

MODELS

Natural Gas	Description	Propane
FPB-24LTFS-N	24" Linear Pan & Burner	FPB-24LTFS-P
FPB-30LTFS-N	30" Linear Pan & Burner	FPB-30LTFS-P
FPB-36LTFS-N	36" Linear Pan & Burner	FPB-36LTFS-P

Outdoor Thermocouple Flame Sense (TFS) Linear 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 fire pit 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



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.

PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE



DANGER

CARBON MONOXIDE HAZZARD

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

If you smell gas:

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



WARNING

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

Any LP cylinder not connected for use shall not be stored in the vicinity of this or other appliances.

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. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

WARNING

If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

FOR YOUR SAFETY

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



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

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CAUTION

Media such as (i.e. lava rock, lava stones, lava boulders) 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.

TFS SPECIFICATIONS

Model: Natural Gas (NG)	Model: Propane Gas (LP)	A Pan Depth	B Min.Install Length	C Burner Tube	D Floor Level	E Side Wall	F Combustible Ceiling	G Framing Width
FPB-24LTFS-N	FPB-24LTFS-P	4"	28.250"	24"	15"	17"	44"	7"
FPB-30LTFS-N	FPB-30LTFS-P	4"	34.250"	30"	15"	17"	44"	7"
FPB-36LTFS-N	FPB-36LTFS-P	4"	40.250"	36"	15"	17"	44"	7"

Table 1. Fire Pit Dimensions

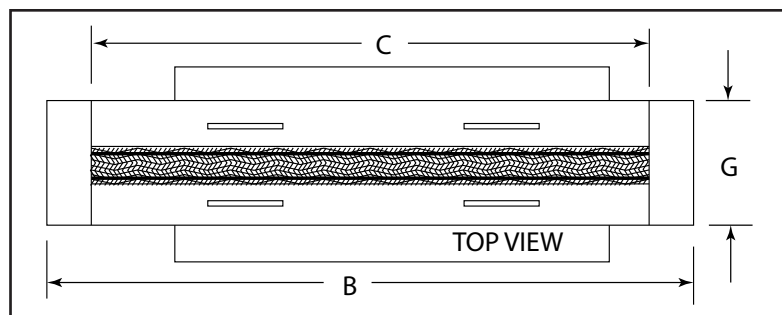
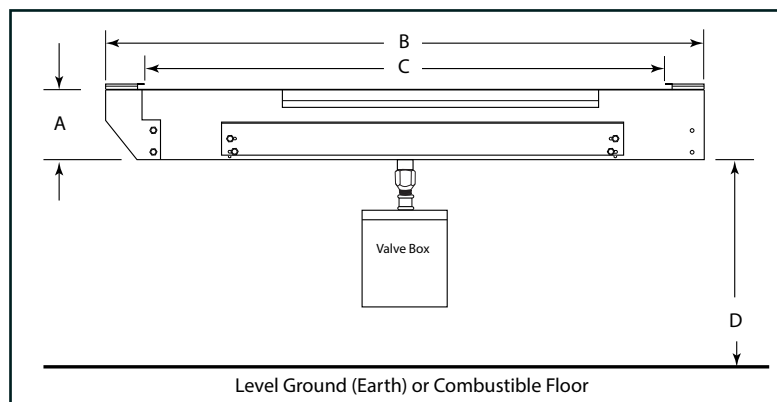


Fig. 1 Fire Pit dimensions; refer to Table 1.

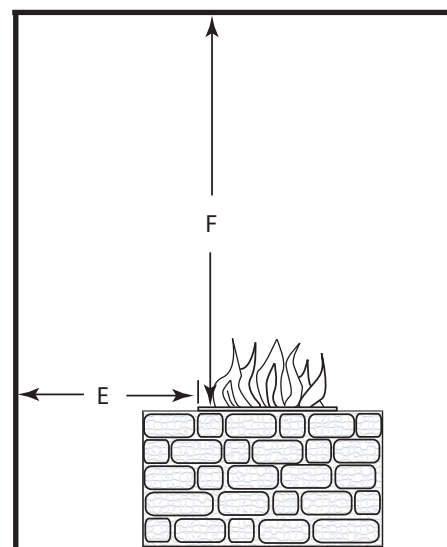


Fig. 2 Clearance to Combustibles (Not to be used in an enclosed space)

NOTE: These fire pits come shipped as Natural Gas or Propane Gas models only. There is no conversion kit available. Ensure you order the specific model for your needs.

Model:	Factory Orifice	NG Btu's High	NG Btu's Low	Low Rate Screw #	Model:	Factory Orifice	LP Btu's High	LP Btu's Low	Low Rate Screw #
FPB-24LTFS-N	#38	35,000	20,000	#35	FPB-24LTFS-P	#50	35,000	22,000	#49
FPB-30LTFS-N	#35	42,000	23,000	#0	FPB-30LTFS-P	#47	42,000	30,000	#49
FPB-36LTFS-N	0.125"	55,000	37,000	#0	FPB-36LTFS-P	#43	55,000	37,000	#40

Table 2. Btu Specifications

Disclaimer: BTU listings are based on 7.0"WC for Natural Gas and 11.0"WC for Liquid Propane (LP) at the inlet side of gas valve. Flex line size and proper gas pipe sizing will also affect BTU. As a result your BTU may vary slightly from Table 2 specifications.

Pressure	NG	LP
Min. Inlet	5.0" WC	10.5" WC
Max. Inlet	10.5" WC	13.0" WC
Normal Inlet	7.0" WC	11.0" WC

