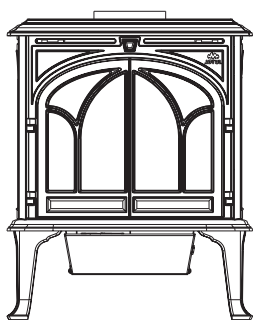


Jøtul GF 300 CF
Conventional Flue Gas Stove



Installation and Operation Instructions

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- 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 instruction.
 - 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.

Jøtul GF 300 CF

INSTALLATION SIGNATURE FORM

With proper usage and maintenance, this appliance will provide you with many years of satisfactory service. Please contact your Jøtul dealer for assistance if any problems should arise with your Jøtul appliance. Save this user manual and make sure it is available to service personnel.

Model Name: Jøtul GF 300 CF

Serial No.:

Purchase Date:

Name of Installer:

Fuel Type:

Was the appliance converted?

Notes:

Annual service - year 1

Sign.:

Company:

Date:

Service details:

Annual service - year 2

Sign.:

Company:

Date:

Service details:

Annual service - year 3

Sign.:

Company:

Date:

Service details:

Annual service - year 4

Sign.:

Company:

Date:

Service details:

Annual service - year 5

Sign.:

Company:

Date:

Service details:

Annual service - year 6

Sign.:

Company:

Date:

Service details:

Annual service - year 7

Sign.:

Company:

Date:

Service details:

Annual service - year 8

Sign.:

Company:

Date:

Service details:

Annual service - year 9

Sign.:

Company:

Date:

Service details:

Annual service - year 10

Sign.:

Company:

Date:

Service details:

Annual service - year 11

Sign.:

Company:

Date:

Service details:

Annual service - year 12

Sign.:

Company:

Date:

Service details:

Annual service - year 13

Sign.:

Company:

Date:

Service details:

Annual service - year 14

Sign.:

Company:

Date:

Service details:

Annual service - year 15

Sign.:

Company:

Date:

Service details:

Annual service - year 16

Sign.:

Company:

Date:

Service details:

Annual service - year 17

Sign.:

Company:

Date:

Service details:

Annual service - year 18

Sign.:

Company:

Date:

Service details:

THIS OWNER'S MANUAL PROVIDES INFORMATION TO ENSURE SAFE INSTALLATION AND EFFICIENT, DEPENDABLE OPERATION OF YOUR STOVE. PLEASE READ THESE INSTRUCTIONS IN THEIR ENTIRETY AND MAKE THEM AVAILABLE TO ANYONE USING OR SERVICING THIS GAS STOVE.

Table of Contents

1. Technical Information	4
2. General Information	5
3. Safety Information	5
4. Installer Information	6
5. User Information	12
6. Troubleshooting	14
7. Warranty Statement	17

Jøtul GF 300 CF

Technical Information

Material: Cast iron/steel
 Finish: Blue Black enamel or Matte Black paint
 Flue outlet: Top or Rear
 Vent system: BV-standard system
 Weight: Approx. 71 kg (product)
 PIN: o558CN15o1
 Product dimensions: See fig. 1.

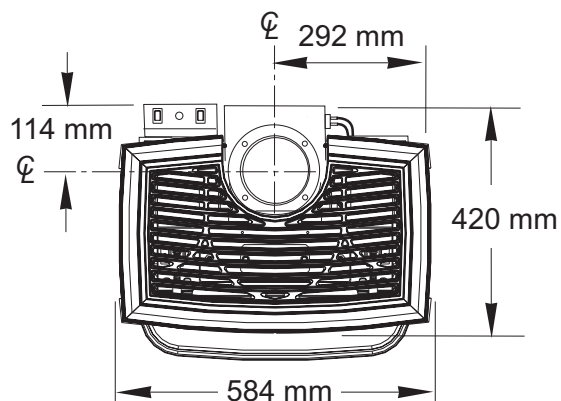


Figure 1. Top view dimensions.

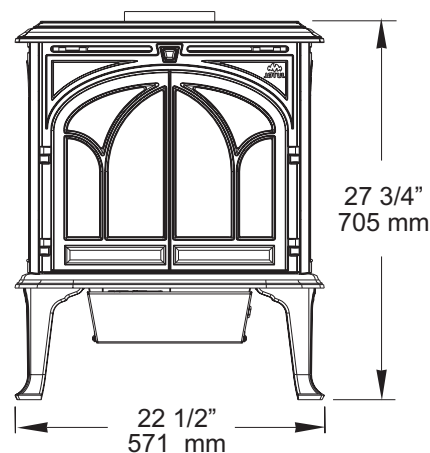


Figure 2. Front view dimensions.

With Short Legs, reduce height by 2 1/4" (51 mm)

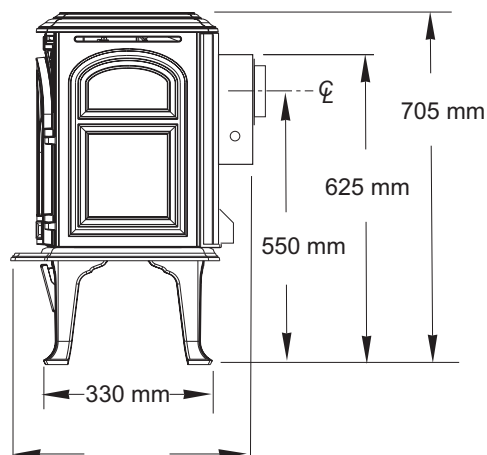


Figure 3. Side view dimensions.

Countries of Destination	GB, IE	
Appliance Category	II _{2H3P}	
Gas Types	NG (G20) ¹	LPG (G31) ²
State of Adjustment	I _{2H}	I _{3P}
Supply Pressure (mbar)	20	37
Nominal Heat Input (Gross, kW)	6.8	6.8
Maximum Gas Consumption at Full Rate: (m ³ /h at 15°C 1013.25mbar)	0.666	0.278
Maximum Gas Consumption at Full Rate: (kg/h at 15°C 1013.25mbar)	-	0.528
Burner Pressure at Full Rate – Hot (mbar):	9.10	26.9
Efficiency:		
Rear Flue (Nett, %)	80.6	80.9
Top Flue (Nett, %)	79.9	79.5
Efficiency Class	2	2
NOx Class	5	5
Main Burner Injector Marking	235	140
Pilot Injector Marking	51	30
Notes: The appliance is supplied at the default factory settings for Natural Gas (G20 at 20mbar) The appliance will have this setting following conversion to LPG (G31 at 37mbar)		

General Information

- This product has been approved to the European Standard EN 613:2000 and is in accordance with EC Gas Appliances Directive (90/396/EEC).
- The Flue must be checked for soundness and swept prior to installation it should only be used if clean and in good order.
- Before installation, ensure that the local distribution conditions and the adjustment of the appliance are compatible.
- This appliance incorporates a spillage monitoring device (TTB) this device will shutdown the appliance in the event of interruption to the evacuation of combustion products. I.e. Flue Blockage.
- If the appliance spillage monitoring device (TTB) should operate and close down the appliance, a minimum period of 3 minutes should be observed before following the lighting instructions detailed in the USER section of this manual.
- If the appliance spillage monitoring device (TTB) shuts down the appliance repeatedly the appliance should not be used and a qualified service engineer should be called for service.
- This product, the Jøtul GF 300 CF, may only be used with Natural Gas G20 or be converted for the use of Propane G31.
- Assembly, installation and maintenance must be performed by a qualified person in accordance with the instructions for assembly, Installation and use enclosed with the product. The installation may only be operated after it has been inspected by a qualified person and a certificate of completion has been issued.
- The Installation should be carried out in accordance with the Building Regulations which include the following standards for installation and maintenance of flues, ventilation and installation of Gas Fires. For UK BS5440:1, BS5440:2, BS5871 for Republic of Ireland IS813, ICP3, IS327
- The appliance is designed as a freestanding unit and no additional fixing methods need apply.
- This appliance is intended for use on a gas installation with a governed gas supply.

