USER'S INFORMATION MANUAL

SERIES 211A™ GAS BOILERS

TO THE INSTALLER: *This manual is the property of the owner and must be affixed near the boiler for future reference.*

TO THE OWNER: *This boiler should be inspected annually by a Qualified Service Agency.*

⚠ 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.

TO BE COMPLETED BY THE INSTALLER

Service Agency _____ Phone No. _____

Address _____

Boiler Model No. _____ Serial No. _____ Date of Installation: _____

PeerlessBoilers.com

PB HEAT, LLC
131 S. CHURCH ST • BALLY, PA 19503

GG8045 R8 (12/12-5C)
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INSTRUCTIONS FOR OPERATION

1. The installation is not complete until Rating and Lighting Plates are on the boiler and the “User’s Information Manual” and “Installation Instructions” are hung near the boiler.
2. System should be maintained in good repair. Radiators, baseboard units and/or convectors must be kept clean.
3. If a radiator does not heat all over, air has probably accumulated and should be vented.

⚠ NOTICE

Never leave the boiler unsupervised when it is operating manually. PB Heat can assume no responsibility for the safe operation of the boiler and other equipment when it is being operated under emergency conditions.

CHECK OUT PROCEDURE

1. After starting boiler be certain all controls are working properly before leaving it unattended. Check to be sure that the temperature limit control will shut off the boiler in the event of excessive temperature.
2. Check gas tightness of main gas valve when closed to be certain there is no leakage to the burners. Check all joints periodically for gas leakage. Use soap solution to check leakage.
3. Check the operation of the ignition system safety shut-off device using the following methods:
   a. Constant Burning Pilot: With the gas cock knob in the pilot position, extinguish pilot flame and make certain the gas valve shuts off gas flow to the pilot within two (2) minutes. To relight follow “Lighting Instructions” (Figure 1).
   b. Spark Ignition Systems: With the unit operating, turn off the gas at the inlet shut-off valve upstream from the boiler. The unit will spark and attempt to relight. If pilot lock-out is provided, the spark will stop within ninety (90) seconds. To relight follow “Operating Instructions” (Figure 2).

SHUT DOWN CAUSED BY PILOT OUTAGE

1. In the event of pilot outage effecting a shut down of the burners, turn off all electric power to boiler, turn gas cock knob to “OFF” position. Call a qualified heating service organization or the local gas company. Have the cause of shut-down investigated and corrected. Boiler can now be re-started. Refer to “Lighting or Operating Instructions.”

⚠ NOTICE

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.

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

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 is equipped with standing pilot(s) which must be lighted by hand, and may also be equipped with an ignition device which automatically lights intermittent pilot(s). Light only the standing pilot(s) by hand following these instructions exactly.

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.

WHAT TO DO IF YOU SMELL GAS

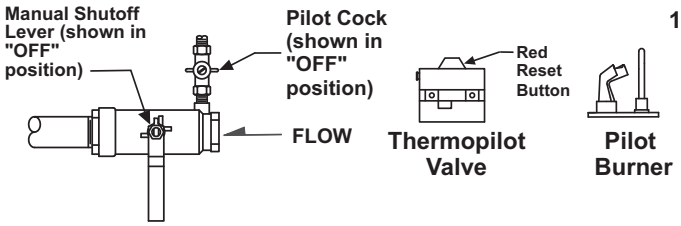
- Do not try to light any appliance
- Do not touch any electric switch; do not use any phone in your building
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

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 above on this label.
2. Set thermostat or operating control to lowest setting.
3. Turn off all electric power to the appliance.
4. If the gas control assembly is not visible, remove control access panel.
5. If the manual shutoff lever(s) and pilot cock are not in the "OFF" position, turn both clockwise to "OFF".



6. 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 above on this label. If you don't smell gas, go to the next step.
7. Remove the pilot access panel, if supplied, located below and behind the gas valve directly above burner tubes.
8. Find standing pilot(s) by following thermocouple from each thermopilot valve.
   Note - Boiler may also be equipped with intermittent pilot(s) that are not to be lighted by hand.
9. Turn the pilot cock handle counterclockwise to "ON".
10. Push in red reset button on right hand pilot all the way and hold in. Immediately light the right hand pilot with a match. Continue to hold the reset button in for about one (1) minute after the pilot is lit. Release button and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 10.
11. Repeat above lighting procedure for additional standing pilot(s).
    - If any button does not pop up when released, stop and immediately call your service technician or gas supplier.
    - If the pilots will not stay lit after several tries, turn the pilot cock handle to "OFF" and call your service technician or gas supplier.
12. Replace pilot access panel, if applicable.
13. Turn manual shutoff lever counterclockwise to "ON".
14. Replace control access panel, if applicable.
15. Turn on all electric power to the appliance. Manually reset open limits and burner primary control. For boilers equipped with a Peerless Control Panel, place all panel switches to "ON". Alarm may activate (if used). If so, switch alarm silencing switch.
16. Set thermostat or operating control to desired setting.

TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat or operating control to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. If the gas control assembly is not visible, remove the control access panel.
4. Turn the gas pilot cock and manual shutoff lever clockwise to "OFF".
5. Replace control access panel, if applicable.

V88A STDG 9345 REV 0 (MM/YY)

Figure 1: Lighting Instructions, Standing Pilot

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 is equipped with an ignition device which automatically lights the main pilots. Do not try to light the pilots 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.

WHAT TO DO IF YOU SMELL GAS

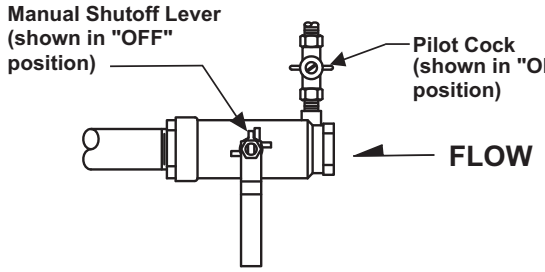
- Do not try to light any appliance
- Do not touch any electric switch; do not use any phone in your building
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

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.

OPERATING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Set the thermostat or operating control 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 pilots by hand.
5. If the gas control assembly is not visible, remove control access panel.
6. If the manual shutoff lever(s) and pilot cock are not in the "OFF" position, turn both clockwise ↷ to "OFF".



7. 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 above on this label. If you don't smell gas, go to the next step.
8. Turn the pilot cock and the manual shutoff lever counterclockwise ↶ to "ON".
9. Replace pilot access panel, if applicable.
10. Replace control access panel, if applicable.
11. Turn on all electric power to the appliance. Manually reset open limits and burner primary control. For boilers equipped with a Peerless Control Panel, place panel switches to "ON". Alarm may activate (if used). If so, switch alarm silencing switch.
12. Set thermostat or operating control to desired setting.
13. 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 the thermostat or operating control to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. If the gas control assembly is not visible, remove the control access panel.
4. Turn the pilot cock and the manual shutoff lever clockwise ↷ to "OFF".
5. Replace control access panel, if applicable.

V88A SPARK ONLY 9183R REV.1 (MM/YY)

Figure 2: Operating Instructions, Spark Ignited Pilot

ANNUAL INSPECTION PROCEDURE

A. Flue product carrying areas of the boiler and the vent system should be thoroughly inspected each year by an experienced, qualified service agency using the following procedure.

1. The unit must be “shut down” and allowed to cool.
2. Disconnect flue piping (vent system).
3. Remove draft hood, top jacket panel, and flue collector by unfastening the attaching screws. NOTE: Depending on model, a vertical or a horizontal to vertical draft hood and collector is furnished.
4. Use a flashlight to examine all flue passages for any obstructions. Examine draft hood, flue collector and vent system for deterioration from corrosion or other sources.
5. Reassemble unit and check for leaks at all joints.

B. A visual check of the pilot flame and main burner flame should be conducted at least once a year. To observe the flame remove the burner access door (when supplied) and view across the top of the main burners. NOTE: Access door will be HOT — care must be exercised. Replace door when visual check is complete.

1. The pilot flame should be medium blue covering approximately 3/8" to 1/2" (10 mm to 13 mm) of the sensing probe.
2. The main burner flame should have a clearly defined intercone approximately 1-1/2" (38 mm) high and should have a very sharp blue color characteristic.
3. If either flame is lazy or has a yellow color a qualified service agency should be called.