Table 3. Gas Pressures



PART IDENTIFICATION & INSTALL DETAILS

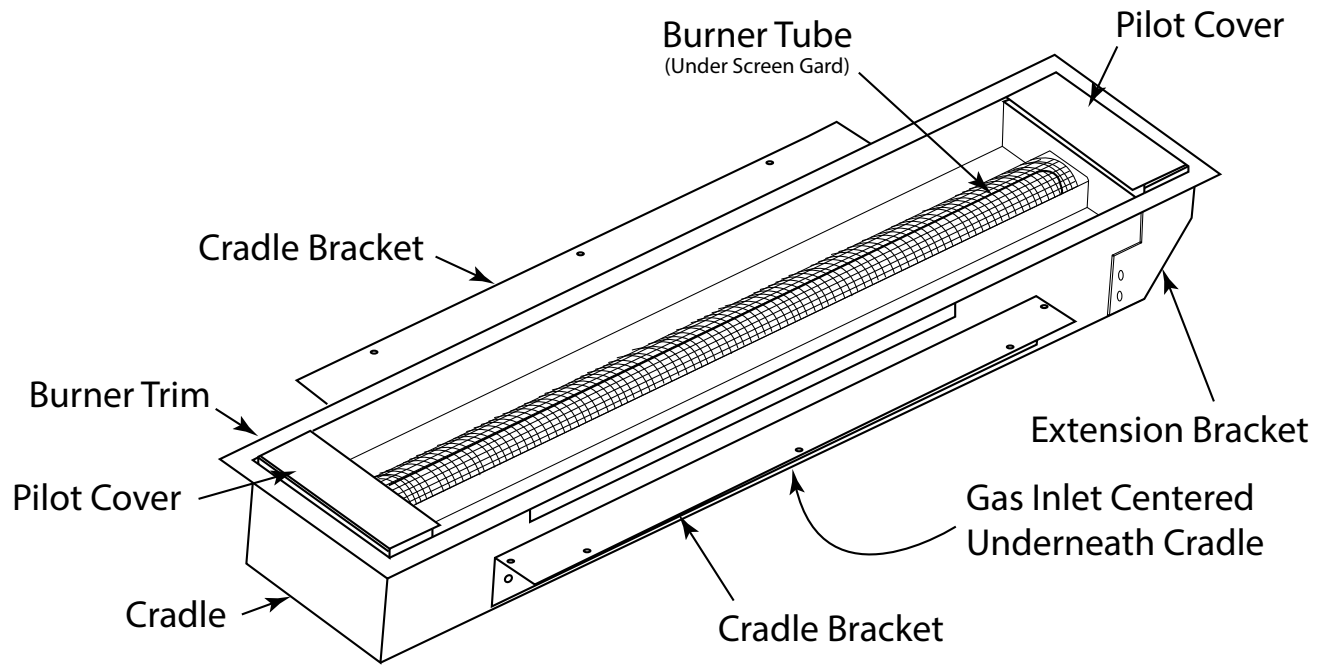


Fig. 3 Part identification

When installing into an opening it is important to note some installation dimensions.

- 1) **Cradle** - is the assembly (outer shell) that all other parts sit inside. It is also the box where all rough framing takes place. See page 3 and 4 for details.
- 2) **Cradle Bracket** - These brackets are 23" long with 2" flanges. Each Linear model comes with two (2) cradle brackets that mount on both sides of the fire pit. The 7" frame clearance allows for the screws securing the cradle brackets. Each cradle bracket can be adjusted 1/2" from the top edge of the cradle or lowered to a total of 2 3/4" from the top edge of the cradle. There are 1/4" increments to adjust the depth of the fire pit to fit most finishing materials (See Fig. 4.).
- 3) **Pilot Covers** - are decorative spacers that provide equal spacing for all models. One side is used as a pilot shield for the pilot system in the Thermocouple Flame Sense (TFS) models.
- 4) **Burner Trim (Optional)** - is 5/8" deep and sits inside the cradle. It has a 3/4" lip around that overlaps the entire perimeter of the cradle for its finished look.

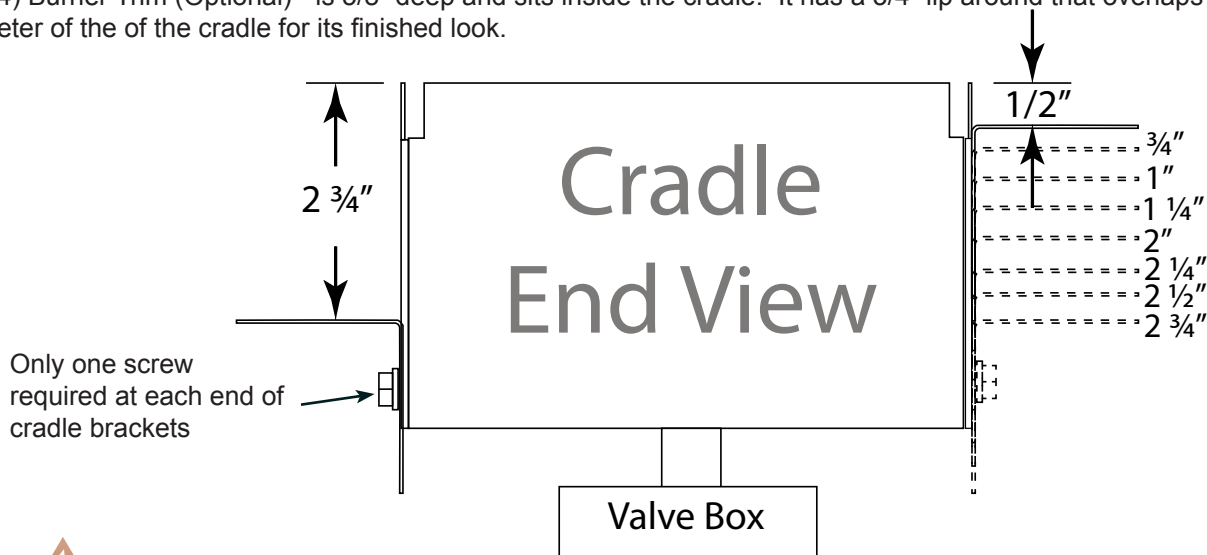


Fig. 4 Cradle bracket depth alignment

WARNING: Proper clearances from combustible, construction materials must be maintained from all sides, top and bottom of this appliance. Use the specifications listed on page 3 for proper clearance to combustibles.

PREPARING A NON-COMBUSTIBLE STRUCTURE

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. 3, 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 $\frac{3}{4}$ " 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.

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 (not supplied) will require a $\frac{1}{2}$ " male flared fitting to enable connection of the stainless steel flex gas line supplied with the fire pit (see figure 4).

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 $\frac{1}{2}$ "psi. (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 of cross ventilation (2 sides) is required to keep the components in good working order.** Use figure 5 as a guide.

HIGH ELEVATION INSTALLATION

This appliance is listed for elevations from 0- 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.

