

## MODELS

Natural Gas	Description	Propane
	<b>Match Light (MT)</b>	
FPB-34DBSMT-N	34" Round Flat Disc & Spur Kit	FPB-34DBSMT-P
FPB-44DBSMT-N	44" Round Flat Disc & Spur Kit	FPB-44DBSMT-P
	<b>Thermocouple Manual Safety (TMS)</b>	
FPB-34DBSTMS-N	34" Round Flat Disc & Spur Kit	FPB-34DBSTMS-P
FPB-44DBSTMS-N	44" Round Flat Disc & Spur Kit	FPB-44DBSTMS-P
	<b>Thermocouple Flame Sense (TFS)</b>	
FPB-34DBSTFS-N	34" Round Flat Disc & Spur Kit	FPB-34DBSTFS-P
FPB-44DBSTFS-N	44" Round Flat Disc & Spur Kit	FPB-44DBSTFS-P

## Outdoor Flat Disc 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 space 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 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. 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 no store or use gasoline or other flammable vapors and liquids in the vicinity of this or another 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

**NOTE:** This installation instruction covers (3) different ignition systems: Match Light (MT), Thermocouple Manual Safety (TMS), or Thermocouple Flame Sense (TFS). Look for your specific section in the table of contents.

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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.

## SPECIFICATIONS

Model: Natural Gas (NG)	Model: Propane Gas (LP)	A Disc Depth	B Pan Diameter	C Min./Max. Install Opening	D Ground Level	E Side Wall	F Combustible Ceiling	G Combustible Floor
FPB-34DBSMT-N	FPB-34DBSMT-P	.0598	34"	24" - 31"	8"	19"	69"	18"
FPB-44DBSMT-N	FPB-44DBSMT-P	.0598	44"	24" - 40"	8"	19"	69"	18"
FPB-34DBSTMS-N	FPB-34DBSTMS-P	.0598	34"	24" - 31"	8"	19"	69"	18"
FPB-44DBSTMS-N	FPB-44DBSTMS-P	.0598	44"	24" - 40"	8"	19"	69"	18"
FPB-34DBSTFS-N	FPB-34DBSTFS-P	.0598	34"	24" - 31"	18"	19"	69"	18"
FPB-44DBSTFS-N	FPB-44DBSTFS-P	.0598	44"	24" - 40"	18"	19"	69"	18"

Table1. Disc Dimensions

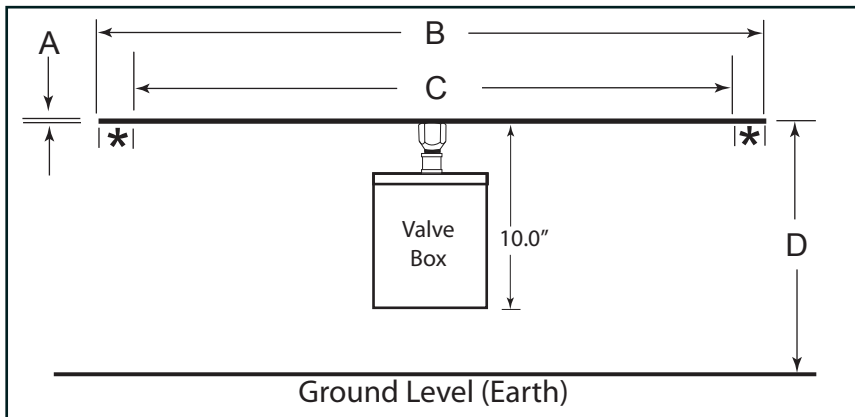


Figure 1. Flat Disc Dimensions; refer to Table 1.

\*( 2.00" minimum overlap per side required to secure disc)

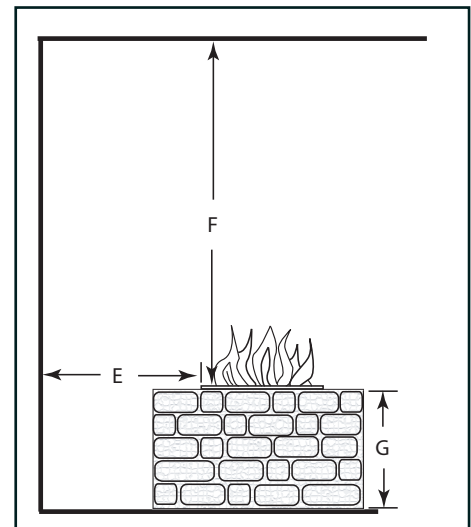


Figure 2. Clearance to Combustibles  
(Not to be used in an enclosed space)

Model: Round Disc NG	NG Factory Orifice	NG Btu's High	NG Btu's Low	Model: Round Disc LP	LP Factory Orifice	Btu's High	LP Btu's Low
FPB-34DBSMT-N	#29	65,000	N/A	FPB-34DBSMT-P	#41	65,000	N/A
FPB-44DBSMT-N	#29	65,000	N/A	FPB-44DBSMT-P	#41	65,000	N/A
FPB-34DBSTMS-N	#29	65,000	N/A	FPB-34DBSTMS-P	#41	65,000	N/A
FPB-44DBSTMS-N	#29	65,000	N/A	FPB-44DBSTMS-P	#41	65,000	N/A
FPB-34DBSTFS-N	#7	105,000	51,000	FPB-34DBSTFS-P	#31	100,000	49,500
FPB-44DBSTFS-N	#7	105,000	51,000	FPB-44DBSTFS-P	#31	100,000	49,500

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 burner orifice. Flex line size and proper gas pipe sizing will also affect Btu's. As a result your Btu's may vary slightly from Table 2 specifications.

Pressure	NG	LP
Min. Inlet	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



**WARNING:** Proper clearances from combustible 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 as this may prevent proper ventilation (Fig.1, pg. 3). **Ensure proper water drainage is also incorporated into the fire pit enclosure.**

### HARD PIPING TO FIRE PIT WITHOUT GAS PROXIMITY

**NOTE:** We recommend using 3/4" black iron pipe; however please refer to the NFPA54 (National Fuel Gas Code) for proper pipe sizing when exceeding 20-feet in length for fire pits rated above 100,000 Btu's.

1. Turn **OFF** gas supply system. **NOTE:** All gas connections (except for brass to brass) require the following. Clean pipe threads using either a wire brush or steel wool. Apply pipe sealant to the fittings before making any connection.  
**BE CAREFUL!** Ensure all gas connections are snug, but do not over tighten!
2. Extend the gas supply system using minimum of 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 1/2" male flared fitting to enable connection of the stainless steel flex gas line supplied with the fire pit.

### **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 1/2" psig (3.5kPa)

### VENTILATION FOR NON-COMBUSTIBLE ENCLOSURE

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

### 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. Refer to NFPA54 Table E.1.1(d) for high altitude orifice sizing.

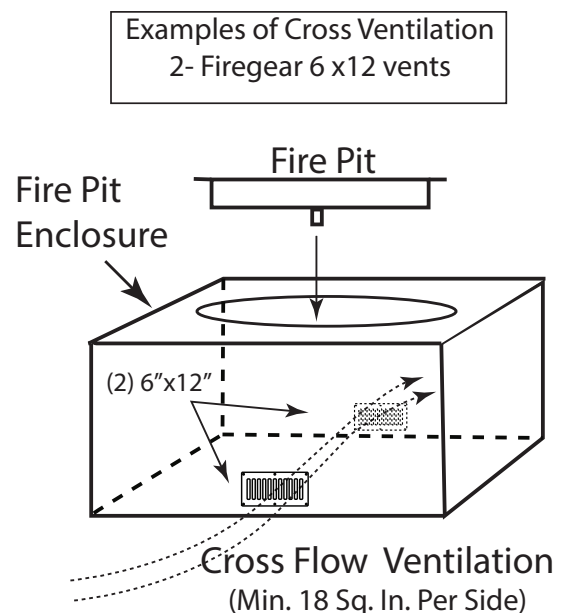


Figure 3. Cross Ventilation Example



# Section A

## Match Light (MT) Installation

## 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 3/4" black iron pipe; however please refer to the NFPA54 (National Fuel Gas Code) for proper pipe sizing when exceeding 20-feet in length for fire pits rated above 100,000 BTU's.
3. Determine the size of the round fire pit you are preparing to install (Refer to page 3).
4. You must provide a round opening cut-out opening to place the flat disc onto the non-combustible enclosure. Do not exceed the maximum opening from Table 1, dimension B located on page 3.
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. Refer to page 3.
7. **CAUTION: A minimum of 18 square inches of cross ventilation (per side) is required to keep the inside of the enclosure dry. We recommend installation of a VENT-KIT-6x12. See accessory section.**
8. These products are designed for outdoor use only. Not approved for any indoor use.
9. This fire pit is designed to have lava rock completely covering the spur burner, so that the burner is not visible. Do not cover more than 1" above the top of the burner. When purchasing lava rock use 1" to 2" diameter as a base to cover the flat disc.
10. Gas lines and fittings must be installed in to the non-combustible structure. All gas connections must be leak tested before installation of the fire pit. Soapy water leak detection is required before regular use of the fire pit.
11. Do not use material that will absorb moisture over time and will not release this moisture quickly. Moisture can boil in this material and can rapidly break apart and cause damage or personal injury.
12. 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.
13. **Ensure proper water drainage is also incorporated into the fire pit enclosure.**

Flat disc's are typically used with landscape blocks. The illustrations below show examples of possible installations.

