

MARTIN INDUSTRIES

INSTALLATION, OPERATION
AND MAINTENANCE MANUAL

UNVENTED ROOM HEATERS

MODEL UF/AUF/HC29C

WARNING: THIS HEATER IS TO BE INSTALLED ONLY IN A NONCOMBUSTIBLE FIREPLACE SUITABLE FOR BURNING SOLID FUELS (WOOD OR COAL).

MAXIMUM HEAT INPUT RATING: 29,000 BTU PER HOUR

THE DESIGN OF THIS HEATER COMPLIES WITH STANDARD Z21.11.2 OF THE AMERICAN NATIONAL STANDARDS INSTITUTE AND IS SO CERTIFIED BY THE AMERICAN GAS ASSOCIATION.

THIS HEATER MAY BE INSTALLED IN AN *AFTERMARKET MANUFACTURED (MOBILE) HOME, WHERE NOT PROHIBITED BY STATE OR LOCAL CODES. INSTALL ONLY IN A NONCOMBUSTIBLE FIREPLACE SUITABLE FOR BURNING SOLID FUELS (WOOD OR COAL).

* AFTERMARKET: COMPLETION OF SALE, NOT FOR PURPOSE OF RESALE, FROM THE MANUFACTURER.

THIS HEATER IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON THE RATING LABEL ATTACHED TO THE HEATER. THIS HEATER IS NOT CONVERTIBLE FOR USE WITH OTHER GASES.

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 THE 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 THE 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 THE GAS SUPPLIER.

THIS IS AN UNVENTED GAS-FIRED HEATER. IT USES AIR (OXYGEN) FROM THE ROOM IN WHICH IT IS INSTALLED. PROVISIONS FOR ADEQUATE COMBUSTION AND VENTILATION AIR MUST BE PROVIDED.

UF/AUF/HC29C

IMPORTANT INFORMATION

Study these instructions carefully before beginning the installation of this heater. This manual contains safety rules, installation guidelines, use and care instructions and repair parts information.

The installation and any service of this heater must be by a licensed or otherwise qualified person.

The installer of this heater must describe the operation of the heater to the people who will be operating it and leave this instruction manual with the operator of the heater. This manual must become the property of and be reviewed by all future users of this heater.

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

DANGER: THIS HEATER, AS ANY GAS-FIRED APPLIANCE, CAN PRODUCE POISONOUS CARBON MONOXIDE ALONG WITH OTHER COMBUSTION PRODUCTS. CARBON MONOXIDE, IN STRONG CONCENTRATIONS, CAN CAUSE SICKNESS, SERIOUS PERSONAL INJURY AND DEATH.

EARLY SIGNS OF CARBON MONOXIDE POISONING MAY RESEMBLE THE 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 THE INFLUENCE OF ALCOHOL, THOSE AT HIGH ALTITUDES -- ARE MORE AFFECTED BY CARBON MONOXIDE THAN OTHERS.

WHEN PROPERLY INSTALLED, USED AND MAINTAINED, THIS HEATER SHOULD NOT PRODUCE CARBON MONOXIDE IN DANGEROUS QUANTITIES. HOWEVER, SINCE CARBON MONOXIDE CAN BE DEADLY POISONOUS, THE INSTALLER AND ALL USERS OF THIS HEATER SHOULD READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY.

DANGER: OPERATION OF THIS HEATER ON GASES FOR WHICH IT IS NOT EQUIPPED MAY LEAD TO CARBON MONOXIDE POISONING.

WARNING: THIS HEATER CANNOT BE CONVERTED TO A GAS OTHER THAN THE TYPE FOR WHICH IT WAS EQUIPPED AT THE FACTORY.

The type of gas for which this heater is equipped is marked on the rating label attached to the heater. "NAT" is natural gas; "LP" is propane or propane butane mixture gas.

GASEOUS FUELS ARE HIGHLY EXPLOSIVE IN CERTAIN CONCENTRATIONS AND ARE VERY FLAMMABLE. ANY GAS LEAKS IN THE PLUMBING SUPPLYING GAS TO THIS HEATER CAN LEAD TO FIRE OR EXPLOSION.

HOW THIS HEATER OPERATES

This heater is to be installed only in a noncombustible fireplace suitable for burning solid fuels (wood or coal). Any alteration of the heater or any installation and use not in accordance with these instructions may be hazardous.

The control system on this heater serves several functions. It regulates the incoming gas to the correct pressure for the rate required. It will not regulate LP gas directly from the container. A separate regulator must be installed on the tank or bottle to reduce the gas pressure supplied to the heater to between 11 and 13 inches water column. The control also provides a safety shutoff to allow gas to flow to the main burner only when the pilot is burning and to shut off gas to the pilot burner and main burner should the pilot flame not be burning. It provides a manual valve to turn gas on and off to the main burner. The control has a thermostat which automatically adjusts the gas flame between the fixed low rate and high rate and will automatically shut off the main burner when the room reaches the selected temperature. There is a safety feature in the control valve which will lock the control knob in the OFF position for a few minutes until the pilot valve closes should the knob be turned to OFF while the pilot is burning. This prevents escape of unburned gases. The control also regulates the pilot gas flow to that required for proper operation and provides for shutoff of the gas to the pilot burner and main burner should the oxygen in the area of the heater be depleted to near dangerous levels.

This control system is a safety system and must not be tampered with. Do not attempt to make any adjustments to the control or pilot other than those described in the INSTALLATION AND ADJUSTMENT or TROUBLESHOOTING sections of this manual.

Air is pulled into the main burner by the gas stream and mixed with the gas inside the main burner before burning. Additional air required to complete the burning of the gas enters the heater through its front. See the COMBUSTION AND VENTILATION AIR REQUIREMENTS section of this manual for source of the air. Blocking or altering air flow into and away from the heater could cause improper combustion and the production of carbon monoxide gas that could accumulate to hazardous concentrations. To prevent a disruption of the air flow through the heater, keep the heater clean as described by the MAINTENANCE section of this manual.

Use of blower model UFB2 is optional with this heater. If the UFB2 blower is to be used, install and operate it according to separate instructions packed with the UFB2 blower. **WARNING:** Do not attempt to use any other blower or fan with this heater.

NOTICE: THE HEATER WILL GO THROUGH A CURING PROCESS DURING ITS INITIAL (FIRST 2 TO 3 HOURS) OPERATING PERIOD AND MAY EMIT SOME SMOKE AND FUMES (BURNING OFF OIL, ETC.) . BE PREPARED FOR ANY SMOKE AND FUMES BY RAISING WINDOWS OR OPENING DOORS TO PROVIDE ADDITIONAL VENTILATION DURING THIS INITIAL OPERATING PERIOD.

WARNING: THIS HEATER IS HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. NEVER OPERATE THIS HEATER WITHOUT THE FACTORY-INSTALLED SAFETY SCREENS IN PLACE. NEVER USE THIS HEATER TO DRY CLOTHES, COOK ON, OR FOR ANY PURPOSE OTHER THAN PROVIDING HEAT INTO THE AREA AROUND THE HEATER.

SELECTING A LOCATION FOR THE HEATER

NOTICE: IN ACCORDANCE WITH STANDARD Z21.11.2 OF THE AMERICAN NATIONAL STANDARDS INSTITUTE, AN UNVENTED ROOM HEATER WHICH HAS AN INPUT RATING GREATER THAN 10,000 BTU PER HOUR SHALL NOT BE INSTALLED IN A BEDROOM NOR IN A BATHROOM. THEREFORE, UF/AUF/HC29C HEATERS ARE NOT TO BE INSTALLED IN A BEDROOM NOR IN A BATHROOM BECAUSE THESE HEATERS HAVE AN INPUT RATING OF 29,000 BTU PER HOUR.

For purpose of orientation, the left and right sides of this heater are determined when facing the front of the heater as shown by figure 1 of this manual.

This heater is to be installed only in a noncombustible fireplace suitable for burning solid fuels (wood or coal). See Figure 2 for minimum and maximum fireplace dimensions. See Figure 10 for minimum clearances from the heater to combustible materials. **NOTE:** SOME PLASTICS OR OTHER ARTIFICIAL MATERIALS DEFORM AT RELATIVELY LOW TEMPERATURES AND MAY REQUIRE GREATER CLEARANCE FROM THE HEATER.

WARNING: IF THIS HEATER IS INSTALLED IN ANY PLACE OTHER THAN A SOLID-FUEL BURNING FIREPLACE, A FIRE MAY RESULT CAUSING PROPERTY DAMAGE AND PERSONAL INJURY.

WARNING: IF THIS HEATER IS INSTALLED IN A FACTORY-BUILT FIREPLACE, DO NOT BLOCK OR RESTRICT ANY OF THE GRILLES ON THE FACTORY-BUILT FIREPLACE. THE GRILLES ALLOW AIR CIRCULATION WHICH PREVENTS THE FACTORY-BUILT FIREPLACE FROM OVERHEATING. BLOCKING OR RESTRICTING THE AIR CIRCULATION CAN CAUSE A FIRE HAZARD.

