

Instruction for High Altitude

Conversion Kit for 124X Series Boilers

This kit and instruction are for converting the G124X Series Boilers for use at elevations above 8500ft.

REQUIRED INPUT RATES

G124X-18	G124X-25	G124X-32
66,660	92,700	119,250
BTU/H	BTU/H	BTU/H



THE CONVERSION SHALL BE PERFORMED BY A MANUFACTURER'S AUTHORIZED REPRESENTATIVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURES, PROVINCIAL OR TERRITORIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE Can/CGA-B149.1 or Can/CGA-B149.2 INSTALLATION CODES.



Notice: This manual must be retained for future reference!

Parts list for converting the boilers for high altitude installations

This kit contains the following parts:

- Main Gas Burner orifice and gaskets
- Conversion data plate to be filled out and affixed to the appliance
- Conversion instructions

TO CONVERT THE BOILER FOR USE AT HIGH ALTITUDE, THE FOLLOWING INSTRUCTIONS SHALL BE ADHERED TO.

The boiler shall be converted prior to installation

1. Remove Control Access Panel from the boiler, fig 1.
2. Remove main gas orifices and washers from the burner assembly, fig 2.
3. Install new orifices and washers supplied with kit. Ensure orifices are the proper size for your boiler application per the following tables:
4. Fill out the required information on the conversion plate and affix the plate to the outside of the boiler jacket as close as possible to the existing rating plate.
5. If the boiler has not been placed into operation, follow the installation instruction in “the installation, Operation and Maintenance Manual” supplied with the boiler.

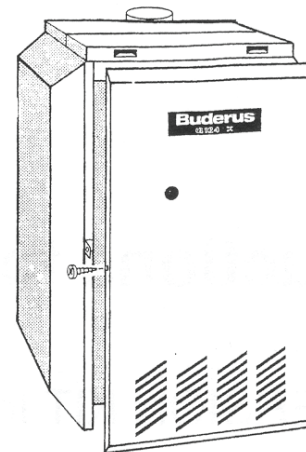


Fig. 1

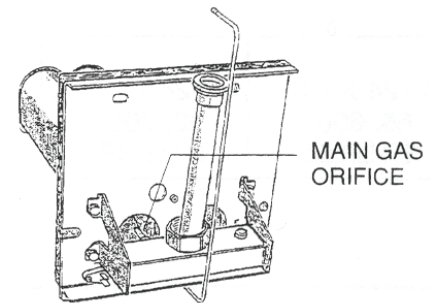


Fig.2

Orifice Sizes — Propane				
Elevation in feet				
Model	0-8500		8501-12000	
	Orifice Size	Kit Number	Orifice Size	Kit Number
G124X-18	1.80mm	G124x18P85I	1.75mm	G124X18P12000I
G124X-25	1.75mm	G124x25P85I	1.70mm	G124X25P12000I
G124X-32	1.70mm	G124x32P85I	1.65mm	G124X32P12000I

Orifice Sizes — Natural Gas				
Elevation in feet				
Model	0-8500		8501-12000	
	Orifice Size	Kit Number	Orifice Size	Kit Number
G124X-18	2.85mm	Standard Version	2.80mm	G124X18N12000
G124X-25	2.75mm		2.70mm	G124X25N12000
G124X-32	2.70mm		2.65mm	G124X32N12000

Manifold Pressure			
In inch wc			
Model	G124X-18	G124X-25	G124X-32
Natural	3.6	3.5	3.6
Propane	9.8	10.3	10.0

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Buderus reserves the right to make changes without notice due to continuing engineering and technological advances

Conversion instructions for high altitudes

Room-air dependent special gas-fired boiler Logano G124X II/SP

This conversion kit and the instructions are for conversion of the special gas-fired boilers of models G124X II/SP for operation at altitudes above 8500 feet.

Performance requirements for altitudes of 0-8500 ft

G124X-18 74 MBtu/hr	G124X-25 103 MBtu/hr	G124X-32 132.5 MBtu/hr
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WARNING!

This conversion kit must only be installed by qualified heating contractor as specified by the manufacturer's instructions and the applicable rules and regulations of the local authorities. If these instructions are not followed exactly, a fire, explosion or release of carbon monoxide may occur with serious property damage or loss of life and serious injury. The heating contractor is liable for correct conversion of the heating system with this conversion kit.

WARNING!

Please use the enclosed instructions for conversion from natural gas to propane.



Note: Please keep these instructions for future reference.

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1 Safety

Observe these instructions for your safety.

1.1 Correct use

The conversion kit is used to convert the G124X II/SP special boilers for operation at altitudes above 8500 feet.

1.2 Notes structure

Additional symbols for identification of dangers and user instructions.



WARNING!

RISK TO LIFE

Identifies possible dangers emanating from a product, which might lead to serious injury or death if appropriate care is not taken.



WARNING!

RISK TO LIFE

from electric shock.



USER NOTE

Tip for the optimum utilization and setting of the control(s) plus other useful information.

1.3 Please observe these notes



WARNING!

RISK TO LIFE

from explosion of flammable gases.

- Never work on gas lines unless you are licensed for this type of work..



WARNING!

RISK TO LIFE

from electric shock.

- Disconnect the power supply to the heating system before conducting any work on it, e.g. switch off the heating emergency switch outside the boiler room.
- It is not sufficient just to switch off the control.

2 Scope of delivery

The conversion kit for high altitudes includes the following components:

- main gas orifices and gaskets
- conversion date label (to be filled out and attached to the unit)
- conversion instructions
- Technical documents

3 Conversion of the boiler at altitudes over 8500 feet

Read the instructions before conversion for your safety.



WARNING!

RISK TO LIFE

due to not observing the attached conversion instructions.

- If you wish to convert the boiler for operation with propane, the conversion from natural gas to propane must be carried out as specified by the attached conversion instructions. The conversion for high altitudes can only be made after this.