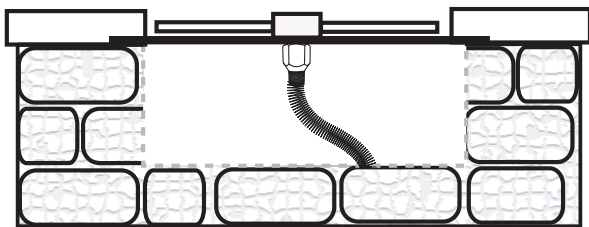


Fig.4 Shows disc secured under stone caps.

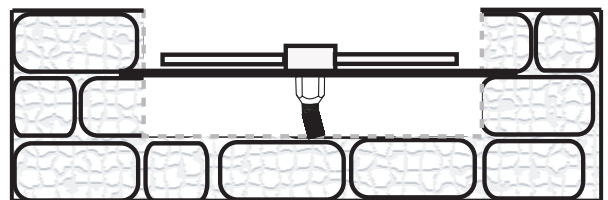


Fig. 5 Shows disc secured between layer of block.

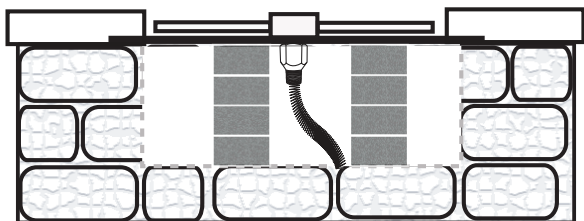


Fig. 6 Shows blocks supporting center of disc.

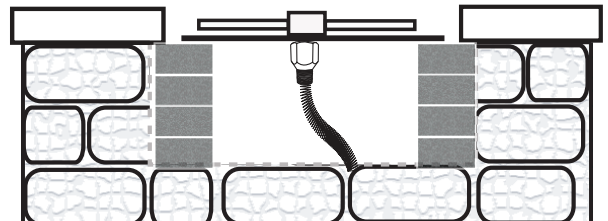
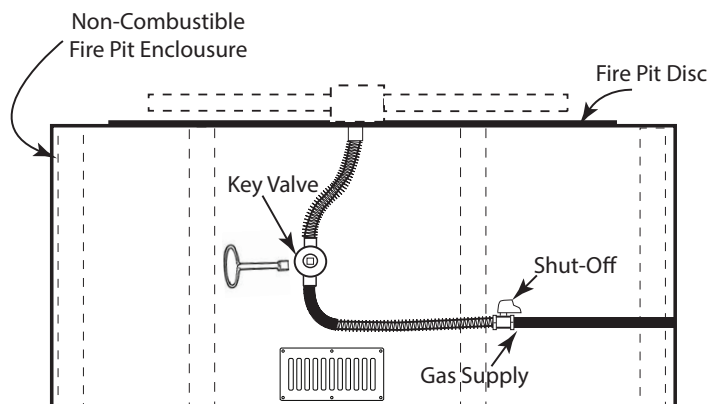
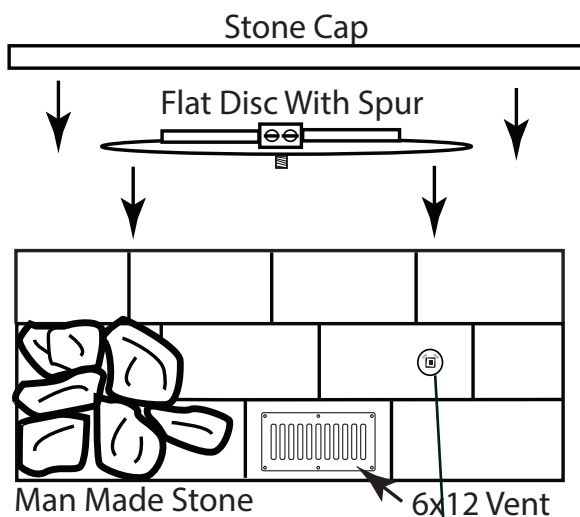


Fig. 7 Shows blocks supporting an oversized opening.

## Cement Block Illustration



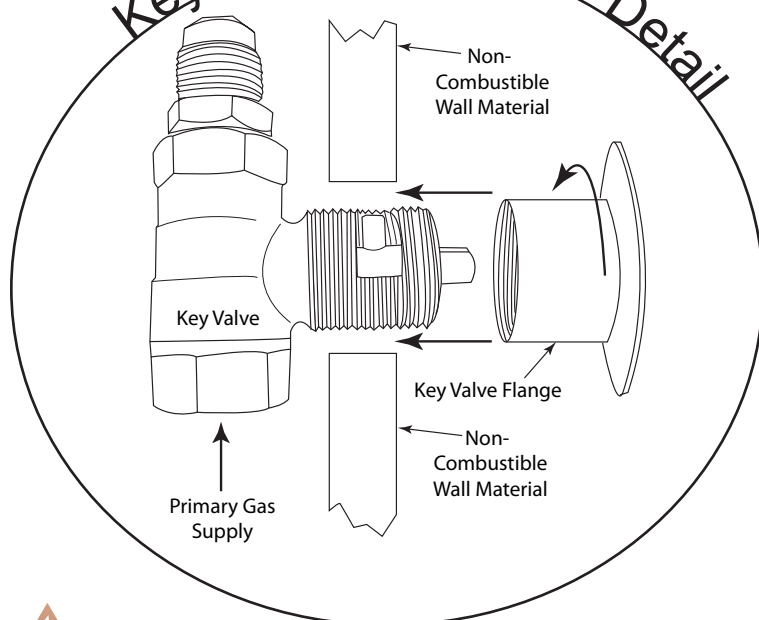
**NOTE:** Key valve and flexible gas lines are supplied. Gas shut-off is not supplied.

## INSTALLING KEY VALVE

The key valve contents: 1- key valve, 1- key and 1- flange. The valve requires a 1" round clearance hole in the non-combustible enclosure wall. See the instructions supplied with the key valve for more specific details.

**Note:** Be sure to leak test all fitting before operation. Figures 8 shows an example of a typical installation.

## Key Valve Side View Detail



**Note:** A 1¼" x 2" black iron or galvanized coupler/nipple (not supplied) can be used as a spacer between the manual valve and the valve flange to add additional support to hold the manual key valve in place.

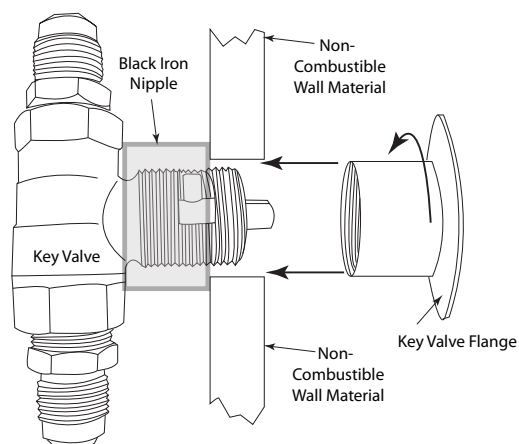


Fig. 8 Typical installations.



