



Master Flame Products
Installation & Operating Instructions For
Builder Gas Log Systems



LISTING NUMBER 1280
BUILDER MODEL 18", 21", & 24"
ARE APPROVED FOR PROPANE and/ or NATURAL GAS.

IMPORTANT!

PLEASE READ THE FOLLOWING INSTRUCTIONS THOROUGHLY PRIOR TO INSTALLING YOUR LOG SET.

FOR YOUR SAFETY:

IF YOU SMELL GAS:

1. Open all windows.
2. Do not touch any electrical switches.
3. Extinguish any open flame.
4. Immediately call your gas supplier and your local fire department.

FOR YOUR SAFETY:

DO NOT STORE OR USE GASOLINE OR ANY OTHER FLAMMABLE VAPORS & LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

CAUTION:

THIS LOG SET IS TO BE USED ONLY IN A FULLY VENTED NON-COMBUSTIBLE, WOOD-BURNING FIREPLACE.

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THIS MANUAL AS A GUIDE FOR ASSISTANCE. FOR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.

IMPORTANT INFORMATION

PLEASE READ CAREFULLY BEFORE BEGINNING INSTALLATION PROCEDURES.

1. Check to be sure that the log is set for the proper gas type. This log set is designed for use with propane gas and/ or natural gas.
2. The installation must comply with all local codes. In the absence of local codes refer to the national fuel gas code ANSI Z. 223-1 (or the latest edition).
3. The minimum permanent free opening of the fireplace chimney damper must be 39 square inches to atmosphere to vent the flue gases based on a minimum chimney height of at least six feet. The area of the flue should not be less than 1/10 the area of the fireplace opening.
4. The chimney damper must be fixed in a manner to maintain permanent vent opening outlined in item three at all times. To accomplish this, remove damper (if required), or install damper stop on the edge of the damper plate to prevent its accidental closing.
NOTE: DAMPER MUST BE FULLY OPEN!

IMPORTANT INFORMATION (Continued)

5. The minimum size of the fireplace in which the log set is to be installed must be as follows:

ALL INSTALLATIONS MUST HAVE A MINIMUM FLUE DIAMETER OF EIGHT INCHES.

| FIREPLACE MINIMUM DIMENSIONS FOR NATURAL GAS ONLY | | | | |
|---|------------|-------------|-------|--------|
| Size | Rear Width | Front Width | Depth | Height |
| 18" | 18" | 23" | 14" | 17" |
| 21" | 21" | 25" | 14" | 17" |
| 24" | 24" | 30" | 14" | 17" |

| FIREPLACE MINIMUM DIMENSIONS FOR NATURAL GAS MANUAL VALVE | | | | |
|---|------------|-------------|-------|--------|
| Size | Rear Width | Front Width | Depth | Height |
| 18" | 18" | 23" | 14" | 17" |
| 21" | 21" | 25" | 14" | 17" |
| 24" | 24" | 30" | 14" | 17" |

| FIREPLACE MINIMUM DIMENSIONS FOR NATURAL GAS SAFETY PILOT VALVE | | | | |
|---|------------|-------------|-------|--------|
| Size | Rear Width | Front Width | Depth | Height |
| 18" | 18" | 25" | 14" | 17" |
| 21" | 21" | 27" | 14" | 17" |
| 24" | 24" | 33" | 14" | 17" |

| FIREPLACE DIMENSIONS FOR PROPANE GAS SAFETY PILOT VALVE | | | | |
|---|------------|-------------|-------|--------|
| Size | Rear Width | Front Width | Depth | Height |
| 18" | 18" | 25" | 14" | 17" |
| 21" | 21" | 27" | 14" | 17" |
| 24" | 24" | 33" | 14" | 17" |

6. A fireplace screen must be in place when using log sets, unless other provisions for combustion air are provided. The screen should have opening(s) for introduction of combustion air.
GLASS DOOR MUST BE OPEN WHEN BURNING TO ALLOW AIR FOR SAFE COMBUSTION AND VENTING.
7. The minimum inlet supply pressure for the purpose of input adjustment is five inches of water column for natural gas, and eleven inches of water column for propane gas. The maximum inlet supply pressure shall be ten inches of water column for natural gas, and fourteen inches for propane gas.

IMPORTANT INFORMATION (Continued)

8. Shut off valve must be turned off and gas log set disconnected from the gas supply system when testing of that system at test pressure in excess of ½ PSIG (3.5 KPA). The gas log set must be isolated from the gas systems by closing manual shut-off valve during any pressure testing of the gas supply at test pressures equal to or less than ½ PSIG.
9. Do not use this appliance if any part has been under water. Immediately call a qualified/ certified service technician to inspect the appliance and to replace any gas control which has been under water.

CARBON MONOXIDE POISONING MAY LEAD TO DEATH!

