Aspen Industries Inc.

Master Flame Products

Installation & Operating Instructions For

ELITE GAS LOG KITS

ELITE MODELS 18"/ 21"/ 24"/ 30"
ARE APPROVED FOR **NATURAL & PROPANE GAS**.

IMPORTANT!
PLEASE READ THE FOLLOWING INSTRUCTIONS THROUGHLY 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 VICINTY 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 PROCEEDURES.

1. Check to be sure that the log is set for the proper gas type. This log set is designed for use with natural gas only. This log set is designed for use with propane gas and 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 flu 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. **For Electronic Ignition Systems Only:** Upon ignition, Damper must be in the fully open position. When pilot light is completely extinguished, you can close damper fully for your energy savings
NOTE: Damper must be fully open upon ignition.

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 PROPONE 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"
30"	30"	40"	14"	17"

FIREPLACE MINIMUM DIMENSIONS FOR PROPANE GAS MILLIVOLT VALVE

Size	Rear Width	Front Width	Depth	Height
18"	18"	26"	14"	17"
21"	21"	28"	14"	17"
24"	24"	34"	14"	17"
30"	30"	41"	14"	17"

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"
30"	30"	38"	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"
30"	30"	38"	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"
30"	30"	40"	14"	17"

FIREPLACE MINIMUM DIMENSIONS FOR NATURAL GAS MILLIVOLT VALVE

Size	Rear Width	Front Width	Depth	Height
18"	18"	26"	14"	17"
21"	21"	28"	14"	17"
24"	24"	34"	14"	17"
30"	30"	41"	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. ¾" 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 & 12 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. Place the burner pan grate assembly in the fireplace with scent tube towards you. The vertical baffle should be in line with the chimney. (Fig. 2) Apply pipe thread sealer to the supply line coming into the fireplace. (A) (Fig. 3). Install brass supply fitting (B) (located on aluminum manifold) and tighten (Fig.3).
   NOTICE: There are several options with Aspen Industries Inc. product. Choose the correct option you are installing and install the supply fitting (D) on the other end of the manifold to your option and tighten.

   Figure 4 A - Natural Gas Safety Pilot Valve
   Figure 4 B - LP Safety Pilot Valve
   Figure 5 A - Natural Gas Millivolt Valve
   Figure 5 B – LP Millivolt Valve
   Figure 6 – Natural Gas Only
   Figure 7 – Natural Gas Manual Valve
3. 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

