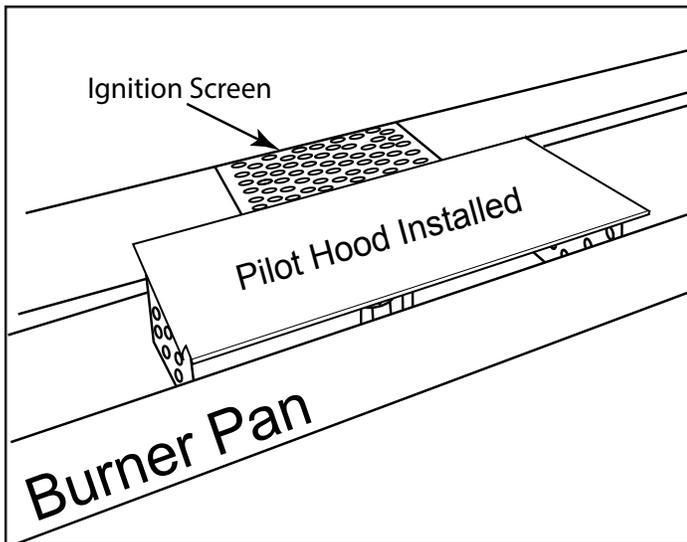


Fig. 27 Installing media into the fireplace.

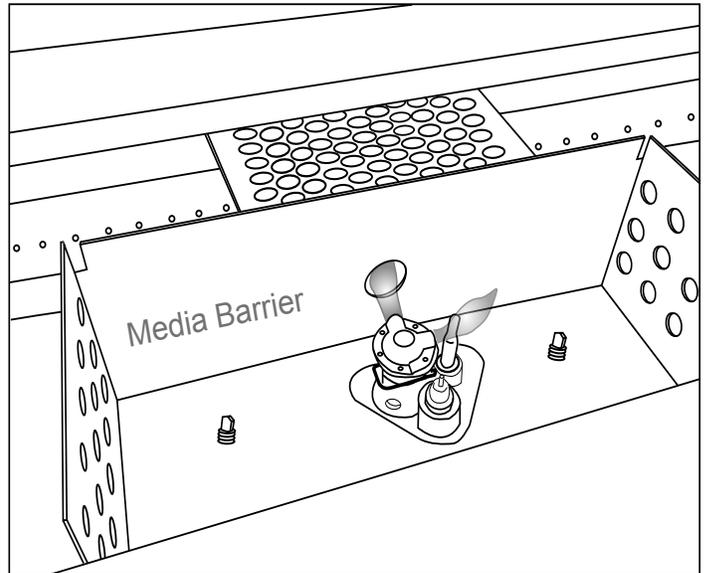


Fig. 28 Proper pilot flame through ignition hole.

### **Step 8:** **INSTALLING MEDIA**

Open the media box and install the glass media as shown in Figs. 24 & 25. Place media fireglass into the trough area first as shown in Fig. 24. Use the remaining media to fill the burner pan equally on both sides. After filling the trough reinstall the mesh hood overtop of the pilot area.

Keep media in burner pan the same level as the trough to allow the burner area to appear as one complete burner pan.

**IMPORTANT:** Media can only be placed in the trough and burner pan area. No media is to be placed into the shaded area shown in Fig. 26 on page 23.

**CAUTION:** Ensure there is no media in the ignition hole area. The burner tube gas ignites in this area to light the fireplace. Media in this area could cause delayed ignition.

The fireplace requires  $\frac{1}{2}$ "- $\frac{3}{4}$ " large broken fireglass to be installed into the burner trough and burner pan. Use the table below to assist in determining the amount of media needed for your specific model.

Large Broken Glass	
Model #	Burner pan & Trough
36"	15lbs.
48"	20lbs.
60"	25lbs.
72"	25lbs.

**Table 8** Media specifications. Requires  $\frac{1}{2}$ " -  $\frac{3}{4}$ " fireglass (Burner pan media amount does not include the trough)



## FINAL PREPARATION

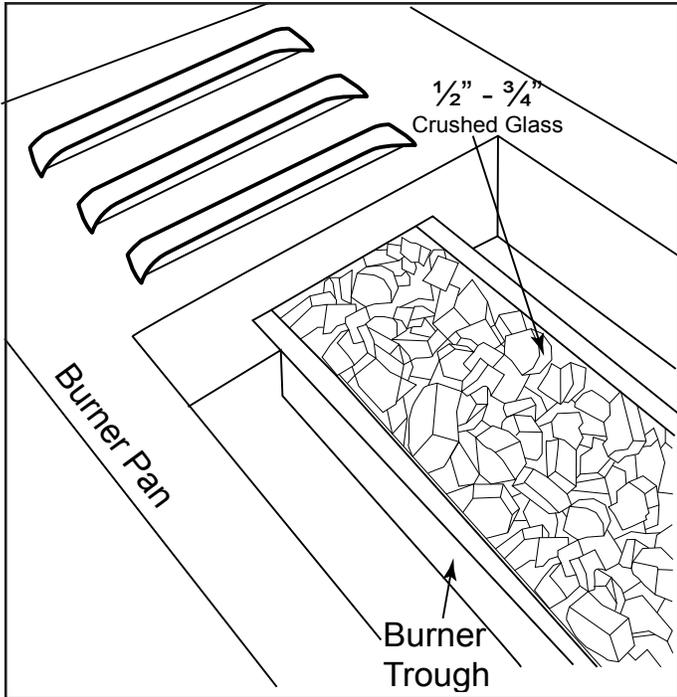


Fig. 29 Installing media.

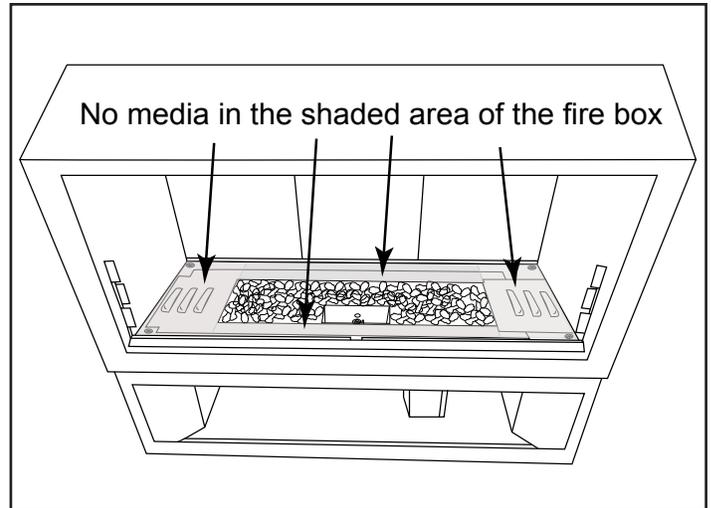
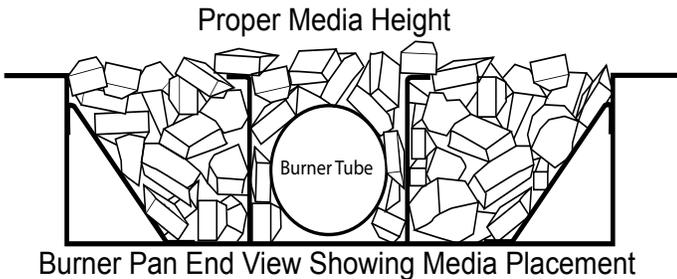


Fig. 31 Covering the entire fireplace floor is NOT permitted in the shaded area.



Burner Pan End View Showing Media Placement

Fig. 30 End view of burner with media.

