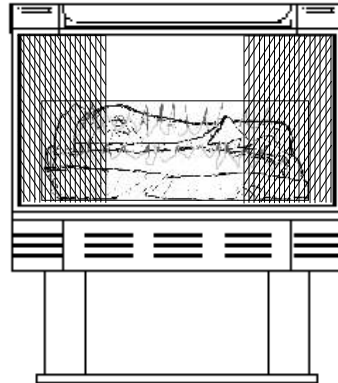


MODEL 329

MAY BE INSTALLED IN A SOLID FUEL BURNING FIREPLACE, AS A FREESTANDING FIREPLACE OR WITH AN OPTIONAL WOODEN SURROUND.



VENT-FREE

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

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

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or gas supplier.

This is an unvented gas-fired heater. It uses air (oxygen) from room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to section "Producing Adequate Air For Combustion And Ventilation" page 32.

This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on rating plate. This appliance is not convertible for use with other gases.

INSTALLER: Leave this manual with appliance.

CONSUMER: Retain this manual for future reference.

MANUFACTURED BY NEW BUCK CORPORATION
200 ETHAN ALLEN DRIVE, PO BOX 69
SPRUCE PINE, N.C. 28777

www.buckstove.com

This appliance is intended for supplemental heating.

Revised January 2013

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SECTION I

SAFETY INFORMATION WARNINGS

IMPORTANT: READ THIS OWNER'S MANUAL CAREFULLY AND COMPLETELY BEFORE TRYING TO ASSEMBLE, OPERATE OR SERVICE APPLIANCE. IMPROPER USE OF THESE LOGS CAN CAUSE SERIOUS INJURY OR DEATH FROM BURNS, FIRE, EXPLOSION AND CARBON MONOXIDE POISONING.

- **NOTE: When burning any unit or appliance that combusts fuel for heat, such as coal, oil, wood or natural and (L.P.) liquid petroleum gas. We highly recommend use of smoke and carbon monoxide detectors in your home.**

Early signs of carbon monoxide poisoning resemble flu, with headaches, dizziness and/or nausea. If you have these signs, heater may not be working properly. Get fresh air at once! Have heater serviced. Some people-pregnant women, persons with heart or lung disease, anemia, those under influence of alcohol and those at high altitudes are more affected by carbon monoxide than others.

CAUTION: Strong drafts, such as a ceiling fan placed directly in front of heater (pulling from either direction) may create sooting. Sooting will discolor walls.

1. The installation must conform with local codes or in absence of local codes, with *National Fuel Gas Code, ANSI Z223.1/NFPA54.*
2. **This appliance may be installed in an After-Market^{*} Manufactured (Mobile) Home, where not prohibited by state or local codes.**
^{*}(After-Market: Completion of sale, not for purpose of resale from manufacturer.)

**This appliance is only for use with type of gas indicated on rating plate.
This appliance is not convertible for use with other gases.**

NOTE: See Section VII, "Producing Adequate Air For Combustion And Ventilation" page 32.

IMPORTANT: VENT-FREE HEATERS ADD MOISTURE TO AIR. ALTHOUGH THIS IS BENEFICIAL, INSTALLING HEATER IN ROOMS WITHOUT ADEQUATE VENTILATION MAY CAUSE MILDEW TO FORM FROM TOO MUCH MOISTURE.

3. Never install this heater:
 - In a recreational vehicle, **bathroom, bedroom** or any other **sleeping quarters**
 - Where curtains, furniture, clothing or other flammable objects are less than 42" from front of heater
 - In high traffic areas or in windy areas
4. Two models are available. One specific model for propane (LP), and one for natural gas. Use correct type gas for your home. Do not convert from one gas type to another

NOTE: This appliance complies with ANSI Z21.11.2b-2010 Unvented Room Heater.

WARNING: ANY CHANGE TO THIS HEATER OR ITS CONTROLS CAN BE DANGEROUS.

5. If this heater is used with propane gas, do not place propane supply tank (s) inside any structure.
6. What To Do IF You Smell Gas:
 - Shut off gas supply.
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone.
 - Follow gas supplier's instructions.
 - If you cannot reach your gas supplier, call fire department.
7. When operated for first time, logs may emit a "paper burning" smell. This smell will gradually diminish and will be totally eliminated after first few hours of operation. Run gas logs with flue damper open during this time. Do not use blower at this time.
8. This heater shall not be installed in unusually tight construction unless provisions are provided for adequate combustion and ventilation air. See *"Producing Adequate Air For Combustion and Ventilation"*, page 32.
9. Surface of gas logs becomes very hot when operating. Keep children and adults away from hot surface. Gas logs will remain hot for sometime after shutdown. Allow surface to cool before touching.
10. Do not place clothing or other flammable material on or near appliance.
11. If equipped, fresh air damper must be closed.
12. Keep appliance area clean and free from combustible materials, gasoline and other flammable flammable vapors and liquids.
13. If burner shuts off, do not relight until you provide fresh outside air. If burner continues to shut off, have unit serviced.
14. Do not use this heater if any part has been under water. Immediately call qualified service technician to inspect room heater and to replace any part of control system and any gas control which has been under water.
15. Turn off heater and let cool before servicing.
16. These logs are made of bonded fiber. When removing logs and base, do not damage bonded material. If the material is damaged extensively, loose fiber dust could be emitted into air.
17. Any safety screen or guard removed for servicing an appliance must be replaced prior to operating heater.
18. This appliance is intended for supplemental heating.
19. **WARNING:** Any change to this heater or its controls can be dangerous.
20. Installation and repairs should be performed by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of appliance be kept clean.

21. All heater screens must be kept closed when operating gas logs.
22. **WARNING:** Failure to keep primary air opening (s) of the burner (s) clean may result in soot and property damage.
23. Do not use this heater for burning trash or cooking. Never place matches, paper, garbage or any other material on top of logs or into flames.
24. Do not install or operate this heater in areas where impurities in air exist (such as tobacco smoke or heavy cooking grease). Particles from impurities may discolor walls.
25. Due to high temperatures, appliance should be located out of traffic and away from furniture and draperies.
26. Children and adults should be alerted to hazards of high surface temperature and should stay away to avoid burns or clothing ignition.
27. Young children should be carefully supervised when they are in same room with appliance.
28. An unvented room heater having an input rating of more than 10,000 Btu per hour shall not be installed in a bedroom or bathroom.
29. The appliance and its appliance main gas valve must be disconnected from gas supply piping system during any pressure testing of that system at test pressure in excess of 1/2 psi (3.5 kPa).
30. The appliance must be isolated from gas supply piping system by closing its equipment shut-off valve during any pressure testing of gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).
31. **WARNING:** Do not allow fans to blow directly into fireplace. Avoid any drafts that alter burner flame patterns.
32. **WARNING:** Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.
33. Adequate clearances around air openings. Nothing may be placed over any of air openings on this appliance or can any of air openings be modified in anyway.
34. A fireplace screen must be in place when appliance is operating and, unless other provisions for combustion air are provided, screen shall have an opening (s) for introduction of combustion air.
35. **WARNING:** Any glass doors shall be fully opened when appliance is in operation.

SECTION II

FIREPLACE PREPARATION

The fireplace needs to be prepared before installing heater.

A. Turn off the gas supply to fireplace.

WARNING: BEFORE INSTALLING IN A SOLID-FUEL BURNING FIREPLACE, CHIMNEY FLUE AND FIREBOX MUST BE CLEANED OF SOOT, CREOSOTE, ASHES AND LOOSE PAINT BY A QUALIFIED CHIMNEY CLEANER.

WARNING: DO NOT ALLOW FANS TO BLOW DIRECTLY INTO FIREPLACE. AVOID DRAFTS THAT ALTER BURNER FLAME PATTERNS.

WARNING: DO NOT USE A BLOWER INSERT, HEAT EXCHANGER INSERT OR OTHER ACCESSORIES NOT APPROVED FOR USE WITH THIS HEATER.

WARNING: ANY OUTSIDE AIR DUCTS AND/OR ASH DUMPS IN FIREPLACE SHALL BE PERMANENTLY CLOSED AT TIME OF APPLIANCE INSTALLATION.

B. Read following sections before installing your unit; Section III, page 24 Installation In A Solid-Fuel Burning Fireplace and Section VIII, page 32 Producing Adequate Air For Combustion And Ventilation.

WARNING: CUTTING ANY SHEET-METAL PARTS OF SOLID – FUEL BURNING FIREPLACE OR LISTED VENTLESS FIREBOX ENCLOSURE IN WHICH THE UNVENTED FIREPLACE INSERT IS TO BE INSTALLED IS PROHIBITED.

NOTE: IF FACTORY BUILT FIREPLACE HAS NO GAS ACCESS HOLE(S) PROVIDED, AN ACCESS HOLE OF 1.5 inch (37.5mm) DIAMETER OR LESS MAY BE DRILLED THROUGH LOWER SIDES OR BOTTOM OF FIREBOX IN A PROPER WORKMANLIKE MANNER. THIS ACCESS HOLE MUST BE PLUGGED WITH NON-COMBUSTIBLE INSULATION AFTER GAS SUPPLY LINE HAS BEEN INSTALLED.” REFRACTORY, GLASS DOORS , SCREEN RAILS, SCREEN MESH AND SOLID-FUEL LOG GRATES (IF APPLICABLE) CAN BE REMOVED FROM FIREPLACE BEFORE INSTALLING UNVENTED FIREPLACE INSERT.

INSTALLATION AND CLEARANCES

To ensure a safe installation into a masonry or factory built fireplace, following instructions must be carefully followed:

(1) Sidewall Clearances:

Clearance from side of fireplace opening to any adjacent combustible wall should not be less than: right side 7", left side 7".

(2) Ceiling Clearances:

The ceiling height should not be less than 24" from the top of fireplace opening.

(3) Mantel Clearances:

Clearances from top of heater to mantel or mantel supports should not be less than 20".

NOTE: See following sections for installation options: Section III, page 24, Installation In A Solid-Fuel Burning Fireplace and Section IV, page 26 Freestanding Installation and Section V, page 28 Alcove Installation and Section VI, page 29 Optional Wooden Mantel Installation

WARNING: ANY CHANGE TO THIS HEATER OR ITS CONTROLS CAN BE DANGEROUS.

GAS CONNECTION

Check gas type. Use only type of gas indicated on valve rating plate. If type of gas listed on plate is not your type of gas supply, **DO NOT INSTALL.** Contact your dealer for proper model.

Always use an external regulator for all LP heaters to reduce supply tank pressure to a maximum of 13" W.C. This is in addition to regulator furnished with heater.

WARNING: CONNECTION DIRECTLY TO AN UNREGULATED LP TANK CAN CAUSE AN EXPLOSION.

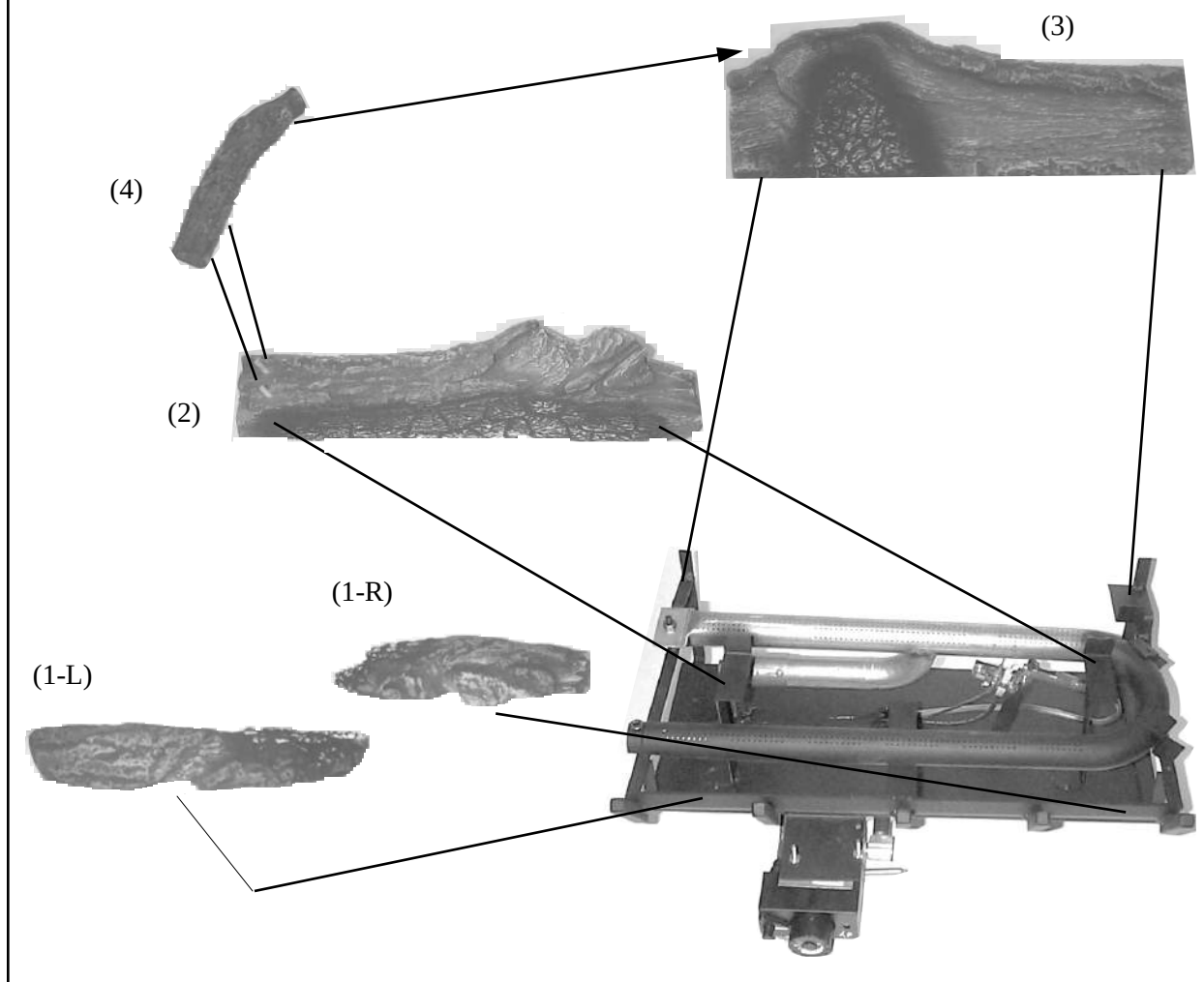
The normal gas connection is 3/8" N.P.T. made at left side (facing front of appliance) of appliance. If a right side connection is desired, connecting pipe may be led under rear of burner base to terminate at right side for connection to inlet of valve.