INSTALLATION

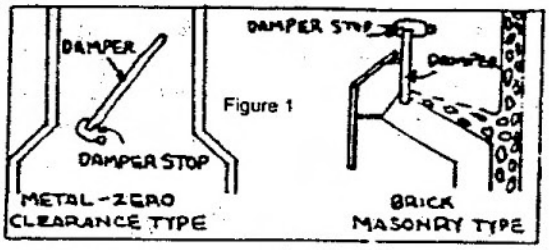


Figure 1

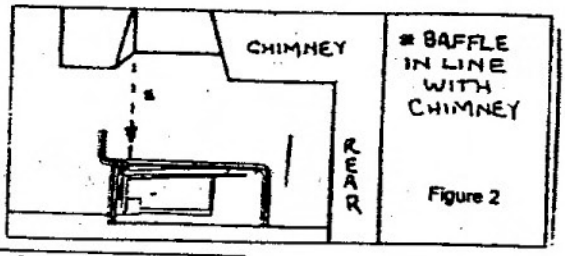


Figure 2

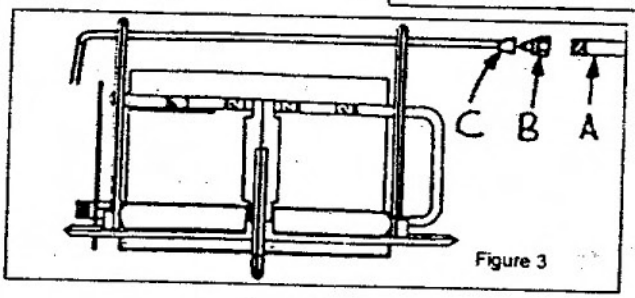


Figure 3

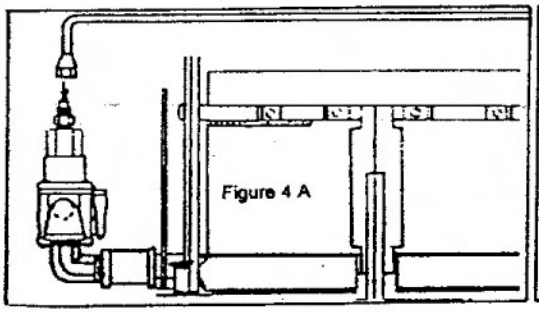


Figure 4 A

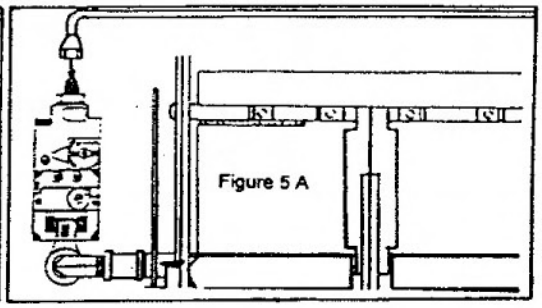


Figure 5 A

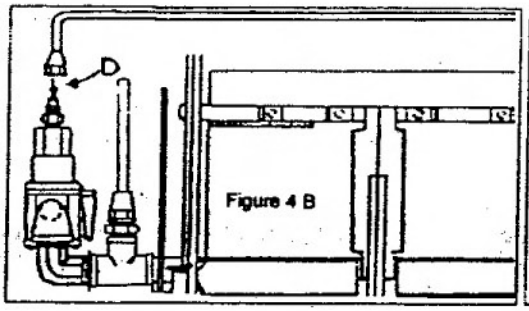


Figure 4 B

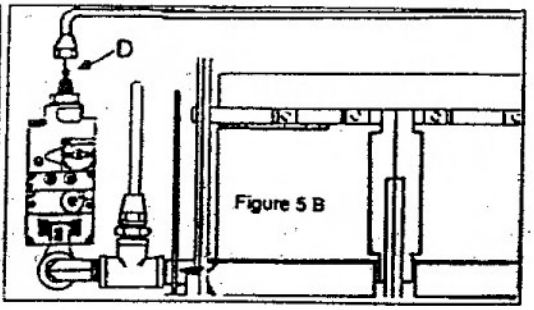


Figure 5 B

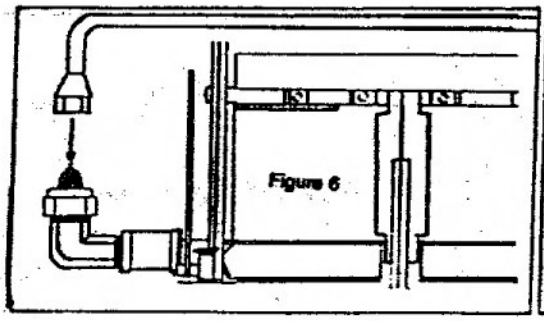


Figure 6

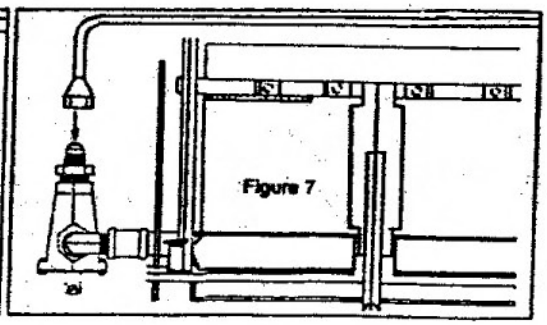


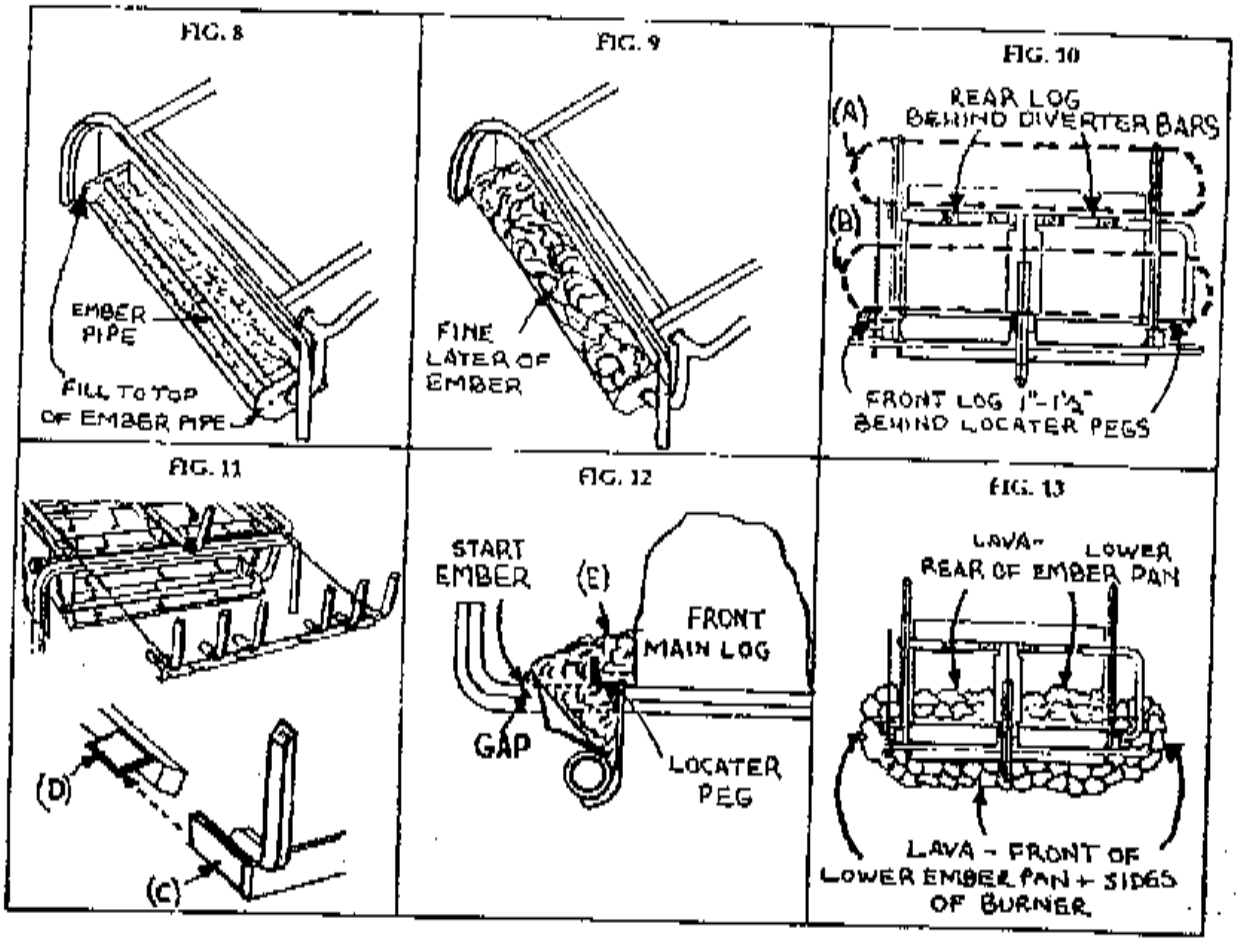
Figure 7

INSTALLATION (Continued)

4. Fill the lower pan with vermiculite. Lower pan should be filled even with the top of the ember pipe (Fig.8). Next cover fine vermiculite granules with ground up embers (Fig.9).
   NOTE: Use just enough embers to cover vermiculite only. To many embers will reduce glowing effect, and restrict the flow of the fuel.