## 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

**CAUTION:** Ensure you have leak tested the fire pit before operating.

#### TURNING ON FIRE PIT

1. Insert key into shut-off valve and secure into square end (see figs 9 & 10).
2. Light a long match or butane lighter and hold it near the burner (see fig. 11).
3. Turn the key counter-clockwise in gas valve (until it stops) to allow gas to flow and simultaneously apply the long burning match or Butane lighter as close to the end burner as possible to light the fire pit.
4. Gas should ignite within 10 seconds or less. If fire pit does not light within 10 seconds turn key clockwise to turn **OFF** the gas supply. Ensure there is not too much media on top of the burner that might inhibit gas flow and try again in 5 minutes.

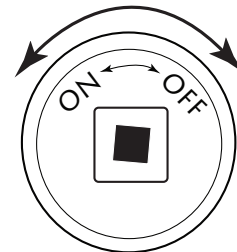


Fig. 9. Key Valve Face

#### TURNING OFF FIRE PIT

1. Insert key into shut-off valve and secure into square end.
2. Turn key clockwise until it stops.
3. After cooling off install cover.

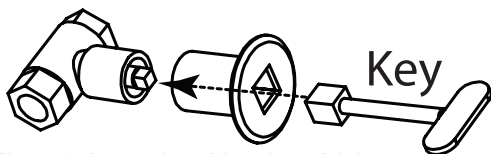


Fig. 10 Inserting Key into Valve

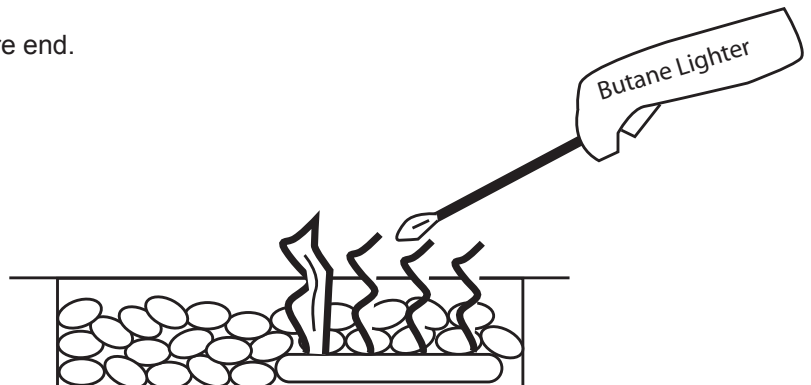


Fig. 11 Lighting fire pit with lighter

## 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 cover/lid for your fire pit to protect it from humid/rainy weather conditions when not in use. Heavy rains/downpours could affect the fire pit operation if not covered; if this occurs ensure you allow the fire pit time to dry out before attempting to operate. **NOTE:** If a combustible type cover is used over the fire pit when not in use be sure to remove it before operation to prevent a severe safety hazard.
5. Over time stainless steel parts can discolor when heated, usually a golden or brown hue. This discoloration is normal and does not affect the performance of the appliance.

## MT TROUBLE SHOOTING

<u>Symptom</u>	<u>Remedy</u>
Fire pit won't light	<ol style="list-style-type: none"> <li>1. Bleed gas line.</li> <li>2. Ensure all gas supply lines are turned ON.</li> <li>3. Ensure there is not too much media overtop of burner; it can inhibit gas from flowing.</li> <li>4. Check gas pressure.</li> </ol>
Low flame	<ol style="list-style-type: none"> <li>1. Ensure the base media is at least 1 to 2-inches in diameter and top media is no more than 1-inch over top of burner.</li> <li>2. Ensure all shut-off valves and key valve is fully open. See page 8; figure 7.</li> <li>3. Check for spider webs inside the orifice.</li> <li>4. Check gas pressure.</li> </ol>
Water in my fire pit	<ol style="list-style-type: none"> <li>1. Excess dust/sand material from media may be blocking the weep holes to relieve water. 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/lid to keep excessive water out of the fire pit.</li> </ol>
Whistling Noises	<ol style="list-style-type: none"> <li>1. Check media to ensure it is not too tightly packed around the burner tube.</li> <li>2. Ensure a non-whistling flex connector is being used.</li> </ol>

# Section B

## Thermocouple Manual Safety (TMS) Installation

# 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 3/4" black iron pipe; however please refer to the NFPA54 (National Fuel Gas Code) for proper pipe sizing when exceeding 20-feet in length for fire pits rated above 100,000 BTU's.
3. Determine the size of the round fire pit you are preparing to install (Refer to page 3).
4. You must provide a round opening out to place the flat disc onto the non-combustible enclosure. Do not exceed the maximum opening from Table 1, dimension B located on page 3.
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. Refer to page 3.
7. **CAUTION: A minimum of 18 square inches of cross ventilation (per side) is required to keep enclosure dry. We recommend installation of a VENT-KIT-6x12. See accessory section.**
8. These products are designed for outdoor use only. Not approved for any indoor use.
9. This fire pit is designed to have lava rock completely covering the spur burner, so that the burner is not visible. Do not cover more than 1" above the top of the burner. When purchasing lava rock use 1" to 2" diameter as a base to fill the flat disc.
10. **Gas lines and fittings must be installed in to the non-combustible structure. All gas connections must be leak tested before installation of the fire pit. Soapy water leak detection is required before regular use of fire pit.**
11. Do not use material that will absorb moisture over time and will not release this moisture quickly. Moisture can boil in this material and can rapidly break apart and cause damage or personal injury.
12. 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.
13. **Ensure proper water drainage is also incorporated into the fire pit enclosure.**

Flat disc pans are typically uses with landscape blocks. The illustrations below show examples of possible installations.

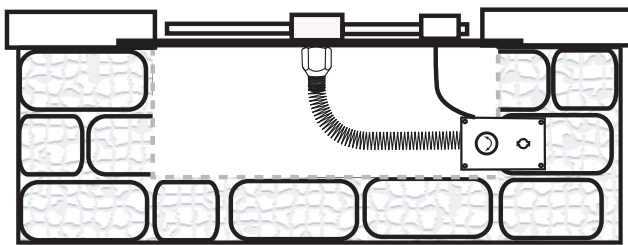


Fig. 12 Shows disc secured under stone caps.

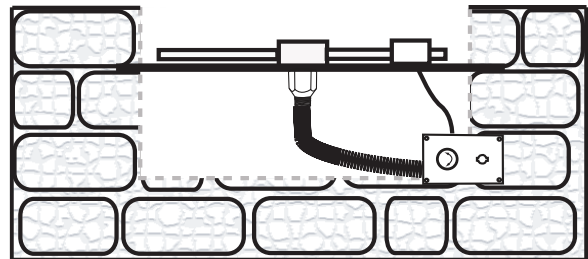


Fig.13 Shows disc secured between layer of block.

**NOTE:** Methods of supporting the center of the disc underneath or supporting an oversized opening are shown on page 6 in figures 6 & 7.

## INSTALLING GAS VALVE

The gas valve is secured into the mounting plate with a nut. Figure 12 shows an example of a typical installation.

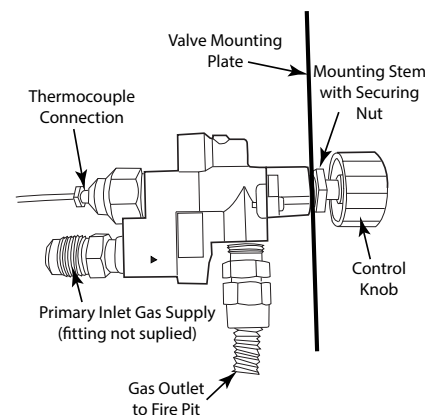


Fig. 14 Gas valve components.

**NOTE:** Key valve and flexible gas lines are supplied. Gas shut-off is not supplied.

Illustration depicts flat disc (shaded area) under top course of patio block. Refer to page 3 for ventilation requirements.