Safety Precautions

- This appliance must be installed in accordance with the rules in force. Consult instructions before installation and use of this appliance.
- The appliance is designed as a heating device and all components will become hot (excluding control knob, control cover and control switch) care should be taken not to touch unit when it is in operation.
- Warning! If you detect an odour of gas:
 - Do not light the Stove or any other appliance.
 - Do not use electrical switches or the telephone.
 - Contact your gas supplier's emergency number.
- The appliance must only be installed and repaired by qualified personnel. Always turn off the gas supply before service.
- The appliance must be inspected following installation and at least once a year by qualified personnel.
- The appliance must only use gas of the correct type and pressure See technical data for more details.
- If Propane G31 is to be used, the appliance must be converted using the conversion instructions and kit supplied by Jøtul .This is only to be installed by qualified personnel.
- It is permitted to install the appliance against a wall made of combustible material with the clearances specified in figs. 5-6.
- The minimum clearance to combustible material in front of the appliance is 600 mm.
- Curtains may not be placed within 600mm above the appliance.
- Never store combustible gas or liquid in the same room with the appliance.
- Never light the appliance without the front glass in place or if the glass is cracked. Replacement of the glass should be done by a licensed or qualified service person. Only remove glass for routine service. Always handle glass carefully.
- Do not burn solid fuel in the appliance.
- Do not place combustible material on or near the appliance, as the appliance becomes hot.
- This appliance becomes hot in use so it advisable to keep young children, the aged or infirm and animals at a safe distance using a fireguard conforming to BS6539 or BS6778 to provide extra protection.

Installer Information

The Flue must be checked for soundness and swept prior to installation it should only be used if clean and in good order.

Before installation, check that the local distribution conditions, nature of the gas and pressure, and the adjustment of the appliance are compatible.

Assembly, installation, maintenance and gas conversion (if required) must be performed by a qualified person in accordance with the instructions for assembly, Installation and use enclosed with the product. The installation may only be operated after it has been inspected by a qualified person and a certificate of completion has been issued.

The Installation should be carried out in accordance with the Building Regulations which include the following standards for installation and maintenance of flues, ventilation and installation of Gas Fires. For UK BS5440:1, BS5440:2, BS5871 for Republic of Ireland IS813, ICP3, IS327

The appliance is designed as a heating device and all components will become hot (excluding control knob, control cover and control switch) care should be taken not to touch unit when it is in operation.

This appliance incorporates a spillage monitoring device (TTB) this device will shutdown the appliance in the event of interruption to the evacuation of combustion products. I.e. Flue Blockage.

WARNING:

The TTB shall not be adjusted by the installer.

The TTB shall not be put out of operation by the installer.

When the TTB is exchanged; only original manufacturer's parts shall be used.

Installation Guide for Qualified Personnel

Important: The appliance is factory pre-set for Natural Gas G20. If Propane G31 is to be used, the appliance must be converted with a conversion kit. The instructions are enclosed with the conversion kit. The kit is only to be installed by qualified personnel.

Fixing

The GF 300 CF is designed as a freestanding appliance and as such does not require additional fixing.

Requirements for Floor Plate

The appliance may stand on a wooden floor. A floor plate of non-combustible material is required if the appliance is to be placed on carpet, vinyl, linoleum or other combustible material. Minimum dimensions of the floor plate: 580 x 435 mm as in fig. 4.

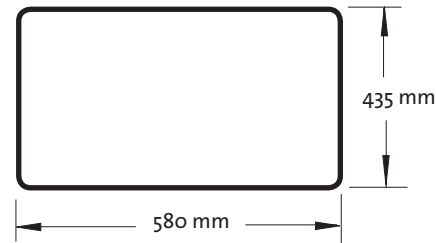


Figure 4. Minimum Hearth Protection.

Firewall Requirements

The appliance may be placed directly against a wall made of combustible material with the clearances specified in fig. 5. Make sure there is adequate space for the vent system behind the appliance and for the full height/length of the pipe.

Position of Appliance

Minimum clearances are as follows:

Clearance from wall to rear of appliance, (see figs. 5).

Clearance from wall to side of appliance (see fig.5).

Minimum clearance from top of appliance to register plate, (see fig. 6).

Minimum clearance from top of appliance to combustible shelf, (see fig.7).

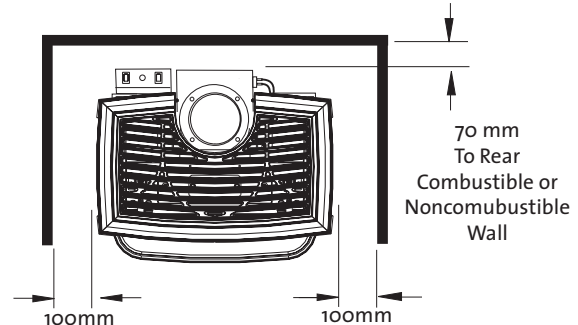


Figure 5. Parallel Installation Clearances.

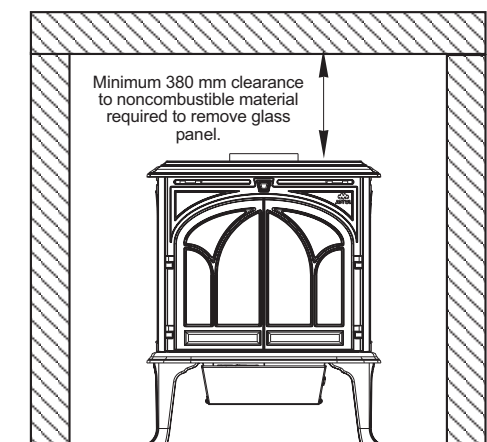


Figure 6. Clearance for glass panel removal.

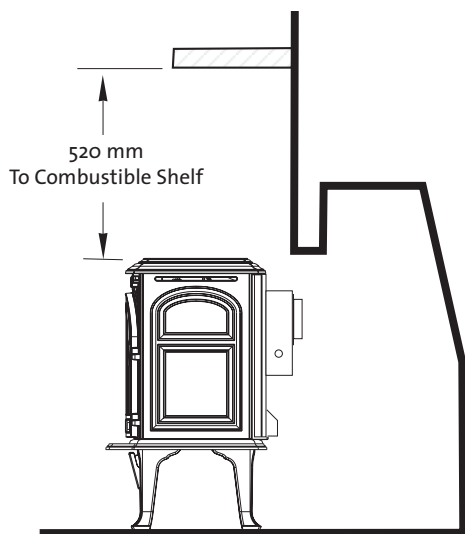


Figure 7. Clearance to a combustible shelf.

Flue System Installation

Flue outlet (spigot) dimensions:

Internally = 128 mm

Externally = approx. 131 mm

When installing the vent, it is important to adhere to national and local regulations that apply. Only one appliance may be connected to the vent system.

The vent system must terminate above the roof.

The vent system and the flue pipe components must be fastened to the stove with screws.