WARNING: WHEN USED WITHOUT FRESH AIR, UNIT MAY GIVE OFF CARBON MONOXIDE, AN ORDORLESS, POISONOUS GAS. YOU MUST MAKE ADEQUATE PROVISIONS FOR ACCESSIBILTY AND FOR COMBUSTION AND VENTILATION SUPPLY.

GENERAL INFORMATION

RECOMMENDED TOOLS:

- | | | |
|--|-------------------------|-----------------------------------|
| 1. 6" Adjustable Wrench | 2. Flash light | 3. Flat Blade Screwdriver |
| 4. 7/16" Open-End Wrench | 5. ¼ " Open-End Wrench | 6. 10" Pipe Wrench |
| 7. Pipe Thread Sealer (Non-Hardening) | 8. 7" Slip Joint Pliers | 9. 50/50 Soap & Water Solution |

PLEASE SEE PAGES 10 & 11 OF THIS MANUAL FOR A COMPLETE LIST OF PARTS INCLUDED IN YOUR BURNER KIT. IF ANY PARTS ARE MISSING OR DAMAGED PLEASE CONTACT ASPEN INDUSTRIES DIRECT BY CALLING (800) 642-7254.

1. Remove all ashes or debris from the fireplace. (If your fireplace is equipped with an ash trap the door must be sealed with furnace cement or high temperature silicone.) This is also a good time to check the damper for proper operation and be sure the gas supply valve is in the "Off" position. Position the damper stop over the edge of the damper blade and tighten bolt. This should hold the damper in a partially "open" position in case of accidental closure (Fig. 1). Remove the log lighter from the fireplace *trying not to disturb gas pipe in the wall.*
2. Before placing the burner into the fireplace, determine the option that needs to be installed on the unit. Each kit comes with a natural gas only (no pilot) set-up. If this is your option, continue with this step. If you have another option, follow the assembly instructions found within the kit. First, install the brass cap on the burner pipe with pipe sealer. It is recommended to put the cap on the same side as your supply. (Fig. 2)(A). Next, install your ½" female x 3/8" flare straight orifice fitting to the opposite side of the cap, to the burner pipe with pipe sealer. (Fig 2)(B)
3. Place the burner pan grate assembly in the fireplace with the grate spokes toward you. Place burner assembly in the fireplace with spoke radius in line with the chimney. (Fig. 3). Apply pipe thread sealer to the supply line coming into the fireplace. (Fig. 4)(A). Install brass supply fitting (Fig. 4)(B) (Located on the aluminum manifold) and tighten. Next tighten supply fitting (C) to fitting (B) (Fig 4)
4. **NOTICE:** There are several options with Aspen Industries Inc. product. Choose the correct option you are installing and install the supply fitting (D)(Fig 4) on the other end of the manifold to your option and tighten.

Figure 5 -Natural Gas Only (Using your Key Valve)