NOTE: The connecting pipe must be internally tinned copper tubing for use with natural gas. Test for leaks using a solution of soap and water after completing connection. **DO NOT USE OPEN FLAME.**

NOTE: If factory-built fireplace has no gas access hole (s) provided, an access hole of 1.5 inch (37.5mm) diameter or less may be drilled through lower sides or bottom of fire box in a proper workmanlike manner. This access hole must be plugged with non-combustible insulation after gas supply line has been installed.

WARNING: Installation and repairs should be performed by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of appliance be kept clean.

CR3329 CERAMIC LOG SET PLACEMENT FOR MODEL 329

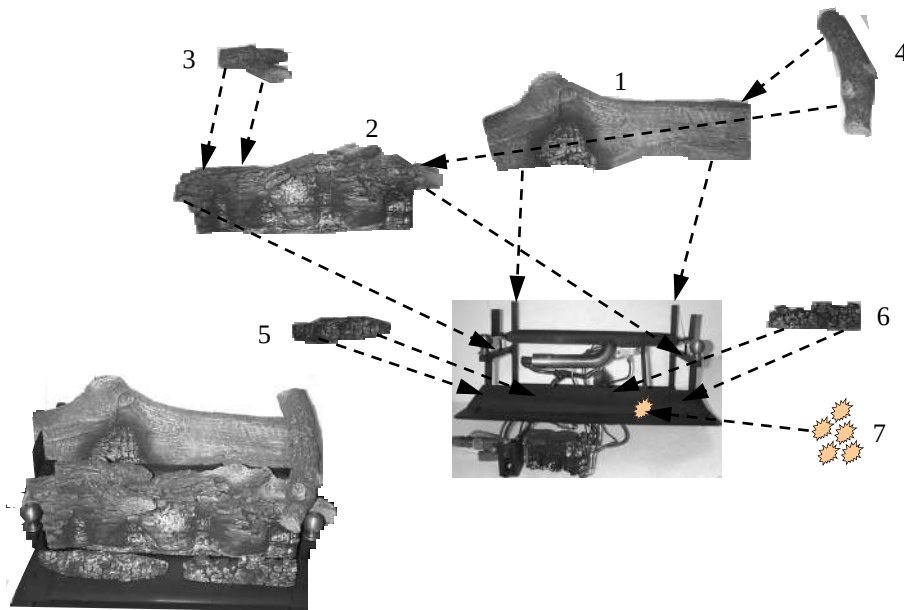


WARNING: Failure to position parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

WARNING: POSITIONING OF LOGS IS VERY CRITICAL (SEE DIAGRAM ABOVE).

- (1) Front Logs #(1L) and #(1R) (Slim Logs wrapped in cardboard box) . Place logs between front portion of burner and log grates, #(1L) on front left and #(1R) on front right with flat ends to outside and jagged edge to inside.
- (2) Middle Glow Log #(2) . Place rear of log on top of middle log supports located in open center portion of burner base. Front of log should rest slightly behind rear line of burner holes on front portion of burner. Align Notch on left front bottom side of log over existing hold down nut of burner. This should align log at right position from left or right on burner.
- (3) Rear Log #(3). Place log in rear log supports center from left to right.
- (4) Left Top Log #(4). Log has two (2) holes in bottom front side. Align holes with two (2) pins located on left top of log #(2). Rear of log #(4) should rest on left top end of rear log #(3).

E.S.B. LOG SET PLACEMENT FOR MODEL 329



“MILLIVOLT ONLY”

WARNING: Failure to position parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

WARNING: POSITIONING OF LOGS IS VERY CRITICAL (SEE DIAGRAM ABOVE).

MODEL E.S.B: Rear Log #(1). Middle Log #(2). Left Top Middle Log #(3). Right Top Middle Log #(4). Left Front Log #(5). Right Front Log #(6). Glowing Embers #(7)-in front of 5 & 6 logs.

LOG PLACEMENT FOR E.V. 100 Series 24” OAK OR PINE LOG SET:

- 1) Place rear log #(1) on rear log supports. The log has alignment notches on each rear corner.
- 2) Place Middle log #(2) in front of rear burner tube and then move log forward. The log should seat just behind brass knob (s), located in middle section of base between rear burner tube and front burner pan.
- 3) Place Left Top Middle log #(3) on pins located on left top section of Middle log #(2).
- 4) Place Right Top Middle log #(4) on pin located on right top section of Middle log #(2) and align notch on right side #(4) with side shield on right.
- 5) Place Left Front log #(5) on the locator pins located on the left middle section of front burner pan.
- 6) Place Right Front log #(6) on locator pins located on right middle section of front burner pan.
- 7) Provided with your log set is a package of Glowing Embers (rock wool). Open package and tear off small pieces of wool material and place it over small holes (ports) located on front burner pan in front of logs #(5) and #(6). Cover entire section of holes (ports).

***Replacement of loose (Glowing Embers) must be purchased from original manufacturer and application of excess loose material may adversely affect performance of heater.**

NOTE: Wash your hands immediately after coming in contact with wool material. The wool can cause slight itching or burning, avoid any contact with eyes.

WARNING: All previously applied loose material must be removed prior to replacement.

GAS PRESSURE CHECK

Check the inlet pressure to burner to ensure that it is as shown in table below.

NOTE: The pressure check point is located on right side of valve facing burner, for SIT Millivolt and left side for SIT Modulating.

The appliance and its appliance main gas valve must be disconnected from gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5kPa). The appliance must be isolated from gas supply piping system by closing its equipment shut-off valve during any pressure testing of gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

VALVE	(MILLIVOLT)		(SIT MANUAL-MODULATING)	
MODEL:	FP329	FP329	FP329	FP329
<u>GAS</u>	<u>Natural</u>	<u>Propane</u>	<u>Natural</u>	<u>Propane</u>
Maximum Heat Input	33,000	33,000	33,000	33,000
Minimum Heat Input	23,000	23,000	12,000	13,000
<u>Gas Inlet Pressure</u>				
Maximum	10.5ins.W.C.	13ins.W.C.	10.5ins.W.C.	11ins.W.C.
Minimum	* 5.0ins.W.C.	*11ins.W.C.	*5.0ins.W.C.	*9.0ins.W.C.
<u>Manifold Pressure</u>				
Maximum	3.5ins.W.C.	9.0ins.W.C.	3.5ins.W.C.	9.0ins.W.C.
Minimum	3.0ins.W.C.	8.2ins.W.C.	2.8ins.W.C.	7.2ins.W.C.

NOTE: On initial installation it may be necessary to bleed out air in gas lines. Do this by holding the control knob and turning knob to “PILOT” position for about 30 seconds. To check regulator pressure, remove pressure tag plug at left side of regulator facing heater. The pressure should be checked with heater burning and control set on high. After measuring pressure, replace pressure tap plug, ensuring that there are no leaks.

* For the purpose of minimum input adjustment.

WARNING

This appliance is equipped for (natural or propane) gas. Field conversion is not permitted.

Solid fuels shall not be burned in same fireplace where an unvented room heater has been installed.

NOTE: The following label has been provided with this appliance and must be read and then attached to floor of fireplace or firebox area beneath the appliance. The label is a peel and stick label. Make sure area is cleaned before attaching the label to it.

WARNING: This solid-fuel burning fireplace or listed vent less enclosure has been converted for use with an unvented fireplace insert only. A solid-fuel burning fireplace cannot be used for burning wood or solid fuels unless all original parts have been replaced and fireplace re-approved by authority having jurisdiction. A vent less firebox enclosure cannot be used with an unvented gas log unless all original parts have been replaced and vent less firebox enclosure re-approved by authority having jurisdiction.

LIGHTING INSTRUCTIONS MILLIVOLT VALVE (ITT)

FOR YOUR SAFETY, READ BEFORE LIGHTING

WARNING

IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

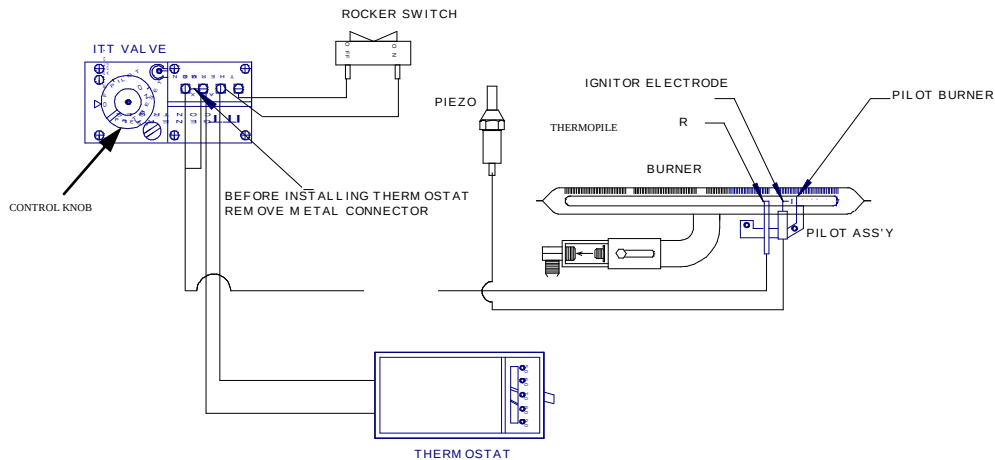
- A. This appliance has a pilot which must be lit by hand. When lighting pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell around appliance for gas. Be sure to smell next to floor because gas is heavier than air and will settle on floor.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow gas supplier's instructions.
 - If you cannot reach your gas supplier, call fire department.
- C. Use only your hand to push in or turn gas control knob. Never use tools. If knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect appliance and to replace any part of control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

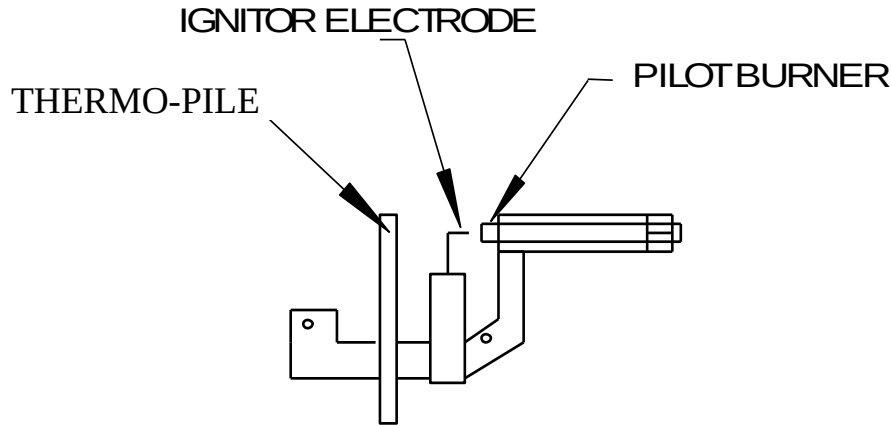
1. **STOP!** Read the safety information on previous page.
2. Make sure manual shutoff valve is fully closed. If equipped with thermostat, set to lowest setting.
3. Turn off all electrical power to appliance.
4. Open access panel door located at bottom front of appliance.
5. Turn control knob clockwise  to full "OFF" position.



When hooking up a wall thermostat to valve, remove Jumper Bar. Do not remove existing wires, simply add wire from wall thermostat to screws (one wire to each screw).

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near floor. If you smell gas, **STOP!** Follow "B" in safety information on previous page. If you don't smell gas, go to next step.
 7. Find Pilot: The pilot is located in front of rear log and burner on right hand side of appliance. Fully open manual shutoff valve.
 8. Push "ON/OFF" toggle switch to "OFF" (rocker switch).
 9. Turn gas control knob counterclockwise  to "PILOT" position. Press in gas control knob for fifteen (15) seconds.
 10. With control knob pressed in, push down (in) and release igniter button (igniter button is located on left hand side of front of appliance). This will light pilot. If needed, keep repeating this step until pilot lights.
 11. Keep control knob pressed in for (1) one minute after lighting pilot. After (1) minute, release gas control knob and it will pop back out. Pilot should remain lit. If pilot goes out, repeat steps 1 through 9.
- If knob does not pop out when released, stop and immediately call your service technician or gas supplier.

- If pilot will not stay lit after several tries, turn gas control knob to “OFF” and call your service technician or gas supplier.



12. Turn control knob counterclockwise  to “ON” position. Push “ON/OFF” toggle switch to “ON” position. The main burner should light.
 13. Close access panel door.
 14. Turn on all electrical power to appliance.
- NOTE:** This unit may be used with an optional wall thermostat. If so, wall thermostat needs to be set at a higher temperature than room temperature.

TO TURN OFF GAS TO APPLIANCE

SHUTTING OFF UNIT

1. Open access panel door located at bottom front of appliance.
2. If equip with thermostat, set to lowest setting.”
3. Turn control knob clockwise  to “OFF” position.
4. Turn off all electric power to the appliance if service is to be performed.
5. Close access panel door.

SHUTTING OFF BURNER ONLY (Pilot stays lit.)

Turn control knob clockwise  to “PILOT” position.

CAUTION

DO NOT TRY TO ADJUST HEATING LEVELS BY USING MANUAL SHUTOFF VALVE.

THERMOSTAT CONTROL OPERATION

- This valve operates off of millivolts produced by a generator. You may choose to use an optional wall thermostat or remote control. If so, see Figure 2, page 11 for wiring diagram.

MANUAL LIGHTING PROCEDURE

1. If pilot cannot be lit with piezo, it can be manually lit with use of a paper match and a lighter rod.
2. Open access panel door located at bottom front of appliance.
3. Place match in holder and light. With left hand, turn control knob counterclockwise  to "PILOT" position. Press in gas control knob for fifteen (15) seconds.
4. Use rod to light match and ignite pilot. The pilot is located in front of rear log and burner on right hand side of appliance.
5. Continue to hold control knob for an additional one (1) minute to ensure pilot is lit.
6. Turn control knob counterclockwise  to "ON" position. Push the "ON/ OFF" toggle switch to "ON" position. The main burner should light.
7. Close access panel door.
8. Turn on all electrical power to appliance.