When converting the boiler for operation at high altitudes use the following directions:

The boiler must be converted before installation.

1. If the boiler was in operation, close the gas shut-off. Otherwise continue with step 3.
2. Disconnect heating system from the power supply and set the thermostat to the lowest setting.
3. Remove safety screws from the left and right side panels, then lift the front panel of the boiler and pull it forward.

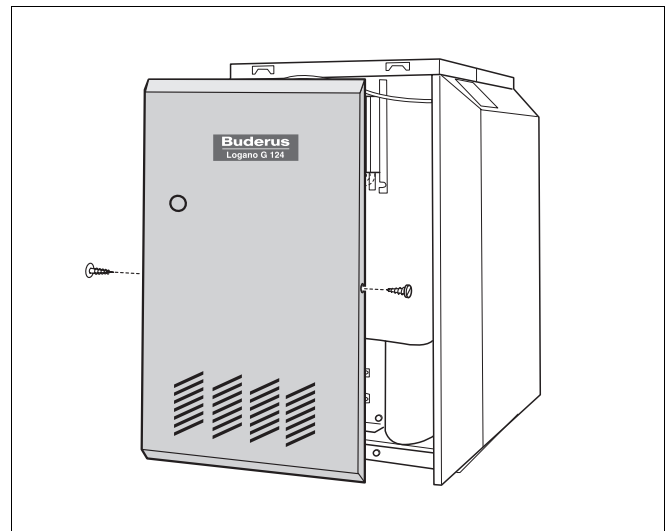


Fig. 1 Remove front panel of boiler

- Turn gas valve ON/OFF button clockwise to OFF position. Do not use force.



RISK TO LIFE

from explosion of flammable gases.

WARNING!

- Wait five (5) minutes until all gas residues have dissipated. Check whether there is any smell of gas, including at floor level. If there is a gas odor: STOP! Follow instructions in section "B" of the safety instructions on page 8. If there is no sign of a gas odor, continue with the next step.

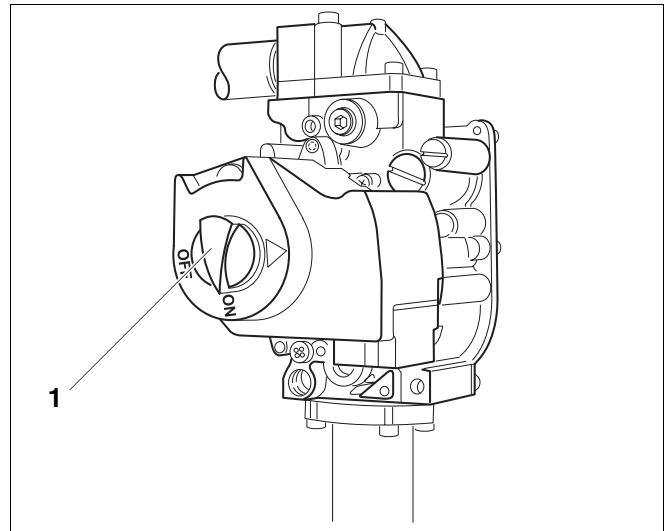


Fig. 2 Gas valve

1 ON/OFF button (at ON position)

Replacing main gas orifices



USER NOTE

When converting the boiler for high altitudes it is only necessary to replace the main gas orifices, not the pilot burner orifice.

- Disconnect ignition gas line from gas valve.
- G124X II only:** Disconnect ignition cable from automatic ignition.
- G124X SP only:** Disconnect thermal element from gas valve.
- Tie gas line with wire or cord (secure).
- Remove screws between gas valve and burner. Place the gas connection pipe gasket in a safe place.



RISK TO LIFE

due to incorrectly connected wiring.

CAUTION!

- When conducting maintenance work label all cables before disconnecting them.

- Label wires of flame roll out switch and disconnect from the switch.

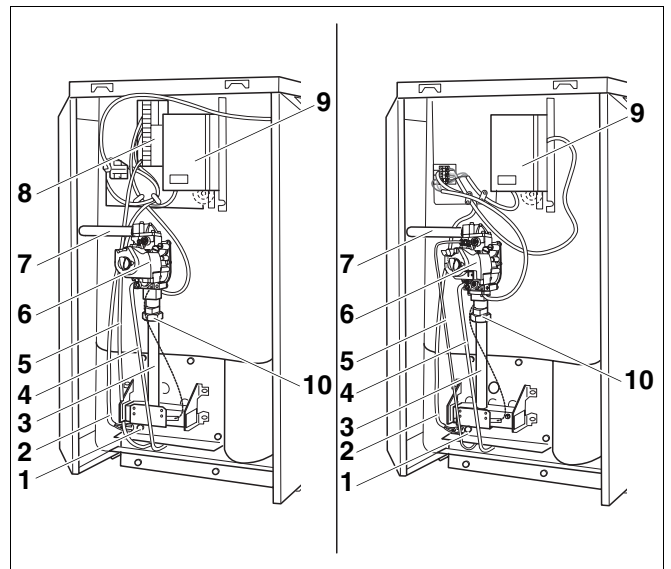


Fig. 3 Front view (G124X II left, G124X SP right)

- Flame roll out switch
- Connection lines for switch
- Gas connection pipe
- Pilot gas line
- Ignition cable (G124X II only) or thermocouple (G124X SP only)
- Gas valve
- Gas supply line
- Automatic ignition (automatic switch unit) G124 X II only
- Aquastat
- Screws between gas valve and burner

3 Conversion of the boiler at altitudes over 8500 feet

11. Unscrew nuts and remove burner
12. Install the new main gas orifices and copper gaskets. Check Tab. 1 and Tab. 2 to ensure that the correct orifices for operation of the boiler are installed.