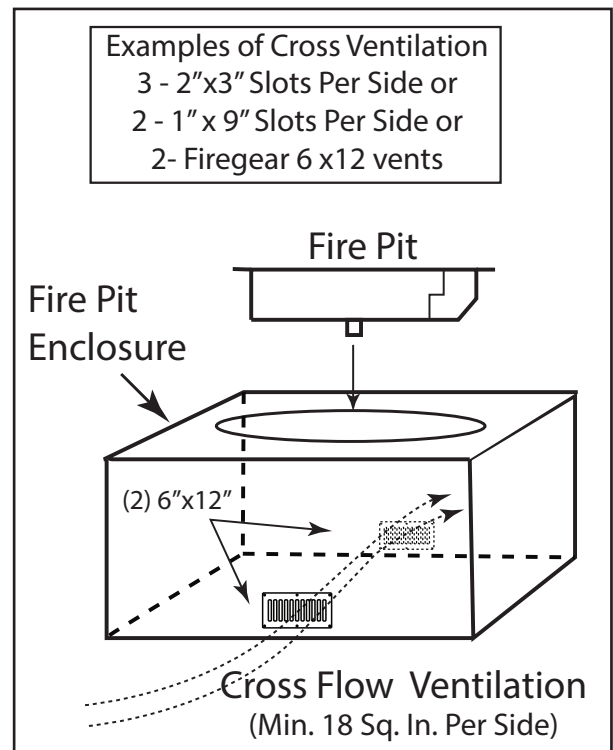


Fig 5. Cross Ventilation Example

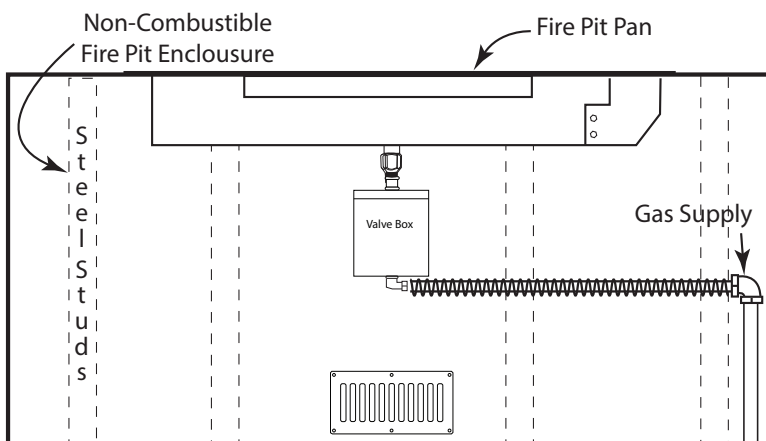
INSTALLATION OF FIRE PIT INTO AN APPROVED ENCLOSURE

REQUIREMENTS

1. 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.
2. 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.
3. Determine the size linear fire pit you are preparing to install (Refer to page 4).
4. You must provide a rectangular cut out to place the fire pit into the non-combustible enclosure.
5. 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.
6. Fire pits create high temperatures, it is very important to have any combustibles at a safe distance.
7. Normal operation of the fire pit is with a battery pack that is supplied with your system (Fig 7). The battery pack has 12-feet of black sleeved wire that is to be passed through the junction box provided. This wire should not be cut or spliced and the junction box can be placed in the facing of the vertical finish of the fire pit, if you place the wire under ground you should install those wires into an approved protective conduit/sleeve material.
8. Fire pit should never be left unattended while in operation. It should always be a safe distance from all trees and combustible landscape materials.
10. Construction of the finished fire pit should be stable and solid. From the bottom of the burner housing (cradle) that holds the burner assembly it requires a minimum of 15-inches to the ground level. See page 3. Drainage is critical to ensure that water does not damage gas valve and components. Never install the fire pit system below grade.
11. **CAUTION: The fire pit enclosure MUST have a minimum ventilation of 18 square inches on each side of the finished enclosure.**
12. Never fill the cavity under and around the valve box with any material, this is a provided air space necessary for ventilation.
13. These products are designed for outdoor use only. They are not approved for any indoor use.
14. This fire pit is designed for use with the following Firegear Outdoors media: FG-Lava Rock (min. 1" diameter), FG-Lava Stones, Firegear Liquid Glass Beads or Firegear Large Broken Glass. Cover the burner completely, so that the burner is not highly visible. Do not cover more than 1" above the top of the burner screen.
15. Gas lines and fittings must be installed into the non-combustible structure. All gas connections must be leak tested following installation of the fire pit. Soapy water leak detection is required before regular use of the fire pit.
16. Do not use burner media (rocks/glass) 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.
17. 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.

NOTE: Gas valve, flexible gas lines and TFS components are supplied. A gas shut-off before the appliance is recommended but not supplied

Fig. 6 Typical installation.



INSTALLATION OF BATTERY PACK

1. During installation the location of the battery pack should be installed in the location that is easy to service. The best location is in the vertical enclosure of the Fire pit. The plastic junction box is provided for the installation of the battery pack.
2. The wiring extending from the valve box is a 12-foot special 4-pin connector that connects to the battery pack and (2) two additional wires with ¼" female connectors. A complete wiring diagram (Fig.13) is located on page 13.
3. Feed all wires into the plastic junction box and connect special 4-pin plug into back of the battery pack. Connect ¼" female spade connectors to solenoid wires matching color, red-to-red and black-to-black.
4. Install the (4) AA batteries in to the battery compartment shown in Fig 7. Double check to ensure the slide switch is in the Latching Solenoid position on the battery pack. Then snap cover plate in place as shown in Fig.8.

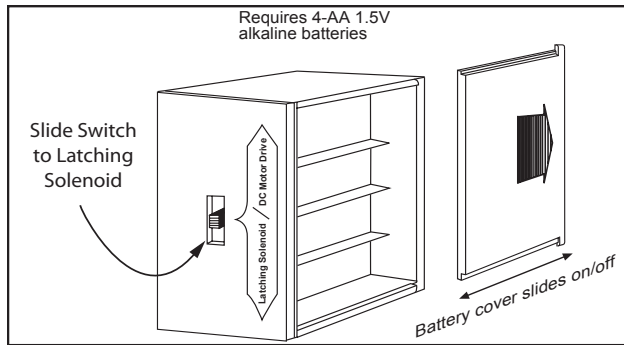


Fig. 7. Slide switch on latching solenoid

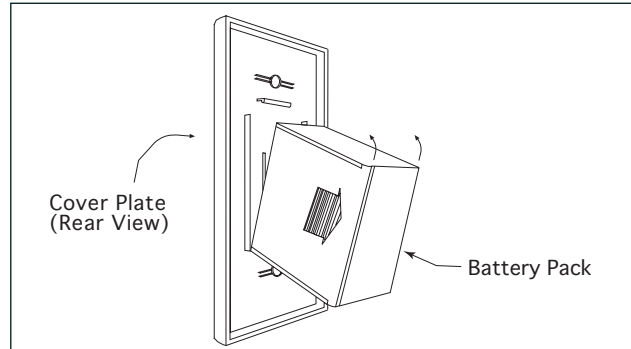


Fig. 8 Cover plate installation

5. Reinstall the battery pack into the plastic junction box, line up the two holes in the cover and install white screws provided. Batteries can be changed or installed by removing the two screws that hold the cover plate battery pack in place. Remove assembly, slide cover away from the cover plate and install the (4) four AA batteries.
6. Be sure the batteries are installed positive-to-positive and negative-to-negative. If one battery is installed wrong the system will not operate.
7. Once the fire pit is installed into the enclosure, the burner and control system should be tested before the media (rocks/glass) is installed.