**Note:** Media amounts listed in Table 8 are guides and can vary depending on media used. Ensure not to cover more than 1/2 -inch above the actual burner tube and keep all media within the burner pan area (See Figs. 24, 25, & 26).

### Step 9: INSTALLING HOOD(S)

The fireplace requires a hood to be installed into the upper opening of the firebox. All models require five (5) screws to secure the hood to the fireplace except the 72-inch model, which uses seven (7) screws to secure the hood. The hood protrudes 1-inch from fireplace opening. Fig. 32 shows hole location and installation process for hood installation. The protruding area of the hood is to be angled downward for proper installation, see Hood Detail below.

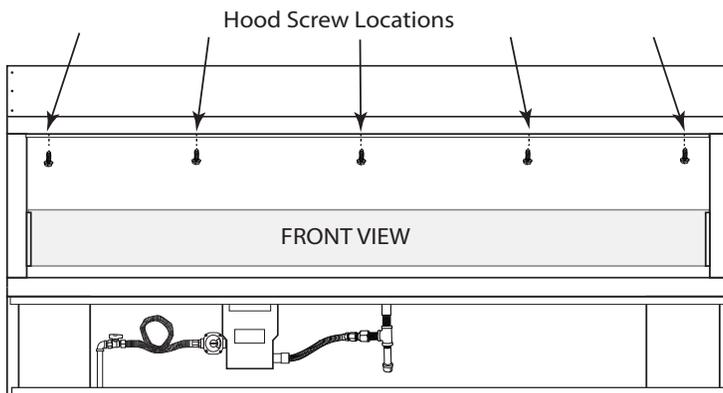
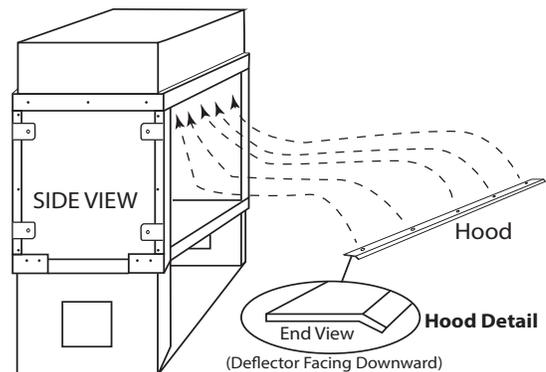


Fig. 32 Installing hood(s) on the fireplace.



## FINAL PREPARATION

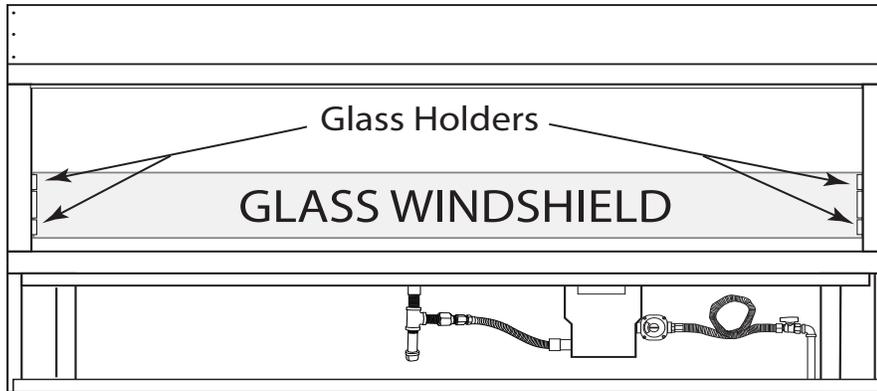


Fig. 33 Windshield glass holder location.

### Step 10:

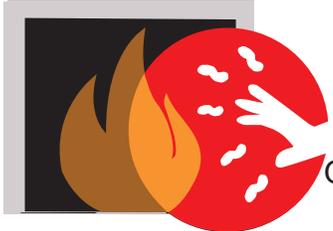
#### **GLASS PANEL/WINDSHIELD INSTALLATION**

- Carefully unpack the glass panels.
- Using gloves carefully lift one glass panel, into the fireplace opening, over top of the glass clips, and slide it down into the metal retainer clip, supporting the glass at the top and bottom as you handle it. See Fig. 34
- As the glass enters the clip the bottom edge of the glass will rest in place on the bottom of the clip.
- Install the second glass pane in the same manner as described in Fig. 34.
- Both glass panels should be level when installed.
- Center glass between clips after installation.

**“WARNING: Both glass panels must be installed when the fireplace is in operation”.** Note: All four (4) glass panels must be installed on see through fireplaces.



# DANGER



**HOT GLASS WILL  
CAUSE BURNS**

**DO NOT TOUCH  
GLASS UNTIL COOLED**

**NEVER ALLOW CHILDREN  
TO TOUCH GLASS**

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

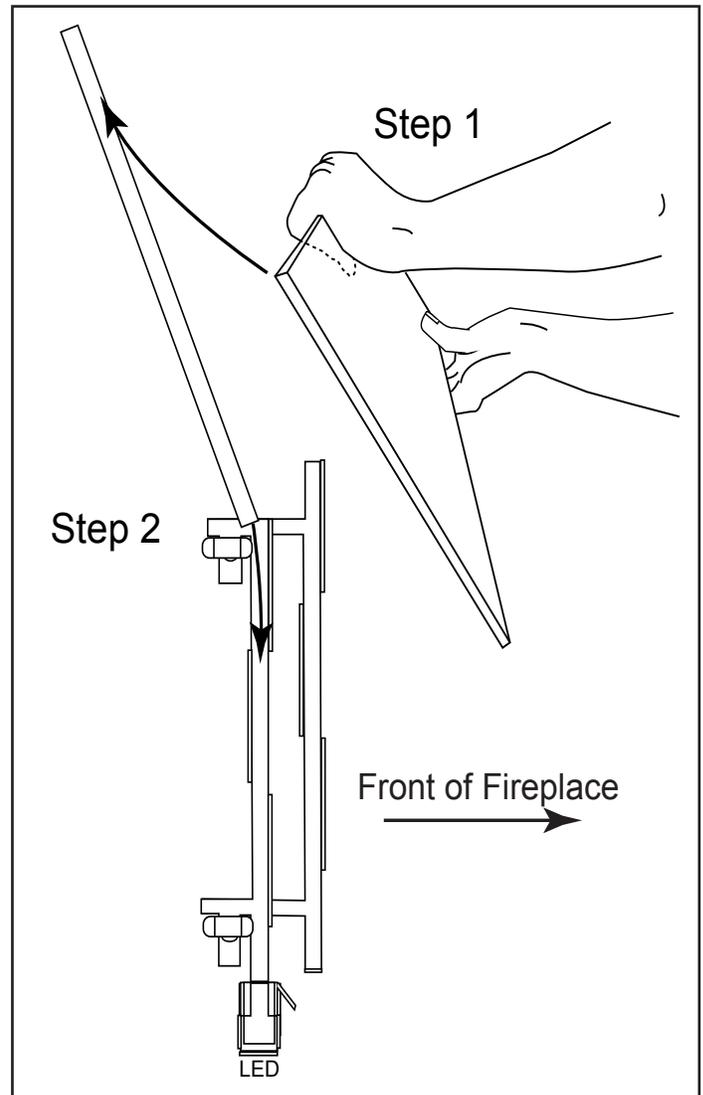


Fig. 34 Installing windshield into clips (glass holders).

**CAUTION:** THIS IS TEMPERED GLASS. DO NOT CHIP GLASS. CHIPPED TEMPERED GLASS CAN BREAK WITHOUT WARNING.



## FINAL PREPARATION

### FLAME HEIGHT

Proper flame height (Fig. 35) should be at the top edge of glass windshield (peaking above at times) while on HI setting. **Note:** Glass windshield is 7-inches tall. The LO setting will be at least half of the height of HI or maybe lower. There can be a variance in flame height between Natural Gas and Liquid Propane (LP) Gas models.