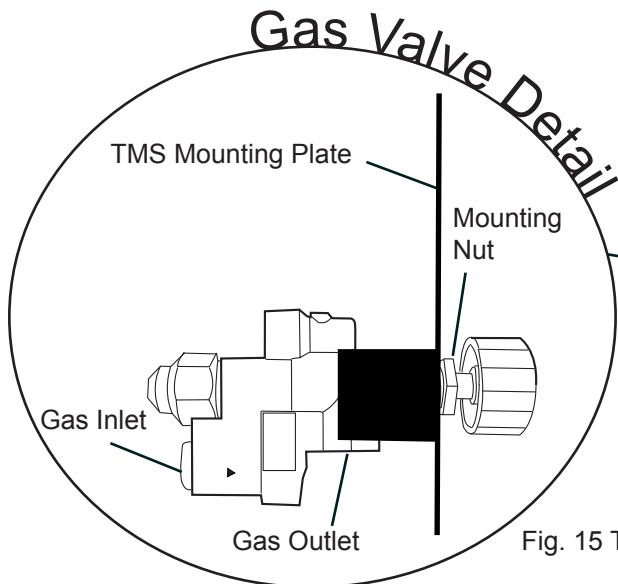
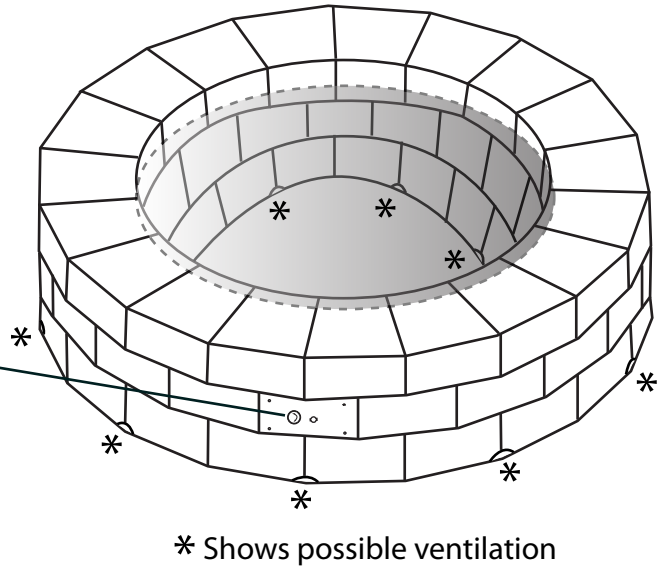


Fig. 15 Typical installation



\* Shows possible ventilation

See optional mounting method of TMS face plate on back of this manual.

### IGNITOR ALIGNMENT

It is important check that the ignitor probes be properly aligned over-top of the burner port holes and did not move during shipping. Use the Fig.16 as a guide. Before lighting remove the screen cover of the ignition hood to burner and ensure the thermocouple is directly over-top of a burner port hole. The sparking probes and the thermocouple must be in the path of a flame to ignite the gas for proper ignition of the flame. Replace the screen cover and follow the operating instructions.

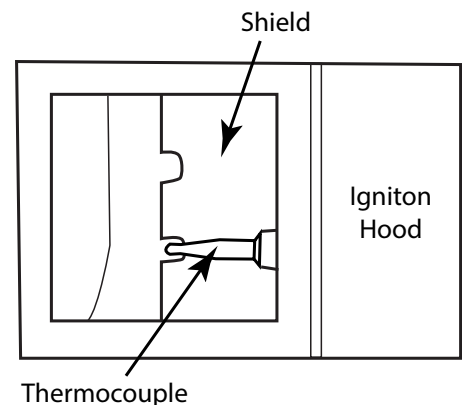


Fig. 16 Proper alignment of thermocouple.

### INSTALLATION OF LAVA ROCK/MEDIA INTO BURNER PAN

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

**IMPORTANT:** Do not place rock over top or under the screen cover. The screen must be free of any debris to ensure proper lighting of burner and good flame sense (See fig. 17).

Cover the burner completely with media but do not make the depth greater than 1-inch overtop of the burner portholes.

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

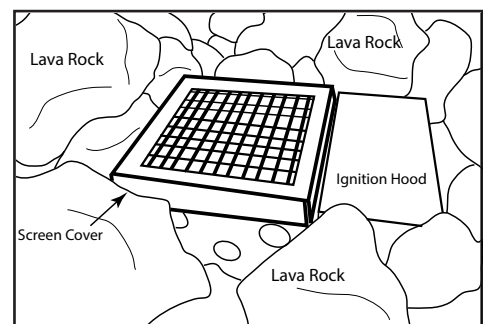


Fig.17 Keep screen cover exposed

## OPERATION

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

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

### SAFETY WARNINGS

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

### WARNING

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

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

### LIGHTING INSTRUCTIONS

#### TURNING ON FIRE PIT

**CAUTION:** Ensure you have leak tested the fire pit before operating.

1. Light a long match or Butane lighter and hold it near the burner (see fig. 18).
2. Rotate control knob on gas valve in the counter clockwise to ON position. (See Fig 18).
2. Depress control knob inward, push and light the burner at the same time. (See Figures 18 & 19).
3. After the fire pits lights continue to depress control knob for 30 seconds then release knob. If fire pit does not light within 30 seconds, release control knob, turn knob clockwise to turn **OFF** and wait 5 minutes before trying again.
4. Repeat steps 1-3.

#### TURNING OFF FIRE PIT

1. Slight push inward on control knob and turn clock wise until it stops. Fire pit will turn OFF.
2. After cooling off install cover.

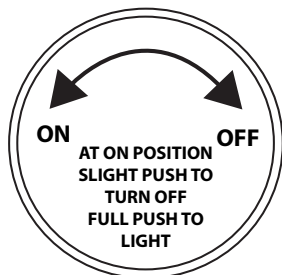


Fig. 18. Gas Valve Knob

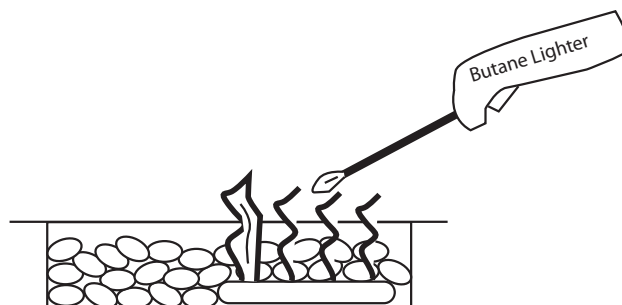


Fig. 19 Lighting with Butane lighter

## 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 cover/lid 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 on the screen of the ignitor hood. 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.

## TMS TROUBLE SHOOTING

<u>Symptom</u>	<u>Remedy</u>
Fire pit won't light	<ol style="list-style-type: none"> <li>1. Bleed gas line.</li> <li>3. Ensure all gas supply lines are turned ON.</li> <li>4. Ensure there is not too much media overtop of burner; it can inhibit gas from flowing.</li> </ol>
Low Flame	<ol style="list-style-type: none"> <li>1. Ensure the base media is at least 1-inch in diameter and top media is no more than 1-inch over top of burner.</li> <li>2. Ensure all shut-off valves and valve is fully open. See page ; figure 14.</li> <li>3. Check for spider webs inside burner orifice.</li> </ol>
Water in my fire pit	<ol style="list-style-type: none"> <li>1. Excess dust/sand material from media may be blocking the weep holes to relieve water. 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/lid to keep excessive water out of the fire pit.</li> </ol>
Whistling Noises	<ol style="list-style-type: none"> <li>1. Check media to ensure it is not too tightly packed around the burner tube.</li> <li>2. Ensure a non-whistling flex connector is being used.</li> </ol>
Fire pit won't stay lit	<ol style="list-style-type: none"> <li>1. Check alignment of thermocouple over rainshield on page 6, figure #5.</li> <li>2. Ensure thermocouple is not screwed too tight into gas valve. It should be finger tight plus a quarter turn with a wrench.</li> <li>3. Ensure thermocouple is clean and free of any debris. Excessive soot can be an issue.</li> </ol>