INSTALLATION OF BATTERY INTO TRANSMITTER

You have one handheld transmitter and you will need to install the included (12-volt battery) into the transmitter. On the backside of the transmitter, push the cover away from the case. Place the battery into the compartment matching positive-to-positive and negative-to-negative. To ensure the battery is properly installed push any button on the transmitter and you will see a red LED light at the top of the transmitter glow. The red LED light will only be lit when a button is pushed.

PILOT ALIGNMENT

The pilot assembly is mounted underneath the pilot cover. Ensure the pilot flame is passing through the ignition hole in the burner pan. Use the Fig. 9 as a guide.

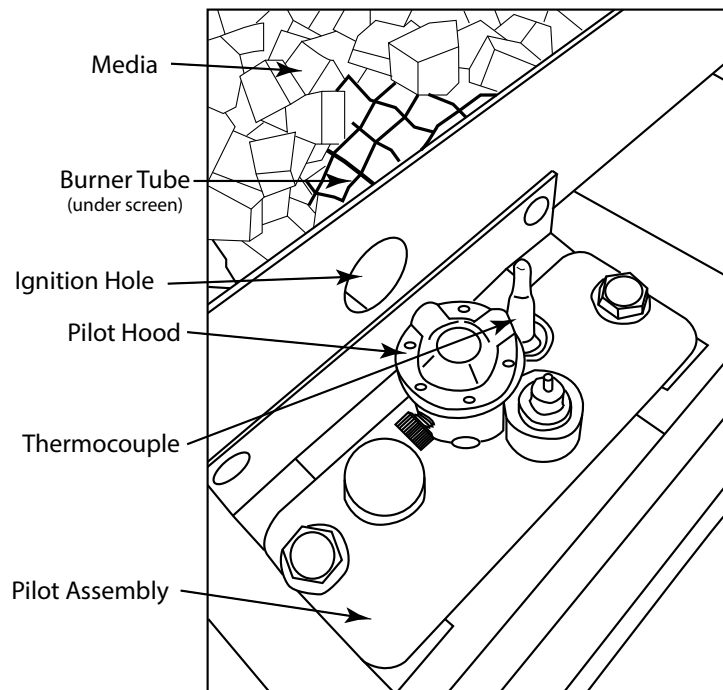


Fig. 9 Proper pilot assembly alignment.

LEARNING THE REMOTE CONTROL TO THE MODULE

The Firegear Outdoors fire pit comes standard with one remote controlled transmitter. The handheld remote is shipped with this system are already learned (programmed) to the module inside the control box.

Additional transmitters can be learned to this electronic module; up to a total of three Firegear Outdoors transmitters are available. Contact Firegear Outdoors to discuss additional transmitter options or see the accessory page of this instruction manual.

Learning the new transmitters is simple, but will require pressing the learn button on the module. You should learn any new transmitters before the final installation of the fire pit. Follow the steps below:

1. Remove the two screws securing the cover on the control box (See Fig. 10). The cover will slide down exposing the gas valve and control module.
2. Find the black module attached to the inside of the control box. Locate the "Learn Button" on the bottom of the module.
3. Once the Learn button is located, press and release the button once. You will hear a beep indicating that the module is ready to receive a transmitter code (See Fig. 11)
4. Take the transmitter and press the OFF button. You will hear a series of rapid beeps indicating the module has accepted the new code.

NOTE: A maximum of three (3) codes can be programmed to the module. After a total of three (3) codes have been programmed the memory is full and will not accept any additional codes. To clear all codes, press and hold the learn button for 10 seconds. The module will beep three (3) times indicating the memory is clear of all codes. After codes have been cleared see Step #3 above to re-learn transmitter.

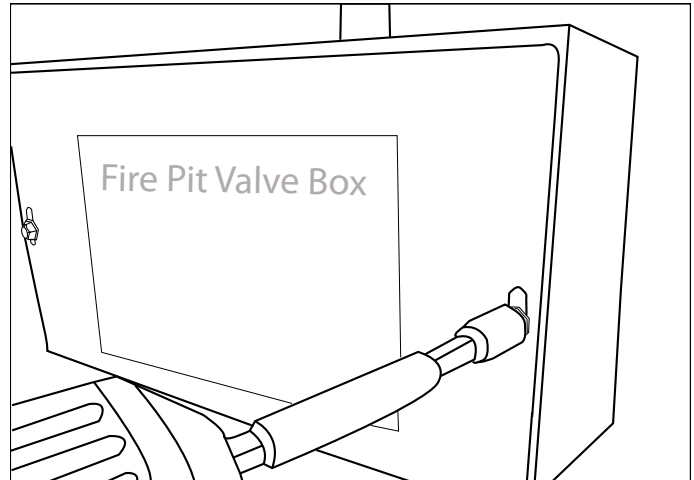


Fig. 10 Removing the cover from metal box.

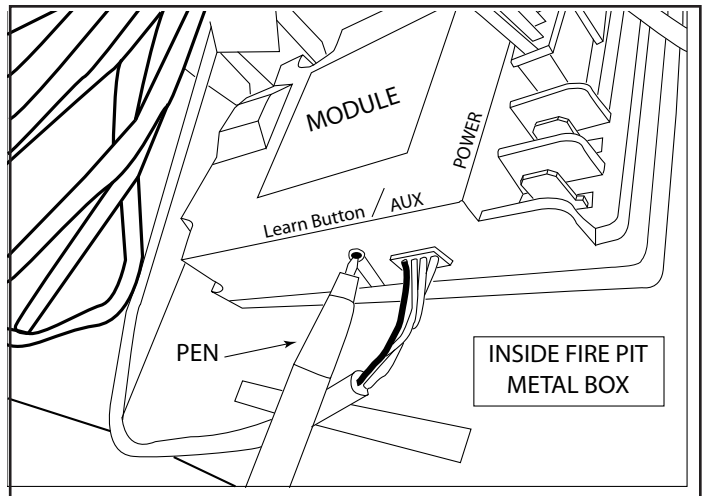


Fig. 11 Learn button location

INSTALLING PILOT COVER AND PILOT SHIELD

Final preparations will require you to install the pilot cover and pilot shield. They are wrapped in a protective material to prevent scratches and are inside the carton of the fire pit.