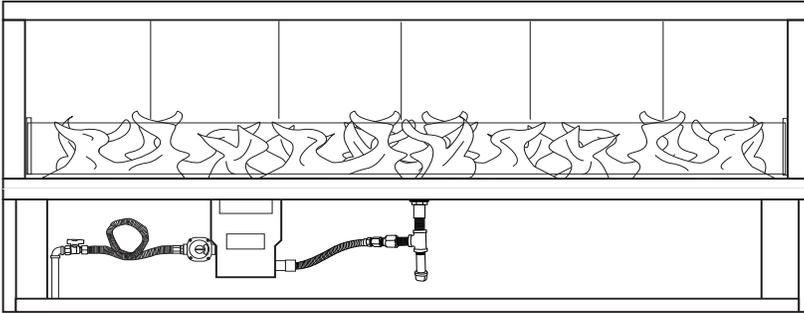


Fig. 35 Proper flame height.

### Step 11:

### PROGRAMMING OPTIONAL REMOTE CONTROLS

#### LEARNING TRANSMITTER TO MODULE

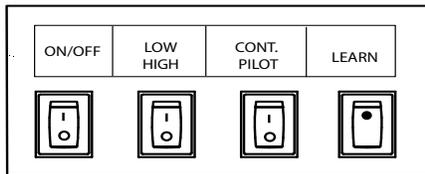


Fig. 36 Control panel

1. To **LEARN** (pair) the remote transmitter to the control module, press and release the LEARN button (switch) in the control box. See Fig. 36. You will hear single audible beep indicating the module is ready to learn the transmitter security code. Press any button on the transmitter within 60 seconds. The code is accepted when you hear 4 short beeps in rapid succession. Security codes will be retained in memory indefinitely if power is removed. **Note:** Control module accepts a total of three (3) wireless transmitters.
2. To **Clear Codes**: Press and hold learn switch on for 6-seconds to clear all transmitter security codes retained in memory. Codes are clear when you hear three long beeps in succession.

**Note:** After “Learning” the remote control to the control module you will be able to operate the fireplace with the remote, without pushing any of the switches inside the control box. You still have the option to operate the fireplace manually if needed by accessing the control box and pushing the ON/OFF switch. Refer to the lighting instructions above.



## 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, that has been under water.

### SAFETY WARNINGS

1. Never leave the fireplace 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 LP 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.

## LIGHTING INSTRUCTIONS

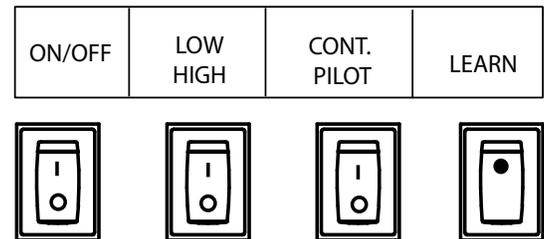
### READ ALL WARNING AND SAFETY INFORMATION ABOVE BEFORE ATTEMPTING TO LIGHT FIREPLACE

Turn **ON** main gas supply and check all fittings and connections for leaks with a soap and water solution.

### HOW TO TURN ON

1. Push the "I" on the rocker switch to turn ON (Ignite). System will take approximately 7-10 seconds before ignition after the gas line is purged. See Fig. 37. The main flame ignites (defaults) in the HIGH position. Press the "I" on the LOW/HIGH button to adjust to the LOW flame setting, if desired.
2. If fire pit does not light after second try, turn ON/OFF rocker switch OFF, wait 5 minutes and repeat step 1.

**Note:** A continuous pilot flame can be turned ON or OFF using the continuous pilot switch.



**Fig. 37** Control panel rocker switches  
"I" indicates ignite/ON and "O" indicates OFF.

### HOW TO TURN OFF

1. To turn OFF the fireplace press the "O" position on the ON/OFF switch. This will turn OFF the fireplace.  
**NOTE:** Fireplace must turned OFF for 5 minutes before relighting.

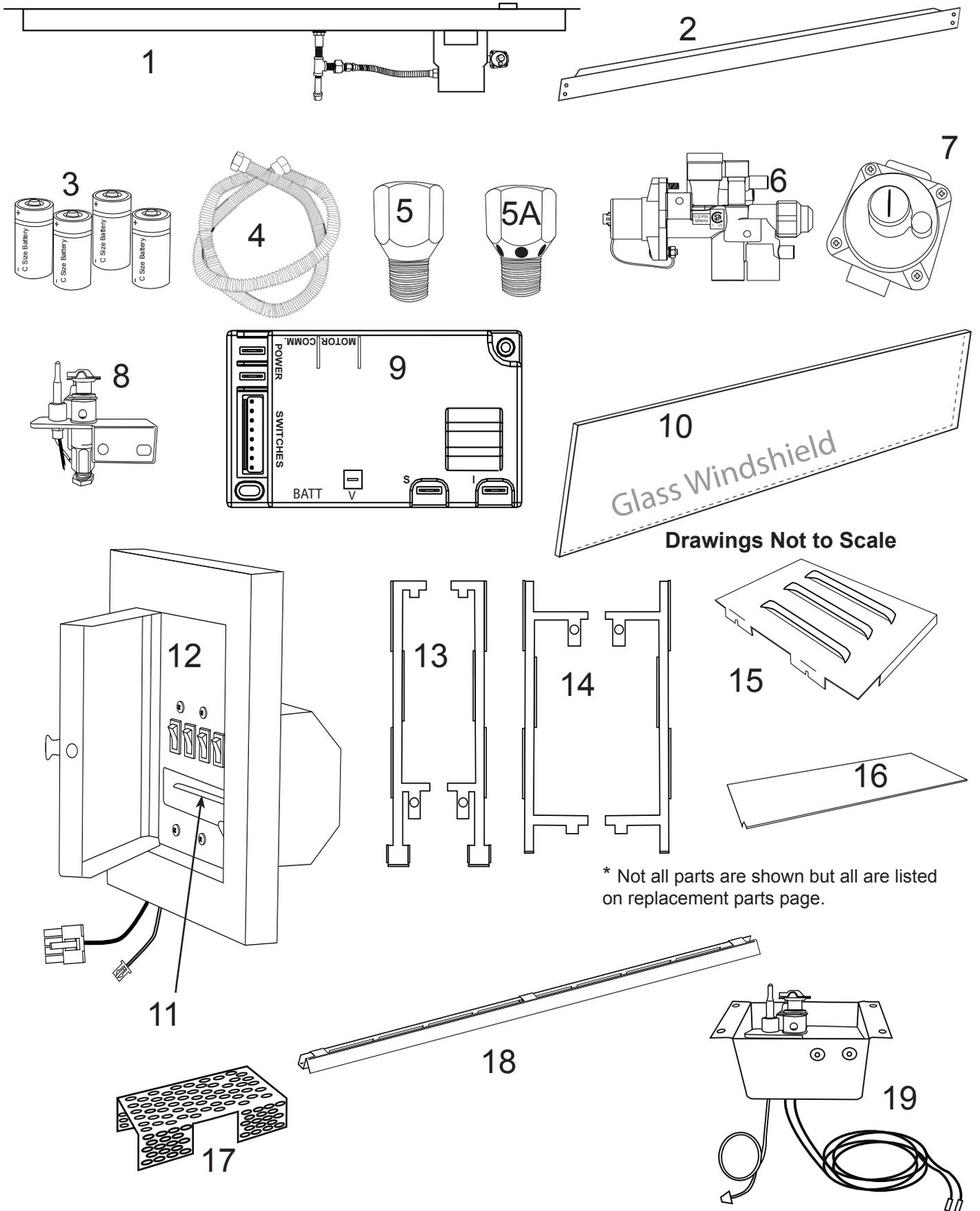
### LEARN BUTTON: IS ONLY USED WHEN PROGRAMMING REMOTE CONTROLS

### REMOTE CONTROL OPERATION

If using a remote control, the rocker switches in the control panel will not be used. Depending on the remote control, simply press the ON button to operate the fireplace. See bottom of page 26 for reference.