# Section C

## Thermocouple Flame Sense (TFS) Installation



## 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 3/4" black iron pipe; however please refer to the NFPA54 (National Fuel Gas Code) for proper pipe sizing when exceeding 20-feet in length for fire pits rated above 100,000 BTU's.
3. Determine the size of the round fire pit you are preparing to install (Refer to page 3).
4. You must provide a round opening out to place the flat disc onto the non-combustible enclosure. Do not exceed the maximum opening from Table 1, dimension B located on page 3.
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. Refer to page 3.
7. Normal operation of the fire pit is with a battery pack that is supplied with your system (Fig 18). The battery box 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 control box that houses the gas valve and module, it should be according to specifications on Table #1. **NOTE: Proper drainage is critical to ensure that water does not damage gas valve and components.** Never install fire pit below grade.
11. **CAUTION: The fire pit enclosure MUST have a minimum ventilation of 18 square inches on each side to keep the inside of the finished enclosure dry. We recommend installation of a VENT-KIT-6x12. See accessory section.**
12. The insulation square pad provided with the fire pit is to be placed foil up toward the bottom of pan on top of the valve box.
13. Never fill the cavity under and around the valve box with any material, this is a provided air space necessary for ventilation.
14. These products are designed for outdoor use only. Not approved for any indoor use.
15. This fire pit is designed to have decorative rock, lava rock/media covering the burner, so the burner is not visible. Optional concrete logs can be added to consumers taste. Decorative rock is not provided. When purchasing decorative rock use minimum of 1 to 2-inch diameter rock as a base to fill the burner pan. **DO NOT COVER THE IGNITION HOOD WITH ANY ROCK OR MEDIA.**
16. Gas lines and fittings must be installed in to the non-combustible structure. All gas connections must be leak tested before installation of the fire pit. Soapy water leak detection is required before regular use of the fire pit.
17. Do not use material that will absorb moisture over time and will not release this moisture quickly. Moisture can boil in this material and can rapidly break apart and cause damage or personal injury.
18. 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 the warranty.

Flat disc pans are typically uses with landscape blocks. The illustrations below show examples of possible installations.

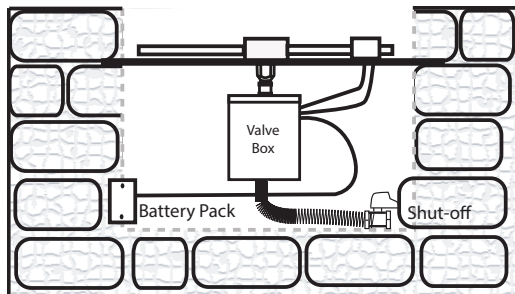


Fig. 20 Typical installation.

**NOTE:** Methods of supporting the center of the disc underneath or supporting an oversized opening are shown on page 6 in figures 6 & 7.

**NOTE:** Gas valve, flexible gas lines and TFS components are supplied. Gas shut-off is not supplied. Battery pack can be installed within the 12-foot wire length. If exposed to the elements a weather proof box is recommended.

### INSTALLATION OF BATTERY PACK

1. During the 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. A weather-proof cover is recommended if battery pack will be exposed to the elements.
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 1/4" female connectors. A complete wiring diagram (Fig.28) is located on page 21.
3. Feed all wires into the plastic junction box and connect special 4-pin plug into back of the battery pack. Connect 1/4" 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 figure 21. 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.22.

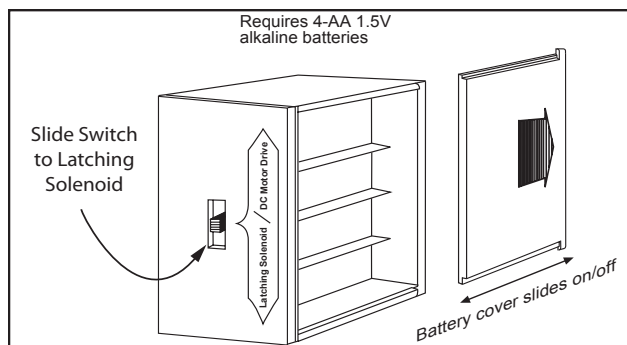


Fig. 21. Slide switch on latching solenoid

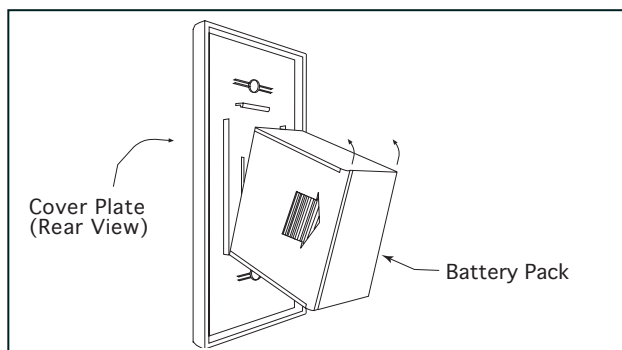


Fig. 22 Cover plate installation

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 (lava rock) 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.

### IGNITOR ALIGNMENT

It is important check that the ignitor probes be properly aligned overtop of the burner port holes and did not move during shipping. Use the Fig. 23 as a guide. Before lighting remove the screen cover of the ignition hood to burner and ensure the spark probes are directly overtop of a burner port hole. The sparking probes and the thermocouple must be in the path of a flame to ignite the gas for proper ignition of the flame. Replace the screen cover and follow the operating instructions.

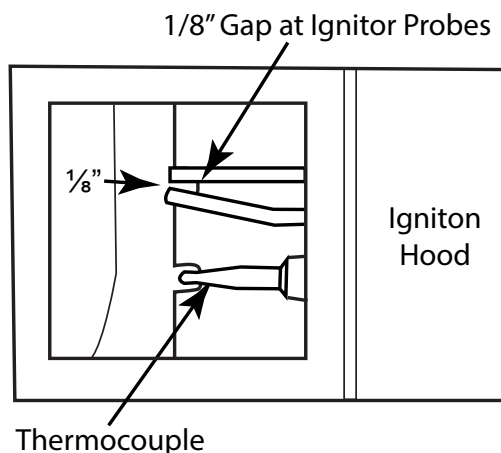


Fig. 23 Proper alignment of probes and thermocouple.

## LEARNING THE REMOTE CONTROL TO THE MODULE

The fire pit is unique that it 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 transmitters are available. Contact Firegear 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. 24). 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. 25)
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 to Step #3 above to re-learn transmitter.

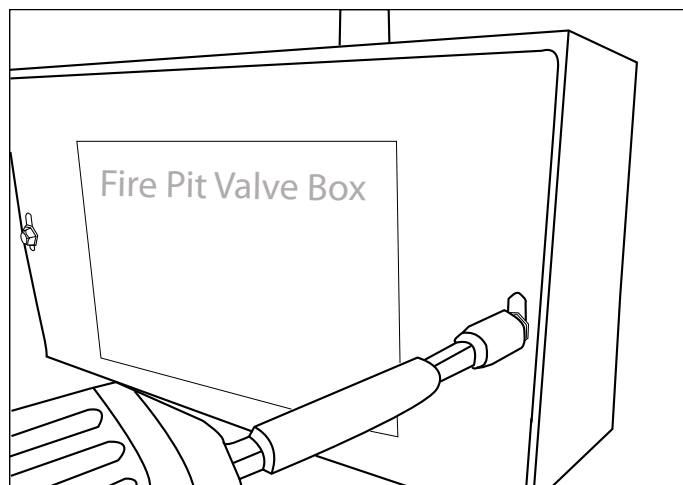


Fig. 24 Removing the cover from metal box.

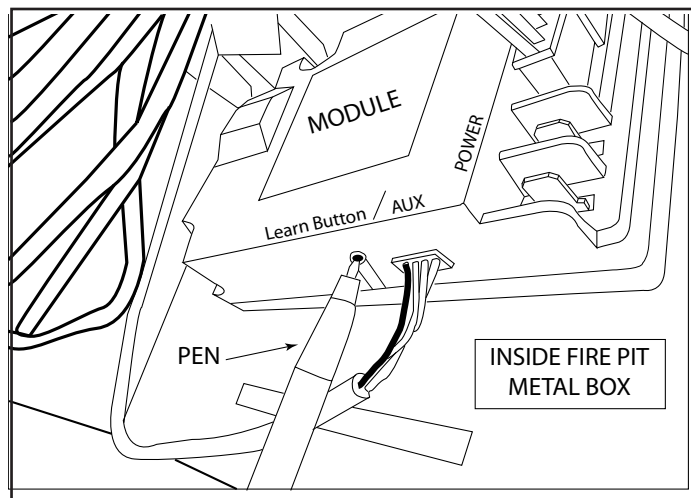


Fig.25 Learn button location

## INSTALLATION OF LAVA ROCK/MEDIA INTO BURNER PAN

Install lava rock/media into the burner pan. Ensure the media is a minimum of 1 to 2-inch diameter for proper operation. **Note:** Do not pour lava rock directly from bag. Media should be placed naturally and NOT packed in tight. Loose fitting is important to ensure robust flames. Be sure rocks are free of any excessive dust. This prevents the burner pan weep holes from being plugged and holding water. **IMPORTANT:** Do not place media over top or under the screen cover. The screen must be free of any debris to ensure proper lighting of burner and to allow proper heating of the thermocouple.

