

KEEP THIS MANUAL NEAR BOILER
RETAIN FOR FUTURE REFERENCE

SERIES OSC
USER INFORMATION MANUAL
INSTRUCTIONS FOR OPERATION AND
MAINTENANCE OF GAS FIRED HOT WATER BOILER

! 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 SWITCHES; 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.

Olsen Technology, Inc. recommends that all boiler maintenance be performed by a trained heating technician.

! DANGER

- Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

! WARNING

- Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury

! CAUTION

- Indicates a potential hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

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LIGHTING INSTRUCTIONS



Before operating, make certain the boiler and system are full of water to minimum pressure (this is usually 12 lbs. per square inch on most systems) and system is vented of air. See the operating and lighting instructions.

LIGHTING PROCEDURE FOR BOILER WITH A HOT SURFACE PILOT SYSTEM (FOR YOUR SAFETY READ BEFORE OPERATING)

- A. This appliance is equipped with an ignition device which automatically lights the pilot. **Do not** try to light the pilot by hand.
- B. Before operating 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. See “**WHAT TO DO IF YOU SMELL GAS**” located on the cover of this manual.
- C. Use only your hand to move the ignition system control switch. Never use tools. If the switch will not move 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 service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

OPERATING INSTRUCTIONS

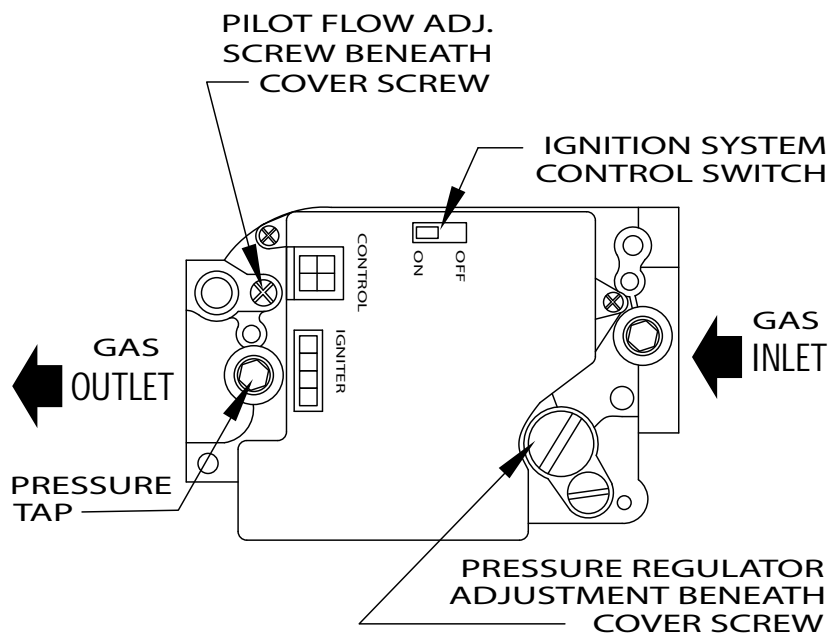
1. **STOP!** Read the safety information above in this manual.
2. Set the thermostat to lowest setting.
3. Turn off all electric power to the appliance.
4. This appliance is equipped with an ignition device which automatically lights the pilot. **Do not** try to light the pilot by hand.
5. Move the ignition system control switch to the “OFF” position. (See figure 1 on page 3.)
6. Wait five (5) minutes to clear out any gas. If you then smell gas, **STOP!** Follow “**WHAT TO DO IF YOU SMELL GAS**,” located on the cover of this manual. If you don't smell gas, go to the next step.
7. Move the ignition system control switch to the “ON” position. (See figure 1 on page 3.)
8. Turn on all electric power to the appliance.

9. Set thermostat to desired setting.
10. If the appliance will not operate, follow the instructions “TO TURN OFF GAS TO APPLIANCE” and call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1. Set thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Move the ignition system control switch to the “OFF” position (See figure 1 below) and turn off manual gas cock in gas supply line.

Figure 1



WARNING Should overheating occur or the gas supply fail to shut off, do not turn off or disconnect the electrical supply to the pump. Instead, shut off the gas supply at a location external to the appliance.