Figure 6 - Manual Valve

Figure 7A - Safety Pilot Valve for Natural Gas

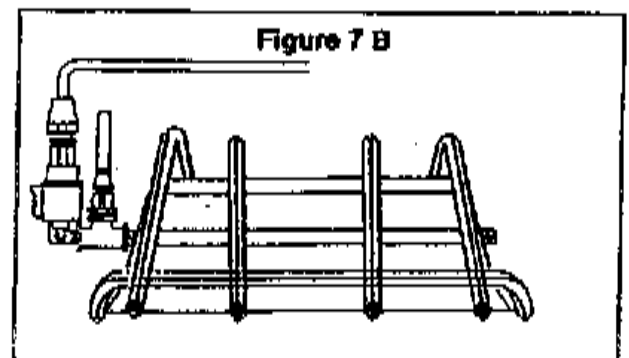
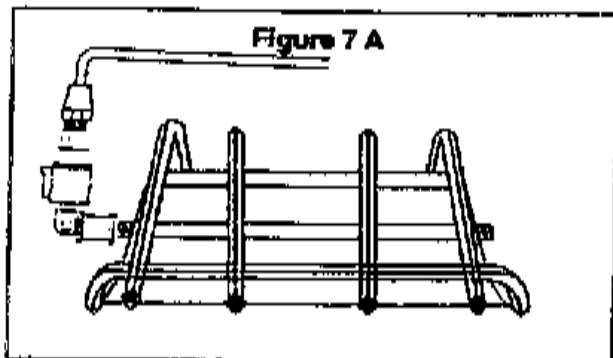
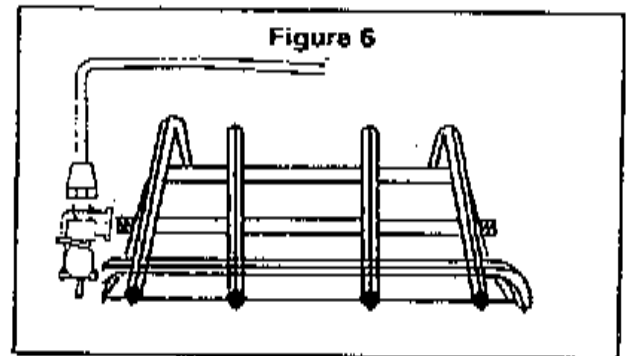
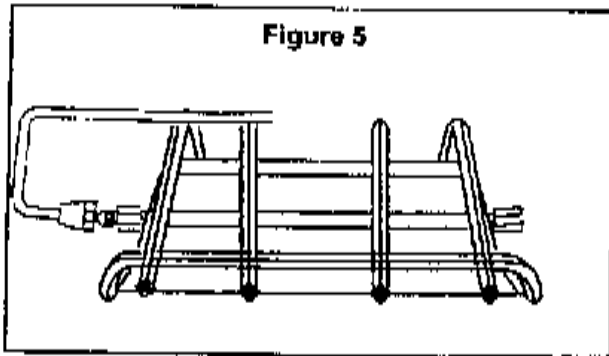
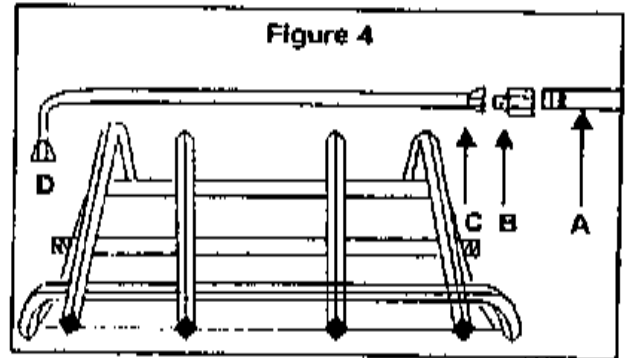
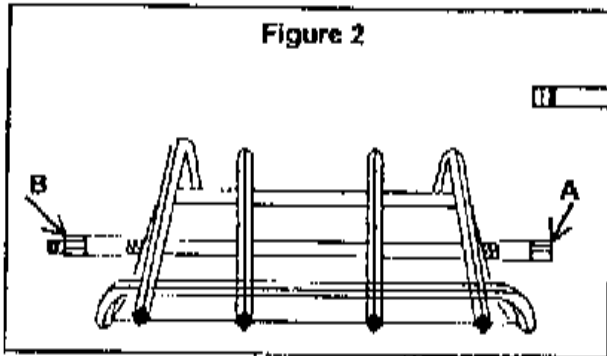
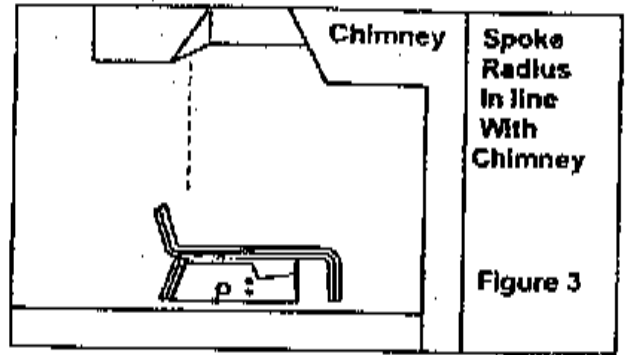
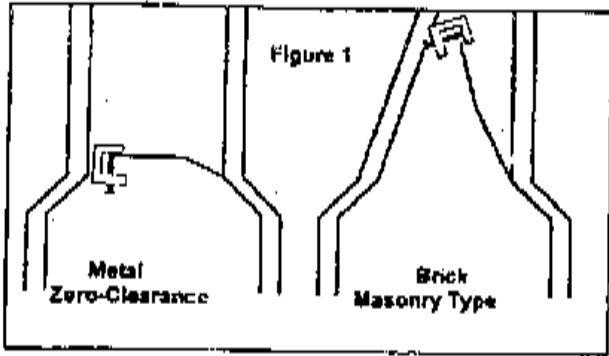
Figure 7B - Safety Pilot Valve for Propane Gas

5. When complete, check the gas connector for leaks using a 50/50 soap & water solution. Brush over fittings. Watch for bubbles, if any are seen further tighten if required.

NOTE: Test must be accomplished with gas supply to fireplace on.