Cover the burner completely with media but do not make the depth greater than 1-inch overtop of the burner portholes.

Decorative glass may be loosely scattered on top of the lava rock. Do NOT cover the stainless steel screen cover with any rock or glass. It must be free an any media/debris to operate properly.

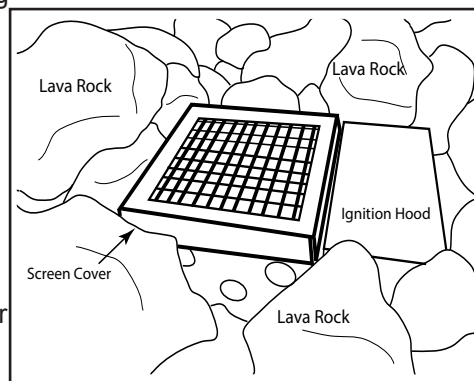


Fig. 26 Keep screen cover exposed

## 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 (Fig. 27) You will hear the ignitor probe begin sparking for 15-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.

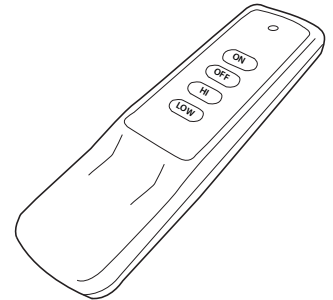


Fig. 27 Transmitter

**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 15 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 is HI and LO. By pressing the buttons on the handheld transmitter you can operate ON-OFF-HI-LO. The transmitter defaults to the HI setting when initially lighting the fire pit each time 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.

## TROUBLE SHOOTING FOR TFS MODELS

### **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 15 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 sensor electrode is clean. Soot buildup will insulate the electrode and will not allow for proper flame sensing.
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 igniter on electrode 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.
9. Verify that the black ground lead from the module is connected to a proper ground on the appliance.

#### ***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. This fault will also occur if the flame sensor is shorted to ground.

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

**What to Check:**

1. Check if flame is actually present when valve is turned OFF (if so, replace valve).
2. Ensure that the flame sensor electrode is not touching the burner or another metal surface.
3. Check to ensure ground wire from thermocouple and module is 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. Replace electrode assembly.
7. Replace module.



**Error Code:** 4 Beeps every 2 seconds.

**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 located in unapproved location, too close to burner?
3. Move to cooler location.

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. 18).
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.

1. The control module will generate a spark at the igniter electrode if the system is in the ON position, but does not sense a flame.
2. Make sure that the flame sensor electrode is clean. Soot buildup will insulate the electrode and will not allow for proper flame sensing.
3. Make sure that wind does not blow the flame off of the flame sensor. The sensor hood and the appliance media (rocks, glass, etc.) provides shielding from the wind. Ensure that the sensor hood and appliance media is properly positioned per the appliance instructions. If wind is too strong, and the flame will not maintain contact with the flame sensor, the appliance should not be operated.

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.

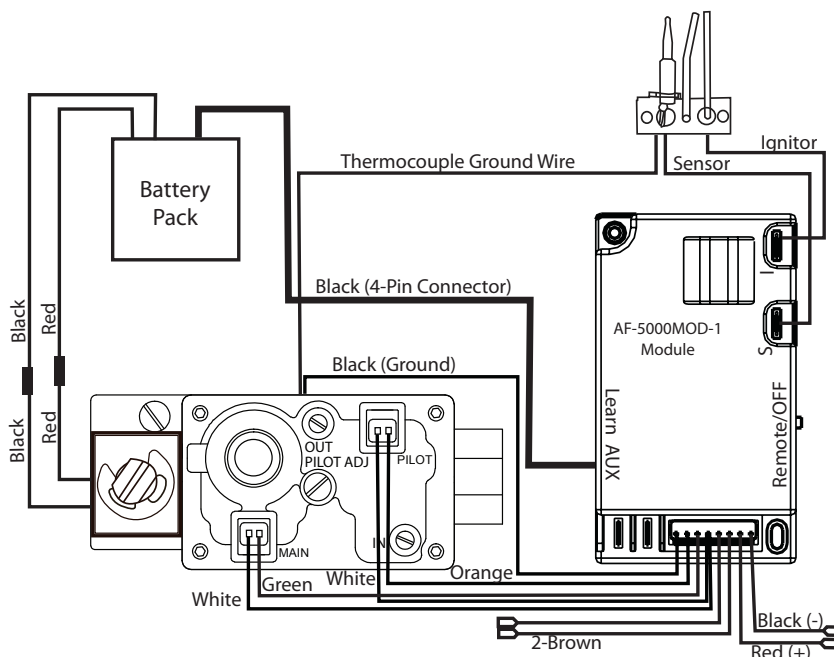


Fig. 28 Wiring Diagram

## ADDITIONAL TROUBLE SHOOTING

Symptom	Remedy
Fire Pit 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. Check alignment of thermocouple (TC) over rainshield on page 17, figure #23. Adjust if needed.</li> <li>5. Check batteries in battery pack. Minimum total voltage to operate should be 5.3 volts.</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 are not installed backwards in battery pack. Check min. voltage of 5.3 volts.</li> <li>3. Ensure battery in transmitter is not installed backwards and at minimum voltage of 9.0 DCV.</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> </ol>
Low Flame	<ol style="list-style-type: none"> <li>1. Ensure the base media is at least 1 to 2-inch in diameter and top media is no more than 1-inch over top of burner.</li> <li>2. Ensure all shut-off valves and valve is fully open. See page 16; figure 20.</li> <li>3. Check for spider webs inside burner orifice.</li> </ol>
Water in my Fire Pit	<ol style="list-style-type: none"> <li>1. Excess dust/sand material from media may be blocking the weep holes to relieve water. 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/lid to keep excessive water out of the fire pit.</li> </ol>
Whistling Noises	<ol style="list-style-type: none"> <li>1. Check media to ensure it is not too tightly packed around the burner tube.</li> <li>2. Ensure a non-whistling flex connector is being used.</li> </ol>
Fire Pit Won't Stay Lit	<ol style="list-style-type: none"> <li>1. Check alignment of thermocouple over rainshield on page 17, figure #23.</li> <li>2. Thermocouple reading should be between 10-20mV. 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 TC.</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 then replace the TC.</li> <li>4. Ensure thermocouple is clean and free of any debris. Excessive soot can be an issue.</li> </ol>

## 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 on the screen of the ignitor hood. 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.