5. Place rear main log just behind rear diverter bar on burner. (A) (Fig. 10). Next, place front main log 1" to 1-1/2" behind front locating pegs on burner. (B) (Fig. 10). Install standard front grate rail to burner by sliding vertical tabs on rail (C) (Fig. 11) under horizontal tabs on grate (D) (Fig. 11). Then fill ember pit with ember. Starting at the grate rail gently lay embers so they taper front rail to ¼ the way up the front log (E) (Fig. 12). Finally place lava rock on the floor of fireplace so it surrounds complete burner. Make sure lava rock hides the front of lower ember pan and sides of burner. See (Fig. 13).

6. Place twigs on main logs in a criss-cross pattern to achieve the best look.

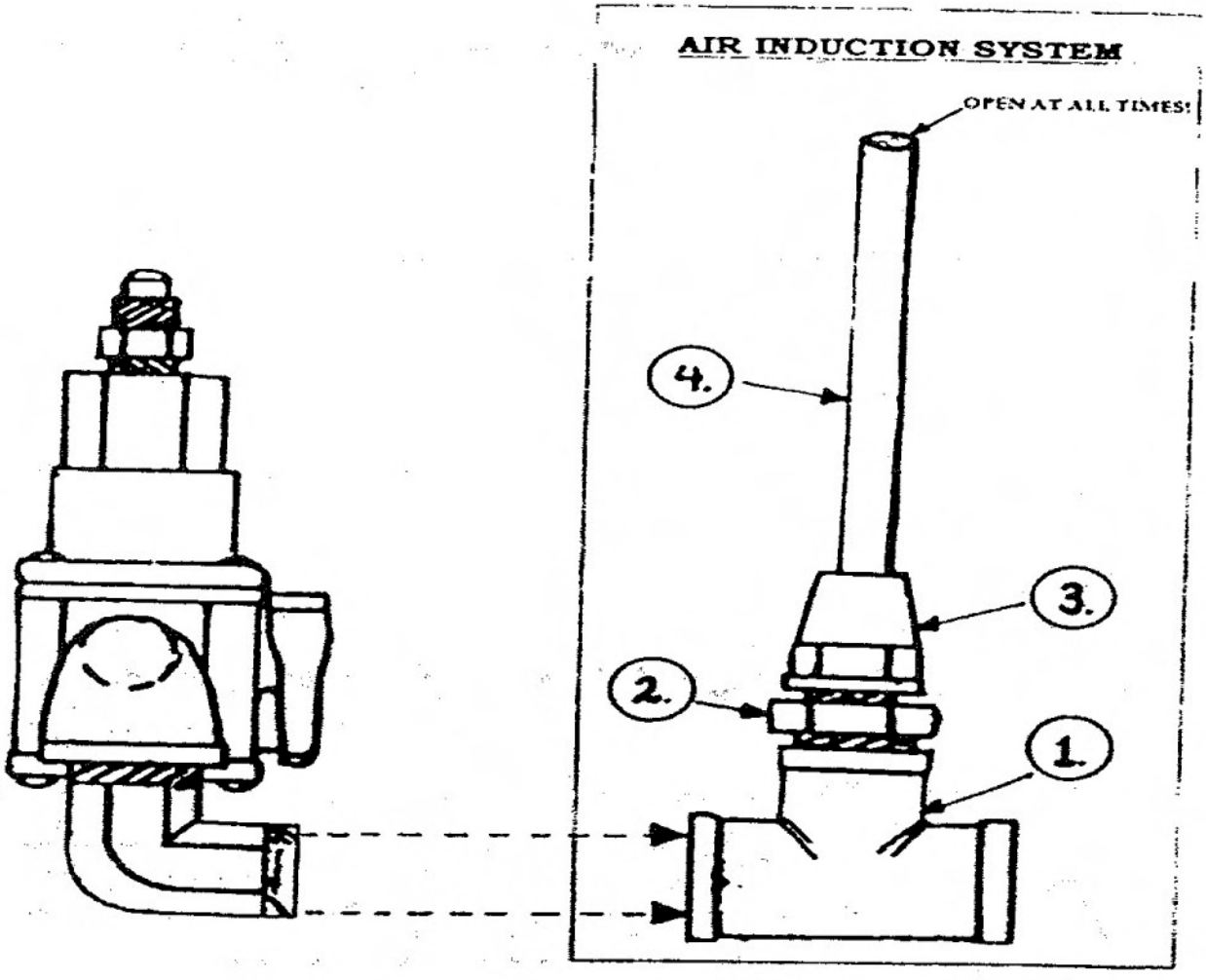


ATTENTION:

Do not remove Air Induction from burner during installation. As illustrated below, it is factory mounted and should remain open at all times. This Air Shutter is for PROPANE GAS ONLY. This factory installation is for a cleaner & quieter installation.