NOTE: This unit may be used with an optional wall thermostat. If so, wall thermostat needs to be set at a higher temperature than room temperature.

LIGHTING INSTRUCTION
MODULATING OR MANUAL VALVE (SIT)
FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING

IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

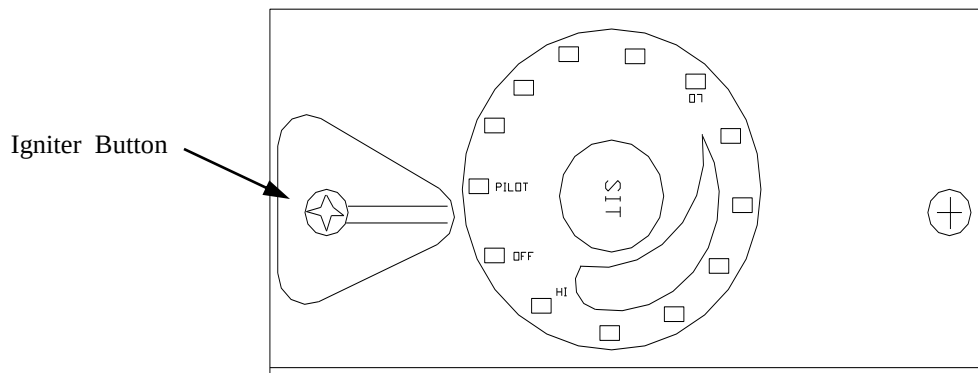
- A. This appliance has a pilot which must be lighted by hand. When lighting pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell all around appliance area for gas. Be sure to smell next to floor because gas is heavier than air and will settle on floor.

WHAT TO DO IF YOU SMELL GAS:

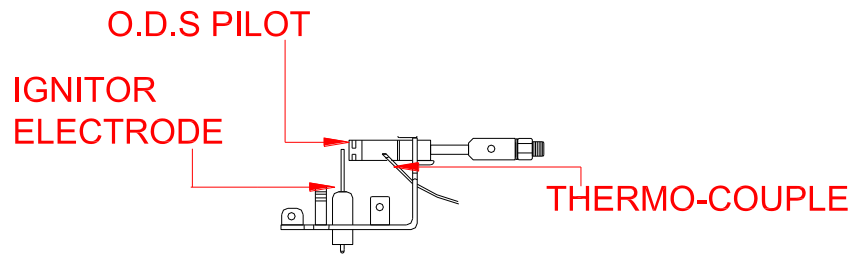
- Do not try to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow gas supplier's instructions.
 - If you cannot reach your gas supplier, call fire department.
- C. Use only your hand to push in or turn gas control knob. Never use tools. If knob will not push in or turn by hand, don't try to repair it call a qualified service technician. Force or attempted repair may result in a fire or explosion."
- D. **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.

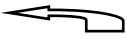
LIGHTING INSTRUCTION

1. **STOP!** Read safety information on preceding page 13.
2. Make sure manual shutoff valve is fully closed.
3. Turn off all electrical power to appliance.
4. Open access panel door located at bottom front of appliance.
5. Turn control knob clockwise  to full “OFF” position.



6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near floor. If you smell gas, **STOP!** Follow “B” on preceding page in the Safety Information. If you don’t smell gas, go to next step.
7. Find Pilot: The pilot is located in front of rear log and burner on right hand side of appliance. Fully open manual shutoff valve.
8. Press in and turn gas control knob counterclockwise  to “PILOT” position continue pressing in control knob for fifteen (15) seconds.
9. With control knob pressed in, push down (in) and release igniter button (igniter button is located on left hand side of gas control valve) . This will light pilot. If needed, keep repeating this step until pilot lights.
10. Keep control knob pressed in for one (1) minute after lighting pilot. After one (1) minute, release control knob and it will pop back out. Pilot should remain lit. If pilot goes out, repeat steps 1 through 9.
 - If knob does not pop out when released, stop and immediately call your service technician or gas supplier.
 - If pilot will not stay lit after several tries, turn gas control knob to “OFF” and call your services technician or gas supplier.



11. Turn gas control knob counterclockwise  to "ON" position. Continue to turn gas control knob counterclockwise  to your desired setting.
12. Close access panel door.
13. Turn on all electrical power to appliance.

CAUTION

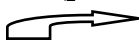
DO NOT TRY TO ADJUST HEATING LEVELS BY USING MANUAL SHUTOFF VALVE.

TO TURN OFF GAS TO APPLIANCE

SHUTTING OFF UNIT

1. Open access cover door.
2. Turn gas control knob clockwise  to full "OFF" position.
3. Turn off all electric power to appliance if service is to be performed.
4. Close access cover door.

SHUTTING OFF BURNER ONLY (pilot stays lit)

Turn control knob clockwise  to "PILOT" position.

CAUTION: Hot while in operation. Do Not Touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.

CAUTION: DO NOT TRY TO ADJUST HEATING LEVELS BY USING MANUAL SHUTOFF VALVE.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to owner's information manual provided with this appliance. Installation and service must be performed by a qualified installer, service agency or gas supplier.

IMPORTANT: Always operate the appliance at completely "ON" or completely "OFF" positions. Never use heater at a setting between these positions as this can result in improper combustion and excessive carbon monoxide emissions.

THERMOSTAT CONTROL OPERATION

1. The thermostat control on this heater differs from standard thermostats. Standard thermostats simply turn burner on and off. The thermostat used on this heater senses room temperature and adjusts amount of gas flow to burner. This will increase or decrease flame height. At times, room may exceed set temperature, which will cause burner to shut off. When room temperature drops below thermostat setting, burner will cycle itself on again. The control knob can be set to any level between “LO” and “HI”.

NOTE: The thermostat sensing bulb measures temperature of air near heater cabinet. This may not always agree with room temperature (depending on housing construction, installation location, room size, open air temperatures, etc.). Frequent use of your heater will allow you to determine your personal comfort levels.

MANUAL LIGHTING PROCEDURE

1. If pilot cannot be lit with piezo, it can be manually lit with use of a paper match and a lighter rod.
2. Open access panel door located at bottom front of appliance.
3. Place match in holder and light. With left hand, turn control knob counterclockwise  to “PILOT” position. Press in gas control knob for fifteen (15) seconds.
4. Use rod to light match and ignite pilot. The pilot is located in front of rear log and burner on right hand side of appliance.
5. Continue to hold control knob for an additional one (1) minute to ensure pilot is lit.
6. Turn control knob counterclockwise  to “ON” position. Push “ON/OFF” toggle switch to “ON” position. The main burner should light.
7. Close access panel door.
8. Turn on all electrical power to appliance.

NOTE: This unit may be used with an optional wall thermostat. If so, wall thermostat needs to be set at a higher temperature than room temperature.

OPERATING INSTRUCTIONS

Before operating this appliance, proceed through following checklist.

1. Read and understand these instructions before operating this appliance.
2. Check that there are no gas leaks. If you smell gas do not attempt to light this appliance.
3. Verify that log placement is correct.

LIGHTING INSTRUCTIONS SIT-MILLIVOLT VALVE FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance has a pilot which must be lit by hand. When lighting pilot follow these instructions exactly. If piezo fails, then light pilot using matches. Refer to match lighting instructions.

B. **BEFORE LIGHTING** smell all around appliance area for gas. Be sure to smell next to floor because some gas is heavier than air and will settle to floor.

WHAT TO DO IF YOU SMELL GAS:

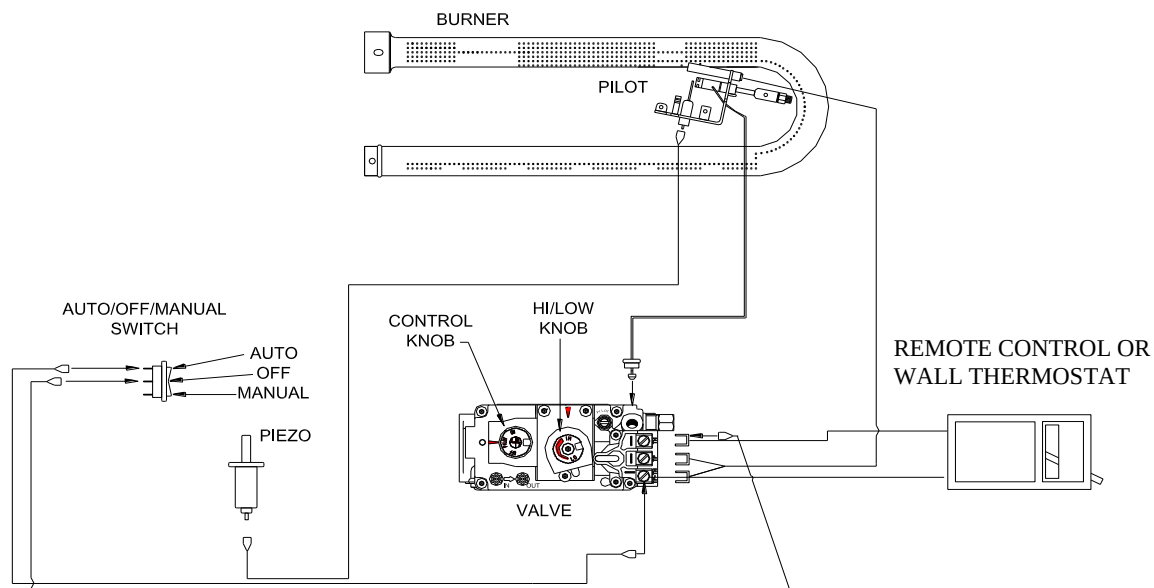
- * Do not try to light any appliance.
- * Do not touch any electric switch; do not use any phone in your building.
- * Immediately call your gas supplier from a neighbor's phone. Follow gas supplier's instructions.
- * If you cannot reach your gas supplier, call fire department.

C. Use only your hand to push in or turn gas knob. Never use tools. If knob will not push in or turn by hand, don't try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any or part of it 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.

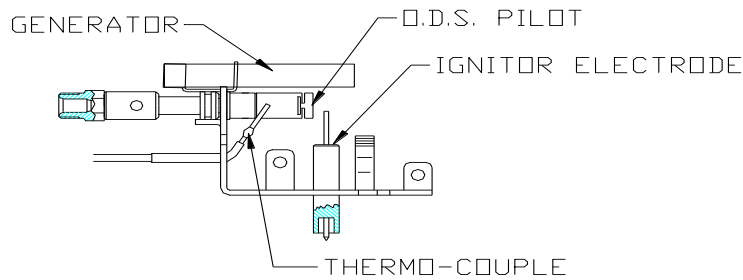
LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information on page 17.
2. Make sure manual shutoff valve is fully closed. If equipped with thermostat, set to lowest setting.
3. Turn off all electrical power to appliance.
4. Open access cover door located at the bottom of front of appliance.
5. Push in gas control knobslightly and turn clockwise  to full "OFF" position.



NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

6. Wait (5) five minutes to clear out any gas. Then smell for gas, including near floor. If you smell gas, STOP! Follow "B" in safety information on reverse side of this label. If you don't smell gas, go to next step.
 7. Find Pilot: The pilot is located in front of rear log and burner on right hand side of appliance. Fully open manual shutoff valve.
 8. Press in and turn knob on gas control counterclockwise  to "PILOT" and continue pressing in knob for (15) fifteen seconds.
 9. With control knob pressed in push down (in) and release igniter button (igniter button is located on left hand side of the front of appliance). This will light pilot. If needed, keep repeating this step until pilot lights.
 10. Keep control knob pressed in for (1) one minute after lighting pilot. After (1) minute, release control knob and it will pop back out. Pilot should remain lit. If pilot goes out, repeat steps 1 through 9.
- If knob does not pop out when released, stop and immediately call your service technician or gas supplier.



- * If pilot will not stay lit after several tries, turn gas control knob to “OFF” and call your service technician or gas supplier.
11. Turn control knob counterclockwise  to “ON”.
 12. If using unit without wall thermostat place Auto/Off/Manual switch into manual position. If using wall thermostat place Auto Off Manual Switch into auto position and place thermostat to a setting higher than room temperature.
 13. Close access door.
 14. Turn on all electrical power to appliance.
 15. Your heater is equipped with a HI & LO control. Turn clockwise for Low and counterclockwise for High.

DO NOT TRY TO ADJUST HEATING LEVELS BY USING MANUAL SHUTOFF VALVE.

CAUTION TO TURN OFF GAS TO APPLIANCE

SHUTTING OFF UNIT

1. Open access cover door.
2. If equipped with thermostat set to lowest setting.
3. Turn control knob clockwise  to full “OFF”.
4. Turn off all electric power to appliance if service is to be performed.
5. Close access cover door.

SHUTTING OFF BURNER ONLY (Pilot stays lit.)

Turn control knob clockwise  to “PILOT” position.

CAUTION: Hot while in operation. Do Not Touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.

CAUTION: DO NOT TRY TO ADJUST HEATING LEVELS BY USING MANUAL SHUTOFF VALVE.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to owner’s information manual provided with this appliance. Installation and service must be performed by a qualified installer, service agency or gas supplier.

IMPORTANT: Always operate appliance at completely “ON” or completely “OFF” positions. Never use heater at a setting between these positions as this can result in improper combustion and excessive carbon monoxide emissions.

MANUAL LIGHTING PROCEDURE

1. If pilot cannot be lit with piezo, it can be manually lit with use of a paper match and a lighter rod.
2. Open access panel door located at bottom front of appliance.
3. Place match in holder and light. With the left hand, turn control knob counterclockwise  to "PILOT" position. Press in gas control knob for fifteen (15) seconds.
4. Use rod to light match and ignite pilot. The pilot is located in front of rear log and burner on right hand side of appliance.
5. Continue to hold control knob for an additional one (1) minute to ensure pilot is lit.
6. Turn control knob counterclockwise  to "ON" position. Push "ON/ OFF" toggle switch to "ON" position. The main burner should light.
7. Close access panel door.
8. Turn on all electrical power to appliance.