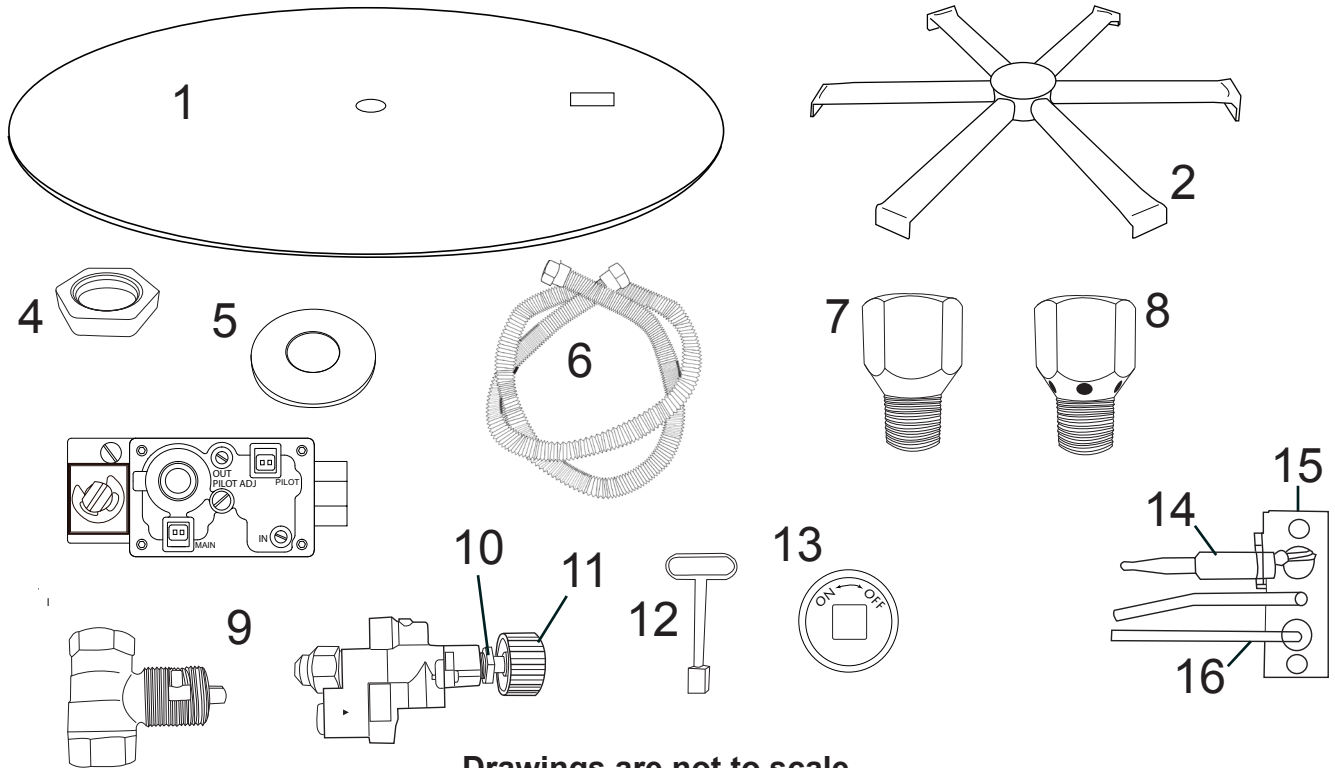


# Replacement Parts

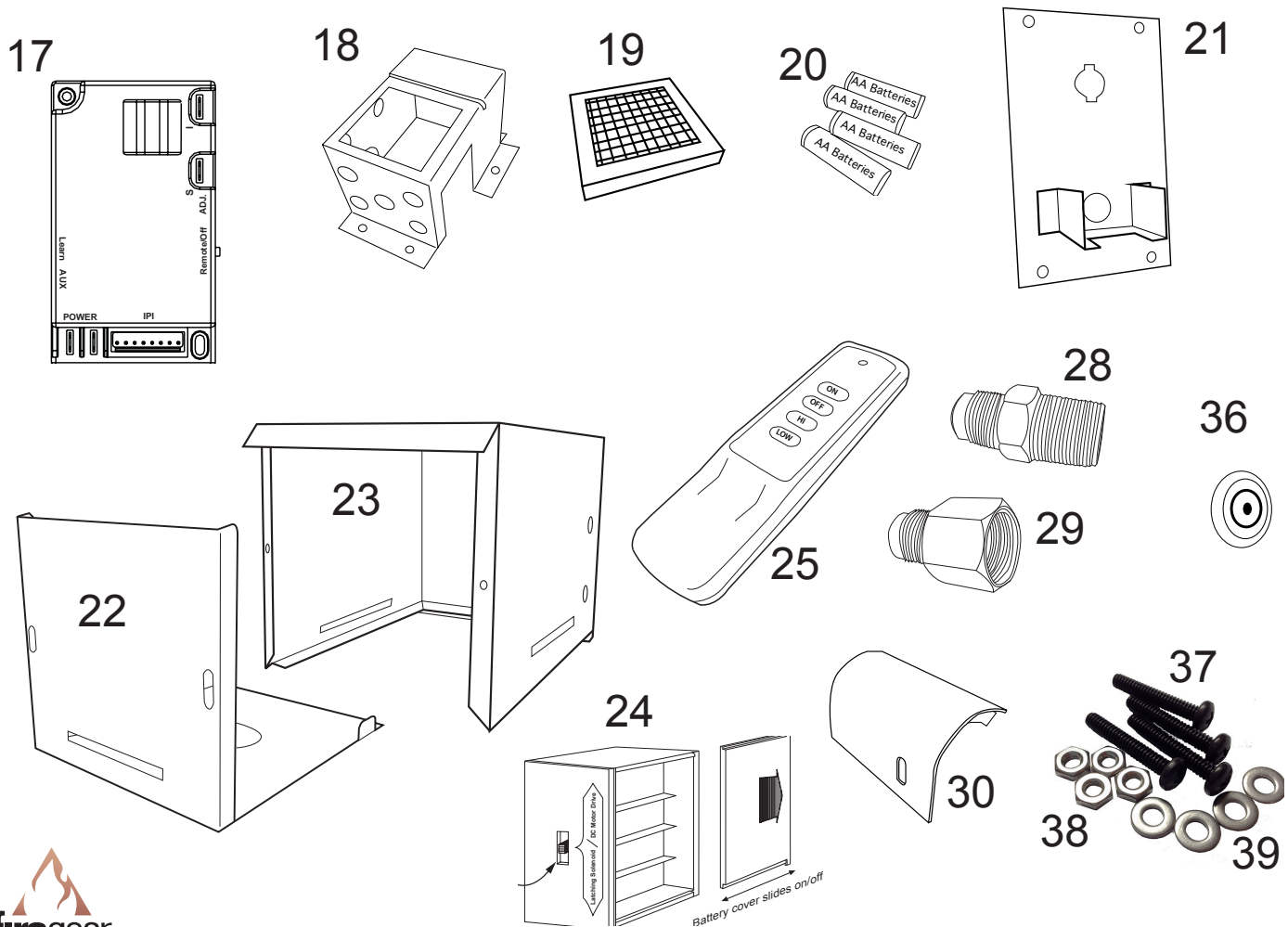
## Accessories



## FLAT DISC REPLACEMENT PARTS



Drawings are not to scale

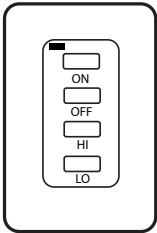
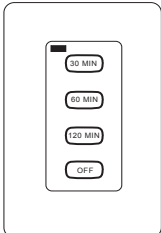
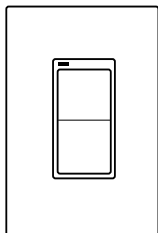