PARTS FOR AIR INDUCTION SYSTEM:

1. CAST TEE
2. ½" MALE TO 3/8" FLARE BRASS STRAIGHT
3. 3/8" BRASS FLARE FITTING
4. 6" PIECE OF 3/8" ALUMINUM



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)

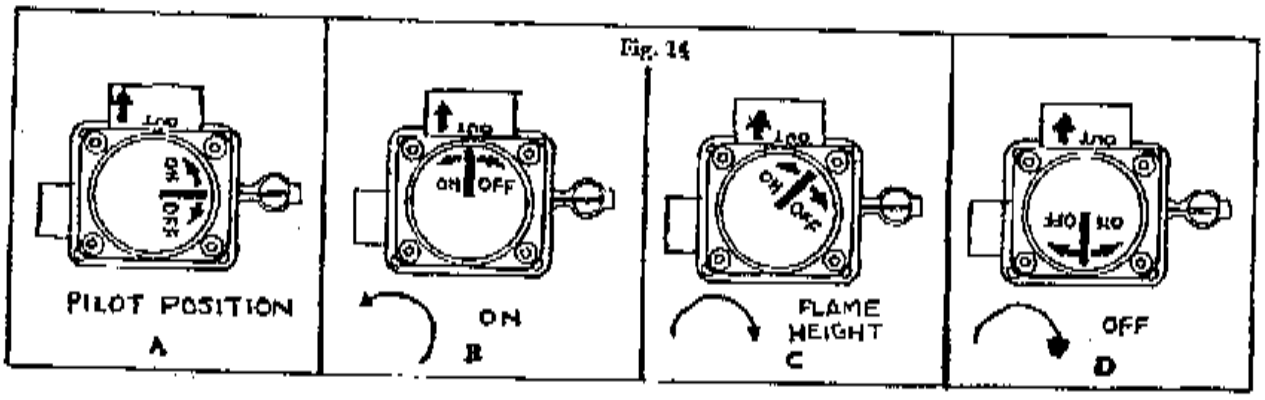
Check to be sure that the damper is in a "Fully Open" position prior to attempting to light the log set. Place a long lit match at least 12" in length at the center of the embers on the side which is connected with the gas supply. Slowly turn on the gas valve. If the gas does not light within five seconds, 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 the damper is in a "Fully Open" position before attempting to light the log set. Turn pilot knob to the three-o-clock position using the white indicator line. (A) (Fig.14). Push the pilot knob in until it stops. Then hold in the knob for one minute to bleed air from the supply line. Light the pilot flame while the pilot knob is still pushed in. After the pilot is lit, continue to hold the knob for thirty seconds. After the thirty seconds release 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 twelve-o-clock position. (B) (Fig.14). To achieve the desirable flame height turn the knob clockwise. (C) (Fig.14). To turn the unit completely off, turn the knob clockwise to the six-o-clock position.
   NOTE: There is a small indent at the three-o-clock position. Push in knob slightly and turn clockwise until you reach the six-o-clock position.

Fig. 14



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 right 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)

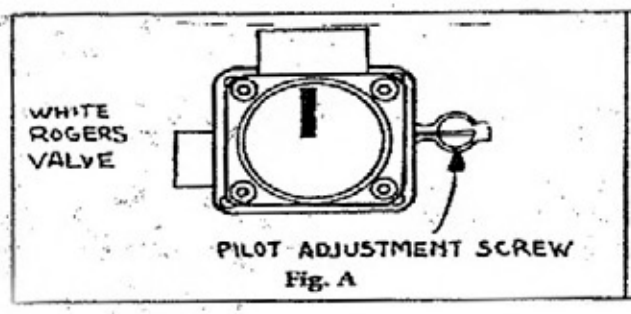


Fig. A

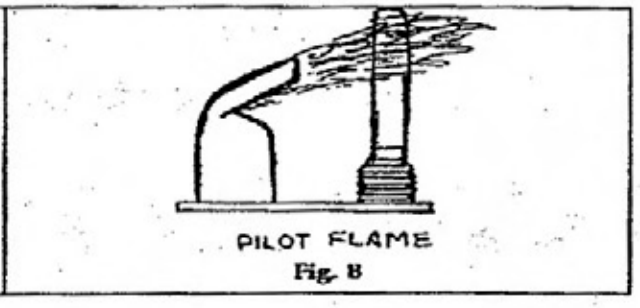


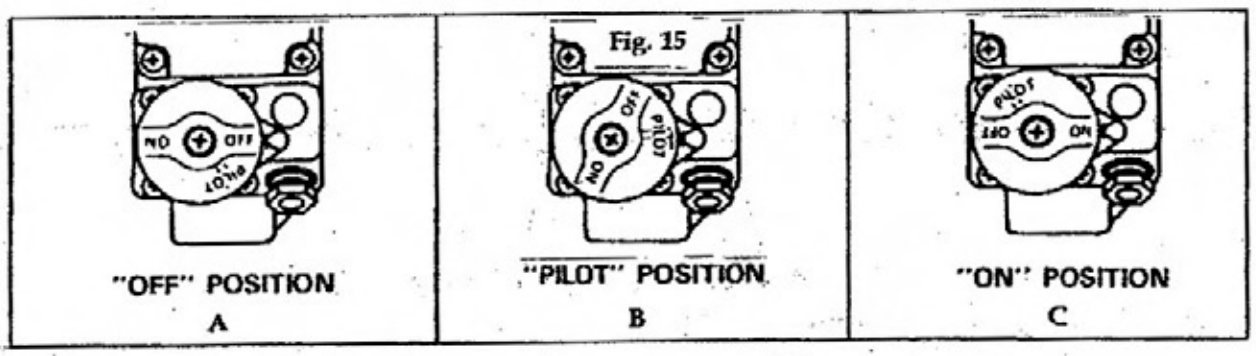
Fig. B

MILLIVOLT VALVE (MILLIVOLT READY)

Check to make sure the damper is in a "Fully Open" position before attempting to light the log set. Dials must be operated by hand. **DO NOT** use pliers, wrenches or any other tools to turn the dials. The Gas Cock Dial has a dual function:

A) Complete control of the gas to the pilot and the main burner.
B) When in the pilot position, it is the reset mechanism for the automatic pilot. The Gas Cock Dial cannot be turned to the "Off" position without first depressing the dial in "Pilot" position and then rotating it off.