Orifice sizes for natural gas Altitude in feet		
Model	0–8500	8501–12000
G124X-18	285	280
G124X-25	275	270
G124X-32	270	265

Tab. 1 Orifice size for natural gas

Orifice sizes for propane Altitude in feet		
Model	0–8500	8501–12000
G124X-18	180	175
G124X-25	175	170
G124X-32	170	165

Tab. 2 Orifice size for propane

13. Install gas burners in boiler in reverse order of removal. Tighten the fixing nuts well.
14. Tighten the screws (→ Fig. 3, page 5) between the gas valve and the burner again. Make sure that the connection pipe gasket removed in step 9 is replaced.
15. Attach wires for the flame roll-out switch.
16. Remove wire or rope that was used to hold the gas feed line in step 8.
17. Connect ignition pilot line to gas valve again.
18. **G124X II only:** Connect ignition wire (→ Fig. 3, page 5) to the automatic gas igniter.
19. **G124X SP only:** Attach thermocouple (→ Fig. 3, page 5) to the gas valve.
20. Enter the required information on the conversion label and attach on the outside of the boiler jacket as close as possible to the nameplate.

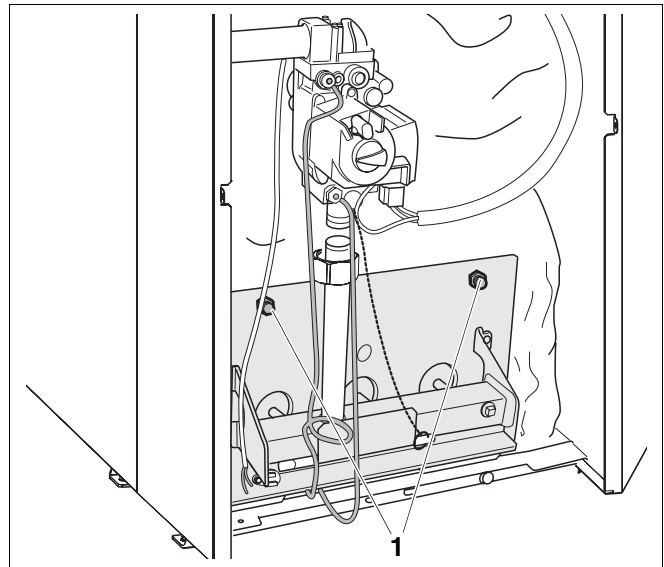


Fig. 4 Removing burner as shown on the G124X SP

1 Attachment screws (4)

Carrying out leak test

21. Open gas valve in the gas line.
22. Check the gas connection line to the gas valve for leaks with soap solution. If no leaks are found, continue with step 24. If any leaks are found, close gas valve.
23. Seal leaks and repeat step 22.
24. Close main gas shut-off. Remove the screw plug for the gas connection port on the gas valve. Install pressure measuring nipple and attach a pressure gauge to measure the gas supply pressure.
25. Remove the screw plug for the manifold pressure port on the gas fitting. Install pressure measuring nipple and attach a pressure gauge to measure the manifold pressure.
26. Open gas shut-off and measure the gas supply pressure of the boiler. The supply pressure must be between 4.7" and 10.5" W.C. for natural gas and between 11" and 13" W.C. for propane gas. If the supply pressure for natural gas is not between 4.7" and 10.5" W.C and not between 11" and 13" W.C. for propane gas, contact the service technician or the gas supply company.
27. Always follow the start-up instructions on the next page.

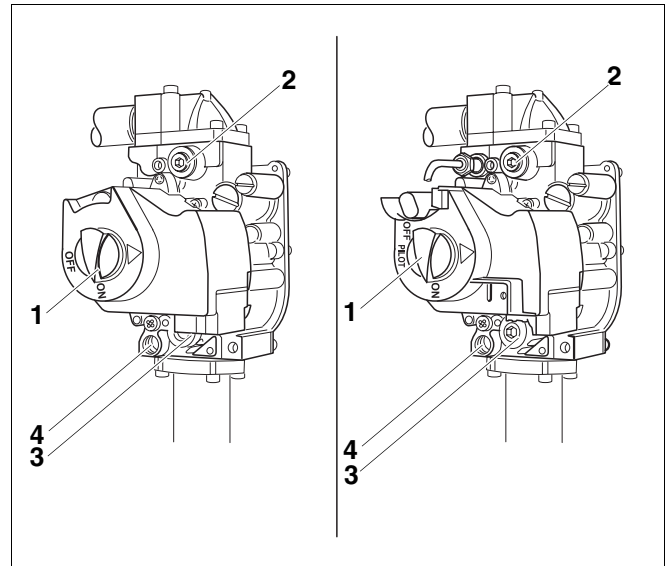


Fig. 5 Gas valve (G124X II left, G124X SP right)

- 1 ON/OFF button (at ON position)
- 2 Screw plug for gas pressure measuring port
- 3 Screw plug for manifold measuring port
- 4 Pilot gas line connection

4 Start-up instructions

Read the instructions before start-up for your safety.



WARNING!

RISK TO LIFE

due to not observing the start-up instructions and resulting incorrect operation.

- If these instructions are not followed exactly, a fire or explosion may be caused with serious property damage or loss of life or serious injury.
- Observe the start-up instructions.



WARNING!

DANGER OF EXPLOSION

If you smell gas there is a danger of explosion.

- No open flame. No smoking.
- Prevent spark formation.
Do not operate electrical switches, including telephones, plugs or door bells.
- Shut-off main gas supply valve.
- Open doors and windows.
- Warn other occupants of the building.
- Evacuate the building.
- Call gas company or fire department from outside the building.

a) G124X II only:

This unit is fitted with an igniter that automatically starts the burner. Do not attempt to ignite it manually.

G124X SP only:

This unit is fitted with a burner that must be ignited manually. Follow the instructions below to ignite the burner.