DANGER: DO NOT INSTALL THIS HEATER IN ANY AREA WHERE GASOLINE OR ANY COMBUSTIBLE OR EXPLOSIVE MATERIAL WILL BE USED OR STORED. THE FLAME IN THIS HEATER IS NOT ISOLATED FROM THE AIR SPACE IT HEATS, AND IT WILL IGNITE FLAMMABLE VAPORS, DUST PARTICLES OR OTHER COMBUSTIBLE MATERIALS THAT COME IN CONTACT WITH IT. THIS CAN RESULT IN AN EXPLOSION OR FIRE.

At all times keep the heater area clear and free from combustible materials, gasoline and other flammable vapors and liquids.

It is imperative that adequate clearances around air openings into and away from this heater be maintained. To ensure these clearances, do not place any object closer than 24 inches directly in front of the heater. Do not block any openings in the heater.

UNPACKING AND INSPECTION

Unpack the heater and inspect it thoroughly for missing parts or shipping damage. If any damage or missing parts are detected, report it to your heater dealer. **DO NOT INSTALL OR USE A DAMAGED OR INCOMPLETE HEATER.**

GAS PIPING AND GAS PRESSURE REQUIREMENTS

All gas piping must be installed to comply with local codes or, in the absence of local codes, with the latest edition of the National Fuel Gas Code ANSI Z223.1. Do not use flexible hose.

Unions in gas lines shall be of the ground joint type. Compounds used on threaded joints of gas piping must be resistant to the action of liquefied petroleum gas.

Gas piping must be of sufficient size to provide a minimum natural gas pressure at the heater of 7 inches water column or 11 inches for LP gases. The maximum inlet gas pressure to the heater must not exceed 10 inches for natural gas and 13 inches for LP gases. If this heater is to be supplied with LP gas (bottled propane or butane) the tank or bottle supplying the gas must have a regulator that reduces the gas pressure to between 11 and 13 inches water column. The control will not operate with gas line pressure directly from the tank and may leak gas due to this excessive pressure.

DANGER: OPERATION OF THIS HEATER ON LP GAS WITHOUT AN APPROVED REGULATOR AT THE SUPPLY CONTAINER WILL LEAD TO GAS LEAKS AT THE CONTROL WITH POSSIBLE FIRE OR EXPLOSION.

Include a manual shutoff valve and union in the line so the control or heater may be disconnected for servicing. Include a drip leg and a plugged 1/8-inch N.P.T. tapping in the line also. The tapping must be accessible for test gauge connection immediately upstream of the gas supply connection to the heater.

Use a soap-water solution or a liquid gas leak detector to coat each joint in the piping system and look for bubbles which indicate gas leaks. Repair all gas leaks.

CAUTION: THE HEATER AND ITS INDIVIDUAL SHUTOFF VALVE MUST BE DISCONNECTED FROM THE GAS SUPPLY PIPING SYSTEM DURING ANY PRESSURE TESTING OF THAT SYSTEM AT TEST PRESSURES IN EXCESS OF 1/2 PSIG. THE HEATER MUST BE ISOLATED FROM THE GAS SUPPLY PIPING SYSTEM BY CLOSING ITS INDIVIDUAL MANUAL SHUTOFF VALVE DURING ANY PRESSURE TESTING OF THE GAS SUPPLY PIPING SYSTEM AT TEST PRESSURES EQUAL TO OR LESS THAN 1/2 PSIG. PRESSURES IN EXCESS OF 1/2 PSIG WILL CAUSE DAMAGE TO THE CONTROL VALVE AND MAY CAUSE DAMAGE TO THE SHUTOFF VALVE.

DANGER: DO NOT USE CANDLES, MATCHES OR OTHER IGNITION SOURCES WHEN CHECKING FOR LEAKS. FUEL GASES ARE VERY FLAMMABLE AND, IN CERTAIN CONCENTRATIONS, EXPLOSIVE. CHECKING FOR LEAKS WITH AN OPEN FLAME MAY LEAD TO FIRE OR EXPLOSION.

A standard control assembly and typical gas piping diagram are shown by figures 3 and 4.

COMBUSTION AND VENTILATION AIR REQUIREMENTS

As do all gas-fired appliances, this heater requires fresh air (oxygen) for proper combustion and ventilation. Normal air infiltration into a building in which gas-fired appliances are installed will usually supply a sufficient amount of fresh air for proper combustion and ventilation, but not in all cases. The number of gas-fired appliances involved, any additional appliances or devices which remove air from the building, and the type of space in which the gas-fired appliance(s) are installed must all be considered when determining whether normal air infiltration is sufficient or if additional fresh air will be needed for proper combustion and ventilation of the gas-fired appliance(s) installed in a particular space. Unconfined space and confined space are the terms used to describe the space in which gas-fired appliances may be installed.

National Fuel Gas Code Z223.1 defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour of the aggregate input rating of all gas-fired appliances installed in that space. Z223.1 defines unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour of the aggregate input rating of all gas-fired appliances installed in that space. Rooms communicating directly with the space in which the appliance(s) are installed, through openings not furnished with doors, are considered a part of the to-be-defined space.

For example, three rooms in a house are adjoining with interconnecting passageways but no doors; each room has an 8 foot ceiling. One room is 16 x 12 feet, one is 12 x 12 feet, and one is 10 x 14 feet. The total volume of the three rooms is 3,808 cubic feet; $(8 \times 16 \times 12) + (8 \times 12 \times 12) + (8 \times 10 \times 14) = 3,808$ cubic feet. To be defined an unconfined space in this example, the total maximum aggregate input rating of all gas-fired appliances installed in the 3,808 cubic feet space must not exceed 76,160 Btu per hour; $(3,808 \text{ divided by } 50) \times 1,000 = 76,160$ Btu per hour.

Normal air infiltration into an unconfined space will usually be adequate to supply the necessary fresh air for proper combustion and ventilation of the gas-fired appliances installed in that space. However, increased concern about energy cost and conservation has caused the use of new methods and materials in the construction and remodeling of many homes. These methods and materials which are intended to reduce heat loss often reduce normal air infiltration as well. Therefore, even though a space is considered unconfined space, additional fresh air from outside may be required for proper combustion and ventilation if the building is constructed unusually tight. Also, the use of any additional appliance or device (such as an exhaust fan, clothes dryer, or fireplace) which removes air from the building will reduce the amount of available fresh air obtained by normal air infiltration. YOUR LOCAL BUILDING INSPECTOR CAN BE CONSULTED FOR GUIDANCE IN DETERMINING IF AN UNCONFINED SPACE NEEDS ADDITIONAL FRESH AIR FOR PROPER COMBUSTION AND VENTILATION.

WARNING: IF THE AREA IN WHICH THE APPLIANCE MAY BE OPERATED IS SMALLER THAN THAT DEFINED AS AN UNCONFINED SPACE, PROVIDE ADEQUATE COMBUSTION AND VENTILATION AIR BY ONE OF THE METHODS DESCRIBED IN THE NATIONAL FUEL GAS CODE, ANSI Z223.1, LATEST EDITION, SECTION 5.3.

THIS APPLIANCE SHALL NOT BE INSTALLED IN A CONFINED SPACE UNLESS PROVISIONS ARE PROVIDED TO SUPPLY ADEQUATE FRESH AIR FOR PROPER COMBUSTION AND VENTILATION OF THE GAS-FIRED APPLIANCE(S) INSTALLED IN THE CONFINED SPACE.

PROVISIONS WHICH PROVIDE ADDITIONAL FRESH AIR TO A CONFINED SPACE OR AN UNCONFINED SPACE MUST COMPLY WITH LOCAL CODES OR, IN THE ABSENCE OF LOCAL CODES, WITH THE LATEST EDITION OF NATIONAL FUEL GAS CODE Z223.1. CONSULT YOUR LOCAL BUILDING INSPECTOR OR THE LATEST EDITION OF NATIONAL FUEL GAS CODE Z223.1 IF YOU HAVE ANY QUESTIONS ABOUT FRESH AIR REQUIREMENTS FOR PROPER COMBUSTION AND VENTILATION OF GAS-FIRED APPLIANCE.

CAUTION: BECAUSE WATER IS A PRODUCT OF FUEL GAS COMBUSTION, ALL GAS-FIRED APPLIANCES WILL PRODUCE SOME WATER VAPOR (HUMIDITY) WHEN FIRED. THE WATER VAPOR MAY COLLECT ON WINDOWS AND WALLS, ESPECIALLY IN BUILDINGS CONSTRUCTED UNUSUALLY TIGHT. PROVIDING ADDITIONAL FRESH AIR WILL REDUCE THE AMOUNT OF WATER VAPOR WHICH COLLECTS ON THE WINDOWS AND WALLS.