GENERAL INSTRUCTIONS

Before seasonal start up it is advisable to have a competent service agency check the boiler for soot and scale in the flues, clean the burners and check the gas input rate to maintain high operating efficiency. The service agency should make certain the system is filled with water to minimum pressure and open air vents - if used - to expel any air that may have accumulated in the system. The entire system should also be checked and if any leaks appear, they should be repaired immediately.

The venting system should also be inspected at the start of each heating season. The vent pipe from the boiler should be checked for signs of deterioration or sagging joints. Repair if necessary.

The following procedure should be followed to clean and check the flue gas passageways:

1. Turn off gas to the boiler at the manual gas valve.
2. Remove the jacket front panel. (See figure 2, below)
3. Disconnect the vent pipe from the vent adapter.

Figure 2

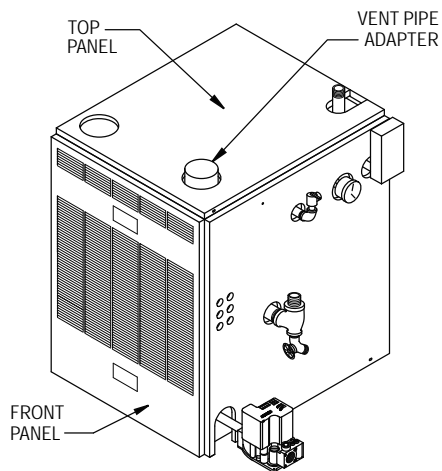
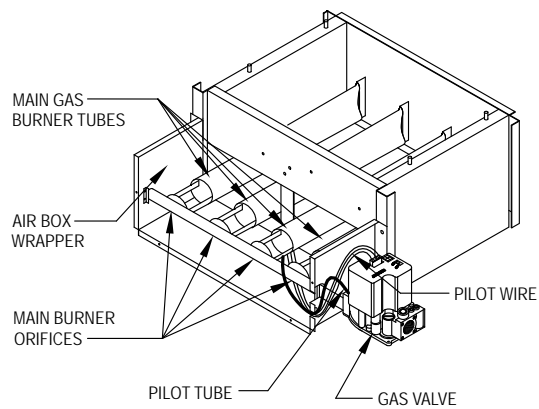


Figure 3



4. Disconnect the air inlet pipe from the coupling. (See figure 5 on page 5 for coupling location.)
5. Remove the air box covers. (See figure 5)
6. Remove the burners from the combustion chamber by raising the burners up from the manifold orifices and pulling toward the front of the boiler, (See figure 3)
7. Remove the top panel. (See figure 2)

Figure 4

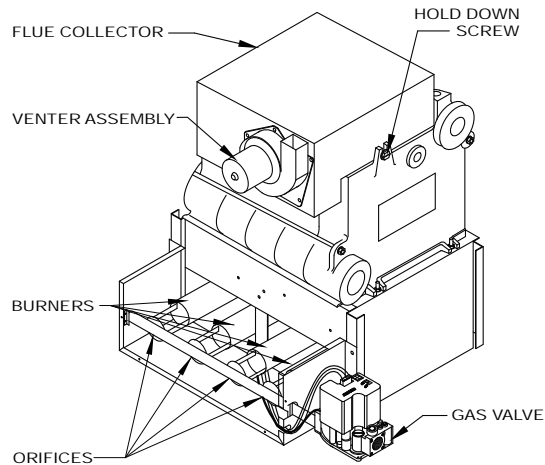
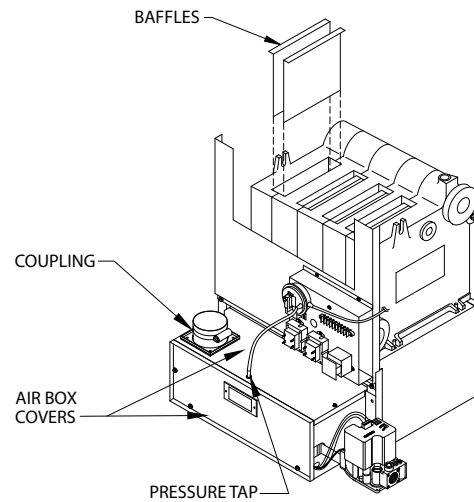