# REPLACEMENT PARTS



\* Not all parts are shown but all are listed on replacement parts page.



## REPLACEMENT PARTS LIST

Item	Description	Part Number
1	Complete Stainless Steel Burner Pan Assembly	36"-(73235) 48"-(74235) 60"-(75235) 72"-(76235)
2	Bottom Support Fin - 2 per unit	36"-(73130) 48"-(74130) 60"-(75130) 72"-(76130)
3	C-Size Batteries (requires 4); supplied with fireplace)	BATTC
4	1/2" Flex Gas Line (46-inch Length)	T-200-9898-46
5	Air Shutter Orifice NG (for 36" Natural Gas Models)	OAS-NG41
5	Air Shutter Orifice NG (for 48" Natural Gas Models)	OAS-NG32
5	Air Shutter Orifice NG (for 60" Natural Gas Models)	OAS-NG30
5	Air Shutter Orifice NG (for 72" Natural Gas Models)	OAS-NG25
5A	Air Shutter Orifice LP (for 36" Propane Gas Models)	OAS-LP52
5A	Air Shutter Orifice LP (for 48" Propane Gas Models)	OAS-LP48
5A	Air Shutter Orifice LP (for 60" Propane Gas Models)	OAS-LP44
5A	Air Shutter Orifice LP (for 72" Propane Gas Models)	OAS-LP42
6	EcoFlow Gas Valve with Step Motor with ECO-LSS-44 for 36" Model	73224
6	EcoFlow Gas Valve with Step Motor with ECO-LSS-34 for 48" Mode	73224
6	EcoFlow Gas Valve with Step Motor with ECO-LSS-27 for 60" Model	74224
6	EcoFlow Gas Valve with Step Motor with ECO-LSS-44 for 72" Model	75224
7	Natural Gas Regulator (convertible to LP) See page 33	REG-C80K-NG
8	Side Mount Convertible Pilot Assembly (complete assembly with TC)	ECO-VK-PILOT
9	Ignition Control Module ( includes 8-pin wire harness)	ECO-VK-ECOMOD-WWH
10	Tempered Glass Windshield for 36" model (1/4" x 8" x 35 1/2") (Pkg of 1)	KB-36-73120
10	Tempered Glass Windshield for 48" model (1/4" x 8" x 47 1/2") (Pkg of 1)	KB-48-74120
10	Tempered Glass Windshield for 60" model (1/4" x 8" x 59 1/2") (Pkg of 1)	KB-60-75120
10	Tempered Glass Windshield for 72" model (1/4" x 8" x 71 1/2") (Pkg of 1)	KB-72-76120
11	Battery pack drawer assembly (uses 4 C size batteries)	77143
12	FG Control Box Assembly	77139
13	Glass Clips (2) supports for windshield Support	(Right) 77156 (Left) 77157
14	Glass Clips (2) supports for glass panel only	(Right) 77154 (Left) 77155
15	Bottom End (Used to center burner pan into fireplace)	76125
16	Pilot Cover (Sits inside bottom end, item #18)	77150
17	OFP Pilot Screen (Ignition screen behind pilot box)	77151
18	Windshield Support	36"-(73237) 48"-(74237) 60"- 75237) 72" -(76237)
19	Pilot Box Assembly (pilot installed into metal box for replacment)	77158
20	Fireplace Hood - (deflects heat from top opening) not shown	36"-(73131) 48"-(74131) 60"-(75131) 72"-(76131)
21	Poly Lightng Label - not shown	77144
22	10-foot Module Wire Harness- not shown	77161
23	8-32 x 1/2" Pan head screw - stainless steel - not shown	77129
24	120" wire harness extension for battery pack (VCS-ECOBUC) - not shown	VCS-ECOBUEXT120
25	Manual gas shut-off valve 1/2" OD Fare x 1/2" FIP -not shown	01-487

**Note:** All items are shipped as one replacement part unless noted in the description.

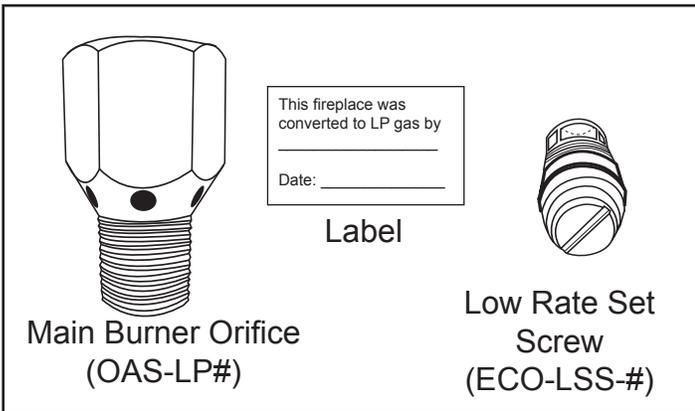


# NATURAL GAS TO LP GAS CONVERSION

This kit will properly convert the outdoor fireplace to LP gas. Kit contents are: (1) OAS-LP# (Brass orifice) and (1) ECO-LSS# (Brass low rate set screw), (1) LP Conversion label (placed next to blank space on rating label, (1) Installation instruction

Model	Main Burner Orifice	Low Rate Set Screw
OFP-36LECO-LPK	OAS-LPR52	ECO-LSS-52
OFP-48LECO-LPK	OAS-LPR48	ECO-LSS-46
OFP-60LECO-LPK	OAS-LPR44	ECO-LSS-42
OFP-72LECO-LPK	OAS-LPR42	ECO-LSS-35

**Table 1** Reference information

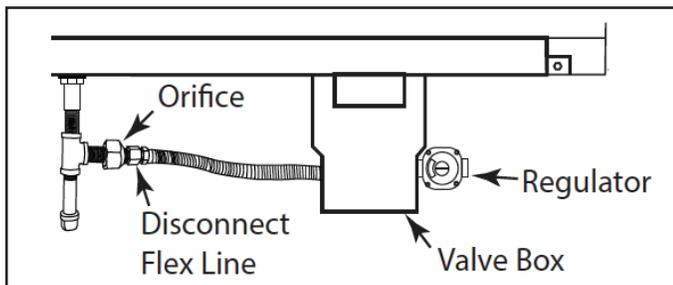


**Fig. 1.** Contents of kit

**Step 1:** Turn OFF the gas supply to the outdoor fireplace and disconnect any electrical power.

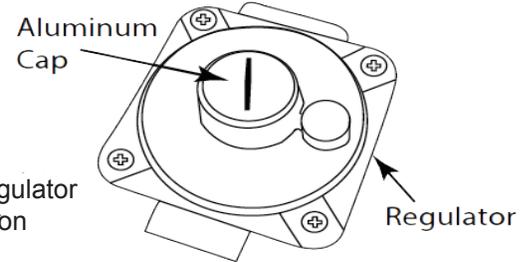
**Step 2:** Remove the burner pan from the fireplace to enable conversion access. See installation manual if necessary.

**Step 3.** Disconnect the flex line at the main burner orifice. Then remove the orifice and flared fitting from the orifice. Re-tape the flared fitting with the new OAS-LP orifice per Table 1. Ensure to use gas rated Teflon tape around the threads or pipe compound. Check for leaks after conversion is complete.