After you fire tested the fire pit unwrap the pilot cover and pilot shield. The pilot cover will sit into place inside each end of the cradle. The pilot shield then slides into the slots of the pilot cover and becomes a heat shield when the pilot is burning for TFS models. **NOTE:** If you do not have a TFS system the pilot cover and pilot shield are required to be installed on a MT model for a finished look.

Ensure the stainless steel screen is covering the burner as shown.

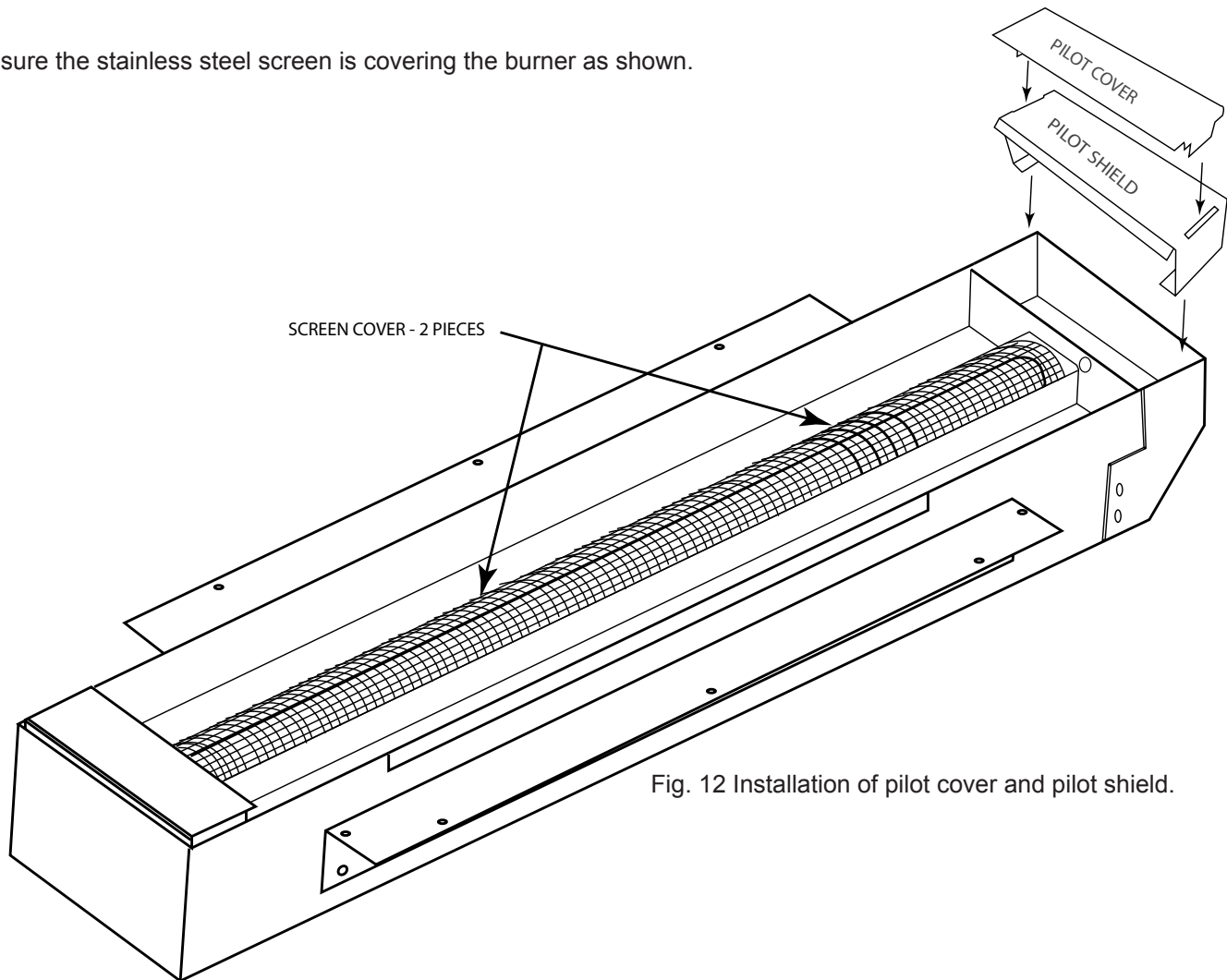


Fig. 12 Installation of pilot cover and pilot shield.

INSTALLING MEDIA

Install media into the burner pan. Ensure the media is lava rock, large broken glass or lava stones for proper operation. Be sure media is free of any excessive dust. This prevents the burner pan weep holes from being plugged and holding water. Loose fitting media is important to ensure robust flames.

Completely cover the burner with media but do not make the depth greater than 1-inch overtop of the burner port holes. **IMPORTANT: Do not place media under the screen cover. It must be free of any debris to operate properly.**

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.

LIGHTING INSTRUCTIONS

READ ALL WARNING AND SAFETY INFORMATION ABOVE BEFORE ATTEMPTING TO LIGHT FIRE PIT

TURNING ON FIRE PIT

1. Ensure you have leak tested the fire pit before operating. Turn main gas supply ON.
2. Ensure batteries are installed in battery pack and switch is on Latching Solenoid.
3. Press the **ON** button on the transmitter. You will hear the ignitor probe will begin sparking for up to 20 seconds and the fire pit will turn ON.
4. If the fire pit does not light the module will “beep” one time every second indicating an ignition error. This is a hard lockout. If this occurs press the **OFF** button on the remote control and repeat step 1-3.
5. If fire pit does not light after second try turn main gas OFF, wait 5 minutes and repeat steps 1-3.