- b) Check for an odor of gas around the heating system. This test must also be conducted at floor level, because some types of gas are heavier than air and may accumulate at floor level.
- c) Switch on the ON/OFF switch on the gas valve by hand only. Never use a tool as assistance. If you cannot actuate the ON/OFF switch on the gas valve by hand, do not attempt to repair it. Contact a qualified technician. Any attempt to use force or to repair the valve may cause a fire or explosion.
- d) Do not operate the unit if any part is under water. Contact a qualified customer service technician immediately to have the unit checked and to replace the parts of the control and gas valve that were under water.

4.1 Placing G124X II and G124X SP boilers ready for operation

STOP! First read the safety instructions on → page 8 of this manual.

1. Carry out leak test (→ page 7). Wait five (5) minutes until all gas residues have dissipated. Finally check whether there is any smell of gas, including at floor level. If there is a gas odor: STOP! Follow instructions in section "B" of the safety instructions on → page 8 of this manual. If there is no sign of a gas odor, continue with the next step.
2. Open main gas valve.

4.1.1 Placing heating system with aquastat control in operation

The boiler is fully functional with the factory-installed aquastat.

3. Turn on ON/OFF switch (contractor installed) (ON position). This turns on the boiler with all its components. Then continue with step 7 (G124X II) or step 35, page 14 (G124X SP).
4. Make sure that the room thermostat signals a heat requirement (set thermostat at least 10 °F above room temperature).

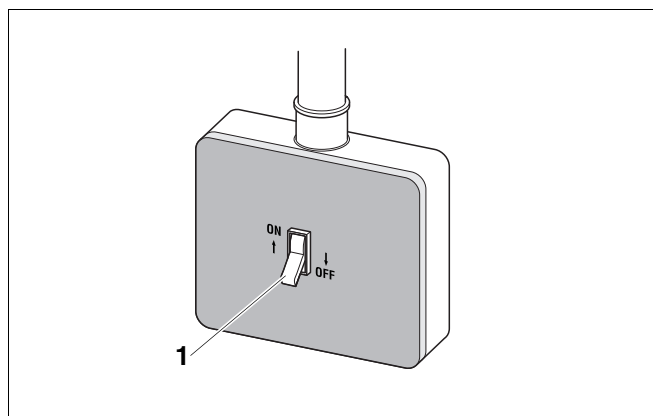


Fig. 6 Switching on heating system (with aquastat)

1 ON/OFF switch (main switch)

4.1.2 Placing heating system with Logamatic 2107 (accessory) in operation

The boiler is fully functional with the factory-installed aquastat. The Logamatic 2107 control can also be installed in addition to the factory-installed aquastat.

Turn on the heating system with the ON/OFF switch on the control. The burner starts operating if heat is required (→ observe control service manual).

5. Make sure that heat is required at the control. Select "Manual operation" (hand symbol) with the mode selector switch.
6. Turn on ON/OFF switch ("I" position). Then continue with step 7 (G124X II) or step 35, page 14 (G124X SP).



USER NOTE

After carrying out the instructions for starting described below, the control must be set to "AUT" mode (automatic operation) with the mode selector.

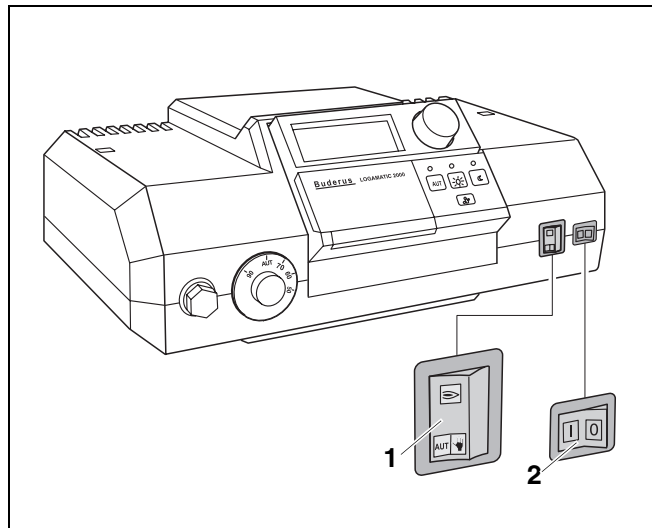


Fig. 7 Turning on heating system (with Logamatic 2107 control)

- 1 Mode selection switch
- 2 ON/OFF switch

4.2 Conducting final commissioning for G124X II boiler

The final commissioning for the G124X SP boiler is described in (→ Chapter 4.3, page 14).

The following start-up procedures must be carried out regardless of the control type.

7. Look at the igniter through the sight glass in the burner housing.

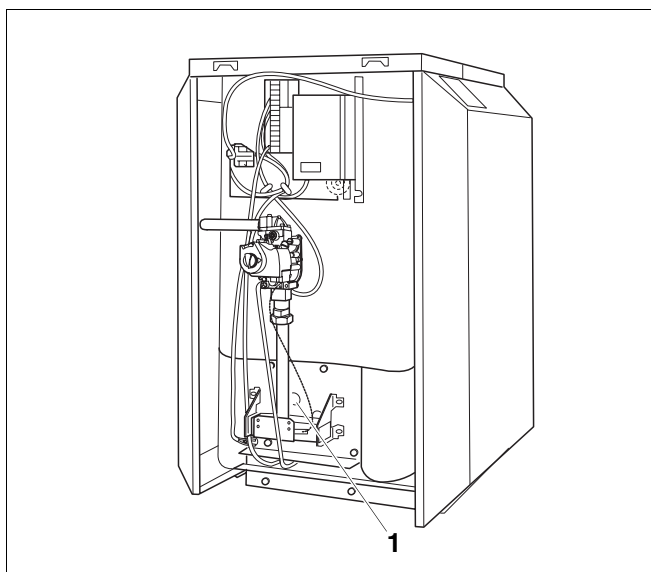


Fig. 8 G124X II boiler

- 1 Sight glass

8. Turn gas valve ON/OFF switch counterclockwise to ON position.
9. The automatic igniter must generate sparks towards the pilot burner. The pilot flame must appear and then ignite the main burner. If the main burner does not ignite, close the gas valve. Disconnect heating system from the power supply and inform your customer service technician or LP gas company.
10. If the main burner has ignited, the gas valve must be checked for leaks with soap solution. If no leaks are found, continue with step 12. If leaks have been found, switch ON/OFF switch on gas valve clockwise to the OFF position. Disconnect heating system from the power supply and set the thermostat to the lowest setting.
11. Seal leaks. Repeat steps 1 and 2 (regardless of the control in use).