Minimum height of the chimney is approx. 2,15 m (7') and maximum height should not be more than approx. 10,7 m (35'). (When installation is at or above a height of approx. 610 m (2000'), the chimney's height must be at least approx. 3,7 m (12') measured from the flue outlet. If the chimney has to move through a horizontal distance, make sure to use 45° or 90° bends.

Max. number of 45° bends = 4

Max. number of 90° bends = 3

It is permitted to move the chimney a total of approx. 1,2 m (4') horizontally.

An exhaust hood (terminal, cowl or rain cap) must be mounted at the chimney's termination point. After fitting of the vent system and installation of the appliance, carry out a smoke test on the flue as described in the relevant section. If the appliance shuts off in operation for no apparent reason (especially during windy or stormy conditions) and will not relight, it is possible that the flue system safety switch has operated. Allow the appliance to cool down and relight. Any obstruction to the flow of exhaust gases up the flue can cause this switch to operate thereby making the situation safe. If the appliance cuts out repeatedly, do not continue to use the appliance and seek flue checking and service from qualified personnel before re-using the appliance.

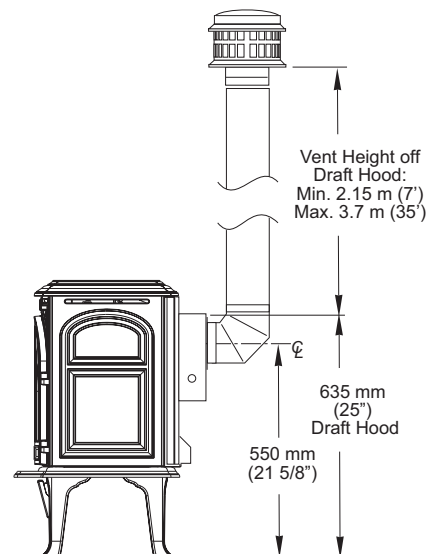


Figure 8. Vent height requirements.

Closure Plate Installation

It is permissible to install this appliance using a closure plate installation similar to traditional outset gas fires. See diagrams (1 E-F) on page 28. The British Standards detailing this type of installation are BS5871 pt1 and BS5440 pt 1. The appliance and flue must be sound and if used with solid fuel or oil appliances it must be swept prior to installation. There must be no other openings other than the exit from the top of the flue and the opening into which the appliance is being installed. All cracks, holes, underfloor air vents etc must be removed and sealed fully before installation continues. A proprietary metal flue box complying with BS715 is a suitable appliance opening.

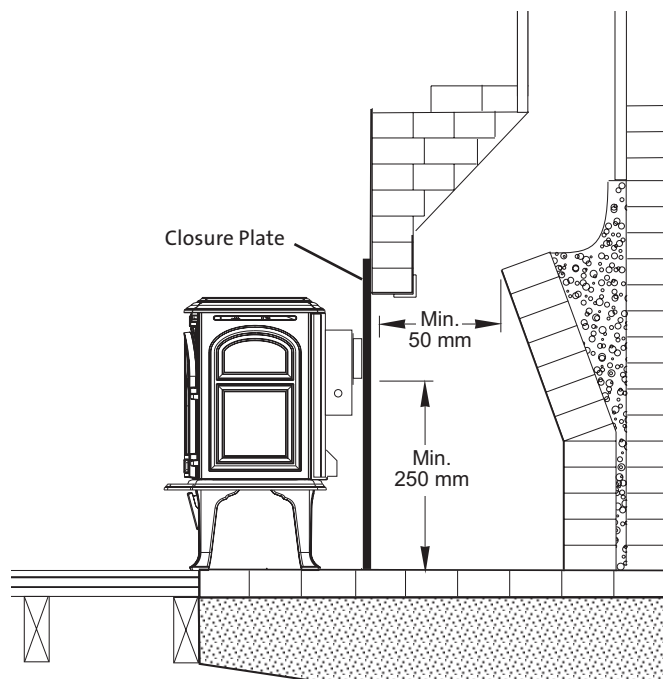


Figure 9. Closure plate requirements.

All brick flues or any flue previously used with solid fuel or gas appliances must be left with the appropriate debris collection volume below the flue spigot of the stove of 12 litres minimum, and depth of 250mm minimum below the spigot as shown in fig. 9.. Block, clay, cement or steel lined (connected to the top of the appliance opening) flues either new or previously used with GAS appliances may have the smaller debris collection volume of 2 litres minimum and depth of 75mm minimum below the flue spigot.

Make sure that there will be at least 50mm clearance between the end of the spigot and knee of the fireback for flue gases. Also make sure that the spigot will pass through the closure plate by a minimum of 15 mm. It can be extended by up to 150 mm (6") to ensure this requirement is met using a purpose-made extension or suitable piece of flue pipe. Cut a closure plate from sheet aluminum or steel to just cover the appliance opening to be used. It is also possible to use other fireproof materials providing they are properly supported and sealed and can be removed annually for inspection and clearing of the flue. Cut a spigot hole as shown in the fig. 9. Fix the closure plate to the wall or appliance and seal it correctly to the wall. The plate must be sealed correctly to the wall using adhesive sealant, screws and/or tape able to withstand at least 3 degrees C. The appliance will not work correctly and may cut out repeatedly if the sealing of the appliance and flue is not correct.

Remember, if the closure plate extends beyond the sides or top of the stove, a non-combustible decorative panel can be fitted to cover the area. The closure plate can then be fitted to this. Marble in-fill panels are a common example. Install the appliance and connect to the gas supply and carry out a smoke test on the flue as described in the relevant section of this manual.

Minimum Clearances from Combustible Material to the Vent System

All pipe components must be installed according to approval and the instructions of the manufacturer. Adhere to the instructions of the manufacturer as regards clearance from to the vent system to combustible material.

When moving the chimney the clearance from combustible material to the upper side of horizontal pipe must be minimum 100 mm. The clearance from the bottom of the vent pipe to combustible material must be minimum 75 mm.

Assembly Prior To Installation

The product is delivered in 1 package. In the firebox you will find the propane fuel conversion kit, four decorative pipe brackets, and a log set that includes a bag of textured embers.

1. Remove the Top Plate of the stove by simply lifting it straight off of the stove body.
2. To open the firebox, disengage the two Glass Frame Latches located on top of the firebox. Pull each lever up to release the latch from the notch in the frame.
3. Remove the parts wrapped in packaging. Use gloves to handle the ceramic logs, as they can cause skin irritation.
4. Familiarize yourself with the installation requirements specified in this manual, before beginning the installation. If the product is going to be used with Propane G31 rather than G20 natural gas, it should be converted now. See the instructions supplied with the conversion kit.

Logset Installation

Brick Kit Note: Install the optional Antique Brick Kit 155370 before installing the log set. See instructions supplied with that kit. The GF 300 CF log set must be installed before operating the burner. The log set includes four log pieces, packaged inside the firebox, and a quantity of ceramic embers.

To install the log set, remove the packaging and place the parts inside the firebox as illustrated in the diagrams below. Do not handle the log set with your bare hands. Always wear gloves to prevent skin irritation from the ceramic fibres.

THE CERAMIC FIBRE LOGS AND EMBERS CAN IRRITATE YOUR SKIN. GENTLY WASH YOUR HANDS WITH WARM SOAPY WATER AFTER HANDLING THE LOGS OR EMBERS.

The embers realistically simulate glowing coals when the burner is operating. These should be spread evenly over the burner plate and around the logs.