Figure 5



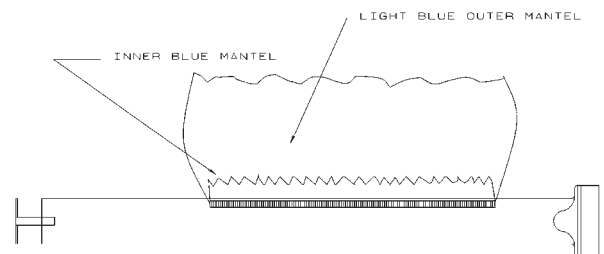
8. Remove the flue collector and venter assembly from the boiler castings by removing the hold-down screws located on each side of the flue collector. (See figure 4 above.)
9. Remove the baffles from the heat exchanger. (See figure 5 above.)
10. Visually inspect the baffles for any unusual wear or soot build up.
11. Visually inspect the venter assembly for any unusual wear or dirt build up.
12. Place a sheet of heavy paper or similar material in the bottom of the combustion chamber and brush down the flue passageways. The soot and scale will collect on the paper and is easily removed with the paper.
13. Replace the Flue Collector using the hold down screws and silicone in place with GE IS 808 silicone. (See figure 4 above.)
14. Repeat steps 1-7 in reverse order to reassemble the boiler.



A visual check of the main burner and pilot flames should be made at the start of the heating season and again in mid-season.

The main burner flame should have a well

defined inner blue mantel with a lighter blue outer mantel. (See figure 6 on page 5) If the flame does not appear this way, check the burner throats and burner orifices for lint or dust obstructions.

Figure 6



The pilot flame should envelop 3/8 to 1/2 inch of the tip of the ignition electrode. (See figure 7 below.) To adjust the pilot flame, remove the pilot adjustment cover screw on the gas valve and turn the inner screw clockwise  to decrease or counterclockwise  to increase the pilot flame. (See figure 1 on page 3.) Be sure to replace the cover screw after adjustment to prevent possible gas leakage.

The burners and pilot should be checked for signs of corrosion, rust or scale buildup, and cleaned with a nylon bristle brush.

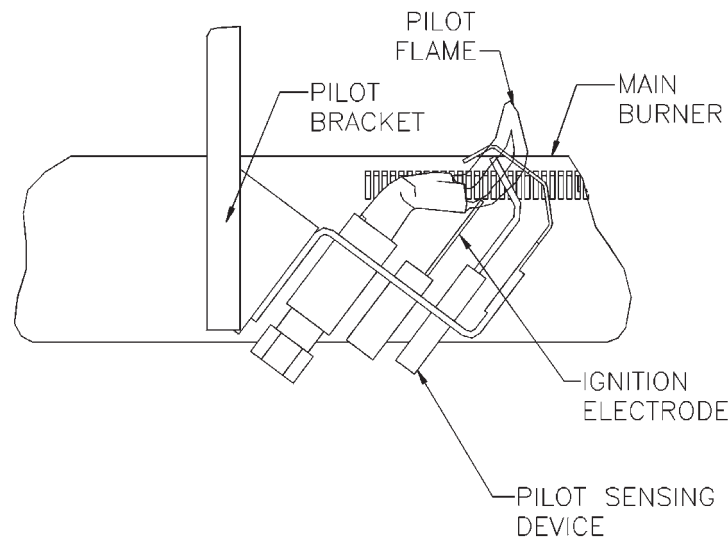
⚠ WARNING The area around the boiler must be kept clear and free of combustible materials, gasoline and other flammable vapors and liquids.

The free flow of combustion and ventilating air to the boiler and boiler room **must not** be restricted or blocked.

In the event the flow of combustion products through the flueways or the boiler venting system becomes blocked, the pressure switch or ignition system will shut off the main burner gas. If this condition occurs, do not attempt to place the boiler in operation. Contact a qualified service agency.

It is suggested that a qualified service agency be employed to make an annual inspection of the boiler and heating system. They are experienced in making the inspection outlined above and in the event repairs or corrections are necessary, they can make the proper changes for safe operation of the boiler.

Figure 7





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Date of Installation: _____

Boiler Model #: _____

Installed By: _____