

HOMEFIRES

OWNERS MANUAL

Installation & Operating Instructions

For REAL FLAME® Gas Coal And Gas Log Fires Using Natural Gas and Automatic Ignition

REAL FLAME

Please read these instructions carefully before you begin to install this gas coal/log set.

NOTE: Installer should leave these instructions with the customer for future reference.

This fireplace gas coal/log set is for use with **NATURAL GAS ONLY**.

Installation and all repairs must be performed by an individual who is experienced in the installation, repair, and servicing of vented gas coal/log sets.

W A R N I N G

**FOR INSTALLATION IN A VENTED FIREPLACE ONLY.
THE FIREPLACE CHIMNEY MUST HAVE A PERMANENT VENT OPENING TO ATMOSPHERE.**

KEEP DAMPER WIDE OPEN WHEN IN USE.

Do not burn wood or other material in any fireplace fitted with a gas coal/log set.
A fireguard should be used with this appliance for the protection of children and the elderly.

F O R Y O U R S A F E T Y

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

Young children are not allowed to operate this unit, and should be supervised
when they are in the same room with the appliance.

Do not use this appliance or any part that has been under water.

F O R Y O U R S A F E T Y

WHAT TO DO IF YOU SMELL GAS:

- Open Windows
- Do not try to light any appliances
- 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.

GENERAL INFORMATION

1. This gas coal/log set is only to be installed and used in a fully vented fireplace with a completely functional damper and chimney that is free of any obstructions. The fireplace must be constructed of non-combustible materials and approved to burn wood.
2. To operate this gas coal/log set, the flue damper **must be fully opened and locked**.
3. To be installed in a fireplace with a minimum height of 20", a minimum depth of 12" and a minimum width of 3 inches greater than the maximum width of the firegrate being installed. The flue size and height must be related to the size of the fireplace opening. For example, a big fireplace needs a tall wide flue. This gas coal/log set will normally require a chimney flue of at least 8 inches in diameter to clear its fumes. If in doubt consult your supplier. Do not use if fumes from the burner emerge into the room when the damper is fully open. This indicates that there is not adequate draft. Do not use until the problem is corrected.
4. If the fireplace has glass doors, operate the set with the doors fully opened. A fireplace screen, with an opening for introduction of combustion air, should be used when operating this appliance.
5. The nominal inlet gas pressure for this appliance is 7" water column for natural gas.
6. This gas appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing at pressures in excess of 1/2 PSIG.
7. Do not move or jostle the grate once it has been connected to the gas line.
8. The National Health and Safety Board recommend 1CO (carbon monoxide) detector for each floor.
9. The installation of the appliance and the provisions for combustion and ventilation air must conform with NFPA 54 unless otherwise noted in local building and safety codes.
10. The minimum permanent free fireplace opening required is 70 square inches.

FIREPLACE PREPARATION

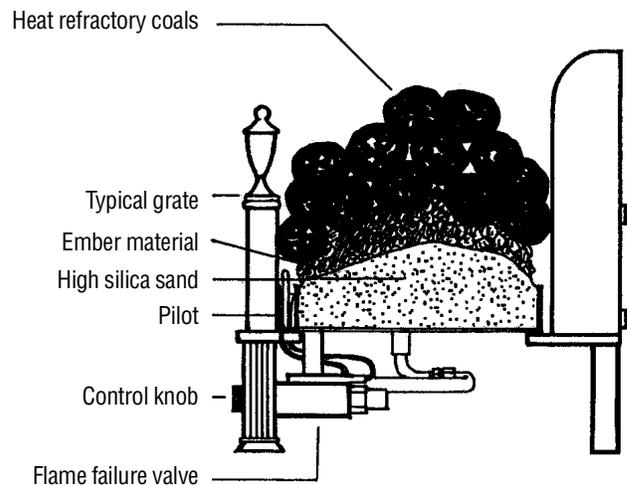
- A. Remove all ash and debris from the inside of the fireplace.