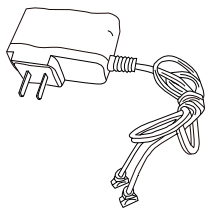


## FLAT DISC REPLACEMENT PARTS

Item	Description	Qty.	Part Number	MT	TMS	TFS
1	34-inch Flat Round Stainless Disc	1	PAN-SS34D	x	x	x
1	44-inch Flat Round Stainless Disc	1	PAN-SS44D	x	x	
2	22-inch Spur (used on all Flat Pans)	1	B-SPUR-22	x	x	x
3	Red Silicone "O" Ring (not shown)	1	ORING			x
4	½" NPS Brass Mounting Nut	1	105-8	x	x	x
5	7/8" Flat Washer/Spacer	1	ST3-113-1026	x	x	x
6	1/2" Flex Gas Line (46-inch Length)	1	T-200-9898-46	x	x	x
7	Orifice Air Shutter NG (Used on MT & TMS Natural models)	1	OAS-NG29	x	x	x
8	Orifice Air Shutter LP (Used on MT & TMS Propane models)	1	OAS-LP41	x	x	x
8	Orifice Air Shutter NG (Used on TFS Natural models)	1	OAS-NG7			x
8	Orifice Air Shutter LP (Used on TFS Propane models)	1	OAS-LP31			x
9	Electronic IPI Gas Valve with Solenoid	1	AF-4026			x
9	Standard Capacity Straight Ball Valve	1	BVS	x		
9	Manual Gas Valve (TMS)	1	ST3-080-1009		x	
10	Gas Valve Mounting Nut (used with TMS valve)	1	ST3-110-1005		x	
11	Manual Gas Valve Control Knob	1	ST3-050-1024		x	
12	8-inch Chrome Key (used with BVS item #9)	1	KEY-PC/8	x		
13	Chrome Flange (decorative cover used with BVS item #9)	1	FP.BV.CR.B	x		
14	Thermocouple for TFS Pilot (Must be ordered with item #15)	1	ST3-040-1023			x
14	Thermocouple for TMS Pilot	1	ST3-040-1025		x	
15	Thermocouple Bracket (Must be ordered with TFS item #14)	1	ST3-100-1054			x
16	Ignitor Probes	1	VCS-5000DSI2P01			x
17	Ignition Module	1	VCS-5000MODTC			x
18	Ignition Hood for Spur Burner	1	SPURHOOD		x	x
19	Mesh Screen Cover	1	ST3-100-1027		x	x
20	AA Batteries 1.5 Volt (used in battery pack)	4	BATTAA			x
21	Valve Mounting Plate (used with item #9)	1	TMSFACEPLATE		x	
22	Valve Box Stainless Steel Lid	1	ST3-100-1033			x
23	Valve Box Stainless Steel		ST3-100-1034			x
24	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			x
25	ON/OFF HI/LO Transmitter	1	RCAF-3TXUNF			x
26	Transmitter Battery (not shown)	1	BATT12VOLT			x
27	Stainless Thread Cutting Screws #10-24x ½" (not shown)	4	ST3-113-1028			x
28	½" NPT to ½" Male Flare Fitting	1	U1-8D-S	x	x	
29	½" NPT Female to Male Flare Fitting	1	U3-8D-S	x	x	
30	Rain Shield	1	RAINSHIELD		x	x
31	1/2" Cast Iron Coupler (not shown)	1	ST3-093-1029			x
32	Gas Valve 8-Pin Wiring Harness (not shown)	1	AF-40008PIN12WH/2			x
33	Plastic Electrical Gang Box with Tabs (not shown)	1	JUNCTIONBOX			x
34	12-inch, 8-Pin Wire Harness (not shown)	1	ST3-042-1001			x
35	½" NPT Male to Male Close Nipple (not shown)	1	ST3-093-1025			x
36	Black Plastic Plug (plugs Piezo hole on item #21)	1	BPFE-15-MM		x	
37	#10-24 x 1.25" Black Oxide Phillips Screw	4	SCREW1024PANBL		x	
38	#1-24 Stainless Nut	4	ST3-113-1020		x	
39	#10 Stainless Flat Washer	4	WASHER10SS		x	
40	Thermocouple/Ignitor/Rainshield Replacement Kit (not shown)	1	TFS-IGNT-ASSEMBLY			x
41	Thermocouple/Rainshield Replacement Kit (not shown)	1	TMS-TC-ASSEMBLY		x	

## 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><i>Lava Stones: 1" to 2" size (15 &amp; 50 lbs)</i> <b>Model:</b> FG-LS-15, FG-LS-50</p>	<p><i>Lava Boulders: 6" to 12" size (30lbs)</i> <b>Model:</b> FG-LB30</p>	<p><i>Lava Rock: 1" to 1½" size (10 &amp; 50 lbs)</i> <b>Model:</b> FG-LAVA-10, FG-LAVA-50</p>
 <p><i>Wireless Wall Switch</i> ON/OFF/HI/LO (TFS models only) <b>Model:</b> 1322-WT</p>	 <p><i>Wireless 4-button Timer</i> 30/60/120/OFF (TFS models only) <b>Model:</b> TMR-AF1</p>	 <p><i>Wireless Wall Switch</i> ON/OFF (TFS models only) <b>Model:</b> 1001D-AF1-TX</p>
<p><i>LP Conversion Kit</i> For use with listed models below. <b>Kit Includes:</b> OAS, rating plate sticker and instructions. <b>Model:</b> LPK#41</p> <p><b>For Use With Models:</b> FPB-34DBSMT-N FPB-34DBSTMS-N FPB-44DBSMT-N FPB-44DBSTMS-N</p> 	<p><b>NOTE: There is no LP conversion kit for Thermocouple Flame Sense (TFS) models. You must order any Propane models directly from the factory.</b></p> <p><i>Shut-Off Valves</i> <b>Model:</b> 01-387 ⅜" OD Flare x ½" FIP <b>Model:</b> 01-487 ½" OD Flare x ½" FIP <b>Model:</b> 01-266 ⅜" OD Flare x ⅜" OD Flare <b>Model:</b> 01-288 ½" OD Flare x ½" OD Flare</p>	<p><b>Model:</b> AF-4000ADP24 (80" Optional 7.5VDC transformer (24" leads) eliminates the use of battery power with any TFS system.</p>  <p><i>Home Automation System</i> A transmitter compatible with home automation systems using dry contacts to operate fire pit. <b>Model:</b> AF4000HAT</p>
<p><i>Battery Operated Piezo Ignition</i> <b>Model:</b> MSI-BSMTI (MT models) <b>Model:</b> PAVER-KIT-MT-MSI (MT models)</p> <p><b>Model:</b> MSI-BSTMS (TMS models) <b>Model:</b> PAVER-KIT-TMS-MSI (TMS models)</p>	<p><i>Vent Kits</i> Provide 18 sq. in of ventilation per side of enclosure)</p> <p><b>Model:</b> VENT-KIT-6X12 <b>Model:</b> PAVER-VENT-4 <b>Model:</b> PAVER-VENT-6</p>	

**NOTE:** See the Firegear Outdoors catalogue for a variety of fittings and flex connectors also available.

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

## **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.

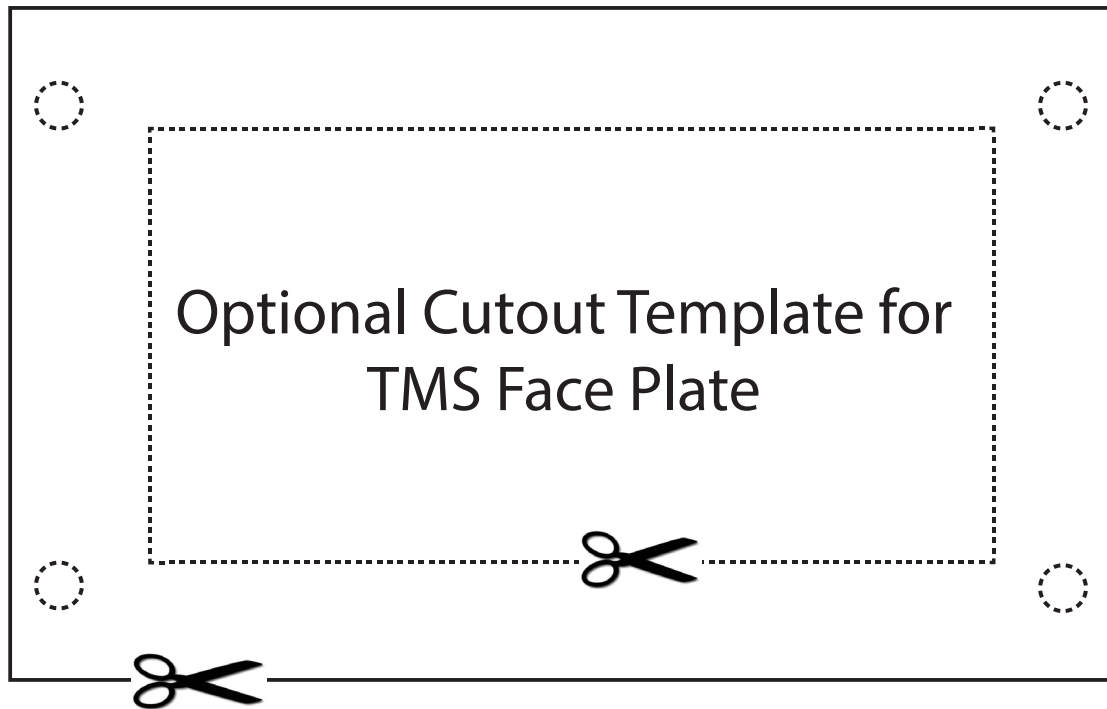
There are no other express warranties except as set forth herein. For consumer applications, any applicable implied warranties of merchantability and fitness are limited in duration to the period of coverage of this Limited Warranty. Some states do not allow limitation on how long an implied warranty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





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

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

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

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



Having problems getting the fire pit to operate? Don't leave the job site!  
We want to help! Call 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](mailto: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.