

ASSEMBLY, INSTALLATION AND OPERATION INSTRUCTIONS FOR

RASMUSSEN GAS LOG SETS

MODELS 4018 4024 5024 5030



These instructions conform to ANSI Z21.60B-1984.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read these instructions thoroughly before installation. For assistance or additional information consult your gas log dealer, qualified installer, service agency or gas supplier.

FOR YOUR SAFETY

If you smell gas

1. Open windows.
2. Don't touch electrical switches.
3. Extinguish any open flame.
4. Immediately call your gas supplier.

FOR YOUR SAFETY

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

IMPORTANT INFORMATION

1. This gas log set must be installed only in a vented fireplace with a working flue and constructed of noncombustible material.
2. The minimum permanent free opening of the fireplace chimney or chimney damper must be at least 39 square inches based on a minimum chimney height of at least 8 feet. The area of the flue must not be less than 1/10 the area of the fireplace opening.
3. The chimney damper must be fixed in a manner to maintain the minimum permanent free opening outlined in item 2 above at all times. To accomplish this, install the damper clamp (provided) on the edge of the damper blade to prevent its closing, or drill a hole or holes in the damper.
4. The minimum size of the fireplace in which the log set is to be installed must be as follows:

MINIMUM FIREPLACE SIZE IN INCHES

Model No.	Size	Height	Depth	Width	Chimney
4018	18 inch	16	12	24	7 inch diameter
4024 & 5024	24 inch	16	12	30	7 inch diameter
5030	30 inch	16	12	36	7 inch diameter

5. A fireplace screen must be in place when the log set is in operation and, unless other provisions for combustion are provided, the screen shall have an opening(s) for introduction of combustion air. Glass Doors must be wide open when burning to allow air for safe combustion and venting.
6. The minimum inlet supply pressure for the purpose of input adjustment shall be 6 inches of water column on natural gas and 11 inches of water column on L.P. gases.
7. The maximum inlet supply pressure for the purpose of input adjustment shall be 7 inches of water column on natural gas and 14 inches of water column on L.P. gases.

8. The installation and the provision for combustion and ventilation air must conform with the National Fuel Gas Code ANSI Z223.1-1984.

9. The gas log set 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 (3.34kPa). The gas log set 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.

10. The area around the gas log set must be clear and free from combustible materials, gasoline, and any other flammable vapors and liquids.

WARNING
CARBON MONOXIDE POISONING
MAY LEAD TO DEATH

When used without fresh air, this gas log set may give off carbon monoxide, an odorless, colorless, poisonous gas.

Some people - pregnant women; persons with heart or lung disease, anemia, or under the influence of alcohol; and persons at high altitudes are more affected by carbon monoxide than others.

Early signs of carbon monoxide poisoning resemble the flu - headache, dizziness and/or nausea. If you have these signs, the gas log may not be installed or working properly, or the chimney flue may be blocked. GET FRESH AIR AT ONCE! Have gas log set and chimney flue serviced.

* OPEN A WINDOW AN INCH OR TWO FOR *
* FRESH AIR WHEN USING YOUR GAS LOG *

PREPARATION OF FIREPLACE FOR GAS LOG INSTALLATION
(IF LOCAL VALVE IS NOT ALREADY INSTALLED)

1. Turn off all gas appliances in the house.
2. Close main gas valve at the meter.
3. Install a gas valve on the supply line in or just outside the fireplace.
4. Use L.P. gas-resistant compound on all threaded joints.
5. Close gas valve at the supply line in the fireplace.
6. Open main gas valve at the meter.
7. Test new piping for leaks using soap solution. DO NOT USE OPEN FLAME.
8. Light all other gas appliance in the house by following lighting instructions located on each appliance.

