

bryant

OPERATING INSTRUCTIONS FOR GAS CONVERSION BURNERS

MODELS 94 & 209

BRYANT MANUFACTURING COMPANY
INDIANAPOLIS, IND. • TYLER, TEXAS
CANCELS EH 94,209-1

EH 94,209-2

EFFECTIVE 1-1-59

INSTALLER: PLEASE HANG THESE INSTRUCTIONS NEAR FURNACE OR BOILER

BEFORE LIGHTING BURNER

1. When conversion burner is installed in a boiler, be sure that all valves are open in the supply and return pipes. Be sure that boiler is properly filled with water.

When conversion burner is installed in a warm-air furnace, be sure that all warm-air registers are open. Be sure that return air grilles are unobstructed.

2. If a humidifier is installed, open the water supply valve.

3. If a line voltage switch is provided in the circuit, turn off the switch.

4. Set indicator of the room thermostat 5 to 10 degrees below actual room temperature.

5. Make sure that both the main burner manual gas shut-off valve and the pilot manual gas valve have been closed for at least five minutes before proceeding. NOTE: The automatic pilot will shut off the gas supply to the main burners if the pilot flame is extinguished for any reason. When re-lighting the furnace, due to a failure of pilot flame, proceed as follows:

a. Close the main burner manual gas shut-off valve.

b. Close the pilot manual gas shut-off valve.

c. Wait five minutes for the furnace to be purged of gas.

TO LIGHT PILOT

BRYANT PILOT WITH ELECTRIC PUSH BUTTON IGNITION

1. If a line voltage switch is provided in the circuit, turn on the switch.

2. Open the manual pilot valve on the push button box.

3. Depress the push button until the green light appears, indicating that the pilot is lighted.

BRYANT PILOT WITHOUT ELECTRIC PUSH BUTTON IGNITION

1. Open the manual pilot valve.

2. Light the pilot with a match or taper. The pilot will light as soon as all air is purged from the pilot supply line.

COMPLETE AUTOMATIC SHUT-OFF PILOT

1. Open the manual pilot valve.

2. Depress the reset button of the Baso valve and light the pilot with a match or taper. Hold the reset button in the depressed position for approximately 30 seconds, or until the pilot stays lighted when the button is released.

TO LIGHT MAIN BURNER

1. Open the manual shut-off valve.

2. If a line voltage switch is provided in the circuit, turn on the switch.

3. Set the room thermostat above room temperature approximately 5 to 10 degrees. The burner should turn on.

4. Reset the room thermostat to the desired room temperature.

TO SHUT DOWN BURNER

1. If a line voltage switch is provided in the circuit, turn off the switch.

2. Close the manual shut-off valve.

3. Close the manual pilot valve.

4. Close the humidifier water supply valve.

MAINTENANCE AND SERVICE

The boiler or furnace and conversion burner should be inspected and cleaned before the start of each heating season. This will insure best performance and trouble-free operation.

In the event that your heating equipment does not operate properly, consult your local gas company or a competent serviceman. Do not attempt to correct the difficulty unless qualified to do so.

TO OPERATE BURNER MANUALLY DURING POWER FAILURE WHEN BURNER IS INSTALLED IN:—

GRAVITY WARM AIR FURNACES, GRAVITY HOT WATER BOILERS AND STEAM BOILERS

1. Turn off the electric switch controlling the burner and leave it off until power has been restored.

2. Remove burner cover.

3. After making sure that the pilot is burning properly, depress the lever above the valve name plate from the position marked "Automatic" to "Manual". This operation opens the valve and the burner will turn on.

4. Replace the burner cover. Keep close watch on room temperature to be

sure the unit does not overheat, since the electric switch type limit controls will not shut the burner off. If the power is off for long periods, it may be necessary to control the burner by hand, turning it on for short periods as heat is required.

5. Upon resumption of the supply of electric current, return the lever on the gas control valve to its original "Automatic" position and turn on the electric control switch to restore the heating system to normal operation. Replace burner cover permanently.

WHEN BURNER IS INSTALLED IN:— FORCED WARM AIR FURNACES AND FORCED HOT WATER BOILERS

Follow all the above instructions carefully.

In addition, remove all furnace access panels and filters and open all duct dampers, first marking their positions with a pencil, — or in the case of a boiler open all valves and other restrictions in any of the circulating water lines. Turn on the gas by means of the manual knurled knob mentioned above, but reduce burner flame to a minimum adjustment (approximately 1/3 or 1/4 normal size) by partially closing the main manual shut-off valve.

Keep in mind that the circulator or blower will not work, and that the unit can easily overheat. Check often, and shut off the burner, even if the house needs more heat, should the unit overheat. When the power is restored, the main manual shut-off valve must be fully opened, and all panels, valves, etc. returned to their normal operating positions. Then restore to normal service as instructed in step (5) above.

FLOODED BASEMENT

If the basement floods, the main burner manual valve and the pilot manual valve should be closed and should not be reopened until the equipment has

been inspected by the gas company.