1. Engage the holes in the underside of the rear log with the two pegs in the burner skirt as in fig. 10.
2. Locate the right log to overlap the rear log and engage with the peg as in fig. 11.
3. Place the left log on the pegs as in fig. 12.
4. Install middle log on the appropriate pegs shown in fig. 13.
5. Position embers loosely and maintain 6 mm clearance from the burner skirt edges. DO NOT OBSTRUCT THE PILOT ASSEMBLY OPENING and do not pile the embers in front of the burner skirt edges. See fig. 14.
6. Lower the glass frame with the glass back into place and engage the latches.

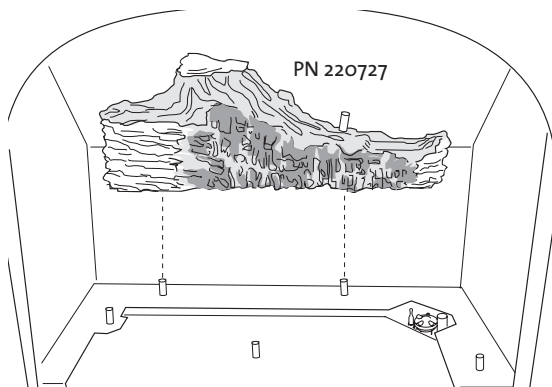


Figure 10. Install rear log.

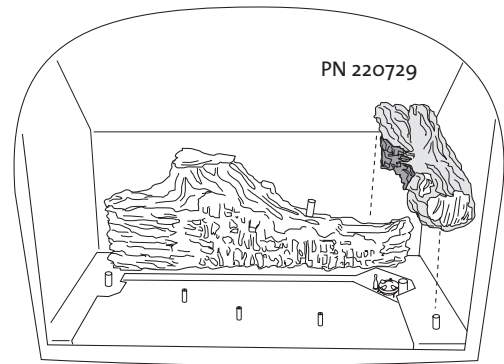


Figure 11. Install right log.

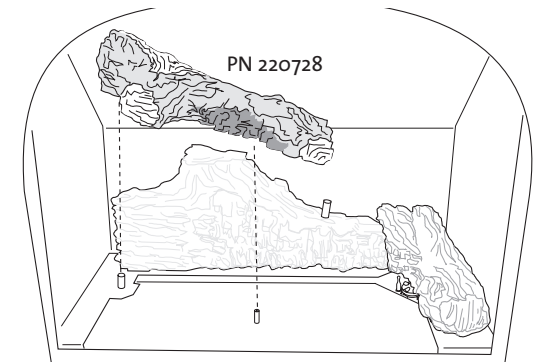


Figure 12. Install left log.

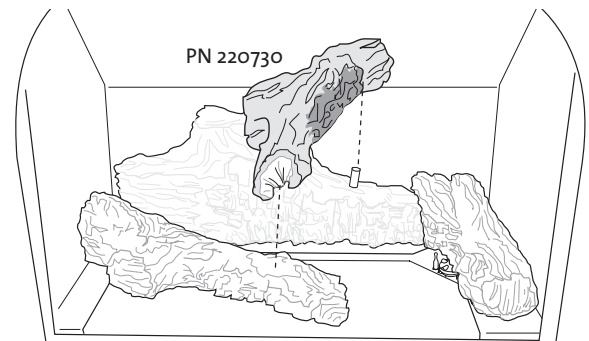


Figure 13. Install middle log.

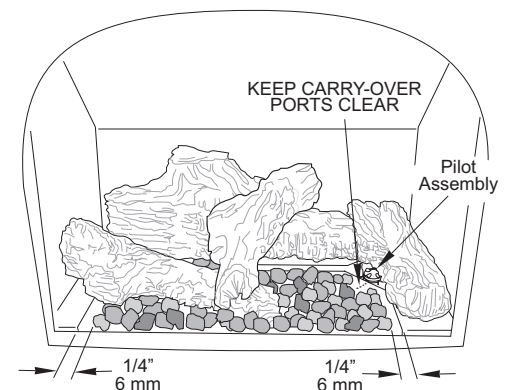


Figure 14. Spread ember stones over the burner plate.

Gas Installation

Gas installation must only be performed by qualified personnel. It is important to adhere to national and local regulations that apply. In the UK these include BS5440 Pt 1&2 and BS5871 in Ireland.

The LPG gas container must be stored/installed according to national regulations. The gas container must have a pressure regulator that reduces the pressure to the required level. See technical data on page 4 for gas type and pressures before connecting to the appliance. The appliance must not be exposed to pressure above 55 mbar (5,5 kPa) during pressure testing.

Gas tubes must be made of steel (DIN 2448/1629, DIN 2458/1626, DIN 2440, DIN 2441) or copper (DIN 2110).

For practical reasons, the vent system should be installed before the appliance is connected to the gas supply.

The stove is supplied with a 3/8" to 8mm compression union. The gas valve has a 3/8" NPT threaded connection. All tube connections must be approved and the gas pipeline must have an approved shutoff valve. Only use approved sealing agent (tape) at all the pipe connections. When the pipe sections have been assembled and connected to the appliance, open the gas supply and light the appliance (see lighting instructions). Perform a tightness test on all the pipe connections.

Commissioning

Testing the Flue System

Once the appliance is fitted, gas leak and pressure tested, and the flue system complete, the flue must be checked for correct operation. This is best achieved after 10 minutes of burning by holding a smoke match just inside the downdraught diverter hood on the rear of the appliance, accessible through a cutout in the rear heatshield. The smoke should be drawn into the flue and no smoke should spill into the room. If the smoke does issue into the room, leave for another 5 minutes and retest.

The appliance is fitted with a TTB (flue sensing safety switch), located on the draft hood on the back of the stove. If the fire does cut out automatically during flue testing, or if smoke persists to come into the room when tested, a problem is indicated within the flue system which must be thoroughly measured, checked and rectified before allowing use of the appliance.

Testing Gas Pressure

Correct gas pressure is important for the safe use of gas in the appliance. It is important that the correct gas pressure is set during the installation of the appliance.

The gas valve is equipped with outlets for the testing of gas pressure. The outlets are located at the front of the valve below the ON/OFF/Pilot knob. The outlets are marked as shown in fig.15.

Outlet D: For gas pressure to the valve (volume of gas to the valve) See technical data.

Outlet E: For gas pressure from the valve (volume of gas coming out of the valve to the burner).

C: Regulator - Always test the gas pressure with the valve regulator knob on High (Hi).

Loosen the screw in the outlet and attach the tube from the manometer to the outlet. Remember to tighten the screw when the testing is completed and test for leaks at the outlets with test fluid.

Required gas pressure from the vent (Outlet E) is displayed in the table below.

GAS TYPE	MAX. / High Setting
Natural gas	9.10 mbar
Propane	26.9 mbar

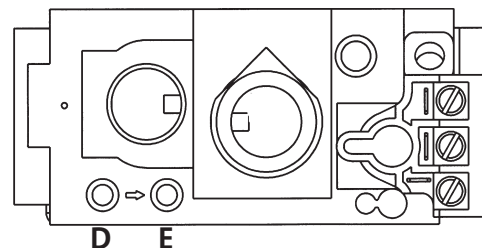


Figure 15. Valve pressure tap locations.

Regulating the Pilot Flame

The pilot flame should have three flames as shown in fig. 16. The two thermo-element sticks should be surrounded by two of the flames as shown in fig. 17. The flames should be stable and the colour mainly blue. If you detect a deviation from this, turn off the pilot flame and call for service.

Adjusting the Burner

Burner adjustments must only be performed by qualified personnel. To adjust the air supply, regulate the air opening in the burner tube right above the connection of the gas supply. See fig. 18. Loosen the wing nut under the stove and adjust the air opening by pulling the air shutter to the correct opening. See fig. 19.