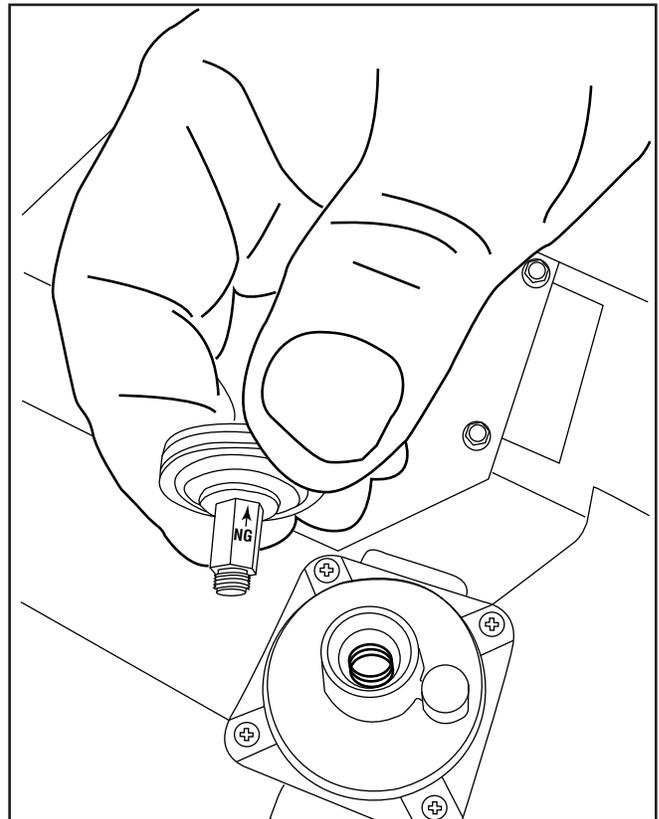
**Fig. 2** Changing main burner orifice

**Step 4:** Locate the gas regulator on the opposite side of the valve box. Using a regular size flat bladed screwdriver remove the aluminum cap and washer from the regulator. See Fig. 3.



**Fig. 3** Regulator cap location

**Step 5:** On the underneath side of the aluminum cap is a plastic stem. Using a 6mm wrench remove the stem, unscrew the stem (counter-clockwise), turn it over and install the opposite end back into the cap. See Fig. 4.

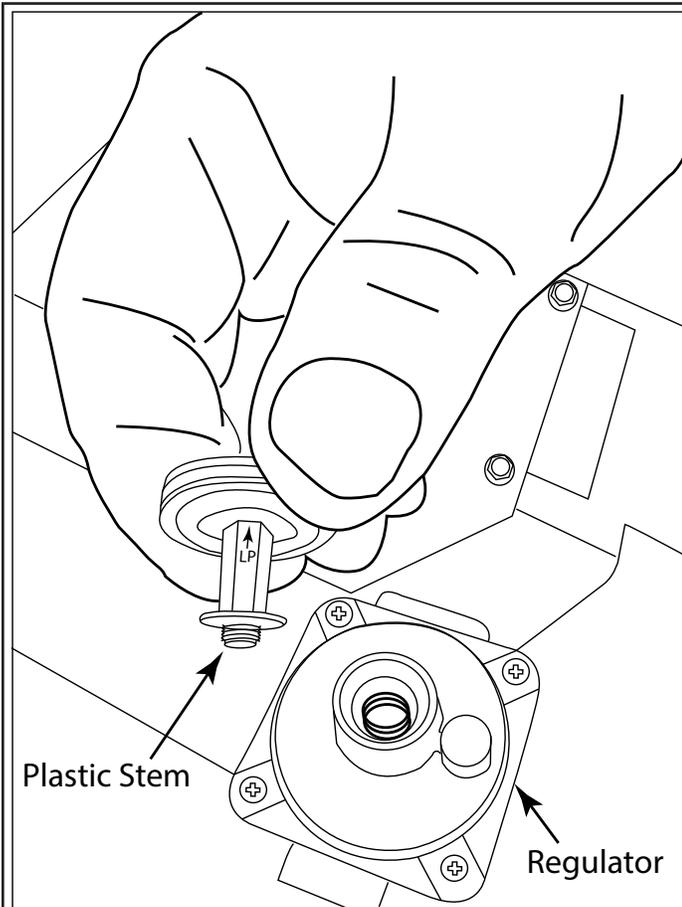


**Fig. 4** Regulator stem shown in NG setting

**NOTE:** The plastic stem has a marking on it with an arrow. Look carefully on the stem, it may be difficult to read.

The gas type is determined with the arrow pointing at the aluminum cap as seen in Figs. 4 and 5 on page 30.

## NATURAL GAS TO LP GAS CONVERSION

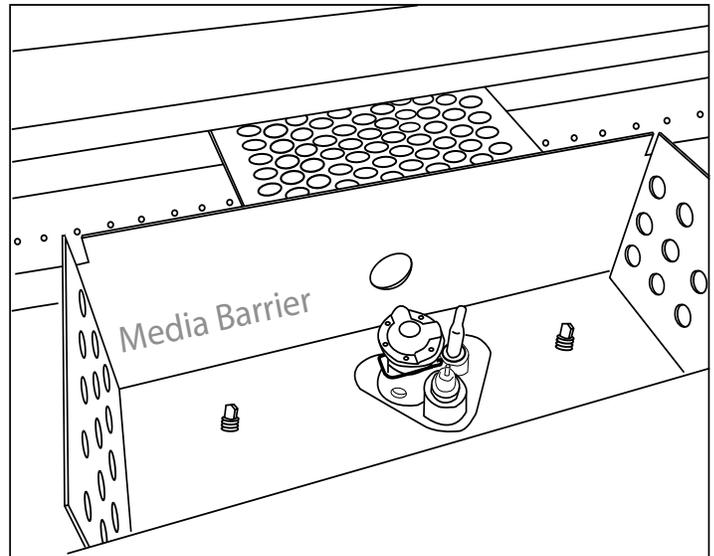


**Fig. 5** Regulator stem shown in LP setting

**CAUTION:** Ensure the aluminum cap is installed with the plastic stem seated completely into the cap and the metal washer is installed with the aluminum cap.

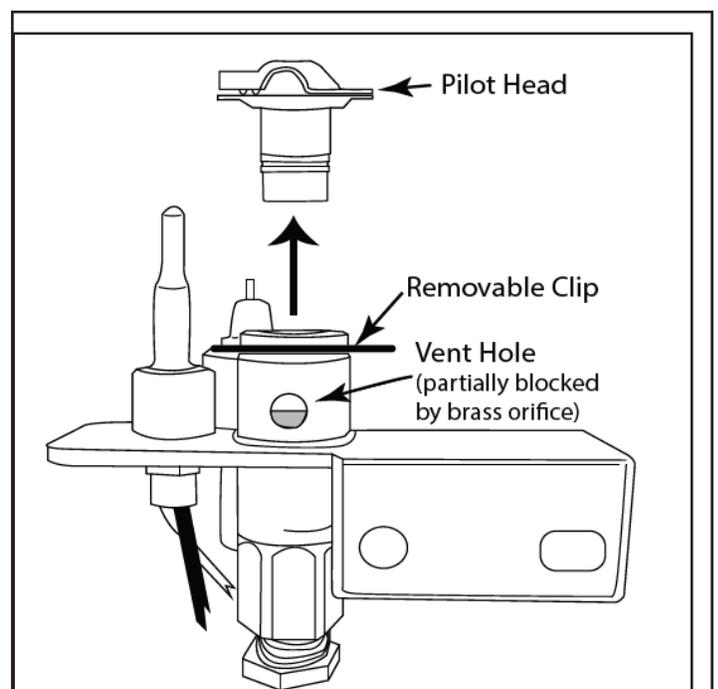
**Step 6:** Secure the aluminum cap with a screwdriver.