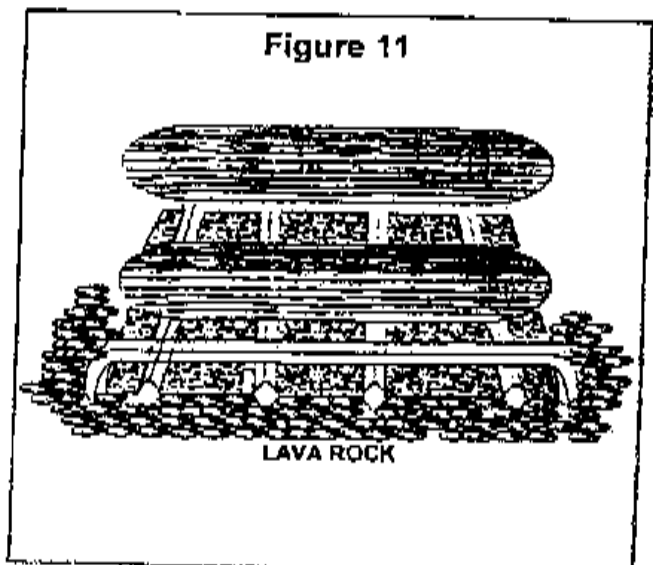
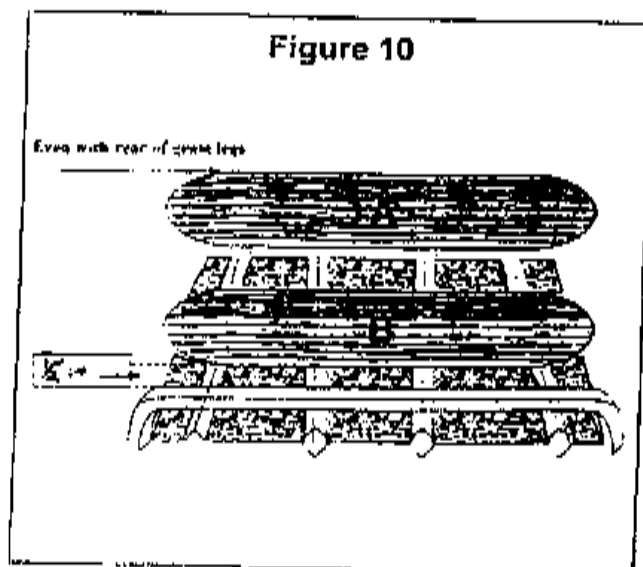
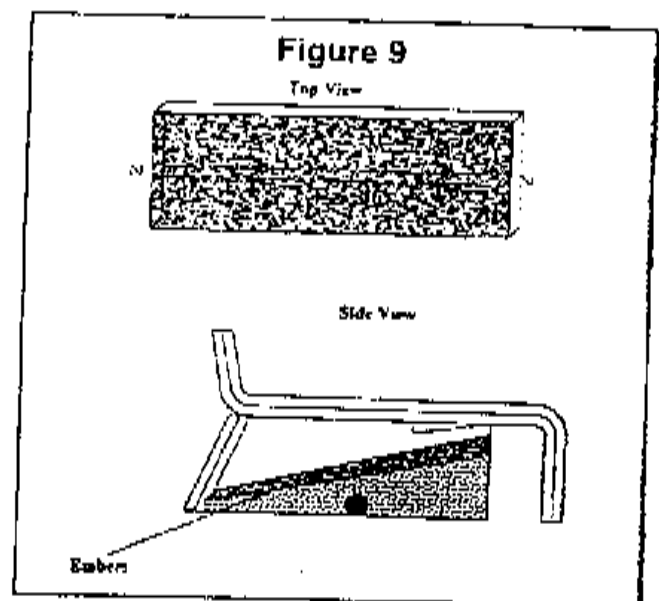
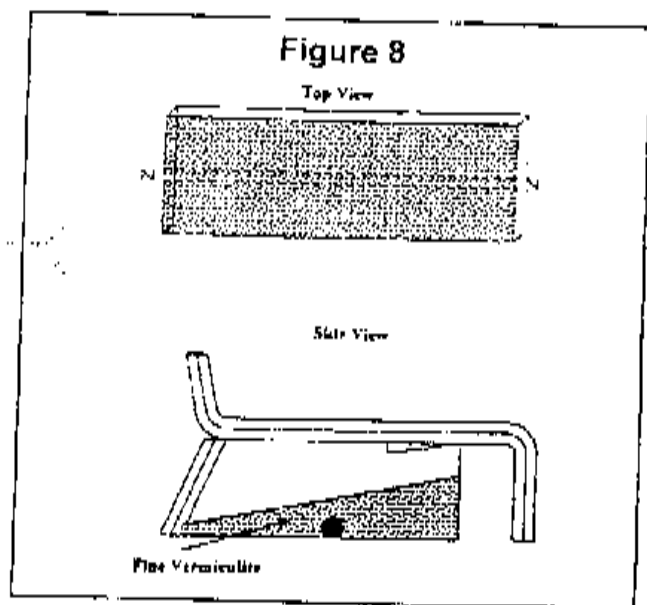
CAUTION - NEVER CHECK FOR LEAKS WITH OPEN FLAME.