1. Depress and turn the Gas Cock Dial to the "Off" position. (A) (Fig.15)
2. Wait at least five minutes to allow gas that may have accumulated in the burner compartment to escape.
3. Turn Gas Cock Dial to the "Pilot" position. (B) (Fig.15)
4. Hold match at pilot burner. **CAUTION:** If pilot lights without depressing Gas Cock Dial replace control. Depress and hold Gas Cock Dial while lighting pilot burner. Allow pilot to burn approximately thirty seconds (1-1/2 minutes for millivolt models) before releasing Gas Cock Dial. If pilot does not remain lit, repeat operation allowing a longer time period prior to releasing Gas Cock Dial.
5. The appliance is now in operation. When heat is desired, turn Gas Cock Dial to "On" position. (C) (Fig.15). When heat is no longer required, turn the Gas Cock Dial back to "Pilot" position.



MILLIVOLT WITH WALL SWITCH

For millivolt with wall switch, same as millivolt ready but be sure switch is in the "Off" position before starting. Once you have completed step five and dial is in "On" position you may use wall switch to turn burner on and off.

MILLIVOLT WITH HAND HELD REMOTE

For millivolt with hand held remote, read the instructions supplied in the box with the transmitter before lighting the pilot assembly. Follow millivolt ready for lighting pilot burner assembly (the thermo-pile generator).

SCENT HOLDERS

USING THE SCENT HOLDER

Place one scent stick into "hollow" center grate bar. Push in 1" past bend in the bar. Scent stick will light automatically. When scent stick is consumed, pull out handle and discard properly. Make sure scent stick is completely extinguished. Scent ashes exit at rear of tube. One stick lasts 10- 20 minutes, but the aroma will last 4- 5 hours. The aroma will emanate 5% in the room and 95% outside. Pull out lit scent stick and hold in room for length of time required to achieve a stronger aroma inside. Return to holder and enjoy real wood aroma.

Remember, the thinner the scent stick the easier it will light. Your local fireplace shop will have replacement scent sticks available in a variety of aromas.

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.

ITEMS FOR ELITE BURNER KITS

NOTE: THERE ARE SEVERAL OPTIONS WITH ASPEN INDUSTRIES INC. PRODUCT. ALL OPTIONS ARE 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.

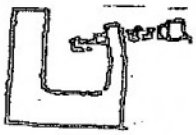
#1

#2

#3

#4

#5



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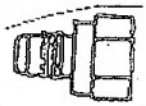

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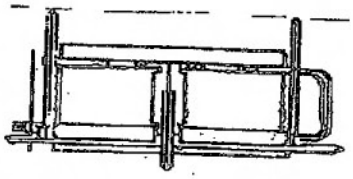

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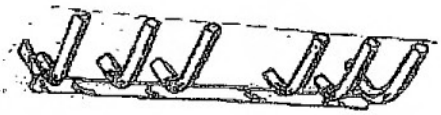


LISTED BELOW ARE CONTENTS OF ELITE BURNER KITS

18" ELITE BURNER KIT

Item #	Part #	Description
#1	LAVA-B	1-Bag of Lava Rock
#2	VERMIC-B	1-7oz. Bag of Fine Vermiculite
#3	EMBER-B	1-7oz Bag of Ember
#4	SCENT-B	1-Package of Scent Sticks
#5	S-DAC-49	1-Damper Clamp
#6	S-BFS-10	1-3/8"x ½" Supply Fitting
#7		1-Flared Aluminum Manifold with 2 –3/8 Flare fittings
#8	EL-18	1-18" Elite Burner
#9	RAIL-18	1-Interchangeable Grate

21" ELITE BURNER KIT

Item #	Part #	Description
#1	LAVA-B	2-Bag of Lava Rock
#2	VERMIC-B	1-7oz. Bag of Fine Vermiculite
#3	EMBER-B	1-7oz Bag of Ember
#4	SCENT-B	1-Package of Scent Sticks
#5	S-DAC-49	1-Damper Clamp
#6	S-BFS-10	1-3/8"x ½" Supply Fitting
#7		1-Flared Aluminum Manifold with 2 –3/8 Flare fittings
#8	EL-21	1-21" Elite Burner
#9	RAIL-21	1-Interchangeable Grate

24" ELITE BURNER KIT

Item #	Part #	Description
#1	LAVA-B	2-Bag of Lava Rock
#2	VERMIC-B	1-7oz. Bag of Fine Vermiculite
#3	EMBER-B	1-7oz Bag of Ember
#4	SCENT-B	1-Package of Scent Sticks
#5	S-DAC-49	1-Damper Clamp
#6	S-BFS-10	1-3/8"x ½" Supply Fitting
#7		1-Flared Aluminum Manifold with 2 –3/8 Flare fittings
#8	EL-24	1-24" Elite Burner
#9	RAIL-24	1-Interchangeable Grate

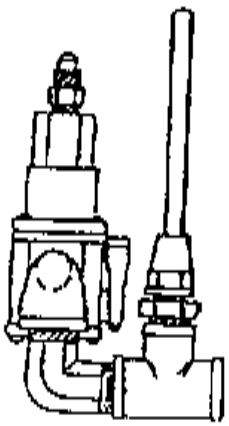
30" ELITE BURNER KIT

Item #	Part #	Description
#1	LAVA-B	2-Bag of Lava Rock
#2	VERMIC-B	1-7oz. Bag of Fine Vermiculite
#3	EMBER-B	1-7oz Bag of Ember
#4	SCENT-B	1-Package of Scent Sticks
#5	S-DAC-49	1-Damper Clamp
#6	S-BFS-10	1-3/8"x ½" Supply Fitting
#7		1-Flared Aluminum Manifold with 2 –3/8 Flare fittings
#8	EL-30	1-30" Elite Burner
#9	RAIL-30	1-Interchangeable Grate