THIS APPLIANCE IS EQUIPPED WITH AN ODS (OXYGEN DEPLETION SENSOR) PILOT LIGHT SAFETY SYSTEM THAT TURNS OFF THE APPLIANCE IF NOT ENOUGH FRESH AIR IS AVAILABLE. NEVER ATTEMPT TO ADJUST THIS SAFETY SYSTEM. IT WILL NOT OPERATE CORRECTLY IF TAMPED WITH. WHEN USED WITHOUT FRESH AIR, APPLIANCE MAY GIVE OFF CARBON MONOXIDE, AN ODORLESS, POISONOUS GAS.

IF THIS APPLIANCE SHUTS OFF DURING OPERATION, DO NOT RELIGHT IT UNTIL YOU PROVIDE ADDITIONAL FRESH AIR. IF PERMANENT PROVISIONS FOR PROVIDING ADDITIONAL FRESH AIR HAVE NOT BEEN IMPLEMENTED, THE ADDITIONAL FRESH AIR MAY BE PROVIDED BY OPENING A WINDOW AN INCH OR TWO WHILE THE APPLIANCE IS OPERATING. IF THE APPLIANCE KEEPS SHUTTING OFF DURING OPERATION, HAVE IT SERVICED.

WARNING: THE ODS (OXYGEN DEPLETION SENSOR) PILOT LIGHT SAFETY SYSTEM IS NOT A SUBSTITUTE FOR PROPER INSTALLATION AND USE OF THIS APPLIANCE. FAILURE TO OBSERVE INSTALLATION AND USE GUIDELINES IN THIS MANUAL CAN LEAD TO CARBON MONOXIDE POISONING, FIRE OR EXPLOSION.

INSTALLATION AND ADJUSTMENT

Use these instructions as a guide while installing and adjusting the heater. The installation must conform with local codes or, in the absence of local codes, with the latest edition of the National Fuel Gas Code ANSI Z223.1.

WARNING: DO NOT INSTALL GLASS DOORS ON THIS HEATER. DO NOT INSTALL ANY ACCESSORY ON THIS HEATER UNLESS SPECIFICALLY APPROVED TO DO SO.

1. Carefully check the fireplace to be sure it is large enough and constructed within the guidelines given in the **SELECTING A LOCATION FOR THE HEATER** section of this manual.
2. Make the necessary provisions for fresh (outside) air as described in the **COMBUSTION AND VENTILATION AIR REQUIREMENTS** section of this manual.
3. Install proper gas piping according to **GAS PIPING AND GAS PRESSURE REQUIREMENTS** section of this manual. Position the gas inlet pipe in one of the locations shown by figure 5. Do not run piping into the fireplace until the insert is positioned.
4. Install the top surround panel with screws and nuts provided. Slide the heater into the fireplace. Open the safety screen fully. Remove screws holding the inner bottom of the heater. Carefully lift the inner bottom assembly and remove it. Put this assembly in a safe place until the gas piping is installed.
5. If the heater is not level, adjust the two leveling screws in the bottom rear of the heater to bring the heater into a level position.
6. Install the brass surround trim kit. (Refer to figure 11). Slide a "corner key holeless" and a "corner key with 2 holes" into the slots of the trim pieces as shown. Install the set screws and tighten until the keys spread apart enough to keep the trim pieces together. Slip the trim kit assembly over the heater side panels and fasten with 4 screws as shown by figure 11.
7. Install proper gas piping according to **GAS PIPING AND GAS PRESSURE REQUIREMENTS** section of this manual. Position the gas inlet pipe in one of the locations shown by figure 5.

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 THE PILOT, FOLLOW THESE INSTRUCTIONS EXACTLY.

B. BEFORE LIGHTING SMELL ALL AROUND THE APPLIANCE AREA FOR GAS. BE SURE TO SMELL NEXT TO THE FLOOR BECAUSE SOME GAS IS HEAVIER THAN AIR AND WILL SETTLE ON THE 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 THE GAS SUPPLIER'S INSTRUCTIONS.

• IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE DEPARTMENT.

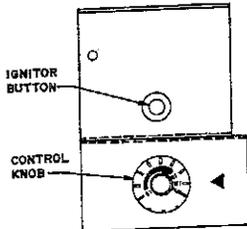
C. USE ONLY YOUR HAND TO PUSH IN OR TURN THE GAS CONTROL KNOB. NEVER USE TOOLS. IF THE KNOB WILL NOT PUSH IN OR TURN BY HAND, DON'T TRY TO REPAIR IT. CALL A QUALIFIED SERVICE TECHNICIAN. FORCE OR ATTEMPTED REPAIR MAY RESULT IN A FIRE OR EXPLOSION.

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 THE CONTROL SYSTEM AND ANY GAS CONTROL WHICH HAS BEEN UNDER WATER.

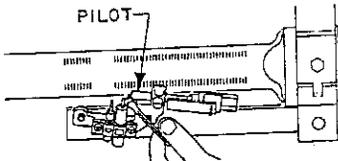
LIGHTING INSTRUCTIONS

1. STOP! READ THE SAFETY INFORMATION ON THE FIRST LABEL.

2. TURN THE CONTROL KNOB CLOCKWISE  TO OFF. THE KNOB WILL CLICK BETWEEN PILOT AND OFF. THIS CONTROL HAS A LOCKOUT FEATURE. IF THE PILOT IS BURNING WHEN THE CONTROL IS TURNED TO OFF, THE KNOB WILL LOCK UNTIL THE PILOT VALVE CLOSES.



3. WAIT FIVE (5) MINUTES TO CLEAR OUT ANY GAS. THEN SMELL FOR GAS, INCLUDING NEAR THE FLOOR. IF YOU SMELL GAS, STOP! FOLLOW "B" IN THE SAFETY INFORMATION ON THE FIRST LABEL. IF YOU DON'T SMELL GAS, GO TO THE NEXT STEP.



4. OPEN THE SCREENS AND REMOVE THE FRONT LOG FOR ACCESS TO THE PILOT BURNER.

5. TURN THE KNOB COUNTERCLOCKWISE  TO PILOT (AGAINST A STOP - DO NOT PUSH THE KNOB IN AS YOU TURN).

6. POSITION YOURSELF SO THE PILOT CAN BE

SEEN. PUSH THE KNOB INWARD FULLY AND HOLD IT IN. IMMEDIATELY PUSH THE IGNITOR BUTTON. IF THE PILOT DOES NOT LIGHT IMMEDIATELY, PUSH THE IGNITOR BUTTON AGAIN AT FIVE (5) SECOND INTERVALS UNTIL THE PILOT IS LIT. AFTER THE PILOT IS LIT CONTINUE TO HOLD THE KNOB DOWN FOR ABOUT ONE (1) MINUTE. RELEASE THE KNOB AND IT WILL POP BACK OUT. THE PILOT SHOULD REMAIN LIT. IF IT GOES OUT, REPEAT STEPS 2 THROUGH 6.

ALTERNATE LIGHTING WITH A MATCH: FOLLOW STEPS 2 THROUGH 5. PUSH THE KNOB INWARD FULLY AND HOLD IT IN. IMMEDIATELY LIGHT THE PILOT WITH A MATCH. CONTINUE TO HOLD THE KNOB INWARD FOR ABOUT ONE (1) MINUTE. RELEASE THE KNOB AND IT WILL POP BACK OUT. THE PILOT SHOULD REMAIN LIT. IF IT GOES OUT, REPEAT STEPS 2 THROUGH 6.

- IF THE KNOB DOES NOT POP OUT WHEN RELEASED, STOP AND IMMEDIATELY CALL YOUR SERVICE TECHNICIAN OR GAS SUPPLIER.

- IF THE PILOT WILL NOT STAY LIT AFTER SEVERAL TRIES, TURN THE GAS CONTROL KNOB CLOCKWISE  TO OFF AND CALL YOUR SERVICE TECHNICIAN OR GAS SUPPLIER.

7. REPLACE THE FRONT LOG, THEN CLOSE THE SCREENS.

8. TURN THE KNOB COUNTERCLOCKWISE  TO HI. ADJUST THE KNOB BETWEEN HI AND LO AS DESIRED.

9. CLOSE THE CONTROL ACCESS PANEL.

TO TURN OFF GAS TO APPLIANCE

1. TURN KNOB CLOCKWISE  TO OFF. KNOB WILL CLICK BETWEEN PILOT AND OFF.
2. IF THE HEATER IS EQUIPPED WITH OPTIONAL BLOWER, TURN OFF ALL ELECTRICAL POWER TO THE HEATER IF SERVICE IS TO BE PERFORMED.