NOTE: This unit may be used with an optional Wall Thermostat. If so, Wall Thermostat needs to be set at a higher temperature than room temperature.

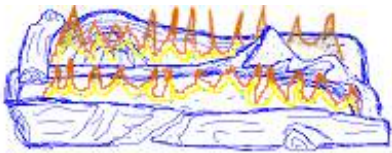
FLAME CHECK

A periodic check of flames should be made. The pilot flame should always be present when gas logs are in operation.

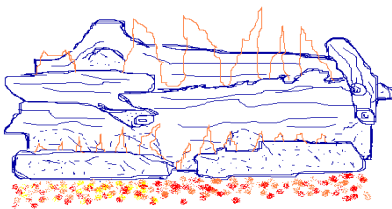
Rear Flames: Flames at rear or at either side of top log should be very similar, yellow in color and should be about 3" to 4" above large rear log for natural gas log. For propane (LP) gas log sets the flame should be about 6".

Front Flame: Flame should be 1-1/2" to 2" high and touch back of front log. This will produce a red glow on this log.

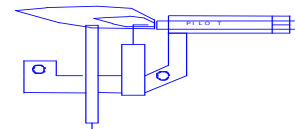
CR 3329 LOG SET



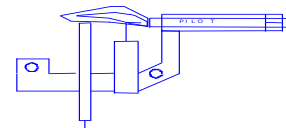
E.S.B. LOG SET



Natural



Propane



WHEN USED AS A HEATING APPLIANCE HEAT OUTPUT

When used as a ventless heater, flue damper of a solid-fuel burning non-combustible fireplace must always be closed.

The heat output is controlled by "ON/OFF" switch or wall thermostat, when using -Millivolt Valve. When using -SIT Modulating or -SIT Manual Valve, heat output is controlled by dial with LOW to HIGH settings. The Vent-Free fireplace may be installed where permitted by local, state and city codes.

In absence of local codes, latest edition of the *National Fuel Gas Code (ANSI Z223.1)* must be met.

WIRING DIAGRAM

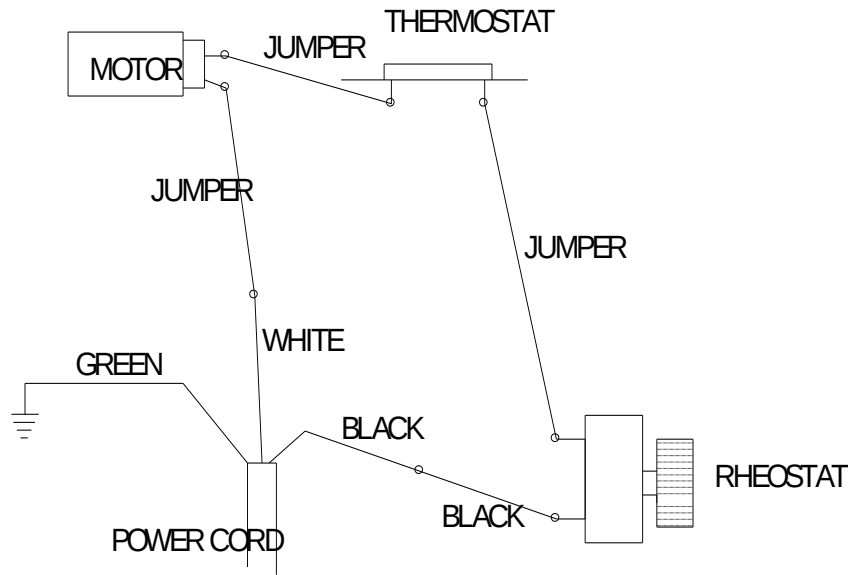


Figure 6

WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO HAZARDS OF HIGH SURFACE TEMPERATURES AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN SAME ROOM WITH APPLIANCE

WARNING: DO NOT PLACE CLOTHING OR OTHER FLAMMABLE MATERIAL ON OR NEAR APPLIANCE.

NOTE: If any of original wire must be replaced, it must be replaced with a wire of at least a 105° C. temperature rating.

NOTE: Installation and repair should be done by a qualified service person. This heater should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments and circulating air passageways of heater be kept clean.

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Verify proper operation after servicing.

WARNING:

ELECTRICAL GROUNDING INSTRUCTION: THIS APPLIANCE IS EQUIPPED WITH A THREE-PRONG (GROUNDING) PLUG FOR YOUR PROTECTION AGAINST SHOCK HAZARD AND SHOULD BE PLUGGED DIRECTLY INTO A PROPERLY GROUNDED THREE-PRONG RECEPTACLE.

NOTE: #PESBR084 Blower Motor
Rating: 120 volts/60HZ/1.1 Amps.
See Figure 6, page 22 for wiring diagram.

NOTE: For convenience, allow licensed electrician to install properly grounded 3-plug receptacle near unit.

ROOM BLOWER INSTALLATION AND OPERATION INSTRUCTIONS

Room air blower is located at rear of unit in bottom chamber. To remove or replace blower, open lower louvered access door. The motor is located right center in rear. Remove two (2) hex head screws holding motor and motor bracket to outer bottom of unit. Unhook two motor wires and remove motor from unit. Next remove (2) screws that fasten motor bracket to motor. Locate motor bracket onto new motor in same position as with old motor. Using two (2) hex head screws fasten bracket to new motor. Place new motor into lower compartment.

NOTE: Make sure motor opening 1"x 5" is behind inner wall of stove and not touching any metal. Fasten new motor and bracket to motor support on bottom of unit. Hook motor wires as shown in the diagram on page 22.

Installation and repairs should be performed by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of appliance be kept clean.

SECTION III

INSTALLATION MODEL 329 (FP)

IN SOLID FUEL BURNING FIREPLACES

- (1) Model 329 (FP) may be installed in a masonry fireplace. **Minimum fireplace dimension** must be 24" high, 29-1/2" wide, and 6" deep.
- (2) For minimum dimensions for sidewall and mantel, see Figure 7.
- (3) Center heater in fireplace opening.
- (4) **NOTE:** See "Producing Adequate Ventilation" page 32.

NOTE: Installer of this appliance must mechanically (peel and stick) attach the marking supplied with this unvented appliance before installing to inside of firebox of solid-fuel burning fireplace or listed vent less firebox enclosure into which unvented fireplace insert is installed. See example of marking on page 8 of this manual.

CAUTION: Cutting any sheet-metal parts of solid-fuel burning fireplace or listed vent less enclosure in which unvented fireplace is to be installed is prohibited.

NOTE: If factory-built fireplace has no gas access hole (s) provided, an access hole of 1.5 inch (37.5) diameter or less may be drilled through lower sides or bottom of firebox. This access hole must be plugged with non-combustible insulation after gas supply line has been installed.

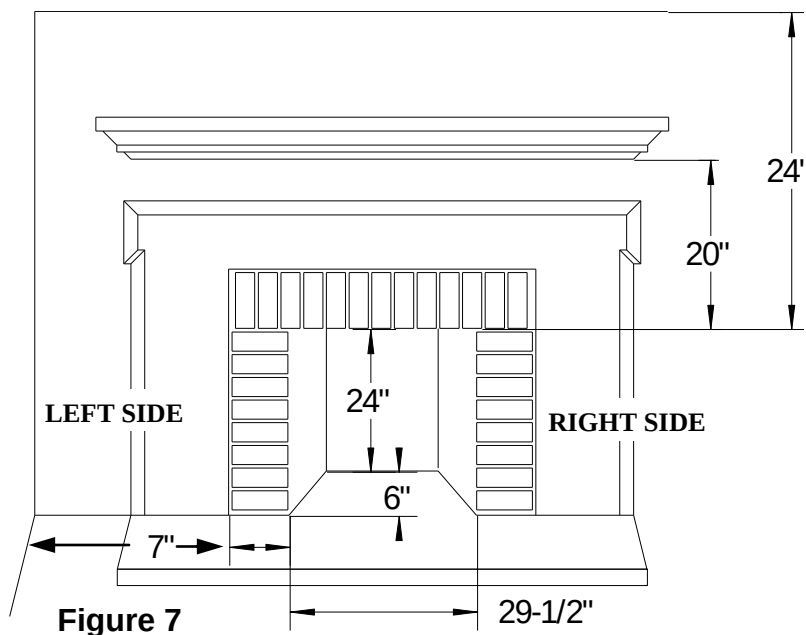
Refractory, glass doors, screen rails, screen mesh and solid-fuel log grates (if applicable) can be removed from fireplace before installing unvented fireplace insert.

Smoke shelves, shields and baffles may be removed if attached by mechanical fasteners.

Trim panels or surrounds shall not seal ventilation openings in fireplace.

NOTE: After unit is positioned in fireplace, mark trim panels as follows:

- A. Set the side panels in place, flat against fireplace. Mark down inside edge of the trim panel to make a vertical reference line.



B. Set top (long) trim panel in place on top of unit. The panel should be flat against outside face of fireplace and standing vertically. Mark along lower edge of trim panel with a pencil to make reference line for mounting.

(4) Slide the unit out of fireplace far enough to work behind trim panel reference lines with a screw gun.

NOTE: You need to make sure supply gas line is hooked up at this time. Be sure to check for leaks at connection using soap and water. **DO NOT USE OPEN FLAME TEST FOR LEAKS.**

(5) With screws provided with fireplace kit, attach both side trim panels. Next, attach top trim panels.

(6) Slide heater back into fireplace with trim panels flat against face of fireplace.

(7) After hooking up gas line, checking for leaks, and mounting trim panels slide heater into fireplace.

(8) Place logs on burner base as shown on page 6. or 7.

(9) For gas hook-up and pressure tap test, see instruction in Section II.

WARNING: Solid-Fuels shall not be burned in a fireplace in which an unvented room heater is installed.

CAUTION: Any outside air ducts and/or ash dumps in fireplace shall be permanently closed at time of appliance installation.

WARNING: Before installing in a solid-fuel burning fireplace, chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner.

SECTION IV

MODEL 329(FS)

FREESTANDING INSTALLATION

- (1) Determine exact position of your gas heater.

NOTE: Due to high temperatures, this heater should be located out of traffic areas and away from furniture and draperies.

NOTE: For safe installation the minimum clearances must be met. See Figure 9.

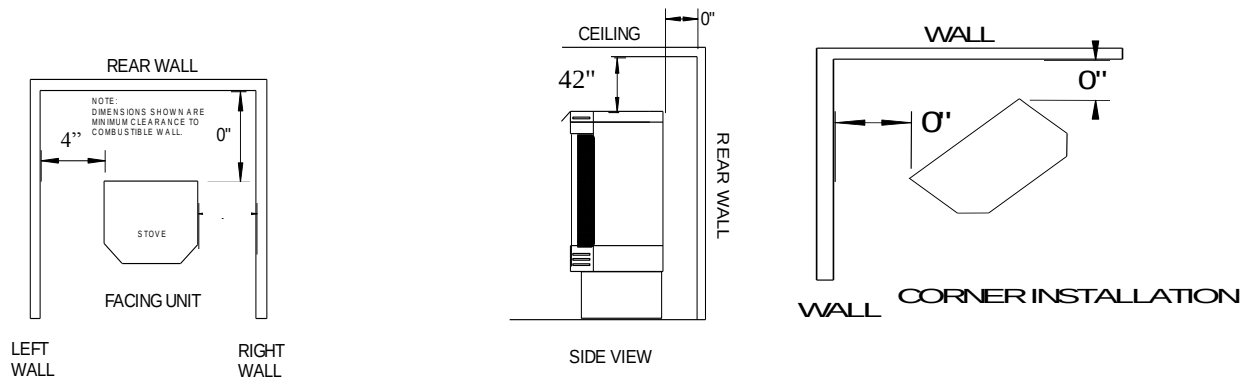


Figure 9

CAUTION: The installation must conform with local codes or in absence of local codes, with *National Fuel Gas Code, ANSI Z223.1/NFPA54*.

NOTE: See Section II for gas hookup and pressure check.

- (2) Make sure you have right valve for your type of gas. Check label on side of valve. Position logs as shown in Log Placement Section, Page 6. Or 7. Position screen before leaving heater unattended.

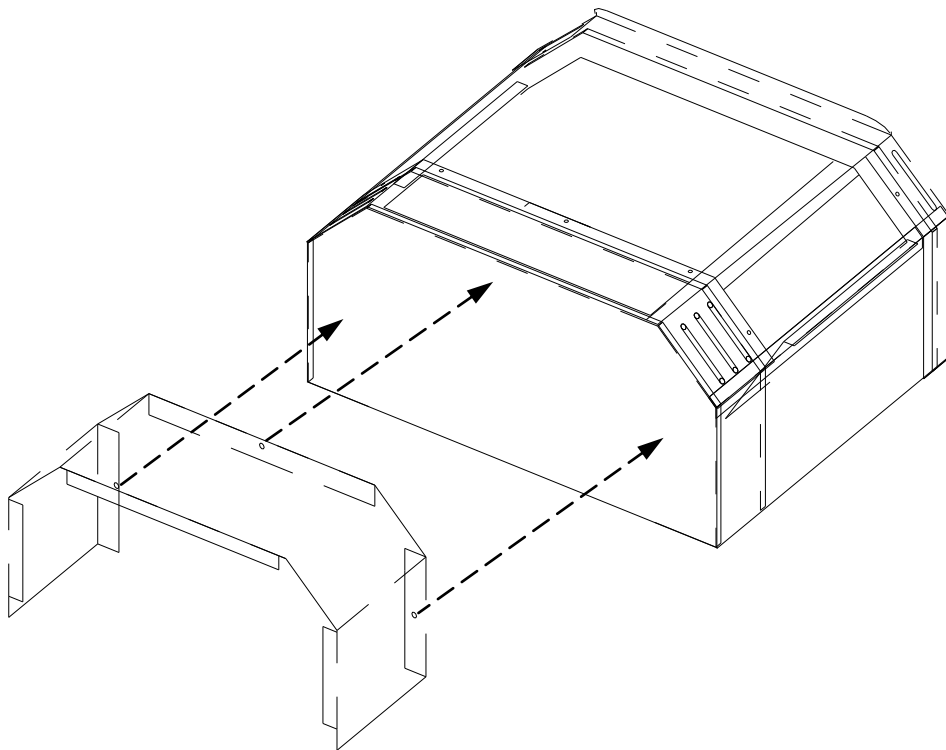
This appliance is only for use with type of gas indicated on rating plate. This appliance is not convertible for use with other gases.