- B. Prior to connecting the gas coal/log set, make sure the gas supply is completely shut off.
- C. Prior to installation, a smoke test should be performed using a smoke pellet. The pellet is ignited at the base of the flue in the fireplace opening. **All the smoke created must be emitted at the termination of the flue without spillage from the fireplace opening or without leakage from the flue in other parts of the building. If spillage is taking place then either:**
 - the flue is partially blocked
 - the fireplace opening is too great for the height of the flue
 - the flue diameter is too narrow for the size of the fireplace opening

INSTALLATION INSTRUCTIONS

Firegrate & Burner Pan Placement

- A. The firegrate should sit in the center back of the fireplace.
- B. The burner sits in the bottom of the firegrate with the control knob facing the **Front** (see drawing).

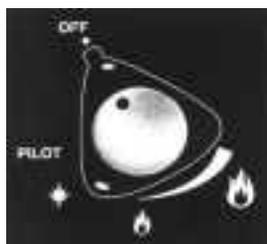
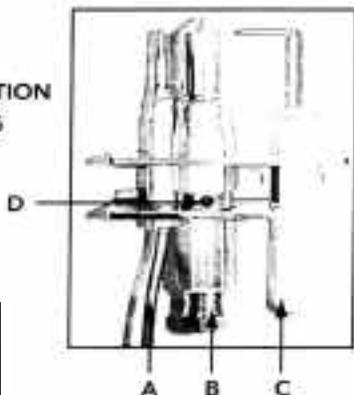


The pan is locked into the firegrate using the fixing clips found in the box with the coals. The purpose of the fixing clips is to prevent the burner from moving when the USER operates the control knob. Simply tighten the bolts so that they push against the firegrate and lock the burner pan into position.

Check the ignition electrode spark by pushing in and turning the valve knob counter-clockwise until

PILOT ASSEMBLY

- A. THERMOCOUPLE
- B. 4mm GAS CONNECTION
- C. PIEZO LEAD WIRING
- D. AERATION PORT



there is a definite click. Check that a spark is produced between the pilot burner and the piezo electrode.

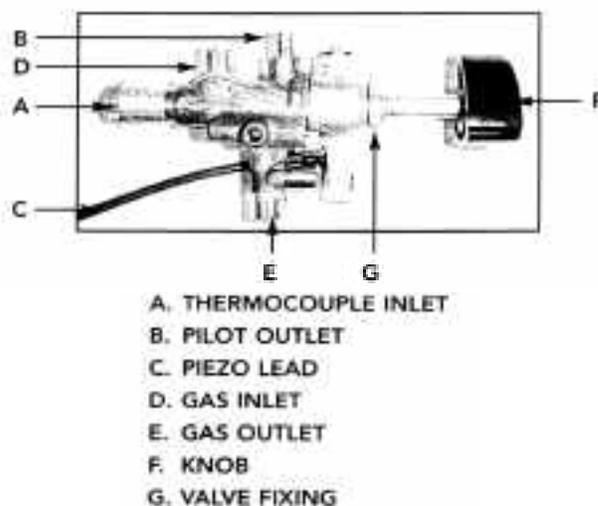
Connecting gas supply to Burner Pan

The 3/8" gas tubing will enter from the back of the fireplace and should be fitted inconspicuously at the back of the hearth. It should then be run up and connected to the inlet side of the flame failure valve beneath the firegrate. Use tape, not pipe dope, to seal the 3/8" flare connection. Visible gas piping should be painted black.

Testing, Sand, Ember, and Coal Placement

- A.** Fill the burner to the top edge with the high silica sand supplied. Overfill rather than underfill.
- B. Igniting the PILOT manually.** Apply a lit match to the pilot burner head while pressing in and turning the knob counter clockwise to the ignition position.  The pilot burner should light. Continue to depress the valve for another 15-20 seconds. When you release the knob, the pilot should remain lit
- C. Igniting the PILOT by spark generator.** From the OFF position, push the valve knob in and turn counter clockwise. You should feel a click. A "spark" will be produced and the pilot should light. The knob will be in the ignition position.  Continue to depress the valve knob for another 15-20 seconds. When you release the knob, the pilot should remain lit.