INSTALLATION



INSTALLATION (Continued)

6. Fill the burner pan with all the vermiculite supplied within your kit. Spread out the vermiculite evenly from side to side, and slope it with the same angle as the pan. (Fig 8) Next place the ground up embers lightly and evenly, over the entire granule surface. (Fig.9)
Note: Use only enough embers just to cover the vermiculite. Too many embers will reduce the effect and restrict the flow of the fuel.
7. Place rear main log on the rear of the burner grate. The back of the log should be even with the rear of the grate legs. (Fig.10)(A) Next place the front main log on the front of the grate, allowing a 1/4" gap between the front grate leg and the front of the log. (Fig.10)(B) Finally, place the lava rock on the floor of the fireplace so it surrounds the complete burner. (Fig.11)
8. Place twig logs on the main logs in a criss cross pattern to achieve desired look. It is important not to smother the fire with the twigs. This can occur when the twig logs are placed side by side in the center of the log-set.



PROPER OPERATION

First determine the type of option that has been installed on the burner. Next refer to the section that applies to your configuration and follow those operating instructions only.

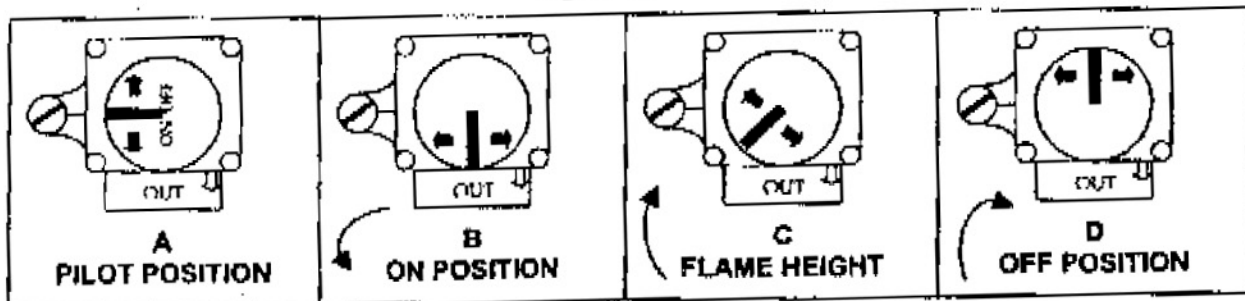
MANUAL KEY OR MANUAL VALVE (NO PILOTS)

Check to be sure that the damper is in a "Fully Open" position prior to attempting to light the log set. Place a long lit match at least 12" in length at the center of the embers on the side that is connected with the gas supply. Slowly turn on the gas valve. If the gas does not light within five seconds, turn the gas valve off. Wait a full five minutes before trying to light the flame again. To turn off, turn the gas valve to the off position. Excess gas will dissipate within a few minutes.

SAFETY PILOT VALVE

1. Check to be sure that the damper is in a "Fully Open" position prior to attempting to light the log set. Turn the pilot knob to the nine-o'clock position using the white indicator line. (Fig. 12)(A). Push the pilot knob in until it stops, and hold for one minute to bleed the air from the supply line. Light the pilot flame while the pilot knob is still pushed in. After the pilot is lit, hold the knob for thirty seconds. Let go of the pilot knob, the pilot should remain lit.
NOTE: This is pilot "On" burner "Off" position.
2. To light the main burner follow these instructions. Turn the pilot knob white indicator line counter clockwise to the six-o'clock position. (Fig. 12)(B). To achieve the desirable flame height turn the knob clockwise. (Fig. 12)(C)
3. **NOTE:** To turn the pilot assembly off, turn the knob clockwise until the indicator line reaches the nine-o'clock position. There is a small indent at this position, push it in slightly and turn until you reach the twelve-o'clock position. This will extinguish your pilot burner flame. (Fig. 12)(D)

Figure 12

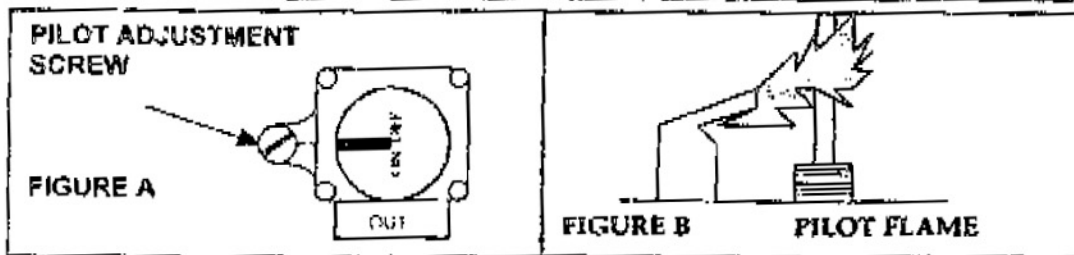


PILOT BURNER ADJUSTMENT

The pilot burner should be set upon every installation. These following steps should be taken.