**Step 7:** On the end of the burner pan where the pilot is located (See Fig. 6), remove the four (4) 1/14" hex head screws securing the metal pilot box. Two screws are located inside the burner pan, one on each side of the ignitor box screen mesh hood and the other two are securing a metal tab on each side of the pilot box. See Fig. 6 for screw locations.



**Fig. 6** Show pilot assembly under the pilot hood.

**Step 8:** Lift/pull the pilot head straight up and out of the pilot assembly. If pilot head does not move, then pull the wire clip, under the head, with a small screwdriver or needle-nose pliers, then lift the head off. See Fig. 9.

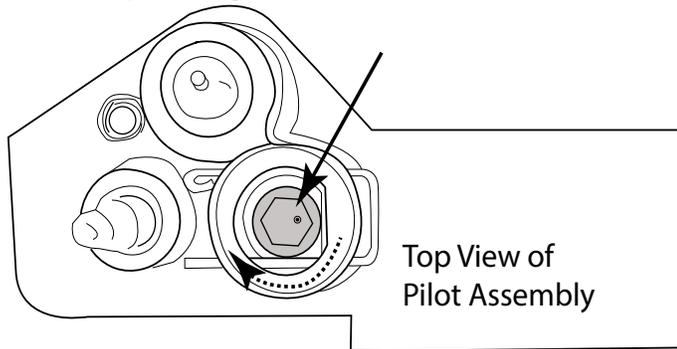


**Fig. 7** Pilot hood removal



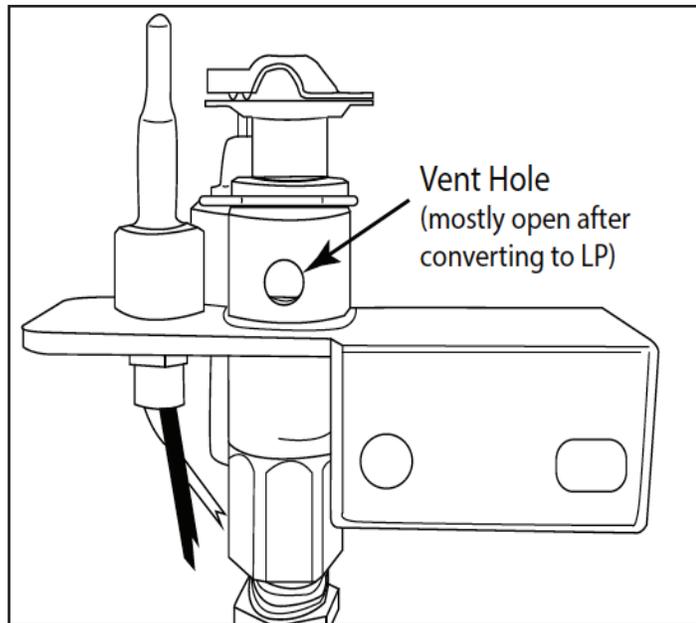
## NATURAL GAS TO LP GAS CONVERSION

**Step 9:** Insert a 4mm hex head (allen wrench) into the octagon hole of the brass orifice inside the pilot assembly and turn clockwise until it stops (approximately 2 full revolutions). See Fig. 8.



**Fig. 8** Shows slot inside pilot orifice

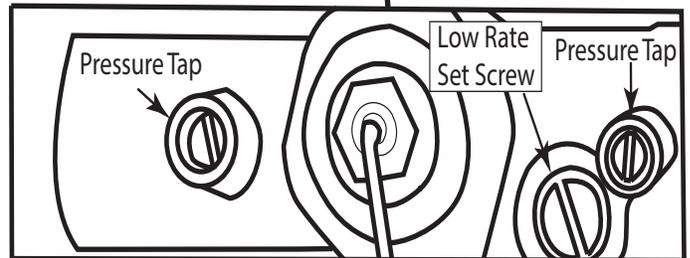
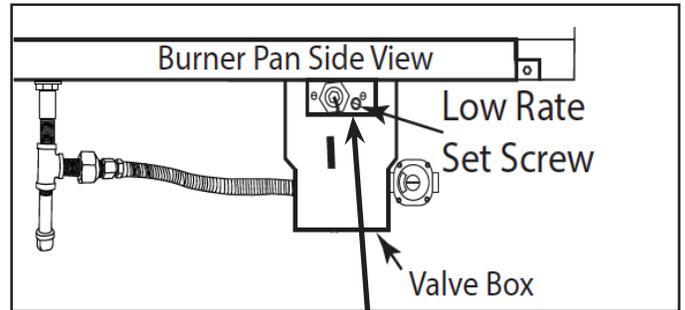
Once the orifice has been converted to LP then re-install the pilot hood, ensure the clip is in place (if removed) and mount the metal pilot box back into place in the same manner you removed it from the burner pan. See Fig. 7.



**Fig. 9** Pilot assembly converted to LP

**NOTE:** Figs. 7 and 9 provide a visual reference of the pilot orifice from Natural gas to LP gas through the vent hole of the pilot assembly.

**Step 10:** Look for the low rate set screw in the gas valve box. There is a cutout (window) area that allows access to the low rate set screw. Fig. 10 below shows the side view of the burner pan and a close-up detail.



**Fig. 10** Detailed location of low rate set screw

**Step 11:** Remove the low rate set screw with a flat bladed screwdriver turning the screw counter-clockwise. The set screw has a rubber "O" ring on the outer portion of the screw, as a result the screw will rotate only 3-4 revolutions and not unscrew any farther. **Note:** If you drop the low rate screw inside the valve area you can retrieve it through the access door of the valve box.

**Step 12:** Remove the low rate set screw using a small pair of needle-nose pliers. Grab the outer edge of the screw and pull outward.

**Step 13:** Insert the correct new low rate screw from Table 1 with the needle-nose pliers. Secure the new low rate set screw (clockwise) with screwdriver until it is tight and now longer spins.

**CAUTION:** DO NOT REMOVE OR LOOSEN THE SMALL SET SCREWS ON EACH SIDE OF THE V-WIRE. THESE ARE PRESSURE TEST PORTS. IF THESE ARE LOOSENED THEY MUST BE RE-TIGHTENED TO ENSURE NO GAS LEAKS OCCUR.

**Step 14:** Fill out the label "This fireplace has been converted to LP gas" and affix it to the blank area on the rating plate.

**Step 15:** Ensure you test the burner pan after it is installed into the fireplace for any gas leaks.

**Step 16:** Conversion is now complete.



## FIREPLACE MAINTENANCE

1. The fireplace should be inspected and cleaned before first use at the beginning of each season by a qualified field service person.
2. Any component that is found faulty must be replaced with an approved component.
3. Any tampering with or modifying the fireplace is dangerous and voids all warranties.
4. During winter months in cold climates and various seasons operation the fireplace may be affected by weather conditions. It is recommended to use a weather proof cover overtop for your fireplace to protect it from humid/rainy weather conditions when not in use. Heavy rains/downpours could affect the fireplace operation if not covered; if this occurs ensure you allow the fireplace time to dry out before attempting to operate. **NOTE:** If a combustible type cover is used over the fireplace when not in use be sure to remove it before operation to prevent a severe safety hazard.
5. Carbon (soot) may build up on the metal interior during heavy use and sooting may also occur periodically under the pilot cover. Do the following: To clean, mix several drops of dish washing liquid into a bucket of hot water. The dish soap assists in breaking up the soot and removing it from the metal. **CAUTION:** Ensure fireplace is cool to touch and gas is turned OFF before cleaning.
  - A. Dip a scrubbing sponge into the soapy water and wipe it back and forth over the soot deposits. This breaks off the majority of the soot from the metallic surface.
  - B. Spray any remaining soot deposits with a combination of warm water and white vinegar mixed in a spray bottle in a half-and-half solution. White vinegar is slightly acidic and this helps break up the soot and cleans the metal effectively.
  - C. Run a nylon scrub brush against any stubborn soot to remove it from the metal. Avoid using a metal scrub brush since this can result in scratching.
  - D. Buff the metal with a damp rag to remove any remaining soap or vinegar and then dry it with a dry rag.
6. 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.