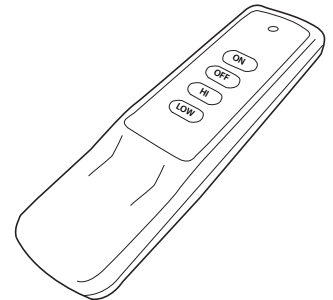


Fig. 12 Transmitter

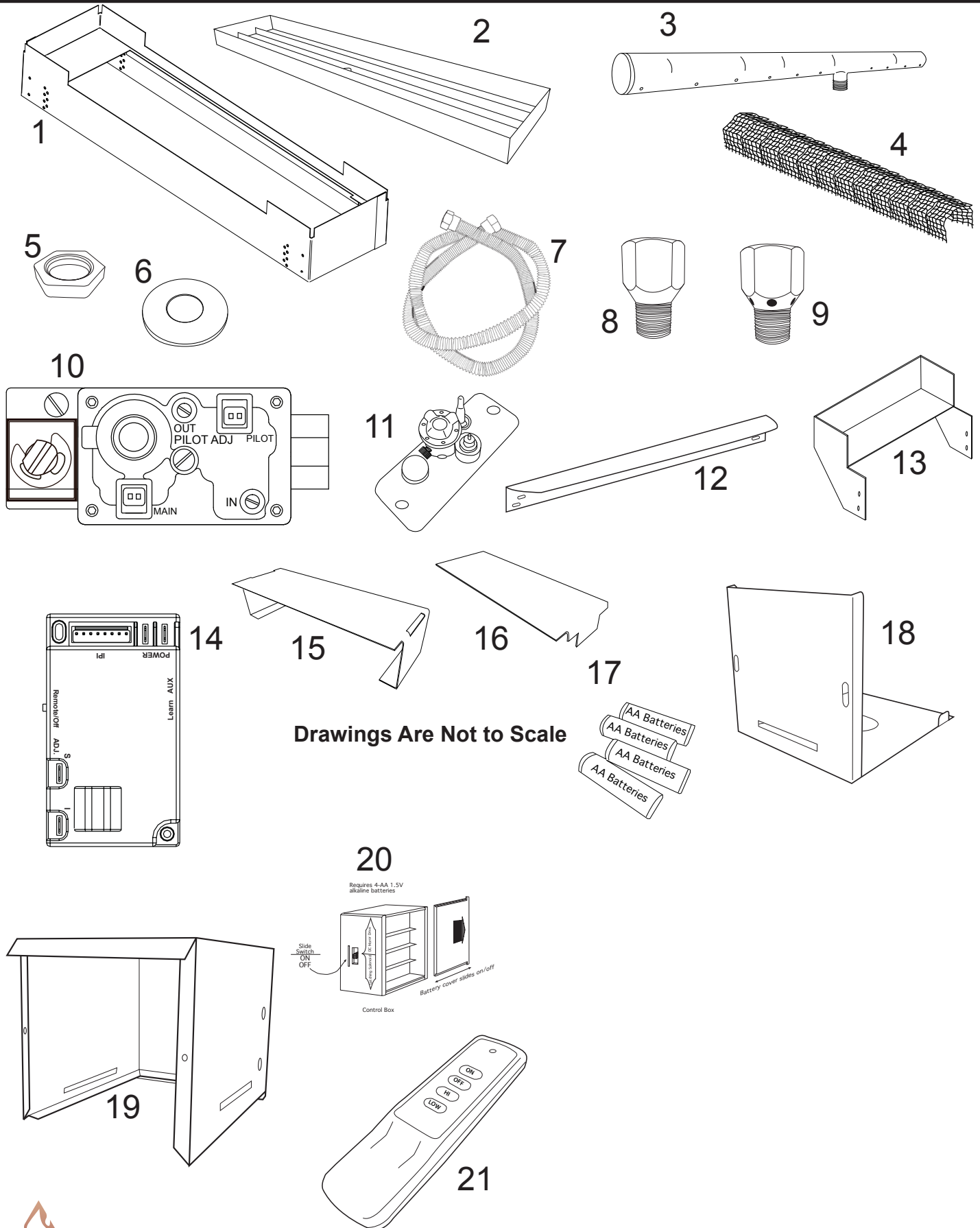
NOTE: It may take several cycles of ON/OFF to purge the airflow from the gas lines. The direct spark ignition will turn OFF after 20 seconds if the burner does not light after which you will need to press transmitter OFF button then back ON to initiate ignition again.

Flame height can be adjusted HI and LO. After the fire pit is operating press the handheld transmitter HI or LO. The transmitter defaults to the HI setting when initially lighting the fire pit each time or if attempting to re-light but will remember the last setting used and change back to that last setting in approximately 5 seconds after lighting.

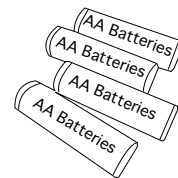
TURNING OFF FIRE PIT

1. To turn OFF the fire pit press the OFF button on the transmitter. Fire pit will turn OFF.
2. After fire pit has completely cooled off install cover.

TFS REPLACEMENT PARTS



Drawings Are Not to Scale



TFS REPLACEMENT PARTS

Item	Description	Qty.	Part Number
1	24" Linear Burner Cradle	1	CRADLE-L24
1	30" Linear Burner Cradle	1	CRADLE-L30
1	36" Linear Burner Cradle	1	CRADLE-L36
2	24" Linear Burner Pan	1	PAN-L24
2	30" Linear Burner Pan	1	PAN-L30
2	36" Linear Burner Pan	1	PAN-L36
3	24" Linear Burner Tube	1	B-L24
3	30" Linear Burner Tube	1	B-L30
3	36" Linear Burner Tube	1	B-L36
4	24" Linear Burner Guard	1	GUARD-L24
4	30" Linear Burner Guard	1	GUARD -L30
4	36" Linear Burner Guard	1	GUARD-L36
5	½" NPS Brass Mounting Nut	1	105-8
6	7/8" Flat Washer/Spacer	4	ST3-113-1026
7	1/2" Flex Gas Line (46-inch Length)	2	T-200-9898-46
8	Air Shutter Orifice NG (for 24" Natural Gas Models)	1	OAS-NG38
8	Air Shutter Orifice NG (for 30" Natural Gas Models)	1	OAS-NG35
8	Air Shutter Orifice NG (for 36" Natural Gas Models)	1	OAS-NG125
9	Air Shutter Orifice LP (for 24" Propane Gas Models)	1	OAS-LP50
9	Air Shutter Orifice LP (for 30" Propane Gas Models)	1	OAS-LP47
9	Air Shutter Orifice LP (for 36" Propane Gas Models)	1	OAS-LP43
10	Electronic IPI Gas Valve with Solenoid	1	AF-4025DSILSS36
11	Pilot Assembly	1	PILOTO23300-206
12	Linear Burner Cradle Bracket	2	CRADLEBRACKET-L
13	Linear Burner Ext Bracket	1	EXTBRACKET-L
14	Ignition Module	1	VCS-5000MODTC
15	Linear Burner Pilot Shield	2	PILOTSHIELD-L
16	Linear Burner Pilot Cover	2	PILOTCOVER-L
17	AA Batteries 1.5 Volt (used in battery pack)	4	BATTAA
18	Valve Box Stainless Steel Lid	1	FIREPITMETALBOXCO
19	Valve Box Stainless Steel	1	FIREPITMETALBOX
20	Battery Pack (with 12-foot 4-Pin, 4-wire harness, cover plate and 12-foot red & black 2-wire harness for solenoid)	1	AF-4000BP12
21	ON/OFF HI/LO Transmitter	1	RCAF-3TX
22	Transmitter Battery (not shown)	1	BATT12VOLT
23	Stainless Thread Cutting Screws #10-24x ½" (not shown)	14	ST3-113-1028
24	½" Cast Iron Coupler (not shown)	1	ST3-093-1029
25	Gas Valve 8-Pin Wiring Harness (not shown)	1	AF-40008PIN12WH/2
26	Plastic Electrical Gang Box with Tabs (not shown)	1	JUNCTIONBOX
27	12-inch, 8-Pin Wire Harness (not shown)	1	AF-40008PIN12WH2
28	½" NPT Male to Male Close Nipple (not shown)	1	ST3-093-1025
29	½" NPT Male to ½" Male Flare Fitting (not shown)	1	U1-8D-S
30	Red Silicone "O" Ring (not shown)	1	ORING