1. With the pilot burner lit and the control knob in the pilot position, use a narrow flat-blade screwdriver to turn the pilot adjustment screw. The adjustment screw is located at the left of the pilot knob. (Fig. A) (Page 7).
2. Turn the pilot adjustment screw slowly clockwise to reduce the flame or counter clockwise to increase the pilot burner flame. The adjustment screw can be turned so that the pilot flame is extinguished. The pilot flame should be a quiet blue flame with yellow tipping which encircles the thermo-couple tip. (Fig. B) (Page 7).
3. Turn the control knob to the "On" position to assure proper ignition of the log set. Additional adjustment may be necessary while the log set is on.

PROPER OPERATION (CONTINUED)

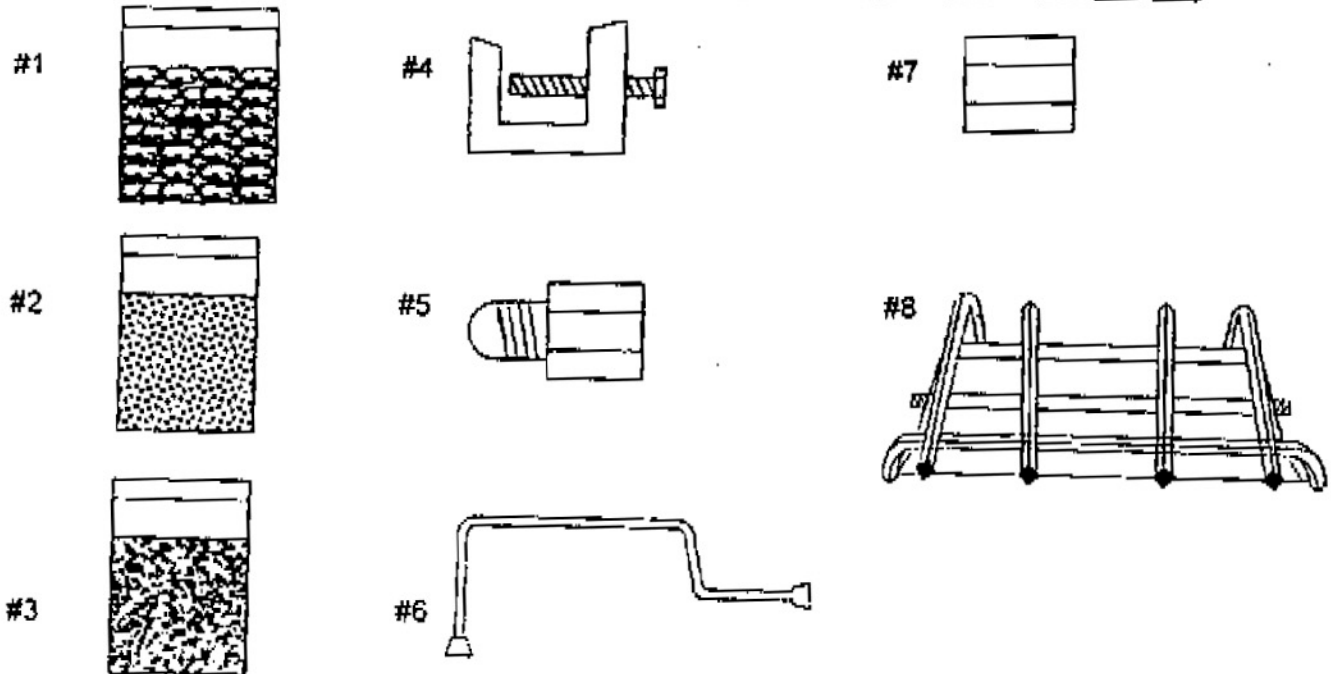


MAINTENANCE & PERFORMANCE TIPS

1. Periodically remove the logs and examine the burner assembly. If it is dirty, clean it with a stiff brush. Also examine the area around the burner pilot assembly. Any dirt or debris in this area should be removed. This will insure long life and trouble free operation.
NOTE: An annual inspection and cleaning of the fully vented system by a qualified agency is recommended.
2. Creating a more realistic looking burning log can be achieved by placing strands of ember material in the log cracks and grooves where the flame is present.
3. Dark soot build-up makes logs looked charred. Soot can be removed with a small paint brush as desired.
4. Always close screens when the unit is on. Always open glass doors when the unit is on.
5. The front base log and the rear base log have to stay where indicated. However, you can rotate the twig logs around for a different appearance.
6. Installation time should be about one hour. Double check all work. If not experienced, call your local fireplace shop for installation service.
NOTE: Installation should always be performed by a licensed or qualified gas man.
7. **If pilot flame will not light check the following:**
 - Excessive down draft.
 - Thermo lead to valve is loose.
 - Air in the pilot line.
 - Thermo lead worn out.
 - Pilot hood not directed to thermo lead.
 - Plugged or dirty pilot.
 - Not lighting pilot correctly.
 - Not holding in knob long enough.
 - Poor pressure to fireplace.
 - Gas line to burner and pilot restricted.
8. If burner has a delayed ignition, check the amount of embers in the ignition area. There should be a small amount. There should not be an excessive amount.