Caution:

With aquastat control continue with steps 3 and 4, with the Logamatic 2107 continue with steps 5 and 6.
Then repeat steps 7 to 10 regardless of the control in use.

12. Check the supply gas pressure while the boiler is operating. The supply pressure must be between 4.7" and 10.5" W.C. for natural gas and between 11" and 13" W.C. for propane gas. Record the measured values in the commissioning protocol in the installation and maintenance instructions.

G124X II	Natural gas [inch W.C.]	Propane [inch W.C.]
18	3.6	9.8
25	3.5	10.3
32	3.6	10.0

Tab. 3 Manifold pressure

13. Check manifold pressure. The manifold pressure must be set in accordance with the values in → Tab. 3. To set the manifold pressure the cover (→ Fig. 9) on the gas valve must be removed. Turn the adjustment screw clockwise to increase the pressure and counterclockwise to reduce the pressure. This setting must be adjusted while the boiler is operating.
14. Record the set value in the commissioning protocol of the installation and maintenance instructions and screw the safety screw (→ Fig. 9, page 11) into the gas valve again.

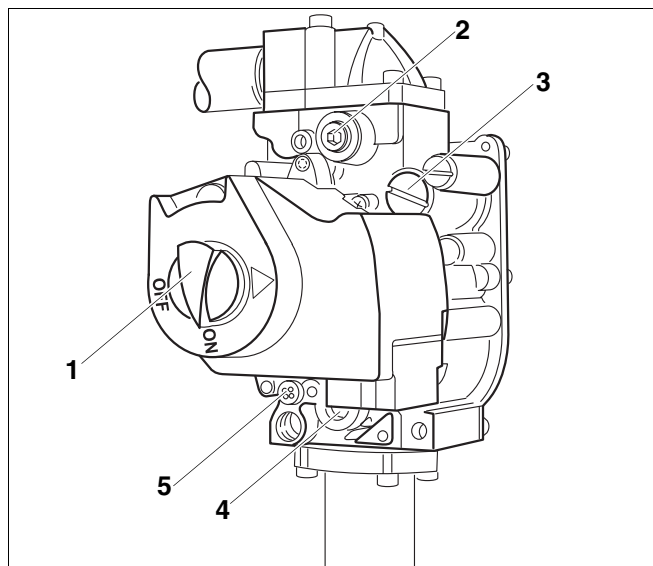


Fig. 9 G124X II gas valve

- 1 ON/OFF button (at ON position)
- 2 Screw plug for gas supply pressure measuring port
- 3 Safety screw for manifold pressure setting
- 4 Screw plug for manifold measuring port
- 5 Safety screw for pilot ignition pressure setting

15. Observe ignition flame through the sight glass (→ Fig. 8, page 10) in the burner housing.
16. The flame must envelope the flame guard 1/2 to 1 1/2 inches. If this is the case continue with step 20.
17. If the ignition flame is too small or too large, the pressure for the ignition gas nozzle must be adjusted with the corresponding adjustment screw.



USER NOTE

The adjustment screw is behind the ignition gas pressure adjustment safety screw (→ Fig. 9, page 11).

18. Remove safety screw for igniter nozzle pressure setting (→ Fig. 9, page 11). Turn the inner adjustment screw clockwise to reduce the ignition flame and counterclockwise to enlarge the ignition flame.
19. After adjustment tighten the ignition gas pressure adjustment safety screw (→ Fig. 9, page 11) again.
20. Observe main burner flame through the sight glass (→ Fig. 8, page 10) in the burner housing. The flame must have a steady and fixed contour and generally has a bluish color. If the main burner flame meets the requirements, proceed with step 21. If the main burner flame is too weak or is yellow or goes out, turn the ON/OFF switch (→ Fig. 9, page 11) on the gas fitting clockwise to OFF. Close the gas valve and disconnect the heating system from the power supply and contact the customer service technician or the gas company.

Checking ignition safety switch

21. Test the safety switch by closing the gas valve. The main burner flame (→ Fig. 11) and the ignition flame (→ Fig. 10) are extinguished. After six (6) seconds at the most the main gas solenoid valve on the gas valve must close with an audible noise.
22. After 90 seconds the automatic igniter must switch to lock status and stop generating sparks.
23. Disconnect the heating system from the power supply. Open main gas valve. Switch on unit power supply. A normal operating cycle must follow.
24. If the gas valve operates correctly, proceed to step 25. If the gas valve does not operate correctly, switch ON/OFF switch (→ Fig. 12) on the gas valve clockwise to the OFF position immediately. Close main gas valve. Disconnect heating system from the power supply and inform the customer service technician or LP gas company.