For Natural Gas: 9.6 mm (this dimension is preset at the factory)

For Propane: 12.6 mm (this dimension is with shutter fully open)

Note! To avoid burns, do not adjust the air shutter until the burner has cooled down.

Safety Switch

The TTB safety switch previously referred to in the Flue Test section, will shut-off the gas supply to the appliance if there is a blockage or draft reversal in the vent system. Look for obstructions in the vent system (such as bird's nests, or branches from bushes and trees). If the problem persists, call for service.

Annual Service

Annual service of the appliance includes the following check points.

- Lighting the pilot flame
- Cleaning the glass.
- The gasket around the glass must be inspected annually for wear and replaced if necessary.
- Check if the textured embers need to be replaced.
- Look for soot. It could be a result of the ceramic logs not being centered in the oven and completely pushed onto the metal plate, or the air regulator has been adjusted incorrectly. (see section: Adjusting the burner)
- Check the gas pressure if other gas equipment is connected to the gas supply.
- Look for signs of corrosion on the appliance and the vent system.
- Look for obstructions in the vent system (such as bird's nests, or branches from bushes and trees).

Figure 16.
Proper pilot flame / carry-over port alignment.

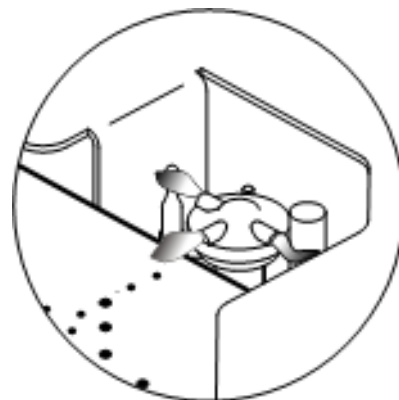


Figure 17.
The thermo-couple and thermopile should be fully engulfed by the pilot flames.

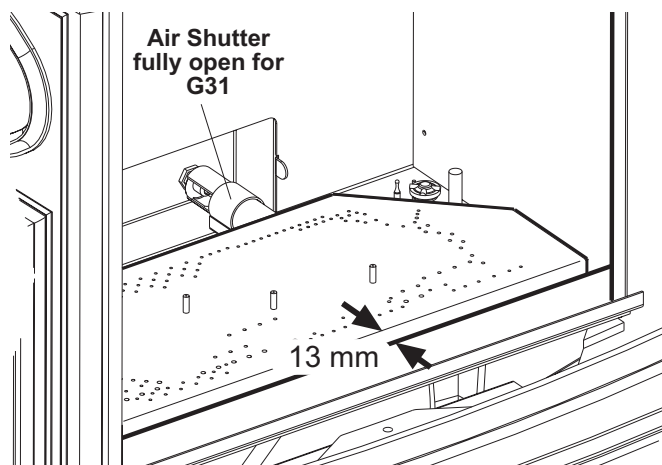
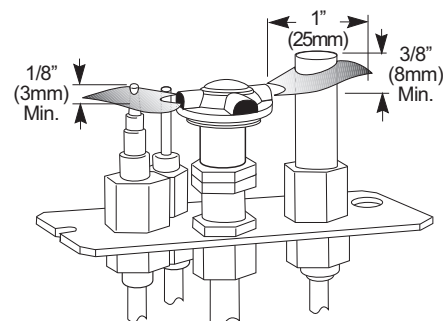


Figure 18. Air Shutter Adjustment.

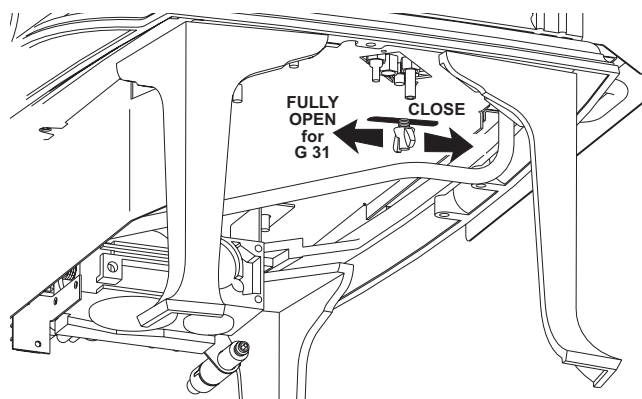


Figure 19. Loosen wingnut to adjust air shutter..

User Information

General

Assembly, installation, maintenance and gas conversion (if required) must be performed by a qualified person in accordance with the instructions for assembly, Installation and use enclosed with the product. The installation may only be operated after it has been inspected by a qualified person and a certificate of completion has been issued.

The Installation should be carried out in accordance with the Building Regulations which include the following standards for installation and maintenance of flues, ventilation and installation of Gas Fires. For UK BS5440:1, BS5440:2, BS5871 for Republic of Ireland IS813, ICP3, IS327

This appliance incorporates a spillage monitoring device (TTB) this device will shutdown the appliance in the event of interruption to the evacuation of combustion products. I.e. Flue blockage.

If the appliance spillage monitoring device (TTB) shuts down the appliance repeatedly the appliance should not be used and a qualified service engineer should be called for service.

The ceramic fuel effect should only be arranged by qualified service engineer and under no circumstances should extra elements be added to the fuel effect. I.e. Extra logs or Coals

The appliance should be serviced annually by a qualified service engineer and should include attention to the appliance, installation pipe work and the inspection and cleaning if required of the flue system.

The minimum clearance to combustible material in front of the appliance is 600 mm.

Curtains may not be placed within 600 mm above the appliance.

A combustible shelf may not be placed over the appliance if it is within 520 mm

This appliance becomes hot in use so it is advisable to keep young children, the aged or infirm and animals at a safe distance using a fireguard conforming to BS6539 or BS6778 to provide extra protection.

Operating Instructions

Lighting

Note! Odors when using the stove:

When used for the first time, the appliance may emit an irritating gas that may smell a little. The gas is not toxic, but the room should be thoroughly aired out. During first time use, it may take a little while before the gas tube is cleared of air, but subsequently the appliance should function as described in the lighting instruction. The appliance operates with the aid of a pilot flame, which is lit manually according to the lighting instruction.

Prior to lighting:

Check the area around the appliance for possible gas leaks/odors. Especially check near the floor, since propane is heavier than air and would gather close to the floor in the event of a leakage. (Note: Natural gas is lighter than air and will gather under the ceiling). If you detect an odor of gas, see warning under: Safety precautions.

Only use your hands to operate the control knobs; do not use tools. If you are unable to turn or push in the control knob, do not use force. Call for service.

Do not use the appliance if any part of it has been submerged in water. Call for service to replace the parts that have been in water.

Lighting Instructions

Lighting the Pilot Flame

The valve control knobs are located on the front of the appliance behind the control cover plate. See fig. 20.

The Burner ON/OFF switch is located on the rear on the left towards the top of the appliance. See fig. 21. This switch has three settings ON/OFF/STAT the STAT position is for use of a remote control thermostat, not available at present, and this setting should not be used.

1. Place the ON/OFF switch to "OFF" position. Make sure the gas valve on the pipeline to the appliance is open.
2. Push in the gas control knob on the front of the valve ("B", fig. 20) a little, and turn clockwise to "OFF". Note: It is impossible to turn the gas control knob unless it is pushed in a little. Do not use force.
3. Push in the gas control knob (B) a little and turn counter-clockwise to "PILOT".