ITEMS FOR BUILDER BURNER KITS

NOTE: THERE ARE SEVERAL OPTIONS WITH ASPEN INDUSTRIES INC. PRODUCT. THESE OPTIONS ARE NOT FACTORY INSTALLED. LOOK ON NEXT PAGE FOR DESCRIPTIONS AND ILLUSTRATIONS OF THE OPTIONS. BE SURE THE CORRECT BURNER/ OPTION CONFIGURATION MATCHES THAT OF THE UNIT TO BE INSTALLED. IF NOT, CONTACT THE DEALER FROM WHOM THE UNIT WAS BOUGHT.



LISTED BELOW ARE CONTENTS OF ELITE BURNER KITS

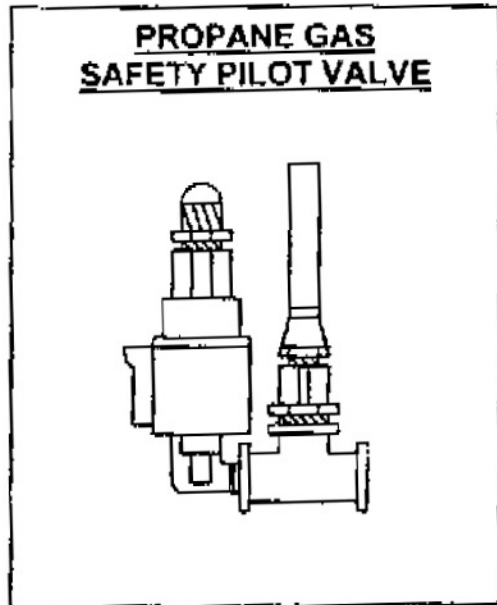
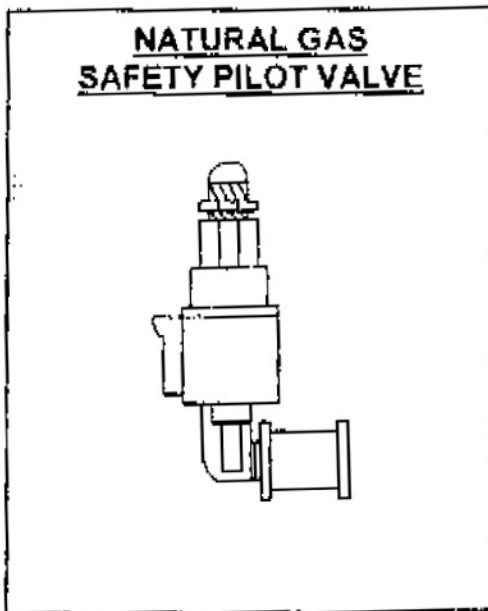
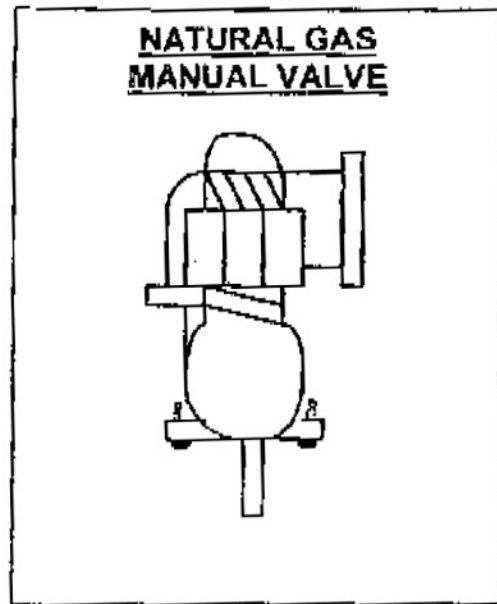
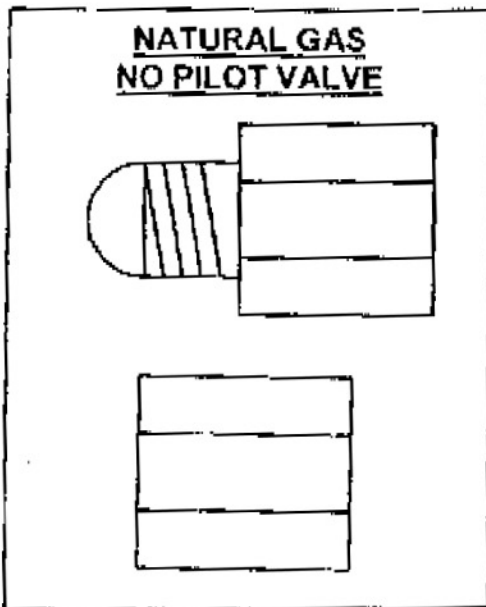
| 18" BUILDER BURNER KIT | | |
|------------------------|-------------|---|
| Item # | Part # | Description |
| #1 | LAVA-B | 1-Bag of Lava Rock |
| #2 | VERMIC-B | 2-6oz. Bag of Fine Vermiculite |
| #3 | EMBER-B | 1-6oz Bag of Ember |
| #4 | S-DAC-49 | 1-Damper Clamp |
| #5 | S-BFS-10 | 1-3/8"x 1/2" Supply Fitting |
| #6 | Manifold-18 | 1-Flared Aluminum Manifold with 2 -3/8 Flare fittings |
| #7 | S-BRC-80 | 1- 1/2" Brass Cap |
| #8 | BLD-18 | 1- 18" Builder Burner |