CONTROL VALVE



If the pilot goes out, repeat the above steps.

Once the pilot is lit, rotate the knob from the  to the large  position (full counter clockwise) to supply full flow to the main burner. An even distribution of flame should be seen on the sand bed. If it is not evenly distributed, turn off the burner and adjust the depth of sand bed—less sand for more flame and more sand for less flame.

These controls are factory preset and will not normally require additional adjustment of the pilot flame. If field adjustment of the pilot is required, turn the adjusting screw clockwise to reduce flame, or counterclockwise to increase flame.

- D.** Lay the black ember material supplied along the front edge of the fire. This gives the flickering effect. Break the tan ember material into smaller pieces and place it evenly over the rest of the sand bed, particularly piling toward the center.
- E.** If you have a log fire, place the logs in any pleasing arrangement, but stack them loosely with air spaces between the logs. For a coal fire, stack the coals as loosely as possible.

Spillage Test:

Test for spillage of fumes into the room with a smoke match*. The smoke match should be moved slowly along the top of the fireplace opening just inside the fireplace. If the smoke is drawn into the fireplace then draft is correct. If smoke can

be seen coming into the room the fireplace is spilling. Disconnect the appliance and correct the flue system. (See enclosed spillage test diagram.)

**Smoke matches and pellets are also available from HomeFires.*

Warning:

Improper installation may cause Carbon Monoxide Poisoning. Carbon Monoxide, which is an odorless and colorless gas, is a by-product of combustion. Caution must be taken to insure the fireplace is properly vented when set is in use. To avoid having potentially dangerous fumes enter the living area, be sure the chimney is drawing properly.

OPERATING INSTRUCTIONS

Lighting your gas coal/log set (Automatic Valve only)

- A.** Open chimney flue damper to the full open position and lock it.
- B.** Be sure gas control knob is to **OFF** position (it may be necessary to depress the knob slightly at the **PILOT** position).
- C.** If there is a floor key or manual gas cock in or around the hearth turn it to the full open position.
- D.** Push the valve knob in and turn counter clockwise. You should hear and feel a click, a "spark" will be produced and the pilot should light. Continue to depress the valve knob for another 15-20 seconds. When you release the knob, the pilot should remain lit.
- E.** After igniting the pilot, turn the valve knob counter clockwise to the high setting. The main burner will light and the pilot will remain lit. You may now control the flame level of the fire by turning the control knob from full to low without depressing the knob.
- F.** To leave just the **PILOT** on, push the valve in and turn clockwise from the low setting to the pilot setting. the main burner will go out, but the pilot will remain lit.
- G.** To turn the appliance completely off, push in the valve knob and turn clockwise in the **OFF** position. The burner and the pilot will extinguish completely.

MAINTENANCE

Very little if any maintenance is required. The carbon deposits resulting from use is natural and adds to the realistic appearance of the set. If carbon becomes excessive it can be lightly brushed away.

It is most important that you have your fire serviced once a year. This is to insure that combustion remains correct and that your flue remains clear and unobstructed so that no dangerous fumes can spill into your room.

GUARANTEE/WARRANTY

These logs and coals are guaranteed against breakage in normal use for their replacement for a period of two years from the date of purchase. All other components are guaranteed against defects in material and workmanship for a period of one year from date of purchase. This excludes variations in color which occur naturally from heat impingement. Claims under this guarantee should be accompanied by the original purchase invoice. This warranty does not apply in the case of improper installation, neglect, accident, misuse or as a result of modifications of the original product. All costs for removal and reinstallation are the expressed responsibility of the purchaser. Failure to follow all instructions in the Owner's Manual will also void this warranty

Real Flame® and S.C.S. Incorporated will not be liable for incidental or consequential damages.

If this item fails due to defect in material or craftsmanship, we will replace or repair, at our option, free of charge. To order parts or obtain warranty service, call or write:

SCS Incorporated

PO Box 11313
Charlotte, NC 28220

Phone: 1-800-749-4049

Fax: (704) 376-0268

www.homefiresusa.com

email: info@homefiresusa.com

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