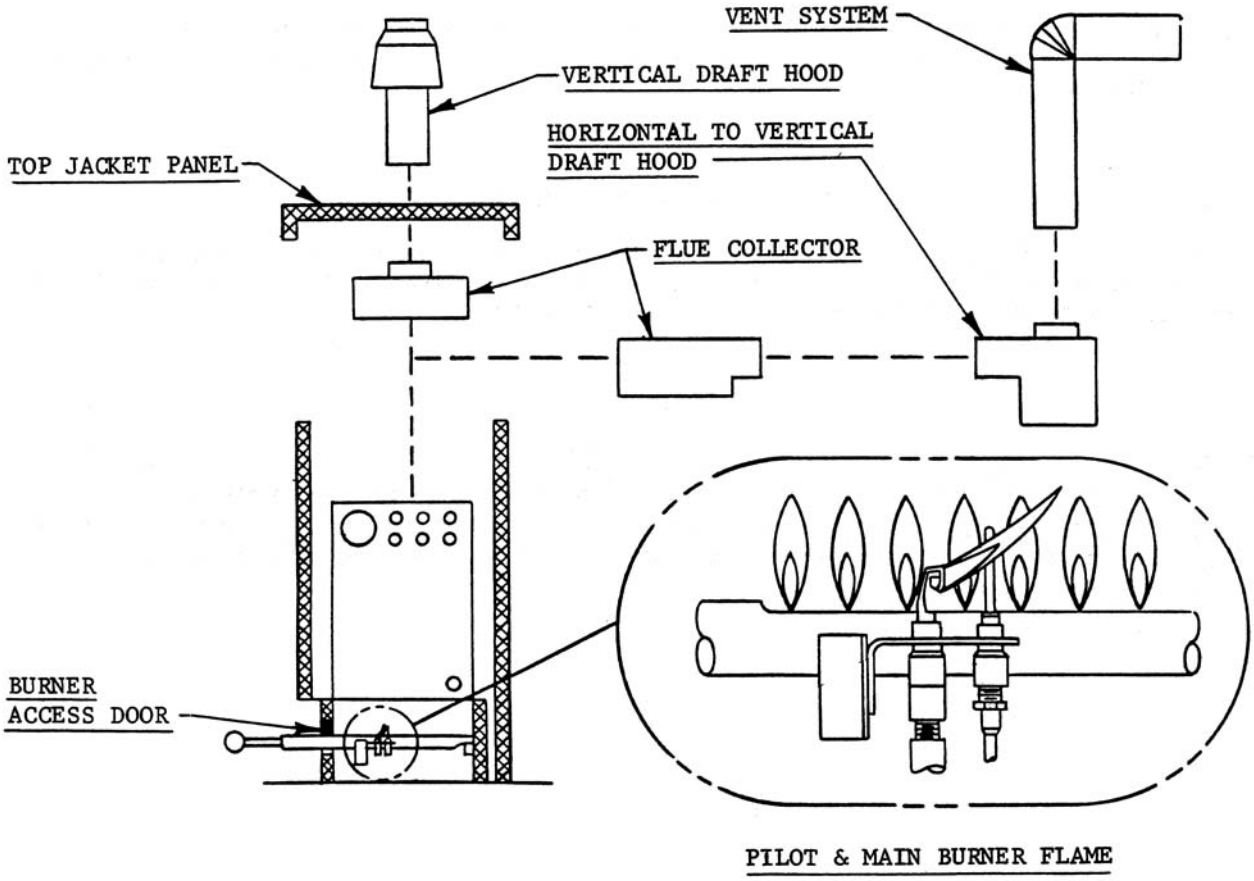


Figure 3: Boiler Components

⚠ WARNING

Product Safety Information
Refractory Ceramic Fiber Product

This appliance contains materials made from refractory ceramic fibers (RCF). Airborne RCF, when inhaled, have been classified by the International Agency for Research on Cancer (IARC), as a possible carcinogen to humans. After the RCF materials have been exposed to temperatures above 1800°F (982°C), they can change into crystalline silica, which has been classified by the IARC as carcinogenic to humans. If particles become airborne during service or repair, inhalation of these particles may be hazardous to your health.

Avoid Breathing Fiber Particulates and Dust

Suppliers of RCF recommend the following precautions be taken when handling these materials:

Precautionary Measures:
Provide adequate ventilation.
Wear a NIOSH/MSHA approved respirator.
Wear long sleeved, loose fitting clothing and gloves to prevent skin contact.
Wear eye goggles.
Minimize airborne dust prior to handling and removal by water misting the material and avoiding unnecessary disturbance of materials.
Wash work clothes separately from others. Rinse washer thoroughly after use.
Discard RCF materials by sealing in an airtight plastic bag.

First Aid Procedures:
Inhalation: If breathing difficulty or irritation occurs, move to a location with fresh clean air. Seek immediate medical attention if symptoms persist.
Skin Contact: Wash affected area gently with a mild soap and warm water. Seek immediate medical attention if irritation persists.
Eye Contact: Flush eyes with water for 15 minutes while holding eyelids apart. Do not rub eyes. Seek immediate medical attention if irritation persists.
Ingestion: Drink 1 to 2 glasses of water. Do not induce vomiting. Seek immediate medical attention.