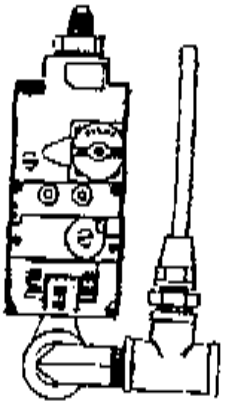
ELITE BURNER OPTIONS

PROPANE GAS ONLY

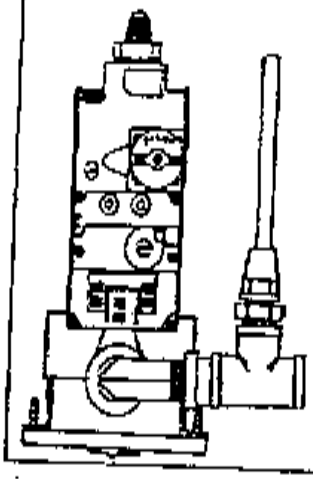
LP GAS - SAFETY PILOT VALVE



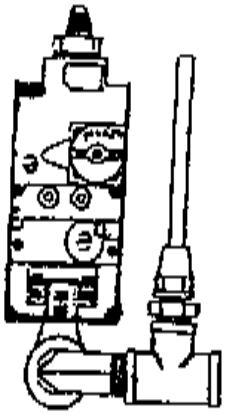
LP GAS - MILLIVOLT READY

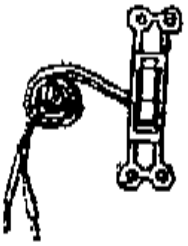


LP GAS - MILLIVOLT w/ REMOTE



LP/ G. MILLIVOLT w/ WALL SWITCH

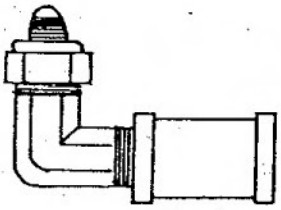




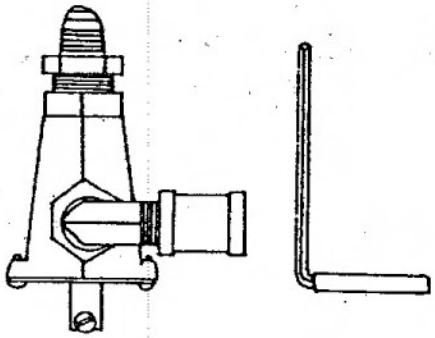
ELITE BURNER OPTIONS

NATURAL GAS ONLY

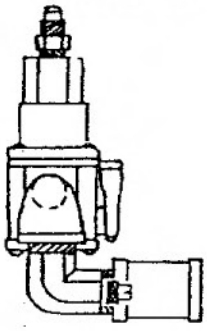
N/G - NO PILOT VALVE



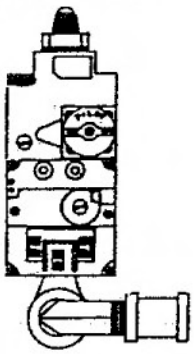
N/G - MANUAL VALVE



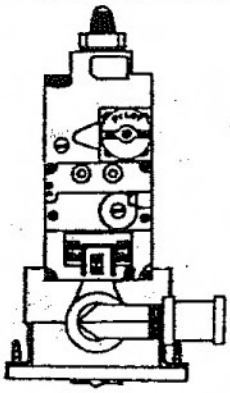
N/G - SAFETY PILOT VALVE



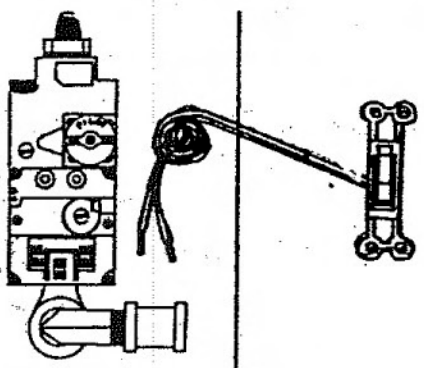
N/G - MILLIVOLT READY



N/G - MILLIVOLT w/ REMOTE



N/G - MILLIVOLT w/ WALL SWITCH



SAFETY WARNING INSTRUCTIONS

BULLETIN MM2070-10/98
replaced MM2067

FOR MERTIK MAXITROL GV50 SERIES GAS COMBINATION CONTROLS

⚠ SPECIAL WARNINGS

IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.
NO UNTRAINED PERSON SHOULD ATTEMPT TO INSTALL, MAINTAIN OR SERVICE GAS PRESSURE CONTROLS.

To minimize the possibility of FIRE, EXPLOSION, and OTHER HAZARDS.

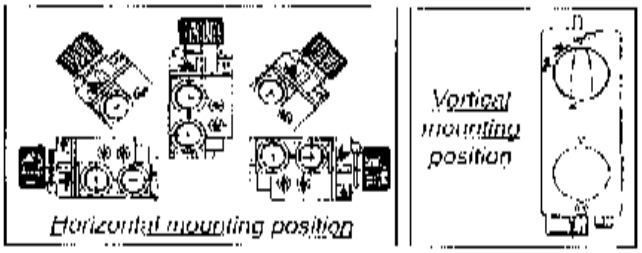
1. All products, including gas pressure controls, used with combustible gas **must** be installed and used **strictly** in accordance with the instructions of the manufacturer, with government codes and regulations, and plumbing codes and practices.