WARNING: Young children should be carefully supervised when they are in same room with appliance. Children and adults should be alerted to hazards of high surface temperature and should stay away to avoid burns or clothing ignition.

WARNING: When appliance is installed directly on carpeting, tile or other combustible material, other than wood flooring, appliance shall be installed on a metal or wood panel extending full width and depth of appliance.

FREESTANDING PEDESTAL INSTALLATION

- (1) Lay the heater on its back (use a drop-cloth to protect back of heater and surface of your flooring). Place pedestal against bottom of heater. Center pedestal from left to right and from front to rear. Mark holes on angle on top of pedestal. Lay the pedestal aside. Drill through marks. Replace pedestal and secure with provided screws.
- (2) Stand heater to upright position. Place heater in the desired location. At this point you may want to secure the pedestal to floor with screws or with a “ell” bracket.
- (3) Hook up gas supply line. Check for leaks with mild soapy water. See page 5, Installation Clearances and Gas Connection.



SECTION V

MODEL 329

ALCOVE INSTALLATION

CAUTION: READ ENTIRE MANUAL BEFORE INSTALLING HEATER.

- (1) For clearances, see Figure 10. The minimum must be met.
- (2) For Installation and Gas Hookup Connection see Section II.

CAUTION: The installation must conform with local codes or in absence of local codes, with *National Fuel Gas Code, ANSI Z223.1/NFPA54*.

WARNING: DO NOT USE THIS HEATER IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT ROOM HEATER AND TO REPLACE ANY PART OF CONTROL SYSTEM AND GAS CONTROL WHICH HAS BEEN UNDER WATER.

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PERSONAL INJURY, LOSS OF LIFE OR PROPERTY DAMAGE. REFER TO THIS MANUAL.

WARNING: ANY CHANGE TO THIS HEATER OR ITS CONTROLS CAN BE DANGEROUS.

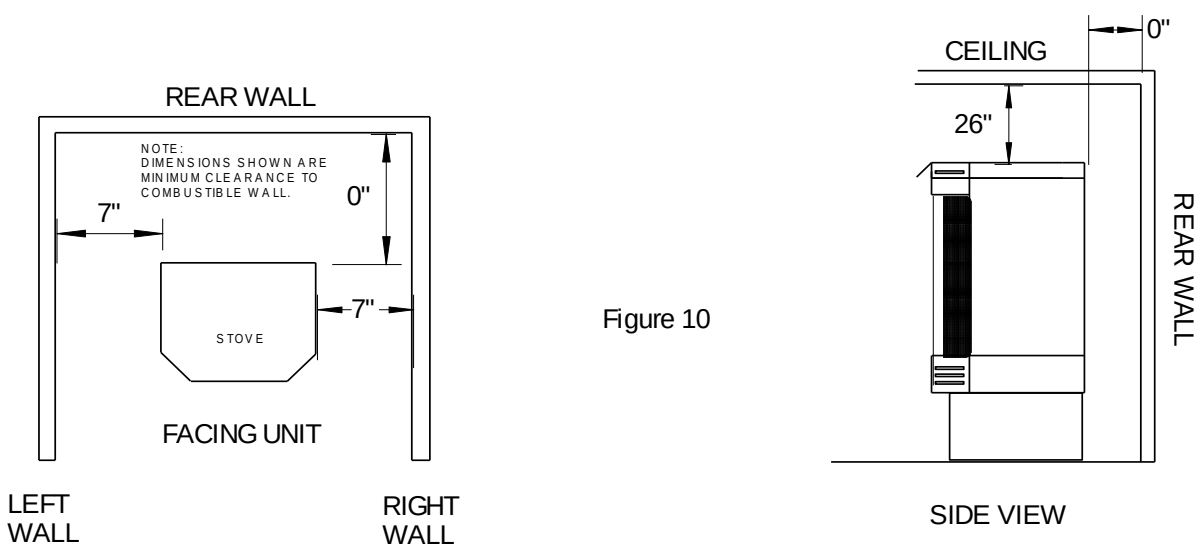


Figure 10

SECTION VI

INSTALLATION OF MODEL 329 (WS) WITH OPTIONAL WOODEN SURROUND (KIT#PAKDFP34)

See page 24, figure 7 for Clearances to Combustible Materials.

(1) When choosing right location for your heater and mantel keep following in mind:

NOTE: Due to high temperatures, this heater should be located out of traffic areas and away from furniture and draperies.

CAUTION: The installation must conform with local codes or in absence of local codes, with *National Fuel Gas Code, ANSI Z223.1/NFPA54*.

NOTE: See Section II for gas hookup and pressure check.

WARNING: Young children should be carefully supervised when they are in same room with appliance. Children and adults should be alerted to hazards of high surface temperature and should stay away to avoid burns or clothing ignition.

(2) Position screen before leaving heater unattended.

(3) **Follow instructions for assembly of Wooden Surround (Mantel) supplied with mantel.**

TOOLS NEEDED: Medium Phillips screwdriver, tape measure, power drill and 5/16" socket.

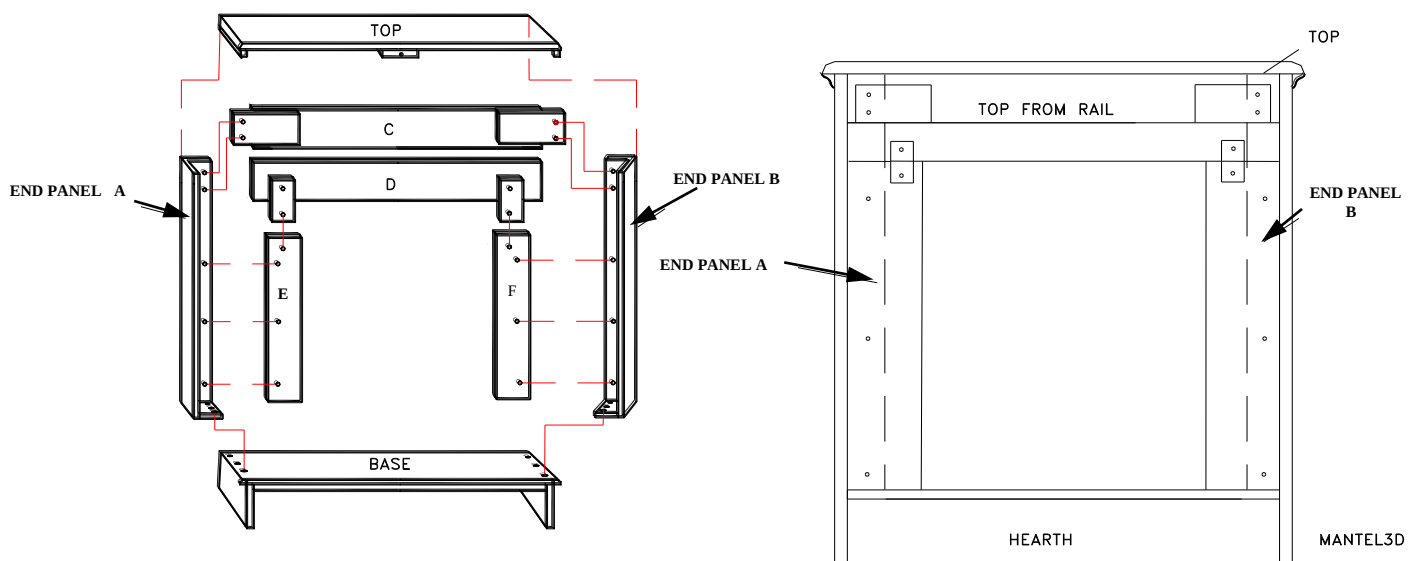
STEP 1: Lay out all components.

STEP 2: Assemble end panels A & B to top front rail C.

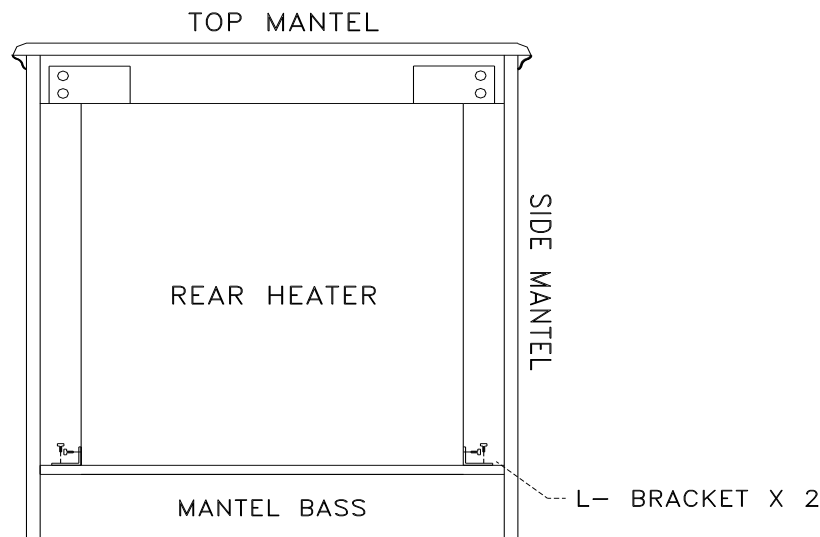
STEP 3: Stand end panels and top front rail into hearth.

NOTE: (Position back of end panels with back of hearth centering assembly from each end). Install front screws first, then pull back towards inside to square mantel. Install screws through back holes.

(4) The owner must decide at this time if parts D, E, and F are to be wood or green. Beginning with panel E stand chosen color face out on hearth flush against stop block located inside end panel A and attach. Position the left end of top window D on top of E and attach. Slide panel F under right end of D and attach. Slide panel F under right end of D and attach.



- (5) After mantel has been assembled, take metal strips out of box supplied with mantel. Position side strips on each side of your 329 with a maximum of 9 3/4" from back of stove to edge of your metal strip. Attach with self tapping screws.
- (6) Take top strip and screw it to top of your 329 overlapping your side panels on it.
- (7) Place a cloth or blanket over front portions of mantel as not to scar wooden part of mantel.
- (8) Take fireplace and slide it into opening of mantel from front side. Slide it in far enough that edge of side and top panels snug up against front side of your mantel. Center up.
- (9) Remove cloth or blanket from underneath stove.
- (10) Take two metal "ell" brackets with screws provided and anchor back of fireplace to mantel.
- (11) Place top on to mantel, flush with back and equal on each end. Secure both ends and middle with screws.



Installation and repairs should be performed by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of appliance be kept clean.

SURROUND (MANTEL) DIMENSIONS

Style: Wall

Standard Mantel; 49 1/2" Width, 18 1/2" Depth, 44" Height

Light Oak Mantel; 50" Width, 21 3/4" Depth, 43 1/2" Height

Style: Corner

Standard Mantel; 49 1/2" Width, 39" Depth (center)

Light Oak Mantel; 52 1/2" Width, 44 1/2" Depth (center)

SECTION VII

AFTER MARKET MOBILE HOME INSTALLATION

This appliance may be installed in an After Market* Manufactured Mobile Home, where not prohibited by state or local codes.

- (After Market: Completion of sale, not for purpose of resale from manufacturer).

For mobile home installation instruction follow instructions provided in this manual completely.

This appliance is only for use with type of gas indicated on rating plate. This appliance is not convertible for use with other gases.

NOTE: See section VIII for “**Producing Adequate Air For Combustion And Ventilation**”.

PRODUCING ADEQUATE AIR FOR COMBUSTION AND VENTILATION

This section is for residential or manufactured (mobile) installation

This heater shall not be installed in unusually tight construction or unconfined space unless provisions are adequate for combustion and ventilation air.

NOTE: This heater shall not be installed in a room or space unless required volume of indoor combustion air is provided by method in *National Fuel Gas Code, ANSI Z223.1/NFPA 54, International Fuel Gas Code* or applicable codes.

The **National Fuel Gas Code, ANSI Z223.1/NFPA 54** defines unusually tight construction or unconfined space as a space whose volume is less than 50 cubic feet per 1,000 BTU per hour (4.8m^3 per kw) of aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 BTU per hour (4.8m^3 per kw) of aggregate input rating of all appliances installed in that space. Rooms communicating directly with space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

WARNING: IF AREA IN WHICH HEATER MAY BE OPERATED DOES NOT MEET THE REQUIRED VOLUME FOR INDOOR COMBUSTION AIR, COMBUSTION AND VENTILATION AIR SHALL BE PROVIDED BY ONE OF METHODS DESCRIBED IN NATIONAL FUEL GAS CODE, ANSI Z223.1/NFPA 54, INTERNATIONAL FUEL GAS CODE OR APPLICABLE CODES.

WARNING: IF AREA IN WHICH HEATER MAY BE OPERATED IS SMALLER THAN THAT DEFINED AS AN UNCONFINED SPACE OR IF BUILDING IS OF UNUSUALLY TIGHT CONSTRUCTION, PROVIDE ADEQUATE AIR FOR COMBUSTION AND VENTILATION BY ONE OF METHODS DESCRIBED IN NATIONAL FUEL GAS CODE, ANSI Z223.1/NFPA 54 AIR FOR COMBUSTION AND VENTILATION OR APPLICABLE LOCAL CODES.

Unusually tight construction is defined as construction where:

- a) Walls and ceilings exposed to outside atmosphere have a continuous water vapor retarder with a rating of 1 perm (6×10^{-11} kg per pa-sec- m^2) or less with openings gasketed or sealed;
- b) Weather stripping has been added on openable windows and doors.
- c) Caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical and gas lines and at other openings.

NOTE: SOME AREAS IN UNITED STATES HAVE HIGHER REQUIREMENTS FOR CUBIC FEET PER 1000 BTU/ HOUR INPUT. (EX. CINCINNATI, OHIO CODES REQUIRE 70 CUBIC FEET). CHECK YOUR LOCAL CODE BEFORE INSTALLATION.

DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

DETERMINE IF YOU HAVE UNUSUALLY TIGHT CONSTRUCTION OR UNCONFINED SPACE

Use this worksheet to determine if you have unusually tight construction or unconfined space.

SPACE: Includes room in which you will install heater plus adjoining rooms with doorless passageways or ventilation grills between the rooms.