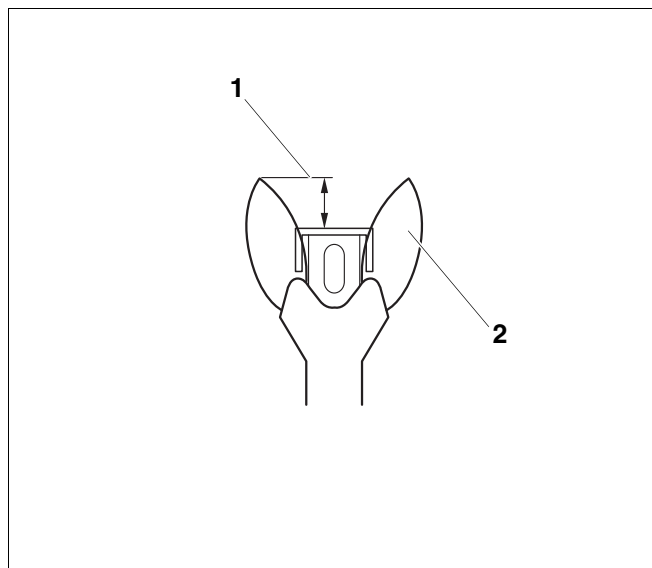


Fig. 10 Correct pilot flame setting

1 1/2 to 1 1/2 inches

2 Pilot flame

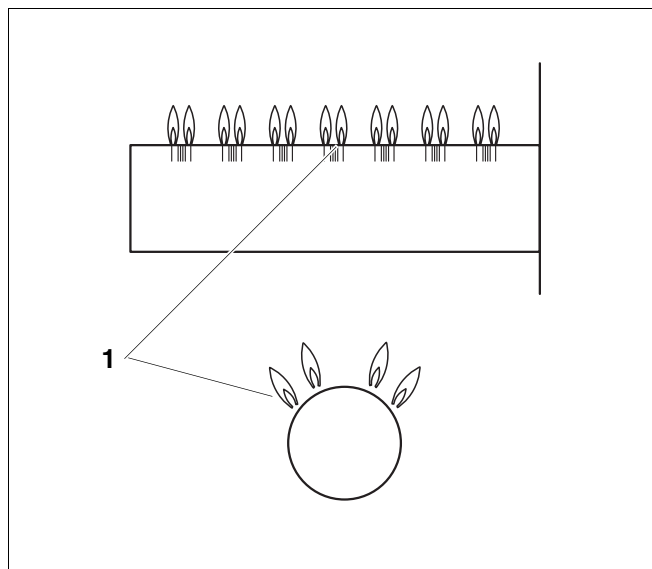


Fig. 11 Main burner

1 Main burner flame

25. Turn gas valve ON/OFF button clockwise to OFF position.
26. Close main gas shut-off.
27. Disconnect heating system from the power supply and set the thermostat to the lowest setting.
28. Remove pressure measuring nipple and pressure gauge for measuring gas supply pressure and manifold pressure from the gas valve and close the openings with the screw plugs.
29. Repeat steps 1 to 10 (depending on the control) and 20 to restart the heating system. Check the screw plugs for leaks with soap solution. If no leaks are found, continue with step 31. If leaks are found, close gas shut-off and switch ON/OFF button on gas valve clockwise to the OFF position. Disconnect the heating system from the power supply.
30. Seal leaks. Open gas shut-off and repeat step 24.
31. Carefully wipe away the soap solution to prevent corrosion caused by the alkali content of the soap.
32. Check the function of the maximum aquastat to make sure that it switches off the boiler as soon as the boiler water temperature set at the aquastat or the Logamatic 2107 control is reached. Record the result in the commissioning protocol of the installation and maintenance instructions.
33. Replace front panel of boiler.

With the Logamatic 2107 control only

34. Select AUT (automatic mode) with the mode selection switch.

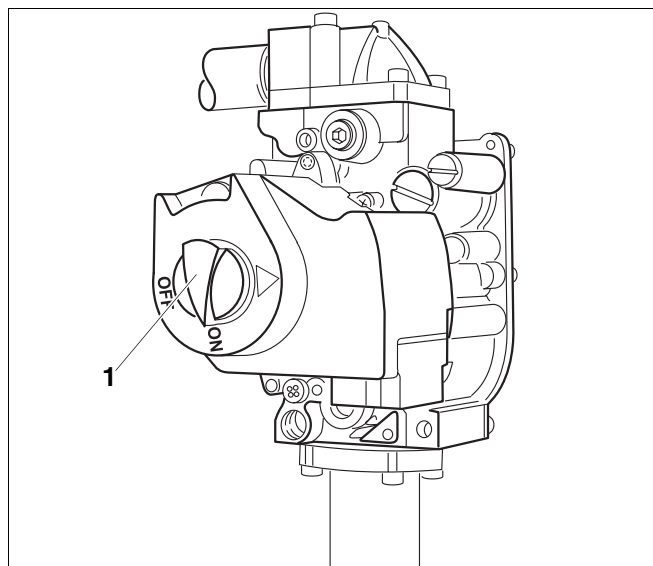


Fig. 12 G124X II gas valve

1 ON/OFF button (at ON position)

4.3 Conducting final commissioning for G124X SP boiler

The final commissioning for the G124X II boiler is described in (➔ Chapter 4.2, page 10).

The following start-up procedures must be carried out regardless of the control type.

35. Look at the igniter through the sight glass in the burner housing.

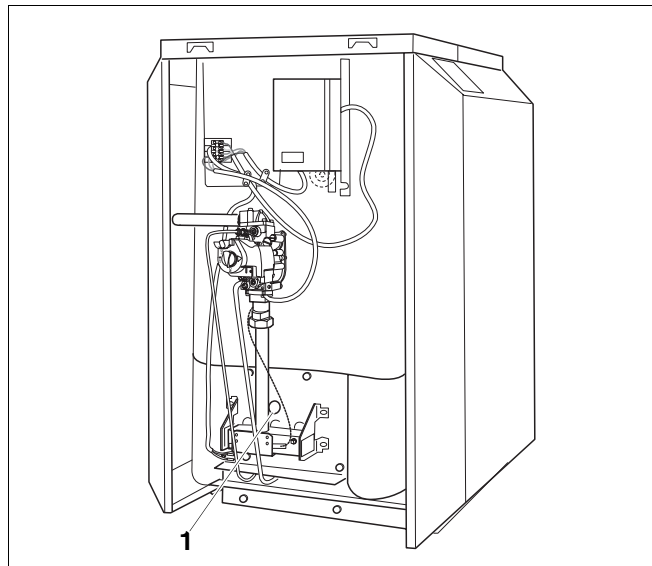


Fig. 13 G124X SP boiler

1 Sight glass

36. Turn gas valve ON/OFF switch counterclockwise to PILOT position.

37. Press reset button in completely and hold.

38. Ignite the pilot burner with the supplied match holder and a burning match through the sight glass in the burner housing.