8. Install a shutoff valve and union, then route the gas supply piping so that it can be connected to the control valve inlet. CAUTION: THE HEATER AND ITS INDIVIDUAL SHUTOFF VALVE MUST BE DISCONNECTED FROM THE GAS SUPPLY PIPING SYSTEM DURING PRESSURE TESTING OF THAT SYSTEM AT TEST PRESSURES IN EXCESS OF 1/2 PSIG. THE HEATER MUST BE ISOLATED FROM THE GAS SUPPLY PIPING SYSTEM BY CLOSING ITS INDIVIDUAL MANUAL SHUTOFF VALVE DURING ANY PRESSURE TESTING OF THE GAS SUPPLY PIPING SYSTEM AT TEST PRESSURES EQUAL TO OR LESS THAN 1/2 PSIG. PRESSURES IN EXCESS OF 1/2 PSIG WILL CAUSE DAMAGE TO THE CONTROL VALVE AND MAY CAUSE DAMAGE TO THE SHUTOFF VALVE.

9. Replace the inner bottom and connect the gas line to the control valve.

10. Turn the gas on and check each joint in the gas line carefully with a soap-water solution or liquid gas leak detector. Bubbles indicate leaks. Repair any leaks before proceeding.

DANGER: DO NOT USE CANDLES, MATCHES OR OTHER IGNITION SOURCES WHEN CHECKING FOR GAS LEAKS. FUEL GASES ARE VERY FLAMMABLE AND IN CERTAIN CONCENTRATIONS, EXPLOSIVE. CHECKING FOR LEAKS WITH AN OPEN FLAME MAY LEAD TO FIRE OR EXPLOSION.

11. Light the heater's pilot as directed by the LIGHTING INSTRUCTIONS described earlier. The pilot flame should touch the thermocouple as shown by figure 7. The pilot flame should be blue, with orange or red streaks if there is dust in the air.

12. After the pilot flame is established, turn the heater's control knob counterclockwise to HI. (See figure 6.) The main burner should light within three seconds after the control knob is turned to HI. The flames of the main burner should appear similar to the flames illustrated by figure 8. The flames should be blue, with red or orange streaks if there is dust in the air. (If the main burner does not light within three seconds after the control knob is turned to HI, turn the control knob to OFF and refer to the TROUBLESHOOTING section of this manual for help in determining why the main burner did not light).

The main burner is equipped with an air shutter to control the amount of air drawn into the main burner. (If the flames are blowing away from the main burner and are excessively noisy, too much air is entering the main burner. If the flames are excessively yellow, not enough air is entering the main burner.) **WARNING: EXCESSIVELY YELLOW FLAMES WILL PRODUCE SOOT. ANY SOOT WHICH IS PRESENT COULD BE CARRIED BY AIR FLOW OR WATER VAPOR INTO THE SPACE BEING SERVED BY THE HEATER.**

13. With the pilot and main burner in operation, check each connection in the gas supply system and control system for leaks with a soap-water solution or a liquid gas leak detector. If any leaks are found, turn the gas supply off and repair the leaks before proceeding.
14. Check the main burner intake for obstructions and check to be sure that the orifice spud is aligned with the center of the burner venturi.
15. After checking the gas connections and burner flames, turn the control knob to OFF. Allow the main burner to cool, or use extreme care not to touch the main burner as you proceed. A bag of vermiculite particles is provided which may be spread about on the inner bottom of the heater to simulate ashes if desired.
16. Set the rear log (the log with vermiculite glued on it) in position. Center it on the base. See figure 9.
17. Set the front log in position. Center it on the base. See figure 9.
18. Relight the heater's pilot as directed by the LIGHTING INSTRUCTIONS described earlier.
19. Close the heater's safety screens. See figure 1.
20. The heater may now be operated for desired heat by lighting the heater's main burner. (See OPERATION OF THE HEATER below.) If no heat is desired, leave the control knob at the PILOT position or turn it to OFF. For complete shutdown of the heater, turn the shutoff valve off and turn the heater's control knob to OFF.
21. Close the heater's control access panel.

OPERATION OF THE HEATER

WARNING: DO NOT BURN SOLID-FUELS IN THIS HEATER.

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

Follow all SAFETY INFORMATION when operating the heater. Always light the heater according to the LIGHTING INSTRUCTIONS provided. Keep the heater's safety screens and control access panel closed except for lighting or servicing the heater.

To produce heat, the heater's main burner must be lit. The main burner should light within three seconds after the heater's control knob is turned counterclockwise to the HI position when directed by the LIGHTING INSTRUCTIONS. (If the main burner does not light within three seconds after the control knob is turned to HI, turn the control knob clockwise to OFF and refer to the TROUBLESHOOTING section of this manual for help in determining why the main burner did not light.) When the area being heated reaches the desired temperature, turn the control knob clockwise toward a lower setting until the main burner shuts off. While at this setting, the heater's thermostat will automatically turn the main burner on and off to maintain the desired temperature.

If it is necessary to observe the pilot or main burner during operation, and this cannot be readily done with the front log in position, turn off the main burner and allow the logs to cool, then carefully lift the front log away. After observing the pilot or main burner during operation, turn the main burner off and properly center the log(s) on the base. See figure 9. Never attempt to remove or position a log while the main burner is operating.

WARNING: INCORRECT PLACEMENT OF THE LOGS ON THE BASE CAN CAUSE THE PRODUCTION OF CARBON MONOXIDE GAS. ALWAYS KEEP THE LOGS PROPERLY PLACED ON THE BASE.

If the heater's pilot is extinguished for any reason, wait at least five minutes before attempting to relight. Failure to wait five minutes can cause a hazardous explosion of gas within the heater.

When no heat is desired, turn the heater's control knob to its PILOT position or to OFF. For complete shutdown of the heater, turn the shutoff valve off and turn the heater's control knob to OFF.

CHECKLIST OF DO'S AND DON'TS

CONTINUED SAFE OPERATION OF THIS HEATER REQUIRES, BUT IS NOT LIMITED TO, THESE "DO'S" AND DON'TS":

DO'S:

1. Do make the installation according to local codes or, in the absence of local codes, with latest edition of the National Fuel Gas Code ANSI Z223.1.
2. Do provide ample fresh air when using heater.
3. Do use only soap-water solution or a liquid gas leak detector when checking for leaks.
4. Do operate the heater only with the factory-installed safety screens in place.

5. Do keep clothing, furniture, draperies and other flammable materials away from the heater.
6. Do inspect the heater periodically and clean it as necessary.
7. Do keep the area around the heater clear and free from combustible materials, gasoline and other flammable liquids.
8. Do keep the heater's control access panel closed except for lighting or servicing the heater.
9. Do take the necessary precautions during any pressure testing of the heater's gas supply piping system.

DON'TS

1. Don't use candles, matches or any source of ignition when checking for leaks.
2. Don't operate the heater without the safety screens in place.
3. Don't place any combustible material near the heater.
4. Don't allow lint and dust to accumulate around the heater.
5. Don't close any openings in the heater cabinet or alter the cabinet in any way.
6. Don't use or store gasoline or any flammable or explosive material in the area heated by this heater.
7. Don't attempt to adjust the pilot flame.
8. Don't block or restrict any grilles of a factory-built fireplace in which this heater is installed.

MAINTENANCE

Visually check the heater's pilot burner flame periodically. (See figure 7.) The pilot gas flow is not adjustable on this heater. Proper operation of the ODS (Oxygen Depletion Sensitive) PILOT LIGHT SAFETY SYSTEM is dependent upon the pilot gas flow rate and any attempt to adjust this rate could cause the ODS system to not operated correctly. It is very important that the pilot burner be kept clean and free of lint and dust. Should the pilot flame show a yellow tip, clean the air intake of the pilot burner. (See figure 7.) The pilot orifice spud is not replaceable for this pilot. Should it become plugged, clean it only with forced air. NEVER FORCE A DRILL, WIRE OR ANY OBJECT INTO THE ORIFICE. Any increase in the orifice size will cause the ODS system to not work as it should.

Visually check the heater's main burner flames periodically. See figure 8. Any changes in the flames from those described by the INSTALLATION AND ADJUSTMENT section of this manual may indicate a dirty main burner which needs to be cleaned as described below.

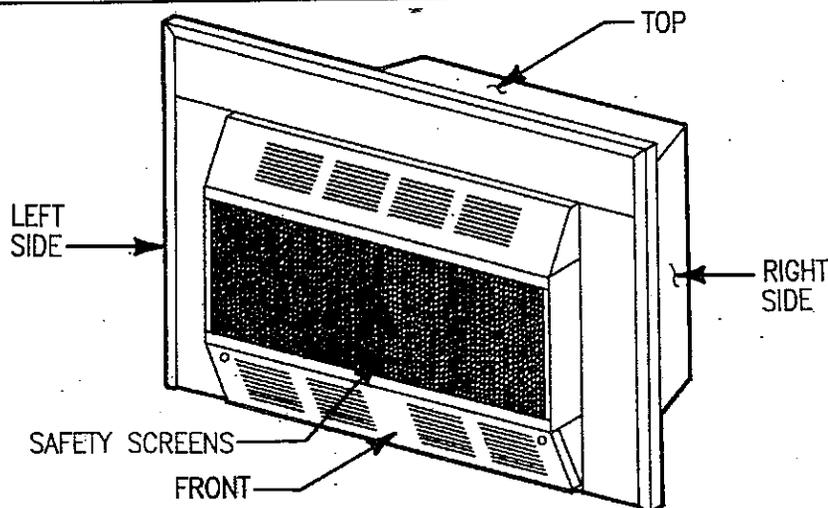
Air flowing through the heater will cause dust and lint to collect inside the heater. If allowed to become excessive, the dust and lint could cause the heater to operate improperly and produce hazardous levels of carbon monoxide. Air flow or water vapor could also carry some of the dust and lint from the heater into the space being served by the heater. Therefore, at least monthly, more frequently in abnormally dusty areas, the heater should be cleaned of any dust and lint. Before cleaning the heater, turn the heater's control knob to OFF and allow the heater to cool. To clean, removed the logs and vacuum or brush away all dust and lint. Pay particular attention to the air intake areas of the pilot burner and main burner. After the cleaning procedure is completed put the logs back in place as shown by figure 9.