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. Carbon (soot) may build up on the surface of logs (if installed) during heavy use. Sooting may also occur periodically under the pilot cover. To clean, brush off with a dry bristle brush or cloth. Keep soot away from clothing or furniture.
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.

TROUBLE SHOOTING

FAULT CODES

The VCS-5000MODTC control module has built-in error detection for several common operating fault conditions. When the control module detects an error, it will emit a series of beeps. The beeping pattern will help to determine the cause of the operating fault.

Ignition Safety (Protection for Ignition system):

Error Code: One beep every one second.

Description of Fault: Warn users if the pilot is not successfully ignited in 20 seconds.

How to Clear: Press OFF then ON buttons to re-attempt ignition.

What to Check:

1. Ensure gas supply is turned ON.
2. Ensure that the gas line is purged of air. Air is common in the gas line if the appliance has just been installed, has been disconnected then re-connected to the gas line, or if the appliance has been unused for an extended period of time.
3. Ensure there is no blockage in the gas line.
4. Make sure that the flame is properly contacting the thermocouple on the pilot assembly and check for soot build-up. Clean soot if present.
5. Ensure orange/white leads from module are plugged into the "PILOT" connection on the valve body.
6. Ensure green/white leads from module are plugged into the "MAIN" connection on the valve body.
7. Verify lead from pilot assembly is connected to the "I" terminal on the module.
8. Verify lead from flame sensor on electrode assembly is connected to the "S" terminal on the module and ground terminal is connected to ground.
9. Verify that the black ground lead from the module is connected to a proper ground on the appliance and check for frayed or pinched wires on the sensor wire lead.

Sensor Safety (Protection for Flame sensor):

Error Code: 4 Beeps every one second (Constant beeping)

Description of Fault: Warn users the flame sensor detects a flame already present when ignition sequence is initiated. Also if thermocouple is not given enough time to cool off (30 seconds or more) before re-lighting appliance.

How to Clear: Press OFF then ON buttons to re-attempt normal ignition.

What to Check:

1. Allow thermocouple to cool off minimum of 30 seconds.
2. Check if flame is actually present when valve is turned OFF (if so, replace valve).
3. Check to ensure ground wire from thermocouple and module are connected to gas valve.
4. If 3-probe ignitor is exposed to excessive moisture/water it will need 24-48 hours to dry out.
- 6.



Thermal Safety (Overheat Protection):

Error Code: 4 Beeps every 2 seconds.

Description of Fault: Warn users that the modules internal temperature exceeds 170°F.

How to Clear: Module's internal temperature must cool to below 160°F and then press ON button.

What to Check:

1. Ensure that there is proper ventilation to the control module.
2. Is module (inside valve box) located in unapproved location, too close to burner?
3. Move to cooler location.

Wireless Remote Transmitter Will Not Operate Appliance

1. Make sure that the transmitter is within the 25-foot operational range of the control module.
2. Ensure batteries in transmitter are fully charged and properly installed.
3. If using the battery pack, ensure batteries are fully charged and properly installed. Also, make sure the battery pack's 4-pin connector is securely connected to the battery pack and control module.
4. If using optional AC adapter, ensure that the AC adapter leads are securely attached to "POWER" connection on the control module. Also, ensure that the AC adapter is connected to a live 120VAC power source.
5. Ensure "Remote/Off" switch on control module is set to "Remote".
6. Ensure the control module has learned the transmitter's security code (learning section pg. 8).
7. Make sure that the remote transmitter is not placed/mounted to a metal surface, which will reduce the operating range.
8. Make sure that there is not a large metal obstruction between the remote transmitter and the control module.

Ignitor Sparks at Pilot Hood Frequently During Operation

1. The control module will generate a spark at the ignitor electrode to the pilot hood if the system is in the ON position, but does not light; thermocouple may not be hot enough or generating enough millivolts.
2. Make sure that the tip of the thermocouple is clean. Soot buildup will insulate the thermocouple and will not allow for proper flame sensing.
3. Make sure that wind does not blow the pilot flame out. The pilot hood and the media (rocks, glass, etc.) provides shielding from the wind. Ensure that the pilot hood and media are properly positioned per the instructions. If wind is too strong, and the pilot flame can not maintain contact the thermocouple properly, the appliance should not be operated.

Flame Modulation Will Not Work or Works Backwards

1. Ensure that the black and red leads from the battery pack are securely connected to the red and black leads from the Hi/Lo latching solenoid located on the valve body (red to red and black to black).
2. Verify that the selector switch on the battery pack is set to LATCHING SOLENOID only.
3. Check functionality with all transmitters to determine if there is an issue with the main control system or an individual transmitter. If the issue is with an individual transmitter, make sure that the batteries in both the transmitter and battery pack are installed properly and fully charged.