39. When the pilot burner is burning, continue to hold the red reset button for about a minute.

40. Release red reset button. The red reset button must pop up and the pilot burner must continue burning. If the pilot burner goes out, switch ON/OFF switch on gas valve clockwise to OFF and repeat steps 1 and 2 (regardless of the control).

Caution:

With aquastat control continue with steps 3 and 4, with the Logamatic 2107 continue with steps 5 and 6.

Then repeat steps 35 to 39 regardless of the control in use.

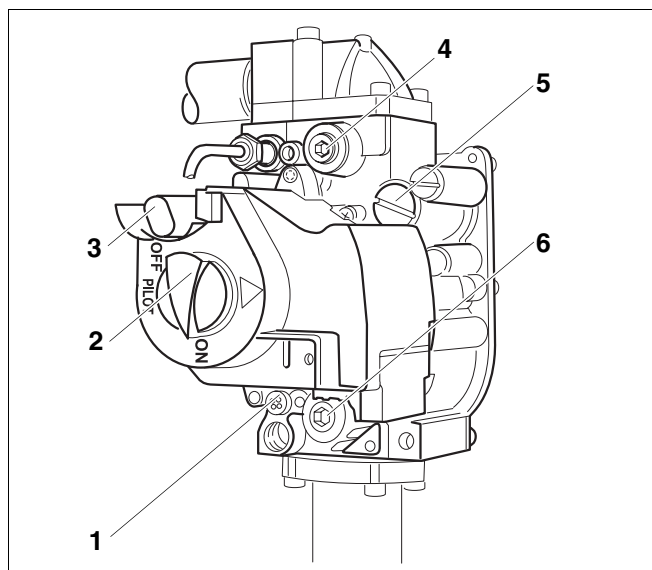


Fig. 14 G124X SP gas valve

- 1 Safety screw for pilot burner pressure setting
- 2 ON/OFF button (at ON position)
- 3 Reset button
- 4 Screw plug for gas supply pressure measuring port
- 5 Safety screw for manifold pressure setting
- 6 Screw plug for manifold measuring port

**WARNING!****RISK TO LIFE**

due to poisoning by leaking gas.

If the red reset button does not pop up when you release it, **STOP**.

- Close gas shut-off immediately to prevent gas from leaking.
- Contact your service technician or LP gas supplier immediately and have the fault repaired.
- If the pilot burner continues to go out after several attempts, turn the ON/OFF button on the gas valve to OFF immediately to prevent gas from leaking.

41. Check pilot gas line for leaks with soap solution. If no leaks are found, continue with step 43. If leaks have been found, switch ON/OFF switch on gas valve (→ Fig. 14, page 14) clockwise to the OFF position.

42. Seal leaks. Repeat steps 1 and 2 (regardless of the control in use).

Caution:

With aquastat control continue with steps 3 and 4, with the Logamatic 2107 continue with steps 5 and 6.

Then repeat steps 35 to 41 regardless of the control in use.

43. Observe pilot flame through the sight glass (→ Fig. 15) in the burner housing.

44. The pilot flame must surround the thermal element 3/8 to 1/2 inch. If this is the case continue with step 48.

45. If the pilot flame is too small or too large, the pressure for the pilot burner must be adjusted with the corresponding adjustment screw.

**USER NOTE**

The adjustment screw is behind the pilot burner pressure adjustment safety screw (→ Fig. 14, page 14).

46. Remove safety screw for pilot burner pressure setting (→ Fig. 16, page 16). Turn the inner adjustment screw clockwise to reduce the pilot flame and counterclockwise to enlarge the pilot flame.