| 21" BUILDER BURNER KIT | | |
|------------------------|-------------|---|
| Item # | Part # | Description |
| #1 | LAVA-B | 2-Bag of Lava Rock |
| #2 | VERMIC-B | 2-7oz. Bag of Fine Vermiculite |
| #3 | EMBER-B | 1-6oz Bag of Ember |
| #4 | S-DAC-49 | 1-Damper Clamp |
| #5 | S-BFS-10 | 1-3/8"x 1/2" Supply Fitting |
| #6 | Manifold-21 | 1-Flared Aluminum Manifold with 2 -3/8 Flare fittings |
| #7 | S-BRC-80 | 1- 1/2" Brass Cap |
| #8 | BLD-21 | 1- 21" Builder Burner |

| 24" BUILDER BURNER KIT | | |
|------------------------|-------------|---|
| Item # | Part # | Description |
| #1 | LAVA-B | 2-Bag of Lava Rock |
| #2 | VERMIC-B | 2-7oz. Bag of Fine Vermiculite |
| #3 | EMBER-B | 1-6oz Bag of Ember |
| #4 | S-DAC-49 | 1-Damper Clamp |
| #5 | S-BFS-10 | 1-3/8"x 1/2" Supply Fitting |
| #6 | Manifold-21 | 1-Flared Aluminum Manifold with 2 -3/8 Flare fittings |
| #7 | S-BRC-80 | 1- 1/2" Brass Cap |
| #8 | BLD-24 | 1- 24" Builder Burner |

BUILDER BURNER OPTIONS

PROPANE GAS and/or NATURAL GAS



Aspen Industries Inc.

Master Flame Products

480 Country Club Road
Bonsbronville, Illinois 60108
(800) 642-7254 (630) 238-0811 phone
(630) 238-9871 Fax

WARRANTY AGREEMENT FOR "ELITE SYSTEM" "LIMITED LIFETIME" WARRANTY ON BURNER ASSEMBLY & LOGS TO ORIGINAL PURCHASER ONLY.

LOGS:

Aspen Industries Inc. warrants its logs, to the original owner, against breakage, except breakage due to mishandling and abuse for life. Freight is covered for a period of one year from the date of consumer purchase.

BURNER ASSEMBLIES:

Aspen Industries Inc. warrants its burner pan to the original owner, against any performance defects for life. Freight costs are covered for a period of one year from the date of consumer purchase; PROVIDED:

1. The unit is installed by a qualified/ certified gas contractor.
2. The installation instructions are adhered to with no variations to the steps.
3. The fireplace chimney draws properly.
4. The fireplace damper is fully open and/ or locked fully open while in use. See your gas company and local village codes for further information.
5. Normal maintenance procedures (call your dealer or Aspen Industries Inc) are adhered to within a timely fashion. This includes periodical "tune-ups".

PILOT VALVES & CONTROLS:

Aspen Industries Inc. warrants its factory installed pilot valves and controls, to the original owner, against any performance defects, for a period of one year from the date of the consumer purchase. Freight costs are also covered for a period of one year from the date of the consumer purchase. Pilot valves installed by a dealer or consumer carry no warranty from Aspen Industries Inc.

NOT WARRANTED:

All painted surfaces, vermiculite and/ or embers that get wet or moved around due to excessive moisture, household pets, wild animals, birds, vandalism and/ or damage due to wrongful lighting procedures or other negligent use or disaster.