## GENERAL TROUBLESHOOTING

Symptom	Remedy
Fireplace Won't Light	<ol style="list-style-type: none"> <li>1. Bleed gas line.</li> <li>2. Ensure all gas lines are turned ON.</li> <li>3. Ensure there is not too much media overtop the burner, it can inhibit the gas flow. Too little or no media can also contribute to non-lighting.</li> <li>4. Media blocking pilot hole. See Fig.23 on page 22.</li> </ol>
No Spark to Ignite	<ol style="list-style-type: none"> <li>1. Visually look at ignitor for any physical damage.</li> <li>2. Ensure batteries in battery pack measure 1.5 volts each.</li> <li>3. Listen closely to vent area for any beeping sound. If beeping is heard refer to page 34.</li> </ol>
Continues to Spark after Lighting	<ol style="list-style-type: none"> <li>1. Thermocouple out of alignment.</li> <li>2. Check connection of thermocouple at "S" terminal on control module to ensure it is connected.</li> <li>3. Control module "proves" flame before lighting. See Ignition safety on page 34.</li> </ol>
Low Flame	<ol style="list-style-type: none"> <li>1. Ensure the media is at least <math>\frac{1}{2}</math>" - <math>\frac{3}{4}</math>" in diameter. See page 23, Fig. 25.</li> <li>2. Ensure all shut-off valves are fully open (See page 6, Fig. 1).</li> <li>3. Check for spider webs inside burner orifice.</li> <li>4. Check gas type and gas pressure.</li> <li>5. Wrong media installed into the burner trough.</li> <li>6. Too much media installed overtop of the trough (See page 22, Fig. 23 for details).</li> <li>7. Ensure fireplace is set for proper gas type.</li> </ol>
Water in my Fireplace	<ol style="list-style-type: none"> <li>1. Excess dust/sand material from media may be blocking the weep holes to relieve water. Remove all media and unplug weep holes. Clean or install new media free of dust and dirt.</li> <li>2. Ensure fire pit enclosure has proper drainage for water and proper ventilation to dry out.</li> <li>3. Recommend to purchase a cover (if applicable) 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>
Fireplace Won't Stay Lit	<ol style="list-style-type: none"> <li>1. Check alignment of pilot flame through ignition hole on page 22, Fig. 23.</li> <li>2. Thermocouple reading should be between 10-20mV while operating. Use a multi-meter and test at the brass ground lead on gas valve and the gold lead at "S" terminal on the control module. If no minimum millivolts are maintained replace the thermocouple. Must test with pilot operating to obtain readings.</li> <li>3. Check continuity of thermocouple. Using a volt meter remove the TC test lead "S" from the control module and the brass fork terminal from the gas valve. Test for continuity. If no continuity, replace the thermocouple.</li> <li>4. Ensure thermocouple is clean and free of any debris. Excessive soot can be an issue.</li> </ol>
Sooting	<ol style="list-style-type: none"> <li>1. Incorrect gas for the fireplace. Ensure rating label has proper model number for gas being used.</li> <li>2. Too much media can cause sooting.</li> <li>3. Wrong media being used. (See page 22 for details).</li> </ol>



## ERROR CODE TROUBLESHOOTING

### **Error Codes**

The control module has the ability to detect problems with the fireplace and will initiate error codes when they occur. If an error code occurs the control module will emit a series of “beeping” patterns to determine the error. Due to the outdoor environment, it may be difficult to hear the control module “beeping” inside the fireplace. We suggested to “listen” at the vents or next to the burner tube.

**The error codes listed below will guide you through troubleshooting issues.**

**Ignition Safety Error:** One short beep every one second.

**Cause:** Pilot did not light within the trial period of 50-60 seconds therefore step motor will turn gas valve to OFF position.

**Corrective Action:** Press OFF button to clear. Wait 30 seconds and try again.

**Recycle Safety Error:** Two short beeps every one second.

**Cause:** 1. Pilot automatically lights and drops out 3-times within 2-minutes causes step motor to turn gas valve to OFF position. 2. Someone has pressed the ON/OFF button 6-times within 2-minutes causing the step motor to turn gas valve to OFF position.

**Corrective Action:** Press OFF button to clear. After 5-minutes the beeping will stop then retry.

**Sensor Safety Error:** Four short beeps every one second (constant beeping).

**Cause:** Pilot flame sensor voltage too high, ground circuit not properly connected, pilot ground wire loose or not connected, or motor not plugged into control module; therefore, step motor will turn gas valve to OFF position.

**Corrective Action:** Press OFF button to clear. Wait 30-seconds to thermocouple to cool down. If persist, then check other possible causes and retry.

**Thermal Safety:** Four short beeps every two seconds.

**Cause:** System has overheated and exceeded 170°F internal temperature limit and the step motor will turn gas to OFF.

**Corrective Action:** Internal temperature must cool down to below 160°F then press the OFF button to clear and retry.

**Communication Safety:** One short beep every four seconds.

**Cause:** Transmitter and module are not communicating properly. Could be related to distance greater than 20-feet away from each other or weak/dead batteries in one or the other.

**Corrective Action:** Module must receive a signal from transmitter

**FOR TECHNICAL SERVICE, CALL: (800) 966-8126**

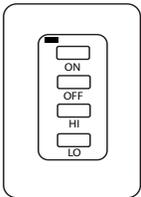
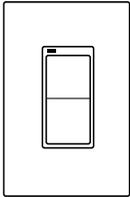
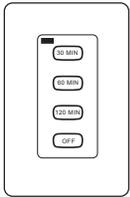
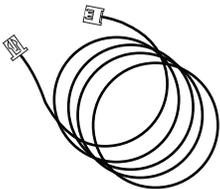
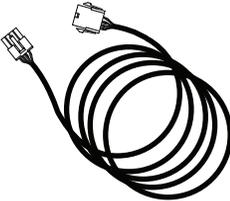
Manufactured by AMD Direct, Inc.  
Brand Name: Firegear Outdoors  
17322 Gothard St  
Huntington Beach, CA 92647  
Web Site: [www.firegearoutdoors.com](http://www.firegearoutdoors.com)