WARNING: IF ANY GAS LINES ARE HIT DURING THE CLEANING PROCEDURE, A POTENTIAL FOR GAS LEAKS WILL OCCUR. CAREFULLY CHECK EACH JOINT IN THE GAS PIPING ACCORDING TO THE "INSTALLATION AND ADJUSTMENT" SECTION OF THIS MANUAL.

At least once a year, before first use, the heater and all gas piping should be inspected by a qualified service person.

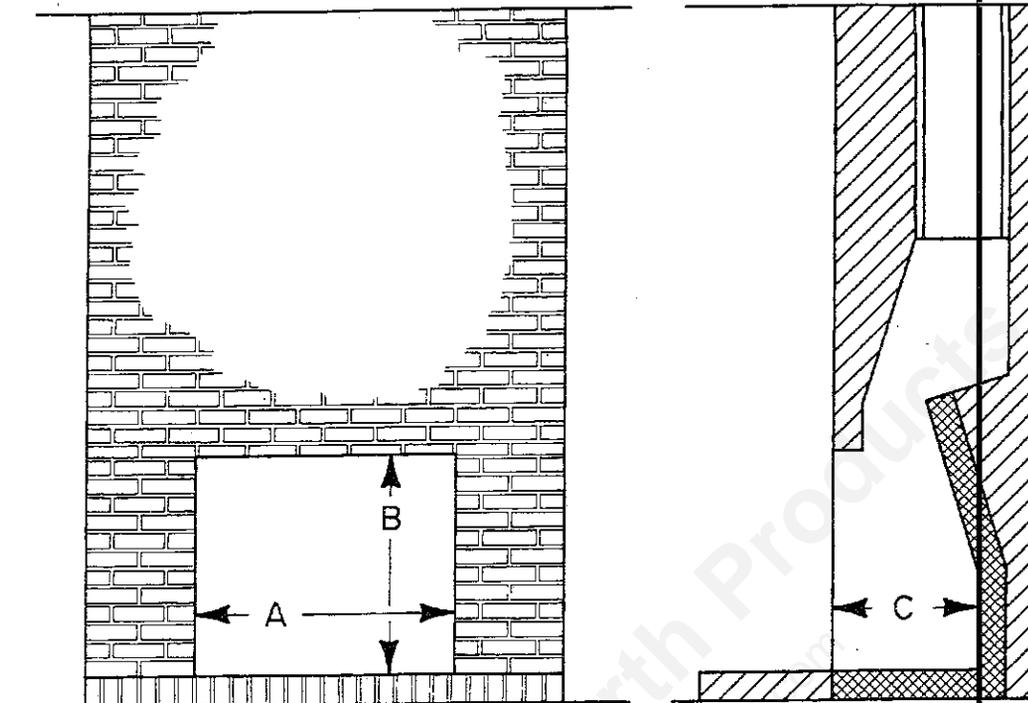
FIGURES

FIGURE 1



MINIMUM AND MAXIMUM SIZE OF FIREPLACE FOR GAS INSERT

FIGURE 2



DIMENSION	MINIMUM	MAXIMUM
A	26"	44"
B	22-1/4"	32"
C	13-1/4"	24"