1. **Determine the volume of space (length x width x height).**

Length x Width x Height = _____ cu.ft.(volume of space)

EXAMPLE: 20 ft.(Length) x 16 ft.(Width) x 8 ft.(ceiling Height)=
2560 cu. ft. (volume of space)

If additional ventilation to adjoining room is supplied with grills or openings, add volume of these rooms to the total volume of space.

2. **Divide space volume by 50 cubic feet to determine maximum BTU/Hr space can support.**

_____ (volume of space)/50 cu. ft. =maximum BTU/Hr space can support)

EXAMPLE: 2560 cu. ft. (volume of space /50 cu. Ft .= 51.2 or
51200 (maximum BTU/Hr space can support)

3. **Add BTU/Hr of all fuel burning appliances in space.**

Vent-free heater	_____	BTU/Hr
Gas water heater*	_____	BTU/Hr
Gas furnace	_____	BTU/Hr
Vented gas heater	_____	BTU/Hr
Gas fireplace logs	_____	BTU/Hr
Other gas appliances*	+ _____	BTU/Hr
Total	= _____	BTU/Hr

Example: Gas water heater 40000 BTU/Hr
Vent-free heater + 18000 BTU/Hr
Total = 58000 BTU/Hr

*Does not include direct-vent gas appliances. Direct-vent draws combustion air from outdoors and vents to outdoors.

4. **Compare the maximum BTU/Hr space can support with actual amount of BTU/Hr used.**

_____ BTU/Hr (maximum space can support)
_____ BTU/Hr (actual amount of BTU/Hr used)

Example: 51200 BTU/Hr (maximum the space can support)
58000 BTU/Hr (actual amount of BTU/Hr used)

The space in above example is a unusually tight construction because actual BTU/Hr used is more than maximum BTU/Hr space can support. You must provide additional fresh air. Your options are as follows: A. Rework worksheet, adding space of an adjoining room. If extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See "Ventilation Air From Inside Building", page 34.

B. Vent room directly to outdoors. See "Ventilation Air From Outdoors", page 35.

C. Install a lower BTU/Hr heater, if lower BTU/Hr size makes room unconfined.

If actual BTU/Hr used is less than maximum BTU/Hr space can support, space is an unconfined space. You will need no additional fresh air ventilation.

WARNING: YOU MUST PROVIDE ADDITIONAL VENTILATION AIR IN A UNUSUALLY TIGHT CONSTRUCTION.

AIR FOR COMBUSTION AND VENTILATION INSIDE BUILDING

This fresh air would come from an adjoining unconfined space. When venting to an adjoining space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of floor on wall connecting two spaces. (See Options 1 and 2, Figure 11.) You can also remove door into adjoining room. (See Option 3, Figure 11.)

WARNING

REWORK WORKSHEET, ADDING SPACE OF ADJOINING UNCONFINED SPACE. COMBINED SPACES MUST HAVE ADEQUATE AMOUNT OF AIR TO SUPPLY ALL APPLIANCES IN BOTH SPACES.

NOTE: Each opening shall have a minimum free area of 1 square inch per 1000 BTU's per hour of total input ratings of all gas utilization equipment in confined space, but not less than 100 square inches.

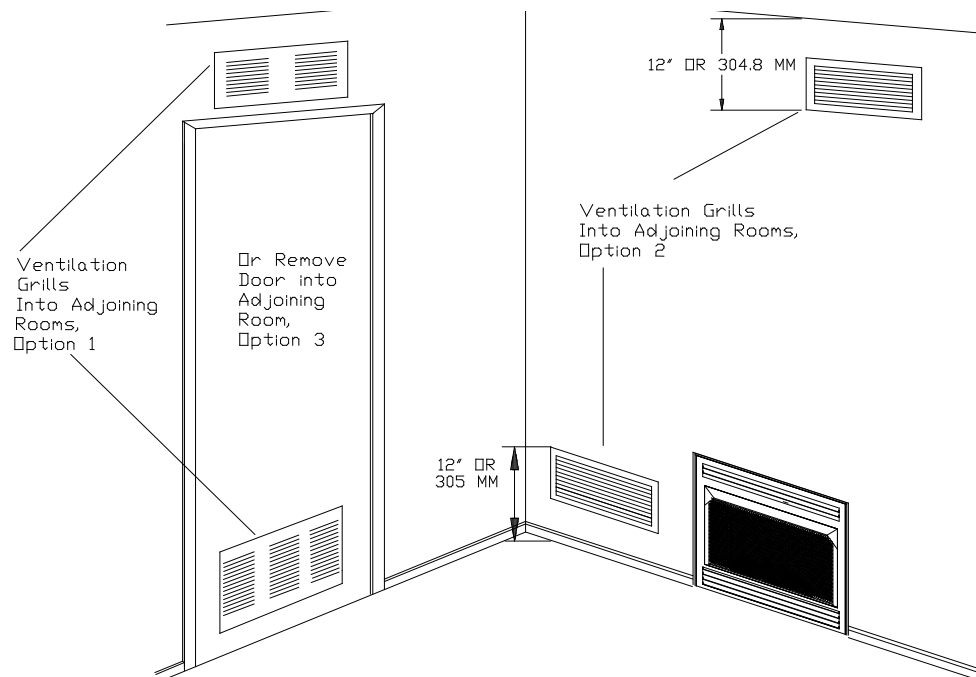


Figure 11 Ventilation Air From Inside Building



WARNING

THIS HEATER MUST HAVE ADEQUATE AMOUNT OF AIR FOR PROPER OPERATION. IF NOT, POOR FUEL COMBUSTION COULD RESULT. READ THE FOLLOWING INSTRUCTIONS TO ENSURE PROPER AMOUNT OF AIR FOR THIS AND OTHER FUEL-BURNING APPLIANCES IN YOUR HOME.

AIR FOR COMBUSTION AND VENTILATION OUTDOORS

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of ceiling and one within 12" of floor. Connect these items directly to outdoors. These spaces include attics and crawl spaces. Follow **National Fuel Gas Code NFPA 54/ANSI Z223.1, Section 5.3**, "Air For Combustion and Ventilation" for required size of ventilation grills or ducts.

IMPORTANT: Do not provide openings for inlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate power unit.

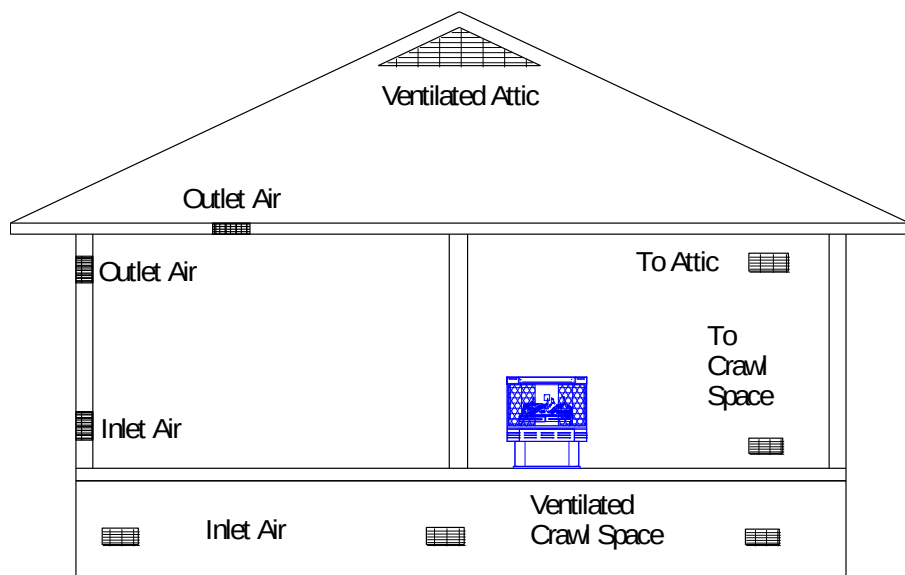


Figure 14 - Ventilation Air From Outdoors

IMPORTANT SAFEGUARDS

Although your gas logs are very realistic in appearance, it is not a real burning fireplace and must not be used for burning rejected material.

- To avoid irreparable damage to heater or personal injury, matches, paper, garbage or any other material **must not** be placed or thrown on top of Logs or into flames.
- To avoid personal injury, do not touch hot surfaces when heater is operating.
- Close supervision is necessary when heater is being operated near children.

WARNING:

THE LOGS ARE MANUFACTURED FROM BONDED CERAMIC FIBER. THIS IS A COMMONLY USED MATERIAL IN INDUSTRY WORLDWIDE. IN EVENT THAT A LOG SHOULD BE REMOVED, CARE SHOULD BE TAKEN NOT TO DAMAGE BONDED MATERIAL. INTENTIONAL MISUSE OR DELIBERATELY FRAGMENTING MATERIAL COULD LEAD TO INHALING FIBERS AND BE HAZARDOUS TO YOUR HEALTH.

THIS HEATER IS INTENDED FOR USE AS A GAS HEATER FIREPLACE AS DESCRIBED IN THESE INSTRUCTIONS. IT SHOULD NOT BE USED FOR ANY OTHER PURPOSE.

CLEANING

CAUTION: BEFORE CLEANING OR MOVING THESE LOGS OR OTHER PARTS OF HEATER, BE SURE TO READ ABOVE SECTIONS ON IMPORTANT SAFEGUARDS.

The appliance must be turned “OFF” before cleaning inside firebox (burn area), make sure pilot is “OFF” completely and appliance has cooled.

- All cleaning should be carried out when heater is cold. Limited cleaning is required with normal use. Dusting front of base, top of piezo cover or control knob panel may be required occasionally. Do not use cleaning fluids to clean the logs or any other part of heater.
- If flames show unusual shapes or behavior or if burner fails to ignite properly, burner holes may require cleaning. If this occurs, contact your nearest dealer to service heater.
- The heater can be cleaned by removing logs. Lift logs gently, as not to damage fiber pieces, use caution when removing. Lift each log by holding it carefully at each end. Use a vacuum cleaner to remove dust and loose particles from base, logs and around burner and ODS/Pilot. Gloves are recommended to prevent fibers from breaking skin. If skin is broken, clean with soap and water.

WARNING: Failure to keep primary air opening (s) of the burner (s) clean may result in soot and property damage.

TROUBLESHOOTING

WARNING

TURN OFF AND UNPLUG HEATER AND LET COOL BEFORE SERVICING. ONLY A QUALIFIED SERVICE PERSON SHOULD SERVICE AND REPAIR HEATER.

CAUTION

NEVER USE A WIRE, NEEDLE OR SIMILAR OBJECT TO CLEAN ODS/PILOT. THIS CAN DAMAGE ODS/PILOT.

OBSERVED PROBLEM	POSSIBLE CAUSE	SOLUTION
Igniter button is pressed no spark at ODS/Pilot	1. Igniter electrode positioned incorrectly	1. Replace igniter
	2. Igniter electrode broken	2. Replace igniter
	3. Igniter electrode not connected to igniter cable	3. Reconnect igniter cable
	4. Igniter cable pinched or wet	4. Free igniter cable if pinched by any metal or tubing. Keep igniter cable dry
	5. Piezo igniter nut is loose	5. Tighten nut holding piezo igniter to heater cabinet. Nut is located inside heater cabinet at top
	6. Broken igniter cable	6. Replace igniter cable
	7. Bad piezo igniter	7. Replace piezo igniter
OBSERVED PROBLEM	POSSIBLE CAUSE	SOLUTION
Igniter button is pressed Spark at ODS/Pilot No Ignition	1. Gas supply turned off or manual shutoff valve is closed	1. Turn on gas supply or open manual shutoff valve
	2. Control knob not in PILOT position	2. Turn control knob to PILOT position
	3. Control knob not pressed in while in PILOT position	3. Press in control knob while in PILOT position

- | | |
|---|--|
| 4. Air in gas lines when installed | 4. Continue to hold down control knob. Repeat igniting operation until air is removed. |
| 5. Depleted gas supply | 5. Contact local propane gas company |
| 6. ODS/Pilot is clogged | 6. Clean ODS/Pilot or replace ODS/Pilot assembly |
| 7. Gas regulator setting is not correct | 7. Replace gas regulator |

OBSERVED PROBLEM	POSSIBLE PROBLEM	SOLUTION
ODS/PILOT lights but flame goes out when control knob is released	- Control knob is not fully pressed in - Control knob not pressed in long enough - Safety interlock system has been triggered (if equipped) - Manual shutoff valve not fully open - Thermocouple connection loose at control valve - Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem can be caused by one or both of the following: - low gas pressure - dirty or partially clogged ODS/Pilot - Control valve damaged	- Press control knob completely - After ODS/Pilot lights keep control knob pressed 30 seconds - Wait 1 minute for safety interlock system to reset - Fully open manual shutoff valve - Hand tighten until snug, then tighten 1/4 turn A) contact local propane gas company B) Clean ODS/Pilot (See Cleaning and Maintenance), or replace ODS/Pilot assembly - Replace valve control

OBSERVED PROBLEM	POSSIBLE CAUSE	SOLUTION
Burner does not light after ODS/ Pilot is lit	1. Burner orifice is clogged 2. Inlet gas pressure is too low	1. Clean burner (see Cleaning and Maintenance) or replace burner orifice 2. Contact local propane gas company
Delayed ignition of burner	1. Manifold pressure is too low 2. Burner orifice is clogged	1. Contact local propane gas company. 2. Clean burner (see Cleaning and Maintenance) or replace burner orifice
Burner backfiring during combustion	1. Burner orifice is clogged or damaged 2. Burner damaged 3. Gas regulator defective	1. Clean burner (see Cleaning and Maintenance) or replace burner orifice 2. Replace burner 3. Replace gas regulator
Slight smoke or odor during initial operation	1. Residues from manufacturing process	1. Problem will stop after a few hours of operation
Heater produces a whistling noise when burner is lit	1. Turning control knob to HI position when burner is cold (if equipped with this type of valve) 2. Air in gas line 3. Air passageways on heater blocked 4. Dirty or partially clogged burner orifice	1. Turn control knob to LOW position and allow to warm 2. Operate burner until air is removed from line. Call local propane company to check gas line. 3. Observe minimum installation clearances 4. Clean burner or replace orifice

WARNING

IF YOU SMELL GAS:

- * **DO NOT TRY TO LIGHT APPLIANCE**
- * **DO NOT TOUCH ANY ELECTRICAL SWITCH; DO NOT USE ANY PHONE IN YOUR BUILDING**
- * **IMMEDIATELY CALL YOUR GAS SUPPLIER FROM A NEIGHBOR'S PHONE. FOLLOW GAS SUPPLIER'S INSTRUCTIONS.**
- * **IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL FIRE DEPARTMENT.**

IMPORTANT: Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc. create fumes. These fumes may mix with combustion air and create odors.