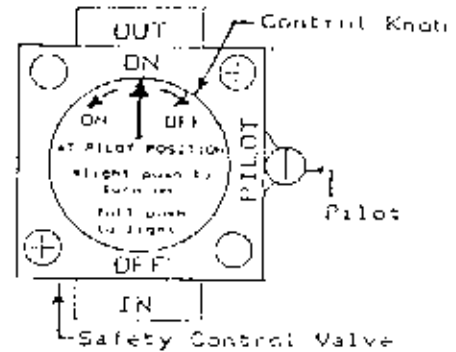
ASSEMBLY AND INSTALLATION

1. Place grate and burner assembly in the fireplace.
 2. Connect log set to gas supply line. Use a pipe joint compound which is resistant to the action of L.P. gases on all pipe threaded joints.
 3. Turn on the gas valve at the supply line in the fireplace. Check connections for gas leaks by using a soapy solution. DO NOT USE OPEN FLAME.
 4. Place the largest log in the front and the second largest log in the rear on the grate. Place top logs in position. The pins on the grate, front and rear logs should coincide with the holes located at the bottom of the top log. See diagram on page 4.
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LIGHTING & SHUTTING DOWN

Control Code: J

1. Slightly push knob and turn to "OFF".
2. Wait five minutes before lighting.
3. Slightly push knob and turn to "PILOT".
4. Depress knob and light pilot. Continue to depress until pilot remains lit when knob is released.
5. Turn knob to "ON".
6. Repeat 1 through 5 above if gas supply is interrupted.
7. For complete shutdown, slightly push knob and turn to "OFF".



PILOT AND BURNER FLAME ADJUSTMENT

PILOT BURNER

Pilot flame should be steady and soft blue surrounding 1/2 inch of the thermocouple tip (see figure 9). If adjustment is necessary remove the slotted cap and washer covering the pilot adjustment screw. Use narrow long stem screw driver to adjust screw clockwise for less flame, counter clockwise for more flame. Replace cap and washer.



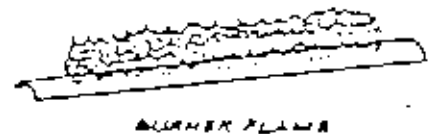
Figure 9

MAIN BURNER

For maximum efficiency and minimum soot formation the flame should be a soft non-blowing blue flame. Yellow flames will create some carbon on logs but will most approximate a wood fire. Adjust air shutter (part 5) by loosening screw and sliding away from valve for blue flame and toward valve for yellow flame. Tighten screw after adjustment is complete.

MAINTENANCE

Keep area around log set free and clear from debris. From time to time, visually check burner and pilot flames. The burner and pilot should be free of lint and dirt for optimum performance. Refer to sketch. Periodically, use a steel brush with stiff bristles to clean logs, burner and pilot.



HOW TO ORDER PARTS:

*Information available on name plate fastened to grate.

You can order parts through the supplier from which you purchased your log set. When ordering parts, always specify the following:

- * 1. Model No. of the log set.
- * 2. Serial No. of the log set.
- * 3. Type of gas (natural or L.P. gas).
- * 4. Control code.
5. The name of the part and part number - see parts list.