FIGURE 3

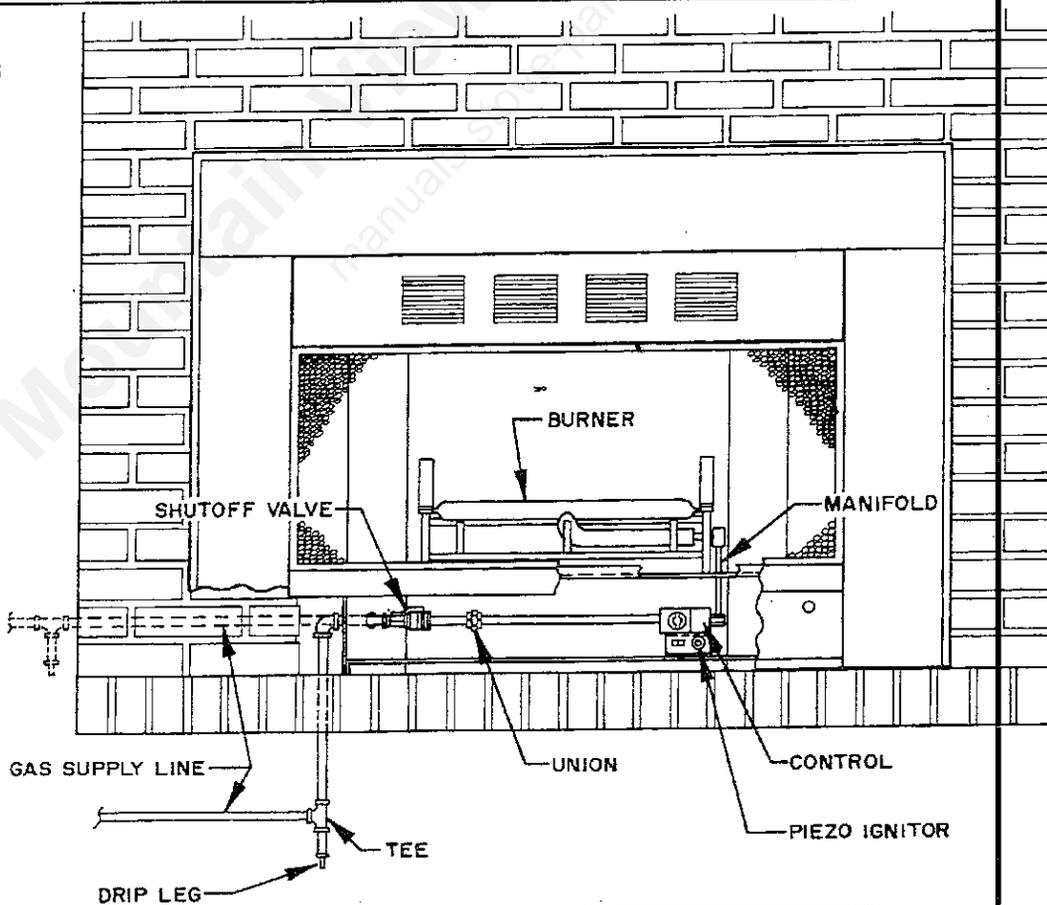


FIGURE 4

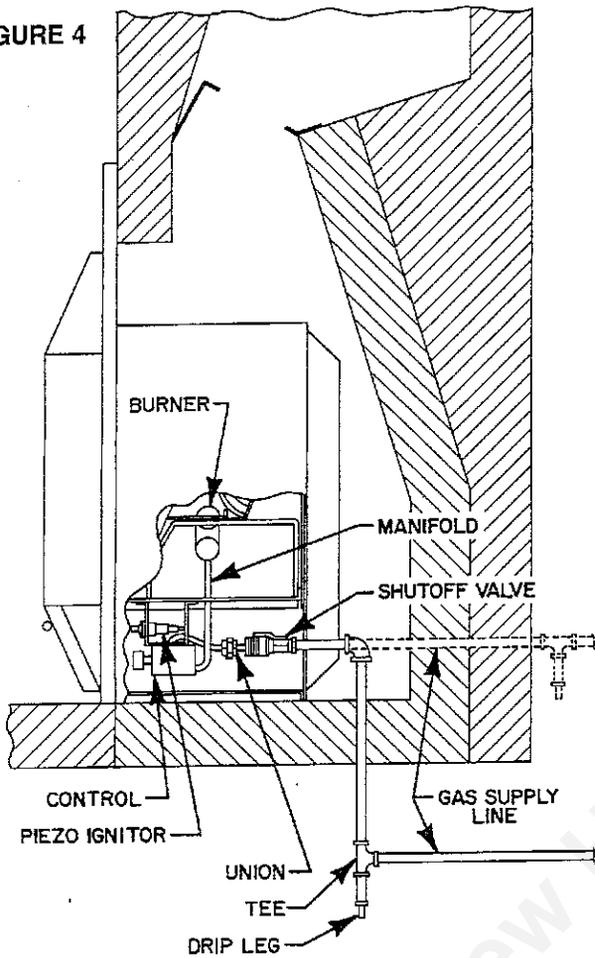


FIGURE 5

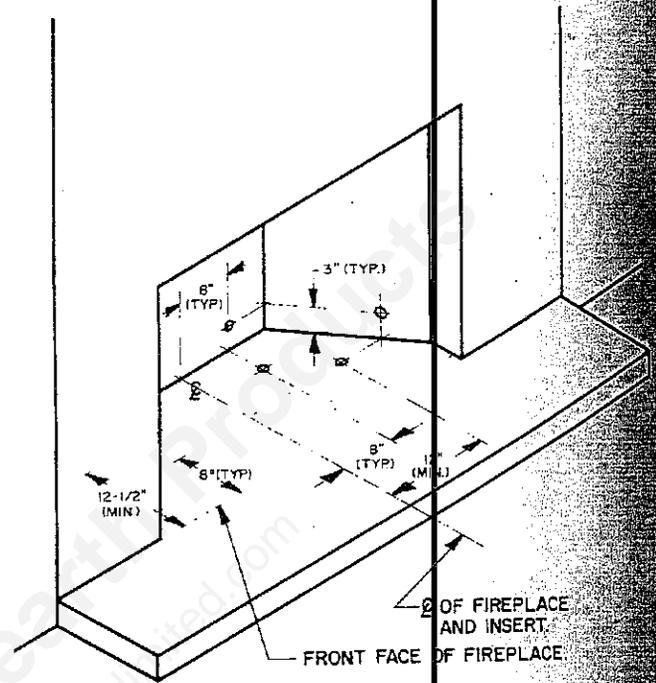


FIGURE 6

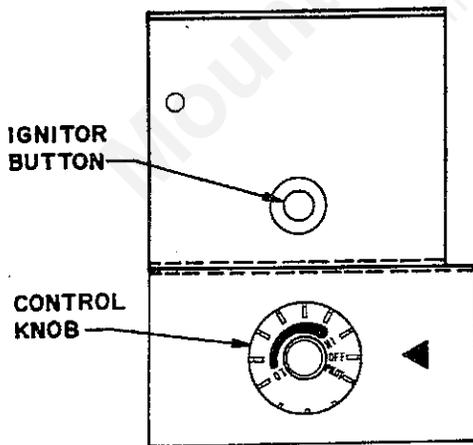


FIGURE 7

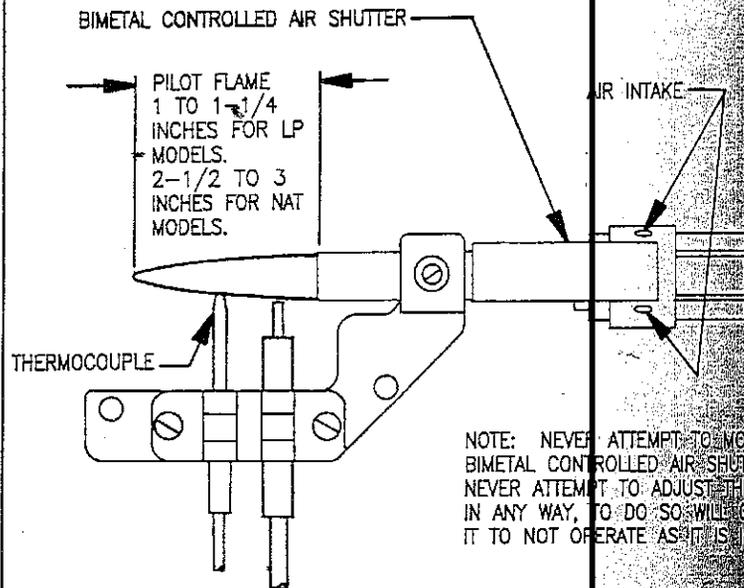


FIGURE 8

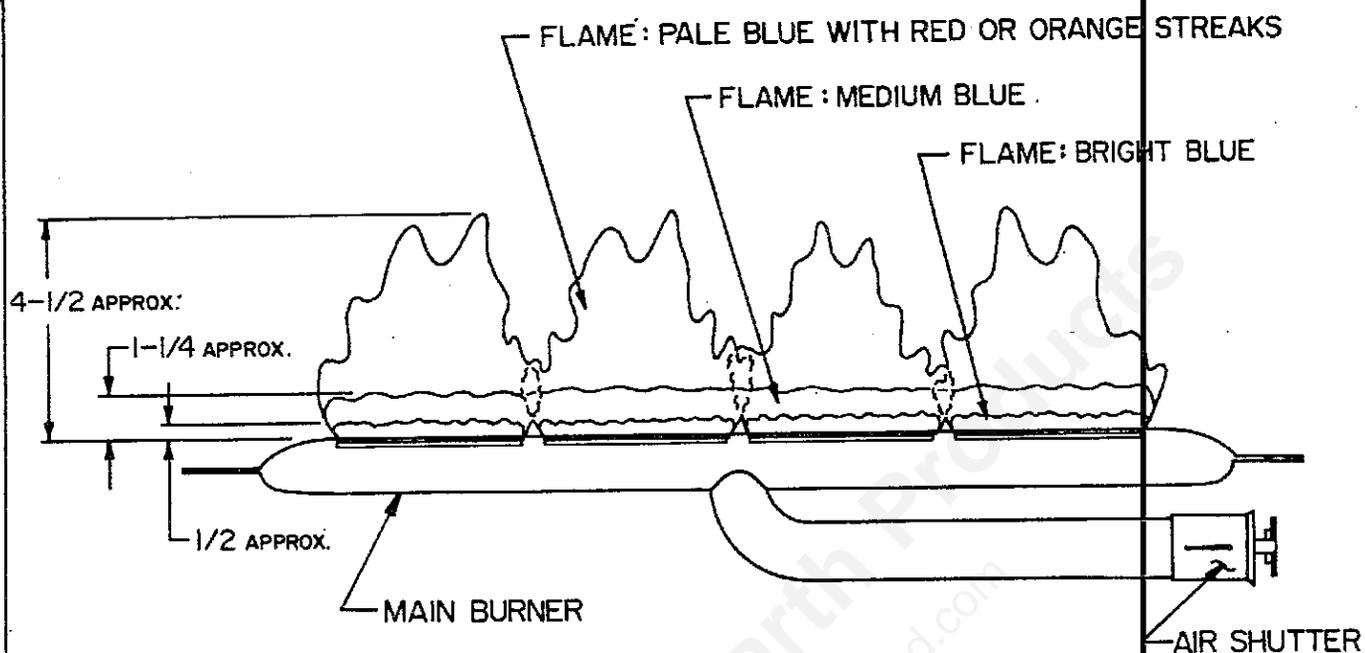
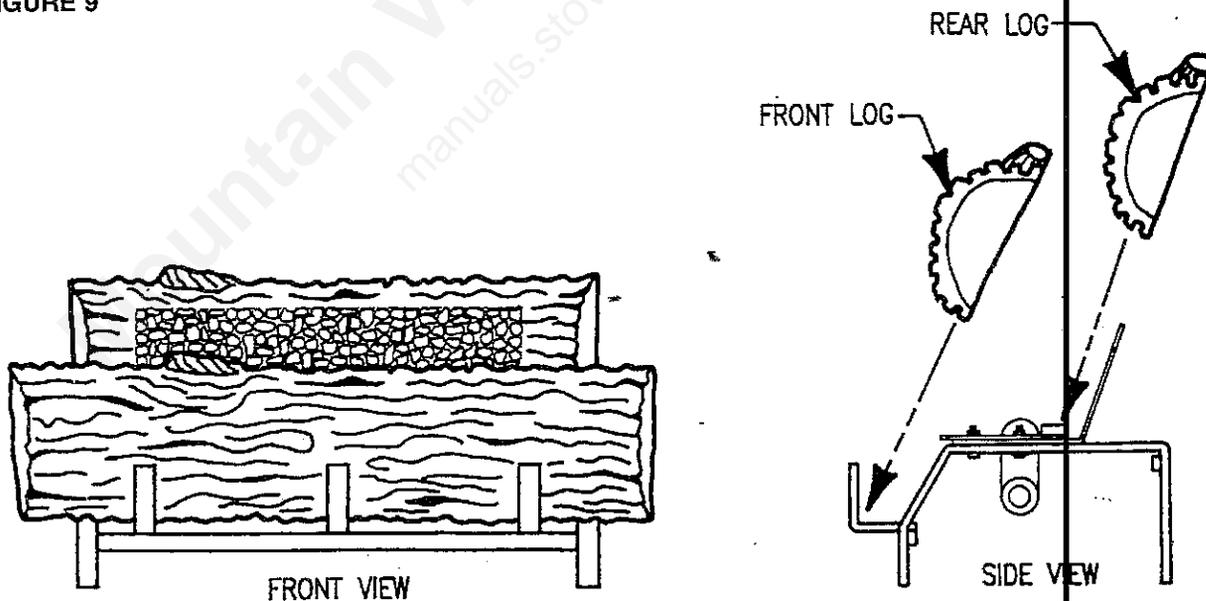


FIGURE 9



WARNING: FAILURE TO POSITION THE LOGS IN ACCORDANCE WITH THESE INSTRUCTIONS OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED WITH THIS HEATER MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY.