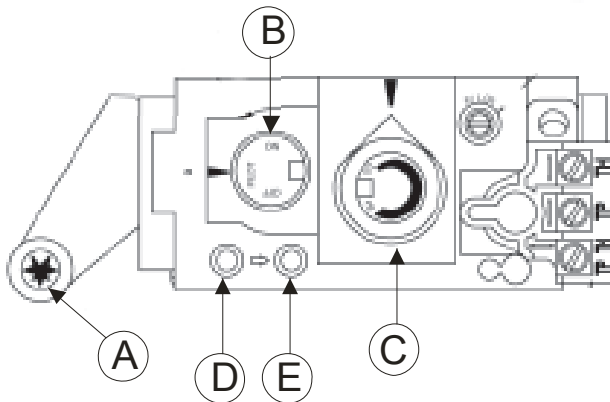


Figure 20. Valve Controls.

4. Push in the gas control knob (B) as far as possible and hold it in. Simultaneously, push in the ignition knob (A) until the spark ignites the pilot flame located to the right rear corner of the burner..
5. Continue to hold in the gas control knob for approximately 20 seconds after the pilot flame has been lit. Then let go of the knob. It should pop back out and the pilot flame should remain lit.

If the pilot flame goes out, repeat Steps 1-5.

If the pilot light goes out intentionally or unintentionally, it should not be relit within 3 minutes.

*NOTE: If the gas control knob does not pop out when released, call for service.

**NOTE: If the pilot flame does not remain lit after several attempts, turn the gas control knob to OFF and call for service.

Lighting the Main Burner

1. Turn the gas control knob clockwise to "ON".
2. Push the ON/OFF switch at the rear of the appliance to "ON".

NOTE: When the appliance is used for the first time, condensation may form in the firebox. Some smoke may also appear from the appliance during the initial hours, due to the burning off of paint and lubrication used in the production process. See section Odors when using the stove for the first time.

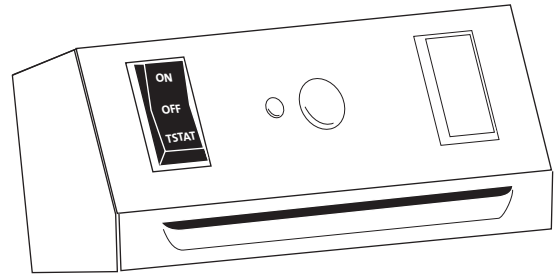


Figure 21. Burner Controls.

Adjusting the Heat Setting

Heat and flame size can be adjusted by turning the regulator knob (C) marked "HI, LOW", which is located next to the gas control knob (see fig. 20). Maximum flame size provides maximum heat. Make sure the appliance has been operating for at least 30 minutes before adjusting the flame.

Turning Off the Appliance

Push the ON/OFF switch at the rear of the appliance to "OFF". The pilot flame will continue to burn. In order to fully extinguish the appliance, push in the gas control knob (C) (fig. 20) a little and turn clockwise to "OFF". Do not use force.

Maintenance

The complete installation, which includes the gas supply, the actual appliance and the vent system, must be inspected annually. The inspection must be carried out by qualified service engineer.

External Maintenance

Painted products may change color after some years of usage. The surface should be cleaned and brushed free of any loose particles before new stove paint is applied. Enameled products must only be cleaned with a soft damp cloth and only the surface is cold.

Do not use water or soap. Enamel surfaces stain easily when hot.

Troubleshooting

When No Spark is Generated at the Pilot Head

It is uncommon for the Piezo spark ignitor (fig 22-A) to fail, unless it has mechanical damage. If the spark is not conducted forward, it could be the result of a break in the electrical circuit leading up to the pilot head. The spark is small or weak if there is too much resistance from a bent wire (E), or if corrosion appears at the electrode (G) or the pilot head (H). This could result in insufficient heat to light the gas. Inspect the pilot burner by looking for damage to the individual parts. Check for damaged wires or wires crushed between plate sections of the appliance and check for loose connections.

Follow the trouble-shooting procedure below when no spark is generated at the pilot head electrode:

1. Make sure the spark gap between electrode (G) and pilot head (H) is smaller than or equal to 3.2 mm. If not: check if the electrode is loose or damaged
2. Make sure the spark igniter (A) is securely mounted and the ground connection is in contact with the bracket. If not: turn the spark igniter until the ground connection is in contact with the bracket and tighten the nut at the back of the spark igniter.
3. Make sure the insulated wire (E) is intact and without cracks and properly connected between spark igniter (A) and electrode (G). If not: properly fasten the insulated wire to establish a connection between the spark igniter and the electrode. Replace the electrode if the wire is damaged or cracked.
4. Make sure the ceramic insulation (F) is intact and without cracks. If not: replace the electrode.
5. Make sure a spark is generated when you dismantle the Piezo spark igniter and put the ground connector against a metal piece, and the control knob (red mark) on the spark igniter is finally pushed to the bottom (B). If not: replace the Piezo spark ignitor.

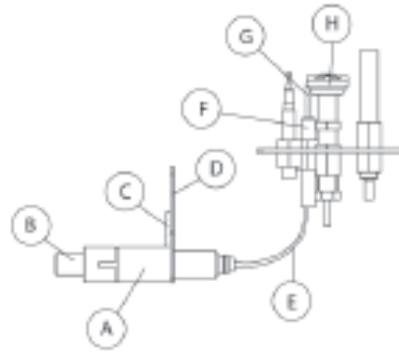


Figure 22. Pilot ignition components.

Fuel Gas

Correct gas pressure is important; see the section about gas pressure under Gas Installation, page 10. The gas pressure before the valve and the gas pressure from the valve to the main burner and pilot burner, are equally important. These parameters may be the cause of various performance problems.

If the gas pressure is too low, it can cause low pilot flame, insufficient production of electricity at thermopile and thermocouple, and poor flame pattern.

If the gas pressure is too high it can cause valve damage if the pressure rises above 60 mbar. This is usually the result of faulty installation or lack of a gas regulator on the gas tank or cylinder. High gas pressure may also cause an abnormally large pilot flame which can overheat the thermopile and thermocouple, and further cause a shutoff of the valve due to insufficient millivolt production. Problems involving high flames and soot indicate that the air volume is too small in relation to the gas volume. It is wrong to correct the problem by adjusting the air regulator, if the cause is that the gas pressure is too high. Checking the gas pressure before the valve will uncover faults in the gas supply at the valve or from the tank/cylinder.

If the gas pressure to the valve is correct, the fault must be found after the valve. A measurement performed with a manometer will help you to swiftly uncover and eliminate sources of errors. As mentioned above, blocked or poor gas supply may lead to faulty combustion. Make sure all gas tubes are dirt-free, as a small dust particle can obstruct the pilot orifice. Components must remain free of dirt during installation of the gas supply and connection to the appliance, and when the valve is being replaced.

When There is No Gas Flow To The Pilot Head

This is the trouble-shooting procedure for the gas supply: Check if all gas connections are sealed by using strong soapy water (avoid synthetic soaps). Be certain all valves from the gas tank/cylinder are fully open.

When the pilot is to be lit for the first time with a new installation, after a scheduled disconnection or after the propane tank has been refilled, there will often be air in the gas tube leading up to the appliance. The tube system must be cleared of air before the pilot burner can be lit. The recommended method for clearing air out of the tube system, is to push in the gas control knob and turn anti-clockwise to "PILOT". Then push in the gas control knob for 5 seconds and push the control knob on the spark igniter to the bottom several times. Repeat the procedure until the pilot is lit.