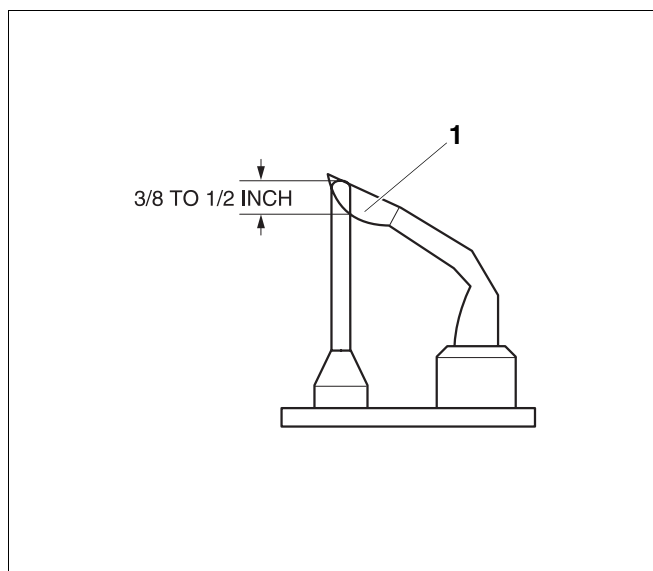


Fig. 15 Correct pilot flame setting

1 Pilot flame

4 Start-up instructions

47. After adjustment tighten the pilot burner pressure adjustment safety screw (→ Fig. 16) again.
48. Turn gas valve ON/OFF switch (→ Fig. 16) counterclockwise to ON position. The gas valve ON/OFF switch can only be set to ON if the red reset button is out.
49. Place the heating system electrically in operation
50. Make sure that the thermal element responds to heat.
51. The pilot flame must ignite the main burner. If the main burner does not ignite, close the gas valve. Disconnect heating system from the power supply and inform your customer service technician or LP gas company.
52. If the main burner has ignited, the gas valve must be checked for leaks with soap solution. If no leaks are found, continue with step 54. If leaks have been found, switch ON/OFF switch on gas valve (→ Fig. 16) clockwise to the OFF position. Disconnect the heating system from the power supply.
53. Seal leaks. Repeat steps 35 to 52.
54. Check manifold pressure. The manifold pressure must be set in accordance with the values in → Tab. 4. To set the manifold pressure the safety screw for setting the manifold pressure on the gas valve must be removed. Turn the adjustment screw clockwise to increase the pressure and counterclockwise to reduce the pressure. This setting must be adjusted while the boiler is operating.

G124X SP	Natural gas [inch W.C.]	Propane [inch W.C.]
18	3.6	9.8
25	3.5	10.3
32	3.6	10.0

Tab. 4 Manifold pressure

55. Record the set value in the commissioning protocol of the installation and maintenance instructions and screw the safety screw into the gas valve again.

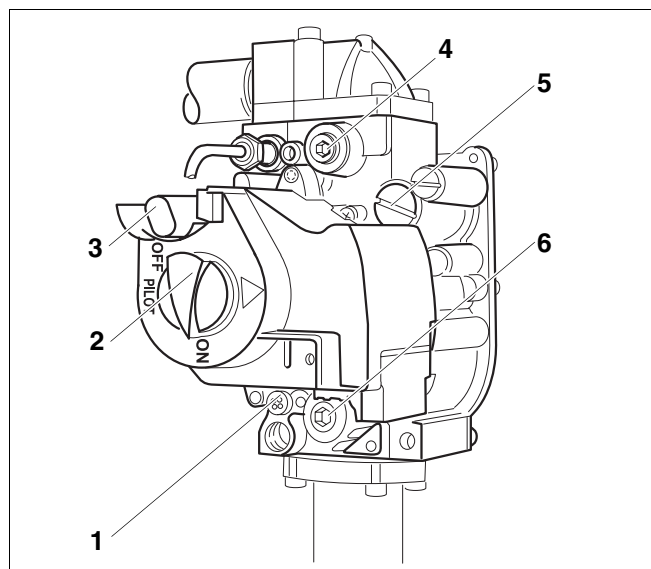


Fig. 16 G124X SP gas valve

- 1 Safety screw for pilot burner pressure setting
- 2 ON/OFF button (at ON position)
- 3 Reset button
- 4 Screw plug for gas supply pressure measuring port
- 5 Safety screw for manifold pressure setting
- 6 Screw plug for manifold measuring port

Check flame sensor

56. Turn gas valve ON/OFF button (→ Fig. 16) clockwise to OFF position. The main burner flame and the pilot flame are extinguished.
57. Turn gas valve ON/OFF switch (→ Fig. 17) counterclockwise to PILOT position.
58. Wait three (3) minutes and turn gas valve ON/OFF switch (→ Fig. 17) counterclockwise to ON position. Gas must not flow into the main burner.
59. Use a pressure gauge to check that the manifold pressure (output pressure) is 0.
60. If gas flows turn gas valve ON/OFF switch (→ Fig. 17) to OFF position immediately and close the gas shut-off.
61. Disconnect heating system from the power supply and inform your customer service technician or LP gas company. If no gas flows continue with step 62.
62. Turn gas valve ON/OFF button clockwise to OFF position.
63. Close main gas shut-off.
64. Disconnect the heating system from the power supply.
65. Remove pressure measuring nipple and pressure gauge for measuring gas supply pressure and manifold pressure from the gas valve and close the openings with the screw plugs.
66. Repeat steps 1 to 6 and 35 to 52 to place the heating system in operation again. Check the screw plugs for leaks with soap solution. If no leaks are found, continue with step 68. If leaks are found, close gas shut-off and switch ON/OFF button on gas valve clockwise to the OFF position. Disconnect the heating system from the power supply.
67. Seal leaks. Open gas shut-off and repeat step 66.
68. Carefully wipe away the soap solution to prevent corrosion caused by the alkali content of the soap.
69. Replace front panel of boiler.

With the Logamatic 2107 control only

70. Select AUT (automatic mode) with the mode selection switch.

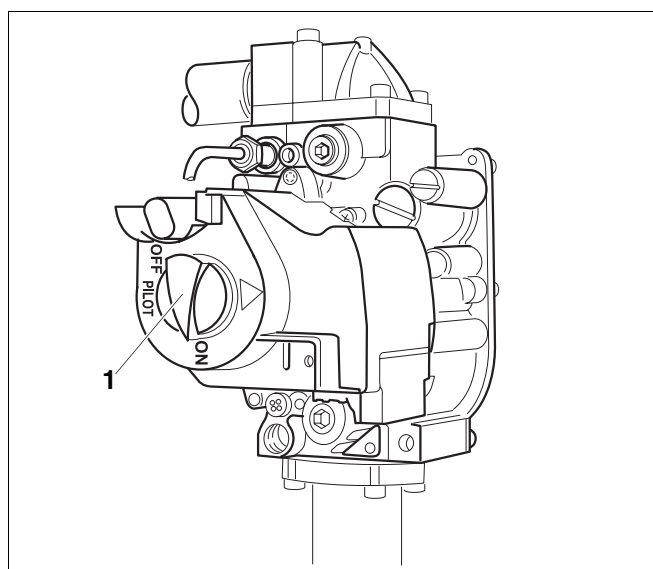


Fig. 17 G124X SP gas valve

1 ON/OFF button (at ON position)

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