FIGURE 10

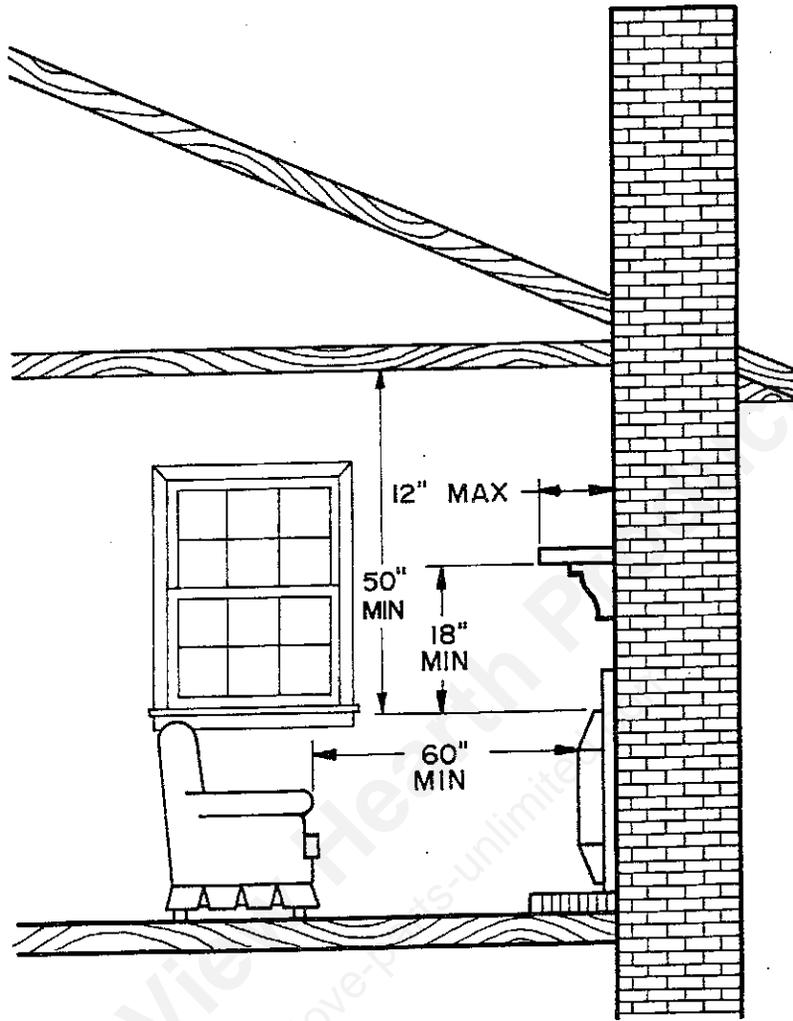
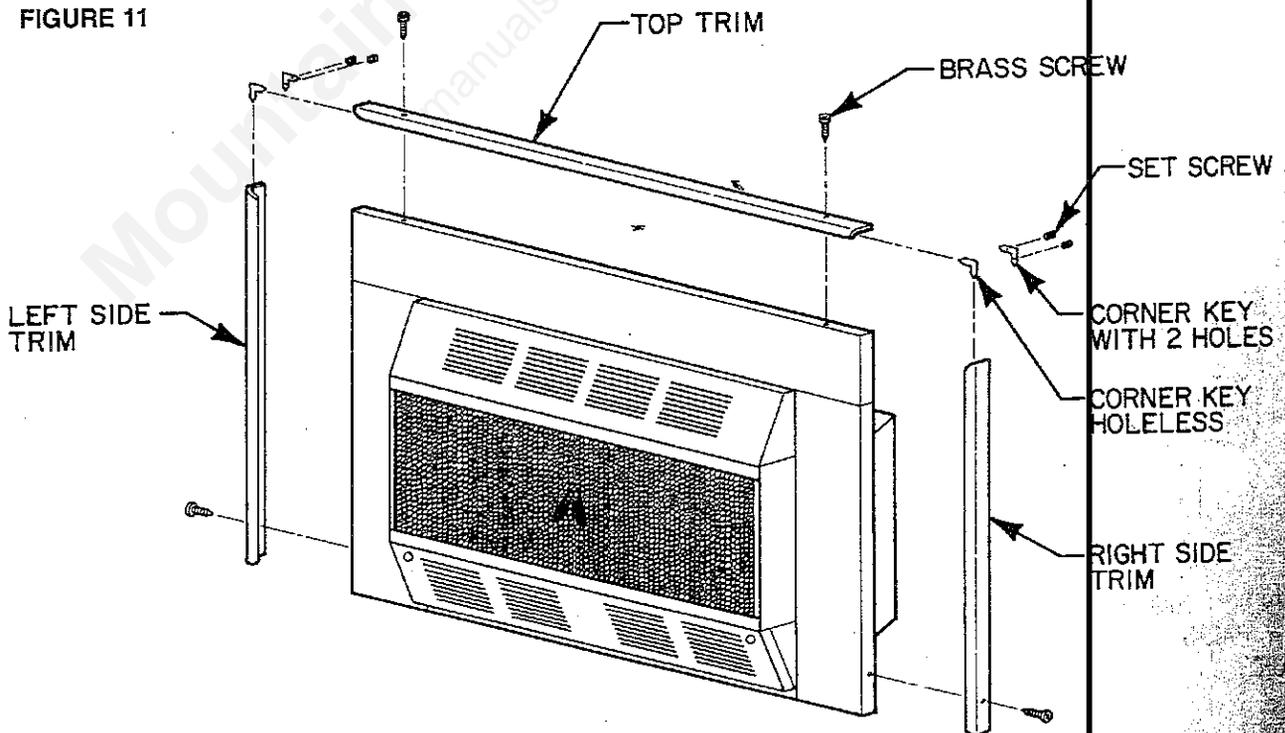


FIGURE 11



TROUBLESHOOTING

DUE TO HIGH TEMPERATURES, THIS APPLIANCE MUST BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.

CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARD OF HIGH SURFACE TEMPERATURE AND SHOULD BE KEPT AWAY TO AVOID BURNS OR CLOTHING IGNITION.

YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM WITH THE APPLIANCE.

ANY SAFETY SCREEN OR GUARD REMOVED FOR SERVICING AN APPLIANCE MUST BE REPLACED PRIOR TO OPERATING THE APPLIANCE.

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

INSTALLATION AND REPAIR SHOULD BE DONE 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 SOME CARPETING, BEDDING MATERIAL, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATING AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.