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



## OPTIONAL ACCESSORIES

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

<p style="text-align: center;"><b>Wireless Wall Switch</b></p>  <p>Wireless wall switch (ON/OFF/Hi/Lo)</p> <p><b>Model:</b> 1322-WT</p>	<p style="text-align: center;"><b>Wireless Wall Switch</b></p>  <p>Wireless wall switch (ON/OFF) ONLY</p> <p><b>Model:</b> 1001D-ATX</p>	<p style="text-align: center;"><b>Wireless Wall Switch Timer</b></p>  <p>4-Button Wall Timer (30/60/120/OFF)</p> <p><b>Model:</b> TM-R-AF1TX</p>
<p style="text-align: center;"><b>Firegear Outdoors Media</b></p> <p><b>GRL-Series</b> (Reflective Glass in several colors)</p> <p style="text-align: center;"><b>Twig Set</b></p> <p><b>Model:</b> 926-930</p> <p>6 piece Beach Driftwood twisted twig set.</p> <p><b>NOTE:</b> Logs cannot be placed directly on the burner. They must be placed around the perimeter of burner.</p>	<p style="text-align: center;"><b>Home Automation System</b></p> <p><b>Model:</b> AF-4000HAT</p> <p>Enables the fireplace to operate with a home automation device.</p> <p style="text-align: center;"><b>Optional Remote Control</b></p> <p><b>Model:</b> RCAF-3TX</p> <p>Wireless Handheld remote with Hi-Lo features.</p>	<p style="text-align: center;"><b>LP Conversion Kit</b></p> <p><b>Model:</b></p> <p>OFP-36LECO-LPK (36-inch model) OFP-48LECO-LPK (48-inch model) OFP-60LECO-LPK (60-inch model) OFP-72LECO-LPK (72-inch model)</p> <p>Converts fireplace from Natural gas to LP gas. See page 29 and Table 2 on page 8 in manual.</p>
<p style="text-align: center;"><b>See-Thru Conversion Kit</b></p> <p>78009 (36-inch model) 78010 (48-inch model) 78011 (60-inch model) 78012 (72-inch model)</p> <p><b>Kit includes:</b> hood, right/left glass holders &amp; screws</p>	<p style="text-align: center;"><b>Battery Pack Extension Wire</b></p> <p><b>Model:</b> VCS-ECOBBUEXT120</p> <p>2-pin battery pack extension wire.</p> 	<p style="text-align: center;"><b>Module Extension Wire</b></p> <p><b>Model:</b> 77161</p> <p>10-foot control module extension wire harness (8-pin ) to move control box further distance from fireplace.</p> 



## **FIREGEAR LIMITED WARRANTY - 2022 / 2023**

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:

### **CONSUMER RESIDENTIAL APPLICATIONS – MANUFACTURED AFTER 12/02/2019**

- BURNER SYSTEMS, BURNERS, COMPONENTS AND ACCESSORIES
- LIFETIME WARRANTY ON CONSTRUCTION AND MANUFACTURER DEFECTS
- LIFETIME WARRANTY - STAINLESS STEEL BURNERS AND PANS
- LIFETIME WARRANTY - BRASS BURNERS
- FIVE (5) YEAR WARRANTY - GAS VALVE, SPARK IGNITER, PILOT ASSEMBLIES
- FIVE (5) YEAR WARRANTY - AWS ELECTRONIC IGNITION SYSTEMS (24VAC, 30 VDC)
- **FIVE (5) YEAR WARRANTY - TFS/TMSI/TPSI ELECTRONIC COMPONENTS**
- FIVE (5) YEAR WARRANTY – MT COMPONENTS (KEY VALVE)
- FIVE (5) YEAR WARRANTY - REFRACTORY GAS LOG SETS
- FIVE (5) YEAR WARRANTY - READY TO FINISH/ANF FIRE PIT ENCLOSURES
- FIVE (5) YEAR WARRANTY – SKYTECH MANUFACTURED OPTIONAL CONTROLS

### **OUTDOOR FIREPLACE – KALEA BAY**

- LIFETIME WARRANTY - CONSTRUCTION AND MANUFACTURER DEFECTS
- LIFETIME WARRANTY - STAINLESS STEEL COMPONENTS
- FIVE (5) YEAR WARRANTY - GAS VALVE, PILOT ASSEMBLY, POWER SUPPLY, CONTROLS
- FIVE (5) YEAR WARRANTY – SKYTECH MANUFACTURED OPTIONAL CONTROLS

### **SANCTUARY SERIES – GFRC FIRE FEATURES**

- THREE (3) YEAR WARRANTY - GFRC STRUCTURE
- REFER TO THE APPROPRIATE BURNER SYSTEM FOR WARRANT

*WARRANTY COVERS MANUFACTURING DEFECTS OR STRUCTURAL FAILURE. SMALL STRESS CRACKS AND SURFACE CRAZING ARE A NATURAL OCCURRENCE IN GFRC PRODUCTS AND NOT COVERED BY WARRANTY.*

### **READY TO FINISH/ANF ENCLOSURES**

- FRAME – LIFETIME WARRANTY ON CONSTRUCTION AND MANUFACTURER DEFECTS

### **ACCESSORIES**

- LIFETIME WARRANTY - CONSTRUCTION AND MANUFACTURER DEFECTS
- LIFETIME WARRANTY - STAINLESS STEEL COMPONENTS (LIDS, STAINLESS STEEL COVERS)
- ONE (1) YEAR WARRANTY – ESTOP1-OH, ESTOP2-5H WINDSHIELDS, HOSES AND REGULATORS



## COMMERCIAL APPLICATIONS – MANUFACTURED AFTER 12/02/2019

### BURNER SYSTEMS, BURNERS, COMPONENTS AND ACCESSORIES

- TWO (2) YEAR WARRANTY ON CONSTRUCTION AND MANUFACTURER DEFECTS
- TWO (2) YEAR WARRANTY - STAINLESS STEEL BURNERS AND PANS
- TWO (2) YEAR WARRANTY - BRASS BURNERS
- TWO (2) YEAR WARRANTY - GAS VALVE, SPARK IGNITER, PILOT ASSEMBLIES
- TWO (2) YEAR WARRANTY - AWS ELECTRONIC IGNITION SYSTEMS (24VAC, 30 VDC)
- TWO (2) YEAR WARRANTY – MT COMPONENTS (KEY VALVE)
- TWO (2) YEAR WARRANTY - REFRACTORY GAS LOG SETS
- FIVE (5) YEAR WARRANTY - READY TO FINISH/ANF FIRE PIT ENCLOSURES
- TWO (2) YEAR WARRANTY – SKYTECH MANUFACTURED OPTIONAL CONTROLS

### OUTDOOR FIREPLACE – KALEA BAY

- LIFETIME WARRANTY - CONSTRUCTION AND MANUFACTURER DEFECTS
- LIFETIME WARRANTY - STAINLESS STEEL COMPONENTS
- TWO (2) YEAR WARRANTY - GAS VALVE, PILOT ASSEMBLY, POWER SUPPLY, CONTROLS
- TWO (2) YEAR WARRANTY – SKYTECH MANUFACTURED OPTIONAL CONTROLS

### SANCTUARY SERIES – GFRC FIRE FEATURES

- THREE (3) YEAR WARRANTY - GFRC STRUCTURE
- REFER TO THE APPROPRIATE BURNER SYSTEM FOR WARRANTY  
*WARRANTY COVERS MANUFACTURING DEFECTS OR STRUCTURAL FAILURE. SMALL STRESS CRACKS AND SURFACE CRAZING ARE A NATURAL OCCURRENCE IN GFRC PRODUCTS AND NOT COVERED BY WARRANTY.*

### READY TO FINISH/ANF ENCLOSURES

- FRAME – LIFETIME WARRANTY ON CONSTRUCTION AND MANUFACTURER DEFECTS

### ACCESSORIES

- LIFETIME WARRANTY - CONSTRUCTION AND MANUFACTURER DEFECTS
- LIFETIME WARRANTY - STAINLESS STEEL COMPONENTS (LIDS, STAINLESS STEEL COVERS)
- ONE (1) YEAR WARRANTY – ESTOP1-OH, ESTOP2-5H WINDSHIELDS, HOSES AND REGULATORS



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 OEM/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 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 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  
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Huntington Beach, CA 92647  
[www.firegearoutdoors.com](http://www.firegearoutdoors.com)  
Phone: 800-966-8126







Having problems getting the fire pit to operate? Don't leave the job site! We want to help! Call 800.966.8126 for Technical Support between the hours of 8:00AM to 5:00PM PST.  
**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.