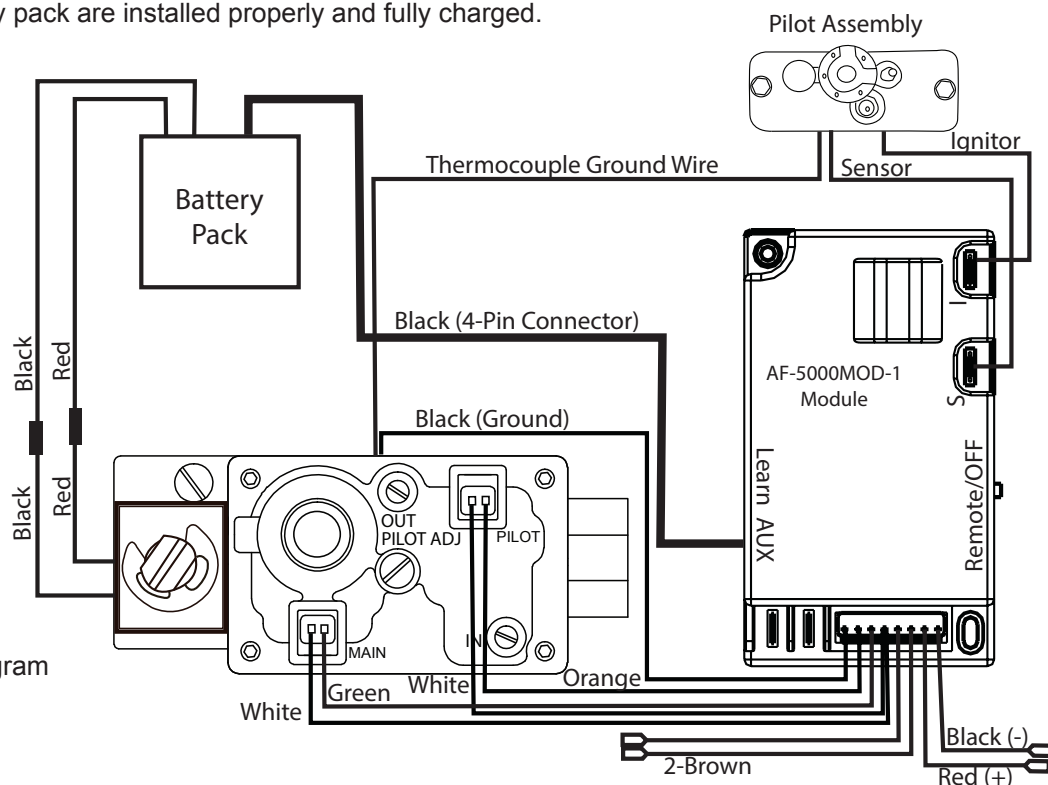
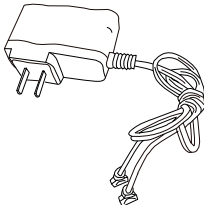
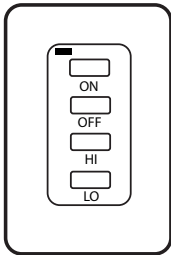
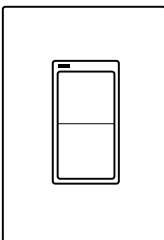
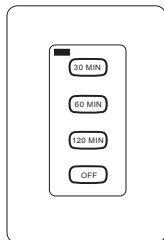


Fig. 13 Wiring Diagram

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>Firegear Outdoors Media</p> <p>Lava Rock - 1" to 2" size Lava Stones - 1" to 2" size Glass Beads - Assorted Colors Large Crushed Glass - Assorted Colors</p>	<p>Model: AF-4000ADP24 (80) optional 7.5VDC transformer (24" leads) eliminates the use of battery power.</p> 	<p><u>LP CONVERSION KIT</u></p> <p>THERE IS NO LP CONVERSION KIT AVAILABLE THESE MODELS. YOU MUST ORDER THE FIRE PIT DIRECT FROM THE FACTORY AS PROPANE.</p>
<p>MODEL: 1322-WT Wireless wall switch with ON/OFF/HI/LO</p> 	<p>MODEL: 1001D-A Wireless wall switch with ON/OFF ONLY</p> 	<p>MODEL: TMR-AF1 4-Button Timer with 30/60/120/OFF Minutes</p> 
<p>Windshields</p> <p>Models: GSW-3812: 38" long x 12 7/8" wide x 7 1/2" tall GSW4312: 43 1/2" long x 12 7/8" wide x 7 1/2" tall</p>	<p>Stainless Steel Trim</p> <p>Models: FPB-24LMT-N TRIM - L24 FPB-30LMT-N TRIM - L30 FPB-36LMT-N TRIM - L36</p>	<p>Home Automation System</p> <p>Model: AF-4000HAT Enables the fire pit to operate with a home automation device.</p> <p>Vent Kits Model: VENT-KIT-8x12 (provides 18-sq.in. per side of enclosure)</p>

FOR TECHNICAL SERVICE, CALL: (855) 498-8324

Firegear Outdoors
9230 Conservation Way
Fort Wayne, IN 46809
For Sales: (888) 672-8929

WEB SITE: www.firegearoutdoors.com



LIMITED WARRANTY

Skytech Products Group (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/Non-Commercial Applications

Stainless Steel Components	5-Years
Gas Valve, Spark Ignitor & Electronic Parts	2-Years
G90 Galvanized Pans	3-Years
Gas Logs	5-Years
Glass Windshield	1-Year
Glass Media	5-Years
Controls	5-Years
RTF Enclosure	5-Years
Lava Rock & Lava Stones	No Warranty

Commercial Applications

Stainless Steel Components	1-Year
Gas Valve, Spark Ignitor & Electronic Parts	1-Year
G90 Galvanized Pans	1-Year
Gas Logs	1-Year
Glass Windshield	1-Year
Glass Media	1-Year
Controls	1-Year
RTF Enclosure	1-Year
Lava Rock & Lava Stones	No Warranty

End User must provide a bill of sale, canceled check, or payment record from the end user to verify purchase date and to establish 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 proven to be defective under normal use and service. Before returning any parts, contact our Technical Service Department for a Return Materials Authorization (RMA) number. All warranty claims must be made by the OEM / Distributor / Dealer account on behalf of the end user. You may contact Technical Service at (855) 498-8324.

All approved returned defects must be confirmed by our Technical Service Department. If the 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.

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

This 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 over-heating, exposure to chemicals (including salt), either directly or in the atmosphere, or very high humidity, is not covered by this Limited 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 products. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusions 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 no such representations are binding. REV. 3-2-16





Having problems getting the fire pit to operate? Don't leave the job site!
We want to help! Call 855.498.8324 for Technical Support
between the hours of 8:00AM to 5:00PM EST.
Text photos to 260.255.5750 or e-mail photos to support@skytechpg.com.

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.