2. Do **not** use a gas combination control if it appears to have been subjected to high temperatures, damaged in any way, or to have been taken apart or tampered with. Any of these may be signs of possible leakage or other damage that may affect proper operation and cause potentially dangerous combustion problems.

3. **Installation**
   a. Turn off gas supply before starting installation.
   b. Install the control properly so gas will flow as indicated by the arrow on the casting.
   c. Make sure markings or wording on control are not painted over or obliterated.

Mounting positions (see diagrams below)

d. The gas control can be mounted horizontally 0 to 90 degrees in any direction from the upright position, i.e. from the position when the knobs are on top. It can also be mounted in a vertical position.



Main gas NPT connections (inlet or outlet)

e. Use joint compound/thread sealant, properly threaded pipes and careful assembly procedure so that there is no cross threading, etc., which can cause damage or leakage.

f. Apply light pressure only at wrench flats (See Figure 1) to avoid damage to control body, which can result in leakage or malfunction of control. Do not apply pressure to top casting or plastic cover.

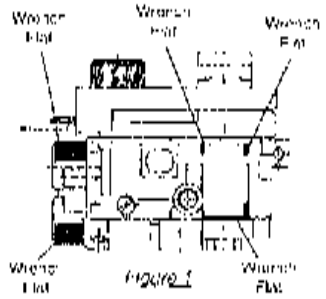


Figure 1

Main gas (outlet only)

Optional "side outlet tubing connection"

g. Square off end of tubing and remove burrs.
h. Slip gland and ferrule over tubing.
i. Insert tubing into the outlet until it bottoms, slide ferrule and gland into place and turn finger tight. Do not use joint compound.
j. Use a wrench to tighten gland about one turn beyond finger tight. (If side outlet model, do not rotate outlet in its threads to avoid possible leakage.)

Pilot gas connection (tubing only)

k. Square off the end of tubing and remove burrs.
l. Slip compression fitting over tubing. Insert tubing into pilot outlet connection until it bottoms, slide fitting into place and turn finger tight.
   Do not use joint compound.
m. Use a wrench to tighten fitting about 1-1/2 turn beyond finger tight.
n. Connect other end of tubing to pilot burner according to the manufacturer's instructions.

⚠ CAUTION

DO NOT BEND TUBING AT SPACE HEATER GAS CONTROL AFTER COMPRESSION FITTING HAS BEEN TIGHTENED, AS THIS MAY RESULT IN GAS LEAKAGE AT THE CONNECTION.

Thermocouple connection

o. The gas control has an electrical thermocouple connection and must therefore be kept clean and dry; joint compound should never be applied to it. Tighten only 1/4 turn beyond finger tight in order to make a good electrical connection. When routing the thermocouple's tubing, do not bend it too sharply (min. radius 2.5 mm).

Bulb Location and Mounting

p. Temperature sensing element is to be located and mounted by the OEM and is not to be changed without consulting factory or qualified serviceman. The temperature sensing element should be placed in a location representative of desired temperature. *Never place directly in flame.* **(See Specifications on back page)**

4. Check carefully for gas leaks immediately after the control has been installed and the gas turned on. **Do this before attempting to operate the appliance or other gas burning device.** Use a rich soap solution (or other accepted leak tester) to check all flanges, knobs, joints, and piping connections. Wipe clean with a damp rag. It is a good practice to periodically check for leakage during use of the appliance. **Absolutely no leakage should occur, otherwise there is a danger of fire or explosion depending upon conditions. Never use if leakage is detected.**

⚠ CAUTION

NEVER CONNECT CONTROL DIRECTLY TO THE PROPANE SUPPLY SOURCE. LP APPLICATIONS REQUIRE AN EXTERNAL REGULATOR (NOT SUPPLIED). INSTALL THE EXTERNAL REGULATOR BETWEEN THE PROPANE SUPPLY SOURCE AND MERTIK MAXITROL CONTROL.

5. **Adjustments and Final Checkout**

⚠ WARNING

ADJUSTMENTS MUST BE MADE BY QUALIFIED PERSONS ONLY. BEFORE ADJUSTMENTS CAN BE MADE, THE COVER SHOULD BE REMOVED. IF THE APPLIANCE MANUFACTURER SUPPLIES CHECKOUT AND/OR SERVICE AND MAINTENANCE INSTRUCTIONS, CAREFULLY FOLLOW THEM. IF THESE INSTRUCTIONS ARE NOT PROVIDED THEN USE THE FOLLOWING PROCEDURE.

(over)

5. Adjustments and Final Checkout *(continued)*

Removing cover

a. Unscrew the cover screw at the side of the thermostat knob.

b. Put a small screw driver in the slotted hole at the side of the operation knob and lift the cover.

Pilot flame adjustment

c. Combination control is shipped with pilot flow at maximum.

d. Refer to the pilot burner manufacturer's instruction for recommended size of pilot flame.

e. If adjustment is required, turn the pilot adjustment screw clockwise to decrease or counterclockwise to increase pilot flame.

Outlet pressure adjustment (a gauge capable of reading inches w.c. is required for any outlet pressure adjustments)

f. Remove cover to expose pressure regulator adjustment screw.

g. Bring heater to high fire (all burners on maximum). Slowly turn adjustment screw with a small screw driver until the required burner pressure is recorded on the pressure gauge. Turn adjustment screw clockwise to increase or counterclockwise to decrease gas pressure to main burner.

**Side-outlet manual valve minimum flow adjustment*

h. Combination control is shipped with the side-outlet manual valve set at maximum flow. If adjustment is required perform step g., and then set the manual valve knob (knob - C, Figure 2) to the minimum position.

Turn side-outlet manual valve minimum adjustment screw (Figure 2) clockwise to decrease flow.
(*Do not rotate side outlet in its threads to avoid possible leakage.)