If the pilot does not light after attempts to clear the tube system of air, it indicates a problem with the gas tank/cylinder or a leak in the gas tube. Check the gas pressure as instructed in the section Gas Installation on page 10 and determine if the fault/leak is before or after the valve on the appliance. If the gas pressure at outlet D (fig. 20) is too low or there is no gas pressure at all, the fault or leak must be located before the valve on the appliance. If the gas pressure is OK at outlet (D), but too low at outlet (E), then the fault or leak must be located after the valve.

Note! SIT valves are always equipped with a fine filter at the inlet to avoid dirt from entering into the valve. Consequently, dirt in the valve is not a common occurrence. If gas tubes are dismantled, all gas tubes must be reinstalled and checked for gas leaks prior to operating the appliance.

When the Pilot Goes Out - Problems With the Gas Supply

This is the trouble-shooting procedure for the gas supply: Remember to push in the gas control knob for at least 30 seconds. Make sure the flame is centred at the thermocouple. Make sure the thermocouple is enveloped by the flame up to at least 3 mm (1/8") from the tip (fig. 17).

If the flame is abnormally large or small, check the gas pressure first. See section about gas pressure, page 10. Then check for errors, dirt or corrosion on the pilot burner (fig.17), the pilot orifice and the gas supply to the pilot burner.

Note! There could be a leak after the valve even if the pressure is OK at outlet E. You should therefore always check for leakage.

Thermocouple (Fig.23) and Thermopile (Fig. 24)

A thermocouple is in principle a thermal generator and consists of a copper wire (copper-nickel alloy) and an iron wire twisted together. These wires will create friction and generate 25 millivolt when exposed to a temperature difference of 200°C. This voltage is sufficient to make the gas valve function. In order to produce higher voltage a thermopile is used, which is based on the same principle as the thermocouple, but with more copper and iron wires.

The thermopile produces approx. 500-700 millivolts. This only amounts to 1/3 of the voltage in a flashlight battery. It is important to understand that even minor resistance (ohm) will have great impact on such a small voltage. If resistance is too great, the gas valve may not receive enough voltage to operate. If there is too much resistance, the cause may be that the copper wire conducting the voltage is too long, or there are too many connections. If the copper wire comes in contact with metal, it may increase resistance and consequently reduce the voltage.

When the Pilot Goes Out, But the Gas Supply is OK.

This is the trouble-shooting procedure for the thermocouple, fig. 23,B: Check the copper wire (F) of the thermocouple for cracks or damage.

Check the gasket (C) at the valve by loosening the nut that holds the copper wire. Look for signs of damage, if the nut has been tightened too hard. A damaged gasket results in resistance at contact with metal and consequently the voltage to the valve will be too small.

Make sure the flame is centred at the thermocouple. Make sure the thermocouple is enveloped by the flame up to at least 3 mm from the tip (see fig.17). Check the voltage generated by the thermocouple. Connect the multimeter (fig.23-E) with plus to the ball point (D) at the end of the copper wire. Connect minus to the copper wire. Light the pilot (A) and hold in the control knob to prevent the flame on the pilot burner from going out. At this point the multimeter should show 14-28 mV. the thermocouple. Note that there are 2 threaded holes that can be used when installing a new thermocouple. Make sure the blue wire (A) is fastened at the same threaded hole. The nut on the thermocouple must not be tightened too much, just a 1/2 turn. If the gas pressure is correct and the possible faults above have been checked, the pilot flame can be adjusted with the adjusting screw. The gas volume is increased when the screw is turned anti-clockwise.

When There is No Gas Supply to the Burner.

This is the trouble-shooting procedure for the electrical components:

1. Make sure the control knob on the valve is set to "ON".
Check the position on the "ON/OFF/Thermostat" switch at the back of the appliance. It should be set to the ON position.

2. Make sure the wire from the valve to the "ON/OFF/STAT" switch is connected correctly.

This is the trouble-shooting procedure for the thermopile (fig. 24):

1. Make sure the gas pressure is correct (see section about gas pressure, page 10).
2. Make sure the pilot burner has 3 flames.
3. Make sure the flame is centred on the thermocouple.
4. Make sure the thermocouple is enveloped by the flame up to at least 10 mm (3/8") from the tip (fig 18).
5. Check the wires to the thermopile for cracks or damage.
6. Dismantle the wires from the vent.
7. Dismantle optional equipment, such as thermostat or remote control.
8. Check the voltage generated by the thermopile (see fig 24). Connect the multimeter with plus to one cable clip (D). Connect minus to the other cable clip. Light the pilot and make sure the control knob remains on "PILOT" (fig. 20-B). At this point the multimeter should show 500-700 mV.
9. Reconnect the wires to the valve and make sure only the ON/OFF/STAT switch is connected.
10. Turn the control knob on the valve to "ON" and turn the ON/OFF/STAT switch to "ON". At this point the multimeter should show more than 300 mV.
11. If a thermostat or remote control is to be connected, it can be done now. At this point the multimeter should show more than 175 mV.

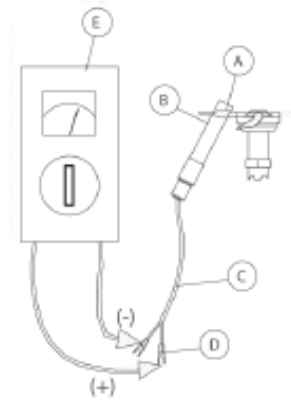


Figure 24.
Thermopile system
check.

Problems With the Flame Pattern

Tall, narrow, yellow flames

These flames can soot the vent system and may be the result of insufficient oxygen supply. Check for correct air volume by measuring the opening (fig. 18) at the air shutter.

Correct opening dimensions are normally:

For Propane - Open 12.6 mm (fully open)

For Natural Gas - Open 9.6 mm

Warning! To avoid burns, do not adjust the air opening until the burner has cooled down. Blocked orifice: Make sure the main orifice (fig. 25) is dirt-free and that the orifice has the appropriate size. See technical data.

Poor draught in the vent system may be due to improper installation or because the vent has no climb towards the chimney.

Tall, blue flames

The cause may be too much oxygen. Check for correct air volume by measuring the opening (fig. 18) at the air shutter. The cause may also be that the gas pressure is too high. Check the gas pressure as described in the section about gas pressure on page 10.

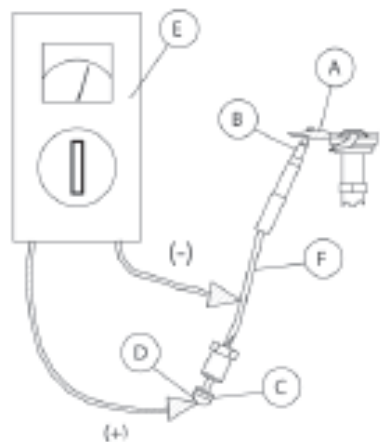


Figure 23.
Thermocouple
system check.

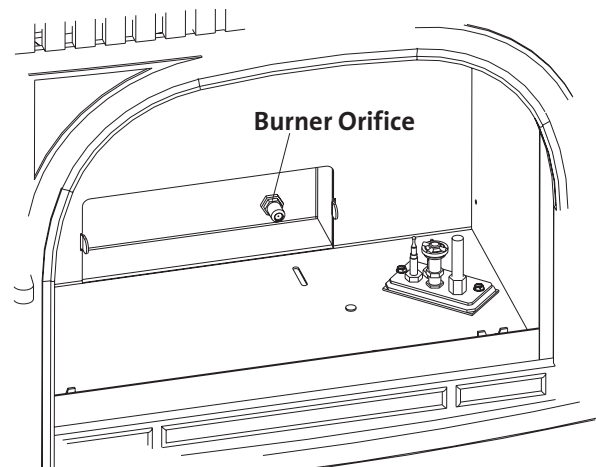


Figure 25. Check main burner orifice for debris blockage.
Burner pan is removed.