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

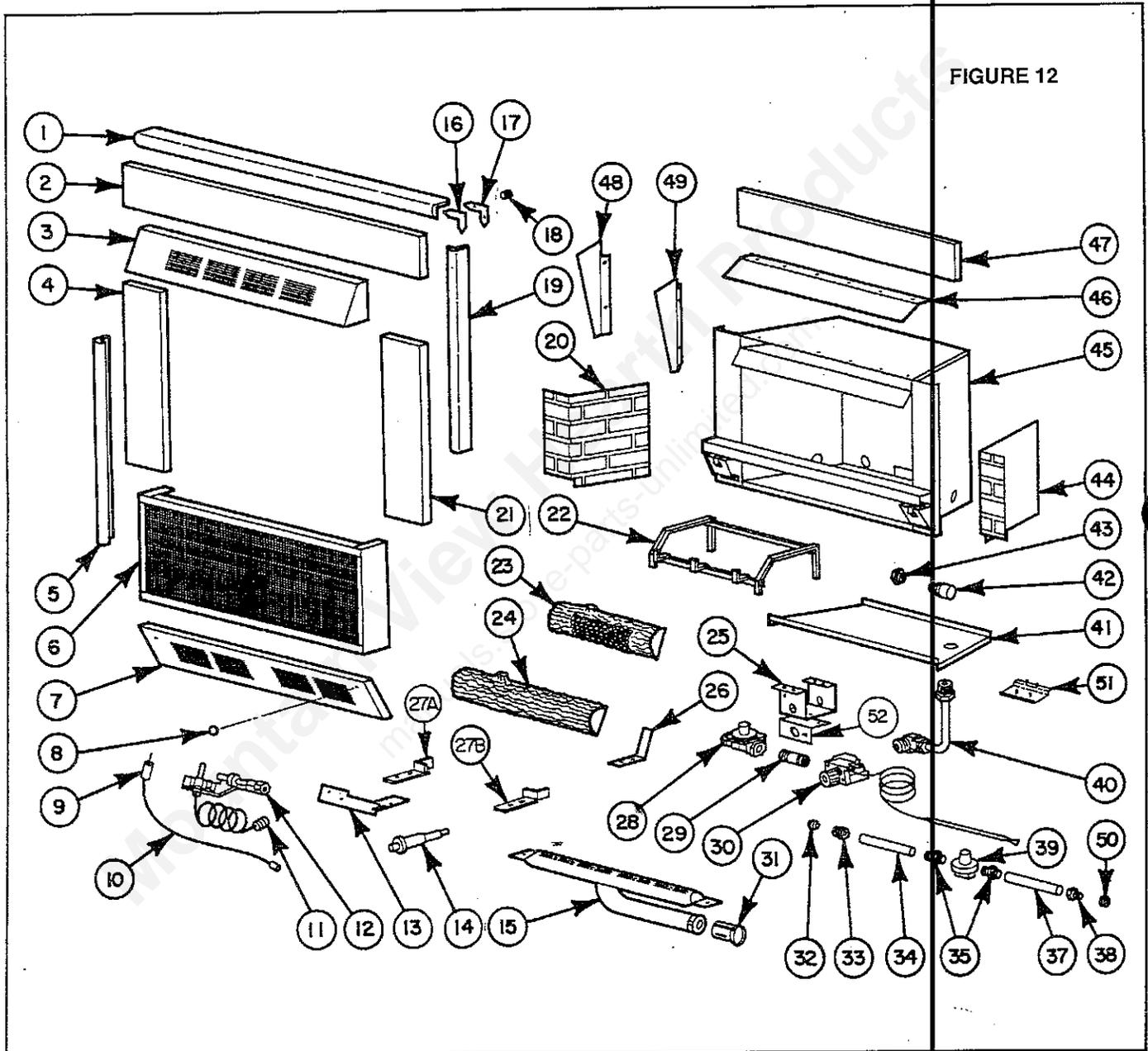
WHILE THE MANUFACTURER HAS MADE EVERY REASONABLE EFFORT TO INSURE THAT THIS HEATER OPERATES PROPERLY AND SATISFACTORILY, SOMETIMES PROBLEMS DO ARISE. THE FOLLOWING TROUBLESHOOTING CHART LISTS SEVERAL PROBLEMS WITH THEIR PROBABLE CAUSE AND REMEDY. ANY ADJUSTMENTS AND/OR REPLACEMENTS MUST BE MADE BY A QUALIFIED PERSON. DO NOT REPLACE ANY COMPONENT WITH A DIFFERENT TYPE. USE ONLY COMPONENTS SUPPLIED BY THIS HEATER'S MANUFACTURER FOR THIS HEATER.

TROUBLE	PROBABLE CAUSE	REMEDY
FLAME TOO LARGE	<ol style="list-style-type: none"> 1. PRESSURE REGULATOR AT GAS SUPPLY SET TOO HIGH. 2. DEFECTIVE REGULATOR ON HEATER. 3. HEATER'S BURNER ORIFICE TOO LARGE. 	<ol style="list-style-type: none"> 1. RESET, USING MANOMETER. 2. REPLACE. 3. REPLACE WITH CORRECT SIZE.
NOISY FLAME	<ol style="list-style-type: none"> 1. TOO MUCH PRIMARY AIR. 2. NOISY PILOT. 3. BURR IN ORIFICE. 	<ol style="list-style-type: none"> 1. CHECK AIR SHUTTER. 2. REDUCE PILOT GAS. 3. REMOVE BURR OR REPLACE.
YELLOW TIP FLAME	<ol style="list-style-type: none"> 1. TOO LITTLE PRIMARY AIR. 2. CLOGGED BURNER PORTS. 3. MISALIGNED ORIFICE. 4. CLOGGED BURNER AIR INTAKE. 	<ol style="list-style-type: none"> 1. CHECK AIR SHUTTER. 2. CLEAN PORTS. 3. REALIGN OR REPLACE BURNER. 4. CLEAN.
FLOATING FLAME	<ol style="list-style-type: none"> 1. INSUFFICIENT PRIMARY AIR. 	<ol style="list-style-type: none"> 1. CLEAN BURNER'S AIR INTAKE AREA. 2. CHECK AIR SHUTTER.
DELAYED IGNITION	<ol style="list-style-type: none"> 1. IMPROPER PILOT LOCATION. 2. PILOT FLAME TOO SMALL. 3. BURNER PORTS CLOGGED. 4. LOW PRESSURE. 	<ol style="list-style-type: none"> 1. REPOSITION PILOT. 2. CHECK ORIFICE, INCREASE GAS. 3. CLEAN PORTS. 4. ADJUST PRESSURE REGULATOR AT GAS SUPPLY.
PILOT BURNER WON'T IGNITE	<ol style="list-style-type: none"> 1. MAIN GAS OFF. 2. DEFECTIVE CONTROL VALVE. 	<ol style="list-style-type: none"> 1. OPEN SHUTOFF VALVE. 2. REPLACE.
MAIN BURNER WON'T TURN ON	<ol style="list-style-type: none"> 1. DEFECTIVE CONTROL VALVE. 	<ol style="list-style-type: none"> 1. REPLACE.
MAIN BURNER WON'T TURN OFF	<ol style="list-style-type: none"> 1. DEFECTIVE CONTROL VALVE. 	<ol style="list-style-type: none"> 1. REPLACE.

REPAIR PARTS

Repair parts may be ordered from your heater dealer, or from Martin Industries by calling 205-767-0330. Use figure 12 for reference when ordering parts. To help assure prompt and accurate filling of repair part orders, please supply the following information when placing a repair part order:

1. MODEL NUMBER OF HEATER
2. PART NAME
3. PART NUMBER
4. QUANTITY OF PARTS NEEDED



PARTS LIST FOR FIGURE 12

KEY NO.	PART NAME	QTY	PART NUMBER
1	Trim, Top	1	035355
2	Panel, Top Ptd.	1	046508
3	Hood, Ptd.	1	046526
4	Panel, Side Ptd.	1	046510
5	Trim, Left Side	1	036230
6	Grille Assy.	1	046519
7	Panel, Btm. Frt. Louver Ptd.	1	046492
8	Handle	2	019848
9	Electrode	1	021303
10	Cable	1	036384
11	Thermocouple	1	021302
12	Burner, Pilot L.P. Gas	1	021301
	Burner, Pilot Nat. Gas	1	021304
13	Bracket, Pilot Ptd.	1	036201
14	Piezo Ignitor	1	020676
15	Burner	1	030038
16	Corner Key (Holeless)	2	035318
17	Corner Key (W/2 Holes)	2	035317
18	Screw, Set	4	024035
19	Trim, Right Side	1	036229
20	Panel, Left Brick Ptd.	1	040053
21	Panel, Side Ptd.	1	046510
22	Base Assy. Ptd.	1	036196
23	Log, Rear w/Vermiculite	1	060292
24	Log, Btm. Front	1	046345
25	Bracket, Control Ptd.	1	040033
26	Bracket, Bk. Log Ptd.	2	036199
27A	Spacer, Left Ptd.	1	060333
27B	Spacer, Right Ptd.	1	060332
28	Regulator, LP Gas	1	059911
	Regulator, Nat Gas	1	061054
29	Pipe, Black Iron	1	F1012
30	Control Assy., LP Gas	1	045554
	Control Assy., Nat Gas	1	040032
31	Shutter, Air	1	035426
32	Ferrule, 3/16	1	032956
33	Nut, Compression	1	034963
34	Tubing, Aluminum 3/16" LP Gas	1	020675
	Tubing, Aluminum 3/16" Nat Gas	1	020674
35	Ferrule, Fitting Nat Gas	2	021863
37	Tube, Pilot (Nat Gas)	1	039562
38	Nut, Compression LP Gas	1	040031
39	Regulator, Pilot Nat Gas	1	021828
40	Manifold Assy.	1	036077
41	Pan, Log Ptd.	1	036206
42	Fitting/Nut	1	021683
43	Orifice, LP Gas	1	F4909
	Orifice, Nat Gas	1	032674
44	Panel, Right Brick Ptd.	1	040050
45	Chamber Assy Ptd.	1	046496
46	Shield, Hood Ptd.	1	046490
47	Baffle, Hood Ptd.	1	046491
48	Baffle, Left Ptd.	1	040057
49	Baffle, Right Ptd.	1	040055
50	Sleeve, Ball L.P. Gas	1	040009
51	Bracket, Capillary Bulb	1	050113
52	Bracket, Indicator Labeled	1	047184

Mountain View Hearth Products
manuals.stove-parts-unlimited.com

SAVE THIS MANUAL FOR FUTURE REFERENCE.

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GAS PRODUCTS DIVISION
P.O. Box 128, Florence, AL 35631
Phone: 205-767-0330
Fax: 205-740-5192

FORM NO. 046487-5-1095

UF/AUF/HC29C