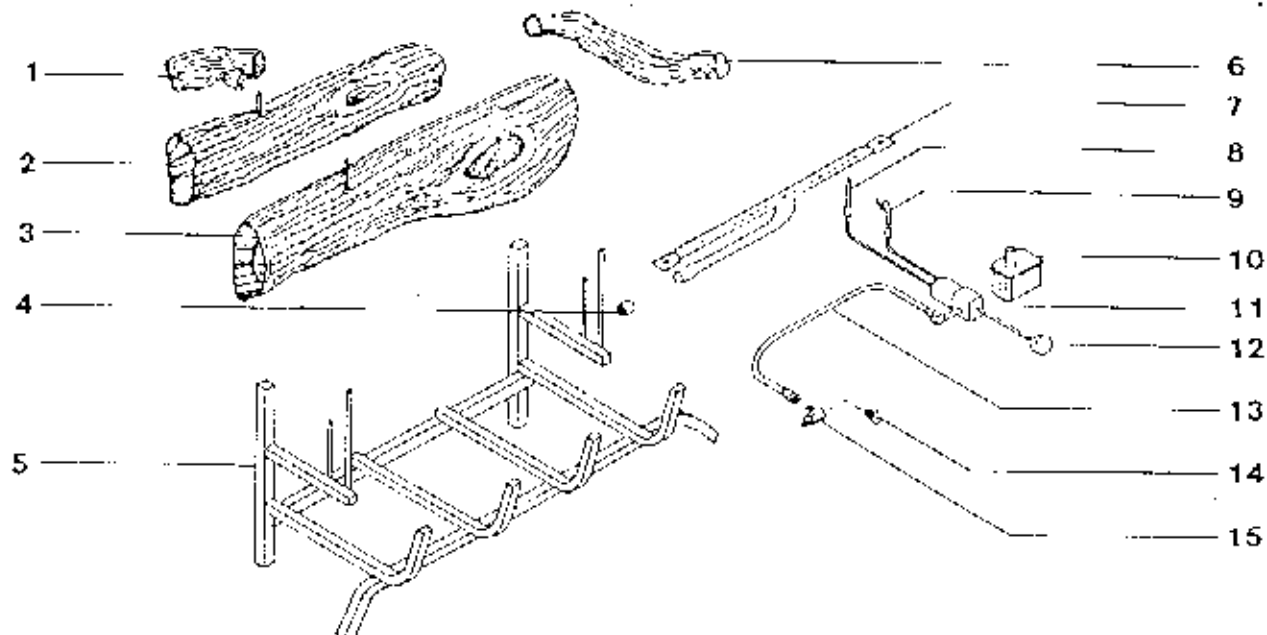
MANUFACTURED BY: RASMUSSEN IRON WORKS, INC.
12028 E. PHILADELPHIA STREET - WHITTIER, CA 90601

SAVE THESE INSTRUCTIONS. FILL IN BLANKS BELOW FOR YOUR PERMANENT RECORD.

DATE PURCHASED: _____ DATE INSTALLED: _____ BY WHOM: _____

DEALER: _____

MODEL NO. _____ SERIAL NO. _____ GAS TYPE _____



PARTS LIST

MODEL 4018, 4024, 5024 & 5030

ITEM/GROUP	DESCRIPTION	PART NUMBER
1	SMALL TOP LOG 18"	STL 18
1A	SMALL TOP LOG 24"	STL 24-30
1B	SMALL TOP LOG 24" & 30"	STL 5024-30
2	REAR LOG 18"	RL 18
2A	REAR LOG 24" & 30"	RL 24-30
3	FRONT LOG 18"	FL 18
3A	FRONT LOG 24"	FL 24
3B	FRONT LOG 30"	FL 5030
4	AIR SHUTTER	AS 4050
5	SMALL CRATE	LC 40
5A	LARGE CRATE	LG 50
6	LARGE TOP LOG 18"	LTL 18
6A	LARGE TOP LOG 24"	LTL 24-30
6B	LARGE TOP LOG 24" & 30"	LTL 5024-30
7	SMALL BURNER	SB 40
7A	LARGE BURNER	LB 50
8	THERMOCOUPLE	18T
9	PILOT BURNER (NATURAL GAS)	J95R-N
9A	PILOT BURNER (PROPANE GAS)	J95R-L
10	PRESSURE REGULATOR (NATURAL GAS)	PR-N
10A	PRESSURE REGULATOR (PROPANE GAS)	PR-L
11	SAFETY CONTROL VALVE WITH FILTER	J100 AIA-LS-F
12	DIAL KNOB	JK
13	SHORT MANIFOLD	SM-12
13A	LONG MANIFOLD	LM-12A
14	ORIFICE (NATURAL GAS) 40,000	031
14A	ORIFICE (PROPANE GAS) 40,000	049
14B	ORIFICE - MAIN BURNER (NATURAL) 50,000	029
14C	ORIFICE - MAIN BURNER (PROPANE) 50,000	045
15	3/8" BRASS ANGLE ORIFICE HOLDER W/PRESS. TAP	OH

MISCELLANEOUS PARTS

3/8 BRASS ANGLE FITTING	A2
PILOT BURNER TUBING & FITTINGS	PB
LOCK NUT	LN
3/8 CLOSE NIPPLE	3/8CN
ORIFICE-PILOT BURNER (NATURAL)	A205
ORIFICE-PILOT BURNER (PROPANE)	A204
DAMPER STOP CLAMP	DC-1
GAS CONNECTOR TUBE	18AGA