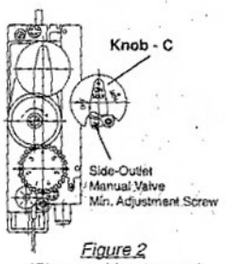


Figure 2
(Shown without cover)

i. Replace cover.

Final checkout of the installation

After any adjustment, set appliance in operation. Observe several complete cycles to ensure that all burner components function correctly.

6. Operation

Basic operation

Knob-A (Figure 3) for manual pilot, on-off function, and piezo activation.
Knob-B (Figure 3) for temperature level selection with integrated thermostat providing snap action (on-off) and modulation control for minimum to maximum flow.

Ignition interlock

The interlock device prevents the re-establishment of gas flow – when no pilot flame is present – until the thermocouple has cooled sufficiently.

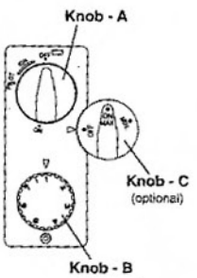


Figure 3
(Shown with cover)

Adjusting temperature

Turn knob-B (Figure 3) toward higher numbers to increase temperature, toward lower numbers to decrease. Remote control versions contain a motor that activates this knob, or it can also be operated manually.

Optional side-outlet control for 2-burner operation

Additional side-mounted manual valve (knob-C, Figure 3) primarily for 2-burner gas fireplace applications.

Lighting procedure

a. Turn knob-A (Figure 4) slightly left towards the 'IGN' position until reaching stop, press down and hold for five seconds (only pilot gas flows).

b. Continue pressing down while turning further left to activate piezo, continue to hold down for 10 seconds after pilot burner has been lit. If pilot does not light, steps a. and b. can be immediately repeated.
(See Note below)

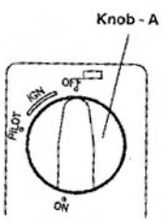


Figure 4

c. Upon lighting, release knob and turn further left to 'ON' position (both pilot and main gas flows).

Note: If pilot flame is not established, equipment manufacturer (OEM) will determine the number of additional attempts to light -- and with continued failure the purge time required before further ignition attempts

Shut off procedure

a. Turn knob-A (Figure 4) right until reaching stop.

b. Press down slightly and continue turning right from 'PILOT' position to the 'OFF' position.

When the thermocouple has cooled sufficiently (time will vary based on thermocouple type used), pilot lighting procedure can be repeated. (See Ignition interlock.)

7. Very high pressure surges in the gas supply line (or as a result of exposing the system to high pressure) may result in serious internal damage and cause leakage or affect control operation. If you suspect that a Mertik Maxitrol control has been exposed to more than 1--1/2 times its maximum inlet pressure, turn off the gas and have the system checked by an expert.

8. The outlet pressure of the control **must** be measured to make sure it is in accordance with intended usage.

9. Caution should be used to guarantee that there is sufficient inlet pressure to achieve the desired outlet pressure and no readjustment of the outlet pressure setting should be made unless the inlet pressure is within the proper limits for the control. Failure to follow this may result in overfiring of the appliance or other gas burning device.

10. A Mertik Maxitrol combination control must be used within its ambient temperature range, and not in excess of its maximum inlet pressure. The control can be used with all fuel gases.

11. In case of any doubt, please contact the Service Manager, Maxitrol Company, Southfield, MI. Phone: 248/356-1400.

12. Specifications

Maximum Operating Inlet Pressure
½ psig (34.5 mbar)

Ambient Temperature (Control)
32 ° to 176 °F (0 to 80 °C), or 32 ° to 225 °F (0 ° to 107 °C) for "T" models

Control Range

Capacity:	10,000 – 85,000 BTU/hr
Outlet Pressure:	3" w.c. to 5" w.c. (7.5 to 12 mbar)
	8" w.c. to 12" w.c. (20 to 30 mbar)

**Piezo & Cable*
Min/Max Spark Gap: 3/4 mm
Min/Max Operating Temperature: –4 ° to 392 °F (–20° to 200 °C)
Min/Max Lead Lengths: 150/1000 mm
*(*Piezo wire **should not** be drawn down parallel against lengths of metal -- this can result in reduction or loss of power to ignitor. When placing the ignition cable/piezo wire, care should be taken not to stretch it too tightly. If possible, **avoid** contact with the appliances's metal parts, especially those with sharp edges.)*

Maximum Ambient Temperature (Sensor)
Control Range 55 ° – 95 °F: Sensor 122 °F (50 °C)
Control Range 60 ° – 120 °F: Sensor 160 °F (71 °C)
Control Range 85 ° – 175 °F: Sensor 230 °F (110 °C)
Control Range 210 ° – 640 °F: Sensor 715 °F (380 °C)

Hardwired Wall Switch
Use 24 gauge wire or larger for a maximum run of 100 feet

Ultrasonic Remote Control and Receiver
Receiver wire to combination control is rated at 350 °F
Optimal remote operating distance 20 feet
(For best results use fully charged ALKALINE batteries in ambient temperatures less than 125 °F)

⚠ WARNING

USE CAUTION WHEN LEAVING AN OPERATING MOTORIZED CONTROL UNATTENDED.
ALTHOUGH UNLIKELY, RANDOM SONIC SOUNDS COULD SIGNAL THE ULTRASONIC RECEIVER AND ACTIVATE THE VALVE -- LOWER KNOB 'B' COULD ROTATE AND CAUSE THE MAIN BURNER TO COME ON, OR THE FLAME HEIGHT TO ADJUST.

Aspen Industries Inc.

Master Flame Products

480 Country Club Road
Bensenville, Illinois 60106
(800) 642-7254 (630) 238-0611 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. warranties 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. warranties 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. warranties 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.