OBSERVED PROBLEM	POSSIBLE CAUSE	SOLUTION
Heater produces a clinking/ticking noise just after burner is lit or shut off	1. Metal expands while heating or contracts while cooling	1. This is common with most heaters. If noise is excessive, contact a qualified service person
Heater produces unwanted odors	1. Heater burning vapors from paint, hairspray, glues, etc. (See Important above) 2. Low fuel supply 3. Gas leak (See WARNING above)	1. Ventilate room. Stop using odor causing products while heater is running 2. Refill supply tank 3. Locate and control all leaks. See Checking Gas Connections
Heater shuts off in use (ODS operates)	1. Not enough fresh air is available 2. Low line pressure 3. ODS/Pilot is partially clogged	1. Open window/door for ventilation 2. Contact local propane co. 3. Clean ODS/Pilot
Gas odor even when control knob is in OFF position	1. Gas leak (See WARNING , above) 2. Control valve defective	1. Locate and correct all leaks (see Checking Gas Connections) 2. Replace control valve
Gas odor during combustion	1. Foreign matter between control valve and burner 2. Gas leak (See WARNING , above)	1. Remove foreign matter from gas tubing 2. Locate and correct all leaks (see Checking Gas Connections)

SERVICING

Repair and replacement work should only be performed by a qualified service technician.

Always shut off gas supply and make sure heater is cool before beginning any service operation. Check for gas leaks after servicing.

REPAIR PARTS

A parts list with exploded view follows. Always include correct name, part number and model number of heater when ordering service parts. Please contact your local dealer or distributor when ordering . If one is not available, you may contact.

NEW BUCK CORPORATION
200 ETHAN ALLEN DRIVE, PO. BOX 69
SPRUCE PINE, NC 28777

REPLACEMENT PARTS

ITT VALVE 19GL BASE

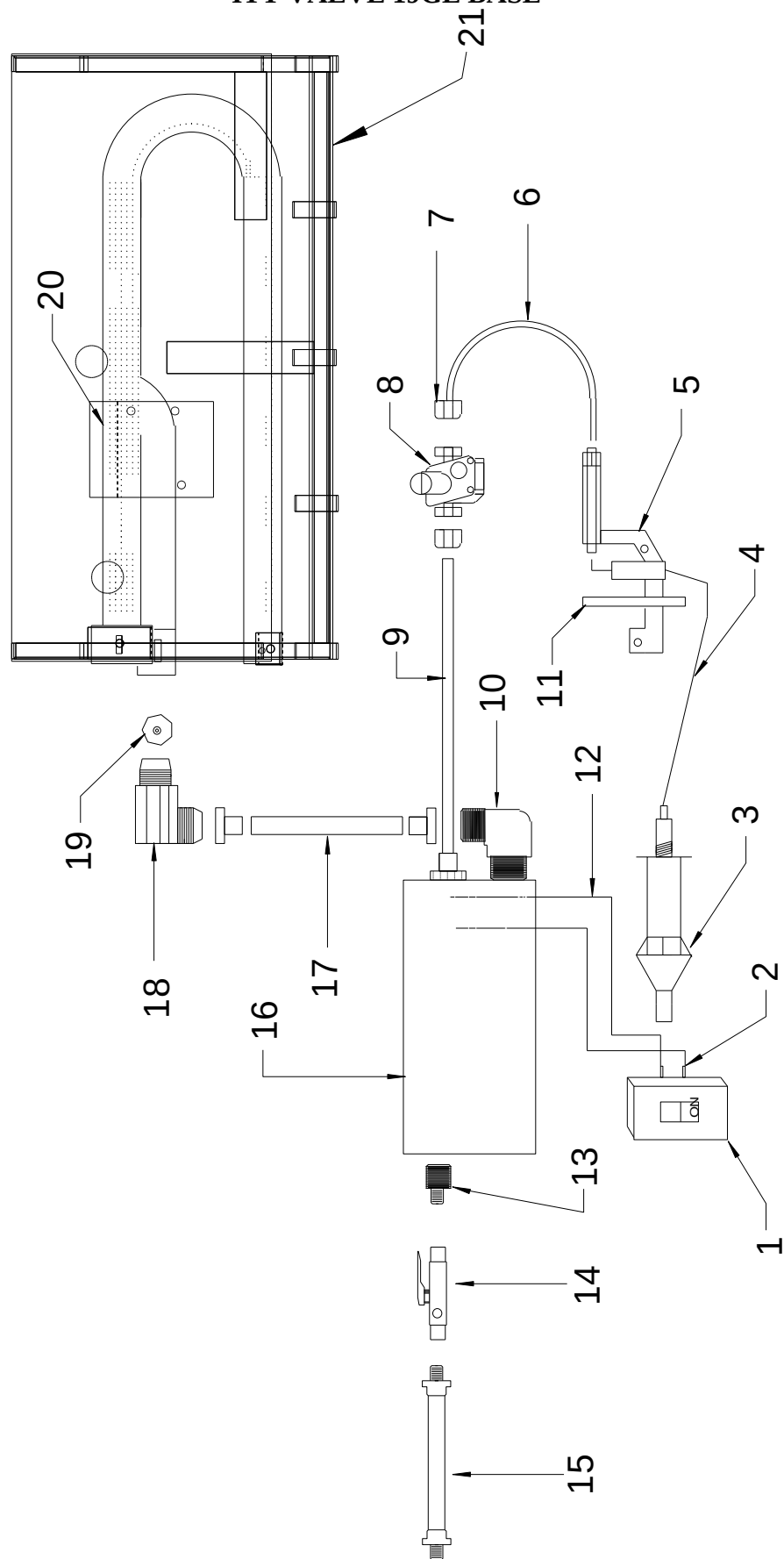
(Picture on page 43)

KEY#	PART DESCRIPTION	PART NUMBER
1.	Carling Switch	PE RA911VB
2.	Female Terminals	PE 5X425
3.	Piezo Striker	PE 124461
4.	Piezo 14" Igniter Wire	PE UL3573
5.	Pilot (NAT.) Copreci	PE 2150053 - NAT.
5.	Pilot (LP) Copreci	PE 2150054 - LP
6.	Pilot Tube 1/4"	MF 147AL
7.	1/8" x 1/4" Compression Adapter	PH 6842
8.	Regulator (LP) Maxitrol	PE RV12LF90
8.	Regulator (NAT.) Maxitrol	PE RV12LF30
9.	3/8" Supply Tube	PO 38812ALMTUB
10.	3/8" x 3/8" Elbow (Brass)	PH 4966
11.	Generator ITT	PE G251F245
12.	Jumper Wire 6"	PE 65 JUMPER
13.	3/8" IPT Male & Female Connector	PH 4866
14.	1/2" x 12" Gas Connector	PO 20-2131-12
15.	Gas Ball Valve	PO 110-553
16.	Valve (LP) ITT	PE B67SA-233
16.	Valve (NAT.) ITT	PE B67RA-234
17.	Burner Tube 3/8"	PO 38117ALMTUB
18.	Orifice Holder	PO 54ORFHLD
19.	Orifice	PO ORIFICE
20.	Burner Tube	PO DTBURN
21.	Burner Base	PSNV 0000

OTHER PARTS (NOT SHOWN)

22.	Fan Motor	PE SBRO84
23.	Power Cord	PE 400240
24.	Strain Release	PE 400320
25.	Thermostat	PE 400130
26.	Male Terminals	PE 5X428
27.	Jumper Wire 12"	PE 12JUMPER
28.	Gas Log Set	PO C-3329
29.	Fan Speed Control Label	PE KB9724
30.	Rheostat	PE 204
31.	Rheostat Knob	PE 204A
32.	Heyco 1-1/4" Grommet	PE HEYCO2883

ITT VALVE 19GL BASE



REPLACEMENT PARTS

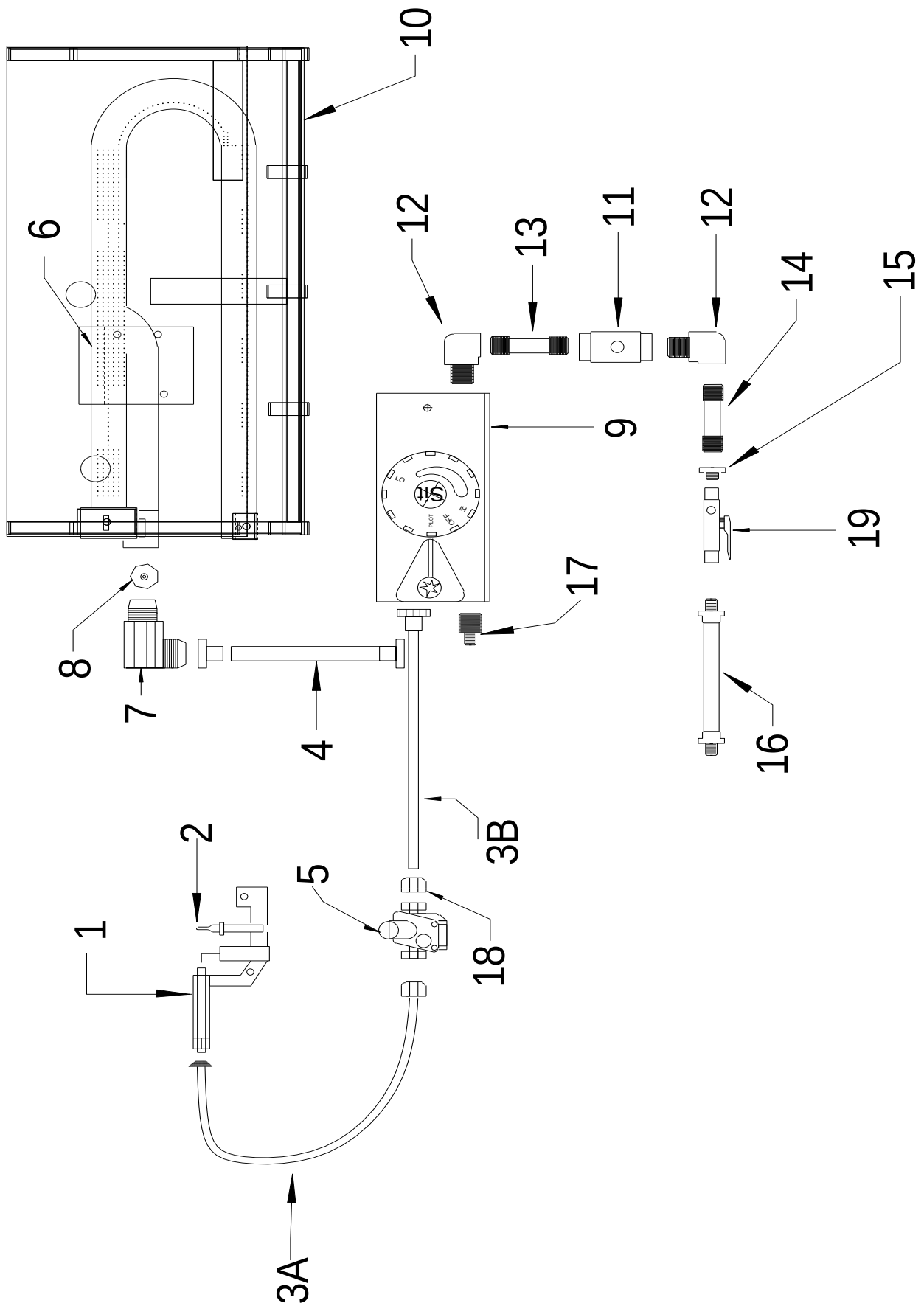
SIT MODULATING OR SIT MANUAL 19GL BASE

(Picture on page 45)

KEY#	PART DESCRIPTION	PART NUMBER
1.	Pilot (NAT.) Copreci	PE 2150053 - NAT.
1.	Pilot (LP) Copreci	PE 2150054 - LP
2.	Thermocouple (Copreci)	PE TPT100 / 90
3a.	Pilot Tube 1/4"	MF 147AL
3b.	Pilot Tube 1/4"	MF 147AL
4.	Burner Tube 3/8"	PO 38ALMTUB
5.	Pilot Regulator (LP) Maxitrol	PE RV 12LF90
5.	Pilot Regulator (NAT.) Maxitrol	PE RV 12LF30
6.	Burner Tube	PO DTBURN
7.	Orifice Holder	PO 54ORFHLD
8.	Orifice	PO ORIFICE
9.	Valve (LP) SIT (Modulating)	PE 0630504
9.	Valve (NAT.) SIT (Modulating)	PE 0630504
9A.	Valve (LP) SIT Manual	PE0630.522
9A.	Valve (NAT.) SIT Manual	PE0630.522
10.	Burner Base	PSNV0000
11.	Valve Regulator (LP) Maxitrol	PE RV20LF90
11.	Valve Regulator (NAT.) Maxitrol	PE RV20LF35
Black Pipe:		
12.	Brass 90 degree street elbow	PH1166
13.	3/8" x 1-1/2" Nipples (1)	PO 38112BINIP
14.	3/8" x 5" Nipples (1)	PO 385BINIP
15.	Brass Pipe Bushing	PH11086
16.	1/2" x 12" Gas Connector	PO 20-2131-12
17.	3/8" Straight to 3/8" Flare Connector	PH 4866
18.	1/8" x 1/4" Compression Adaptor	PH 6842
19.	Gas Ball Valve	PO 110-533

OTHER PARTS (NOT SHOWN)

20.	Fan Motor	PE SBRO84
21.	Power Cord	PE 400240
22.	Strain Release	PE 400320
23.	Thermostat	PE 400130
24.	Male Terminals	PE 5X428
25.	Jumper Wire 12"	PE 12JUMPER
26.	Gas Log Set	PO C-3329
27.	Fan Speed Control Label	PE KB9724
28.	Rheostat	PE 204
29.	Rheostat Knob	PE 204A
30.	Heyco 1-1/4" Grommet	PE HEYCO2883

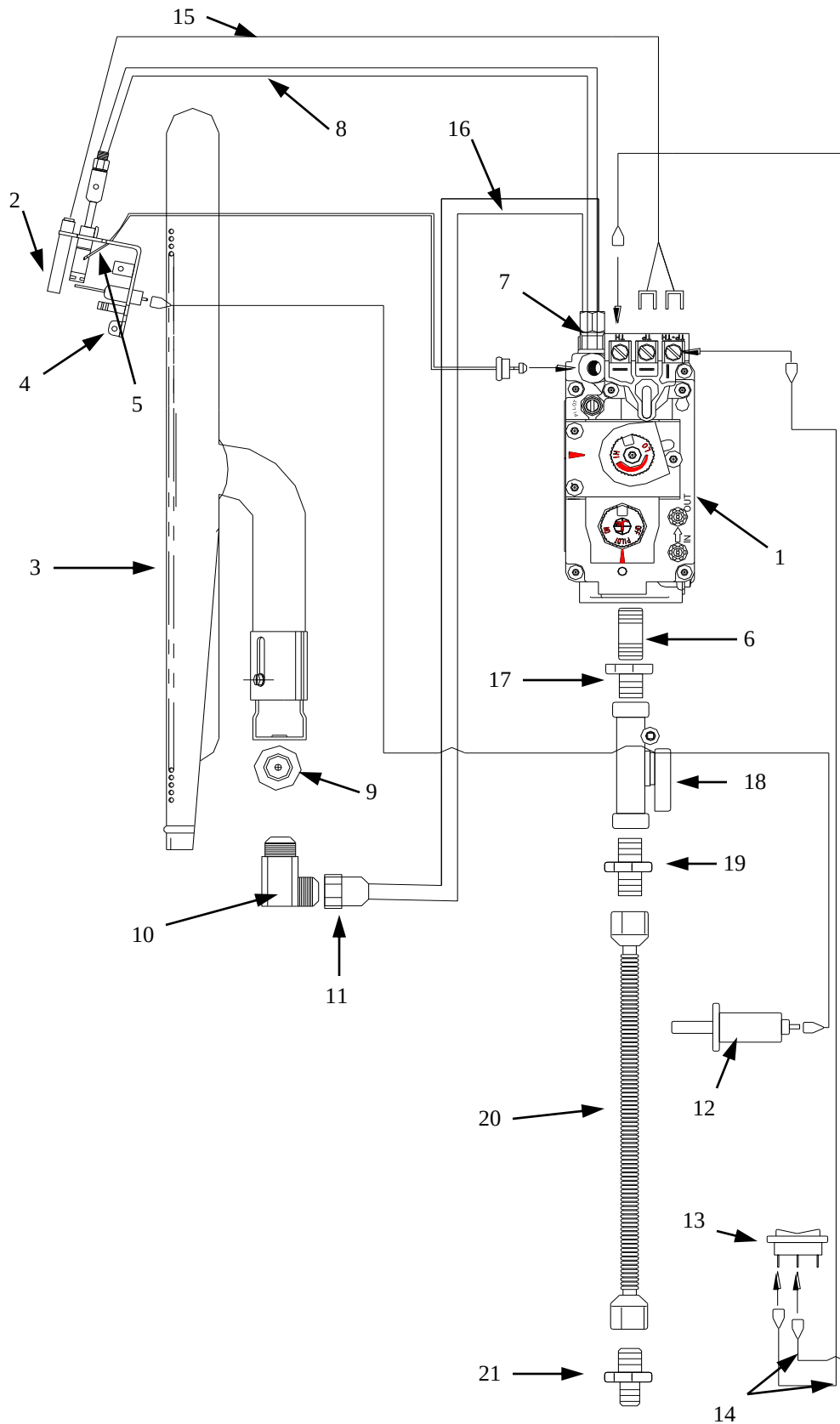


REPLACEMENT PARTS SIT MILLIVOLT VALVE 19GL BASE

Picture on Page 47

KEY#	PART DESCRIPTION	PART NUMBER
1.	820 MV. S.I.T. VALVE	LP-PE 820636
2.	GENERATOR	NAT- PE 820637
3.	BURNER TUBE	(PILOT ASSEMBLY)
4.	O.D.S PILOT (L.P.) O.P. ASSEMBLY	PO DTBURN
	O.D.S PILOT (NAT.) O.P. ASSEMBLY	PE 8404C
5.	THERMO-COUPLE	PE 8204C
6.	2"-3/8" BLACKIRON NIPPLE	(PILOT ASSEMBLY)
7.	BURNER SUPPLY LINE ELBOW	PO 382BINIP
8.	21" PILOT TUBE 3/16"	PH4966
9.	ORIFICE	MF 31621ALMTUB
10.	ORIFICE HOLDER	PO ORIFICE
11.	3/8" NUT & SLEEVE	PO 54ORFHLD
12.	PIEZO STRIKER	PH 616 & PH 606
13.	CARLING SWITCH (AUTO/OFF/MANUAL)	PE 124461
14.	12" SWITCH WIRES	PE RC211RB
15.	12" GENERATOR WIRE	PE 12JUMPER
16.	14 3/4" x 3/8" BURNER SUPPLY TUBE	(PILOT ASSEMBLY)
17.	3/8" FIP TO 1/2" MPT PIPE BUSHING	PO 381434ALMTUB
18.	1/2" BALL VALVE WITH PRESSURE TAP	PH 11086
19.	1/2" FLARE TO 1/2" STRAIGHT	PO 110-553
20.	1/2" FLEX LINE	(FLEX LINE ASSEMBLY)
21.	1/2" FLARE TO 3/8" FLARE	PO 20-213-12
		PH 4286

SIT MILLIVOLT VALVE 19GL BASE



REPLACEMENT PARTS FOR

SIT MILLIVOLT VALVE ESB BASE

(PICTURE ON PAGE 49)

A parts list with exploded view follows. Always include correct name, part number and model number of the heater when ordering service parts.

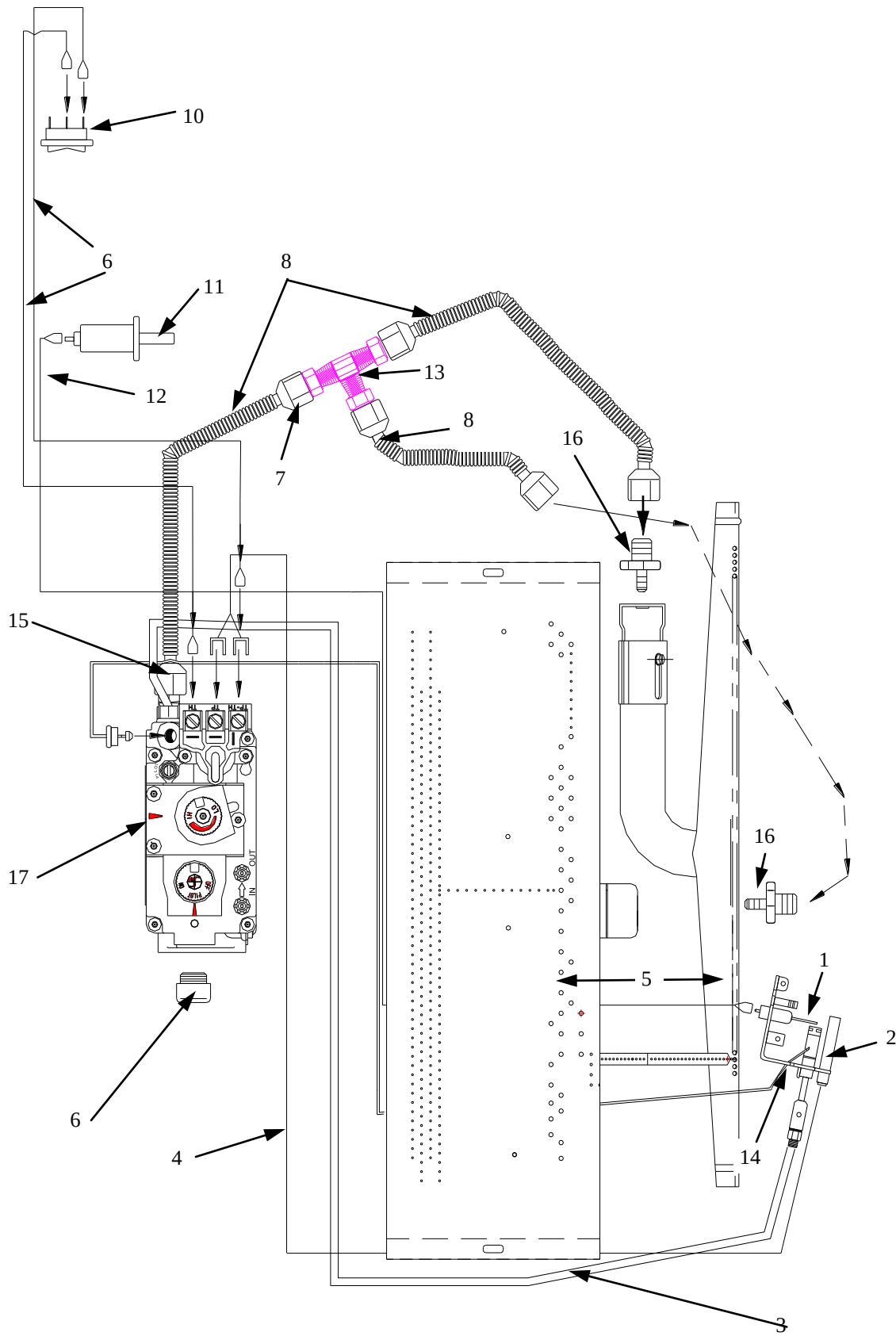
KEY#	PART DESCRIPTION	PART NUMBER
1.	O.D.S. PILOT (L.P.) O.P. ASSEMBLY	PE 8404C
1.	O.D.S. PILOT (NAT) O.P. ASSEMBLY	PE 8204C
2.	GENERATOR ASSEMBLY	(Part of Pilot Assembly)
3.	PILOT TUBE 3/16"	MF 31612 ALMTUB
4.	GENERATOR WIRE	(Part of Pilot Assembly)
5.	REAR BURNER	PO VE1002
	FRONT BURNER	PO 383436
6.	INLET ELBOW	PH 4966
7.	3/8" COMP. NUT & SLEEVE	PH 616 & PH 606
8.	3/8" BURNER SUPPLY TUBE (FLEX) - 3 pieces 12"	PO T6-12
9.	24" SWITCH WIRES	PE 30JUMPER
10.	CARLING SWITCH (AUTO/OFF/MANUAL)	PE RC211RB
11.	PIEZO STRIKER	PE 124461
12.	PIEZO 18" IGNITOR WIRE	PE 8400-014
13.	MALE RUN TEE FITTING	PH 64A-66
14.	THERMO-COUPLE	
15.	MANIFOLD OUTLET CONNECTOR	PH 68A-6C
16.	ORIFICES <u>L.P.</u>	
	FRONT #1.25mm	PO 125 MVORF
	REAR #.046"	PO 046 MVORF
	<u>NATURAL</u>	
	FRONT #2.05mm	PO 205 MVORF
	REAR #48	PO 48 MVORF
17.	820 mv. S.I.T. VALVE	LP - PE 820-636 NAT - PE 820-637
18.	8"L 3/8"BURNER SUPPLY LINE (3/4"-3/8" FLARE/3/8" COMP. N&S FITTINGS)	MF382ALMTUB

*

LOG SET

EMBER STOVE BASE (CERAMIC)

SIT MILLIVOLT VALVE ESB BASE



NEW BUCK CORPORATION

We reserve rights to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We offer no other warranty, expressed or implied.

LIMITED WARRANTY

VENT-FREE GAS LOG HEATER

New Buck warrants this product to be free from defects in materials and components for two (2) years from date of first purchase, provided that product has been properly installed, operated and maintained in accordance with all applicable instructions. To make a claim under this warranty Bill of Sale or canceled check must be presented.

This warranty is extended only to original retail purchaser and covers cost of parts required to restore heater to proper condition. Warranty parts **MUST** be obtained through an authorized Buck Stove dealer and/or New Buck, who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty. The heater **MUST** be installed by a qualified installer in accordance with all local codes and instructions furnished with unit.

Warranty does not apply to parts that are not in original condition, normal wear and tear or parts that fail or become damaged as a result of misuse, accidents, lack of proper maintenance or defects caused by improper installation.

WARRANTY DOES NOT COVER:

- Removal and re-installation cost
- Labor costs for replacements or repairs
- Transportation
- Cost of service call to diagnose trouble
- Painted surfaces
- Damage or defect caused by improper installation, accident, misuse, abuse, or alteration

TO FULL EXTENT ALLOWED BY LAW OF JURISDICTION THAT GOVERNS SALE OF PRODUCT, THIS EXPRESS WARRANTY EXCLUDES ANY AND ALL OTHER EXPRESSED WARRANTIES AND LIMITS DURATION OF ANY AND ALL WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO ONE (1) YEAR FROM DATE OF FIRST PURCHASE. NEW BUCK LIABILITY IS HEREBY LIMITED TO PURCHASE PRICE OF PRODUCT AND NEW BUCK SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES WHATSOEVER INCLUDING INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow a limitation on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so above limitation on implied warranties or exclusion on damages may not apply to you.

This warranty gives you specific legal rights. Other rights may vary from state to state.

OWNER REGISTRATION

The attached owner registration card must be completed in its entirety and mailed within 30 days from date of installation in order for warranty coverage to begin to:

New Buck Corporation
P.O. Box 69
Spruce Pine, NC 28777
Email:info@buckstove.com

PLEASE NOTE: Owner Registration Card must contain Authorized Buck Stove Dealer Number and Certified Installer's number (if applicable) for warranty coverage to begin.

NAME: _____

ADDRESS: _____

CITY: _____

STATE: _____ **ZIP:** _____

CUSTOMER EMAIL: _____

MODEL #: **FP-329B** **SERIAL #:** _____

DATE OF INSTALLATION: _____

INSTALLER'S NAME: _____

PURCHASED FROM: _____