Jøtul Gas Product Limited Lifetime Warranty

Effective January 1, 2013

This warranty policy applies to gas products identified by Jøtul, Scan, and Atra trade names, as set forth below.

A. LIMITED FIVE YEAR WARRANTY - Cast Iron, Steel Doors, Surround Components, Firebox: Jøtul North America Inc. (JØTUL) warrants, to the original retail purchaser, that those components of the Jøtul, Scan, or Atra Gas Stove or Fireplace specified above will be free of defects in material and workmanship for a period of five (5) years from the date of purchase. This warranty is subject to the terms, exclusions and limitations set forth in the following text.

B. LIMITED TWO YEAR WARRANTY - Burner, Burner Treatments, Firebox Panels: JØTUL warrants, to the original retail purchaser, that those components of the Jøtul, Scan, or Atra Gas Stove or Fireplace specified above will be free of defects in material and workmanship for a period of two (2) years from the date of purchase. This warranty is subject to the terms, exclusions, and limitations set forth in the following text.

C. LIMITED TWO YEAR WARRANTY - Enamel Finish: JØTUL warrants, to the original retail purchaser, the enamel finish on cast iron components of the Jøtul Stove or Fireplace Insert specified above against peeling or fading for a period of two (2) years from the date of purchase. This warranty is subject to the terms, exclusions and limitations set forth below.

D. LIMITED ONE YEAR WARRANTY - Gas & Electrical Components (controls, plumbing, valve, blower): JØTUL warrants, to the original retail purchaser, that those components of the Jøtul, Scan, or Atra Gas Stove or Fireplace specified above will be free of defects in material and workmanship for a period of one (1) year from the date of purchase. This warranty is subject to the terms, exclusions, and limitations set forth in the following text.

JØTUL will repair or replace (including parts & labor), at its option, any of the above components determined by JØTUL to be covered by this warranty. You must, at your own expense, arrange to deliver or ship the component to an authorized Jøtul, Scan, or Atra dealer and arrange for pickup or delivery of the component after repairs have been made. If, upon inspection, JØTUL determines that the component is covered by this warranty, the repair or replacement will be made as set forth above. This warranty is not transferable and is extended only to, and is solely for the benefit of, the original retail purchaser of the Jøtul, Scan, or Atra Gas Stove or Fireplace. This paragraph sets forth the sole remedy available under this warranty in the event of any defect in the Jøtul, Scan, or Atra Gas Stove or Fireplace.

The warranty period for any replaced component will be the remaining unexpired portion of the warranty period for the original component.

Please retain your dated sales receipt in your records as proof of purchase.

EXCLUSIONS AND LIMITATIONS

NOTICE: This warranty is void if installation or service is performed by someone other than an authorized installer, service agency or gas supplier, or if installation is not in conformance with the installation and operating instructions contained in this owner's manual or local and/or national fire and building regulations. A listing of local authorized installers, service agencies and gas suppliers can be obtained from the National Fireplace Institute at <http://www.nficertified.org/>.

This warranty does not cover the following:

- 1) Repair or replacement of parts that are subject to normal wear and tear during the warranty period or to parts that may require replacement in connection with normal maintenance. These parts include gaskets and glass (except to the extent such parts suffer damage from thermal stress).
- 2) Damage due to incorrect installations not in conformance with the installation instructions contained in this owner's manual or local and/or national fire and building regulations.

- 3) Damage due to service performed by an installer, service agency or gas supplier, unless otherwise agreed to in writing by JØTUL.
- 4) Labor or other costs associated with the repair of gas controls, plumbing, burners, log set, or sheet metal firebox beyond the warranty period.
- 5) Damage caused by unauthorized modification, use or repair.
- 6) Damage to enameled surfaces caused by improper operation or misuse, including use that is not in conformance with the operating instructions contained in this owner's manual. Such damage can typically be identified by bubbling, cracking, or discoloration of the enamel finish.
- 7) Costs incurred by travel time and/or loss of service.
- 8) Damage incurred while the Jøtul, Scan, or Atra Gas Stove or Fireplace is in transit.

IN NO EVENT SHALL JØTUL, ITS PARENT COMPANY, SHAREHOLDERS, AFFILIATES, OFFICERS, EMPLOYEES, AGENTS OR REPRESENTATIVES BE LIABLE OR RESPONSIBLE TO YOU FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR OTHER SIMILAR DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR DAMAGES TO A STRUCTURE OR ITS CONTENTS, ARISING UNDER ANY THEORY OF LAW WHATSOEVER. ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WRITTEN WARRANTY. EXCEPT AS EXPRESSLY SET FORTH HEREIN, JØTUL MAKES NO ORAL, WRITTEN OR OTHER WARRANTY WITH RESPECT TO JØTUL, SCAN OR ATRA GAS STOVES OR FIREPLACES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on the length of implied warranties. Therefore, the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

JØTUL reserves the right to discontinue, modify or change the materials used to produce the Jøtul, Scan, or Atra Gas Stove or Fireplace. JØTUL shall have the right to replace any defective component with substitute components determined by JØTUL to be of substantially equal quality and price.

The dollar value of JØTUL's liability for breach of this warranty shall be limited exclusively to the cost of furnishing a replacement component. JØTUL shall not in any event be liable for the cost of labor expended by others in connection with any defective component. Any costs or expenses beyond those expressly assumed by JØTUL under the terms of this warranty shall be the sole responsibility of the owner(s) of the Jøtul, Scan, or Atra Gas Stove or Fireplace.

No dealer, distributor, or other person is authorized to modify, augment, or extend this limited warranty on behalf of JØTUL. NO MODIFICATION OR CHANGE TO THIS WARRANTY WILL BE EFFECTIVE UNLESS IT IS MADE IN A WRITTEN DOCUMENT MANUALLY SIGNED BY AN AUTHORIZED OFFICER OF JØTUL.

An authorized installer may have been provided with certain information related particularly to the Jøtul, Scan, or Atra Gas Stove or Fireplace; however, no authorized installer or other person who may service the appliance is an agent of JØTUL. No inference should be made that JØTUL has tested, certified, or otherwise pronounced any person as qualified to install or service the appliance. JØTUL shall not be liable or otherwise responsible for any error or omission by a person installing or servicing a Jøtul, Scan, or Atra Gas Stove or Fireplace.

If you believe your Jøtul, Scan, or Atra Gas Stove or Fireplace is defective, you should contact your nearest authorized Jøtul, Scan, or Atra dealer, who will process a warranty claim. IN ORDER TO QUALIFY FOR WARRANTY COVERAGE, JØTUL MUST RECEIVE NOTICE OF A POSSIBLE DEFECT WITHIN SIXTY (60) DAYS OF THE DATE THE DEFECT IS FIRST DISCOVERED, OR REASONABLY COULD HAVE BEEN DISCOVERED.

This warranty is given by Jøtul North America, Inc.,
55 Hutcherson Drive, Gorham, Maine 04038 USA

Jøtul GF 300 CF

Illustrated Parts Breakdown

ONLY USE REPLACEMENT
PARTS PROVIDED BY AN AU-
THORIZED JØTUL DEALER.

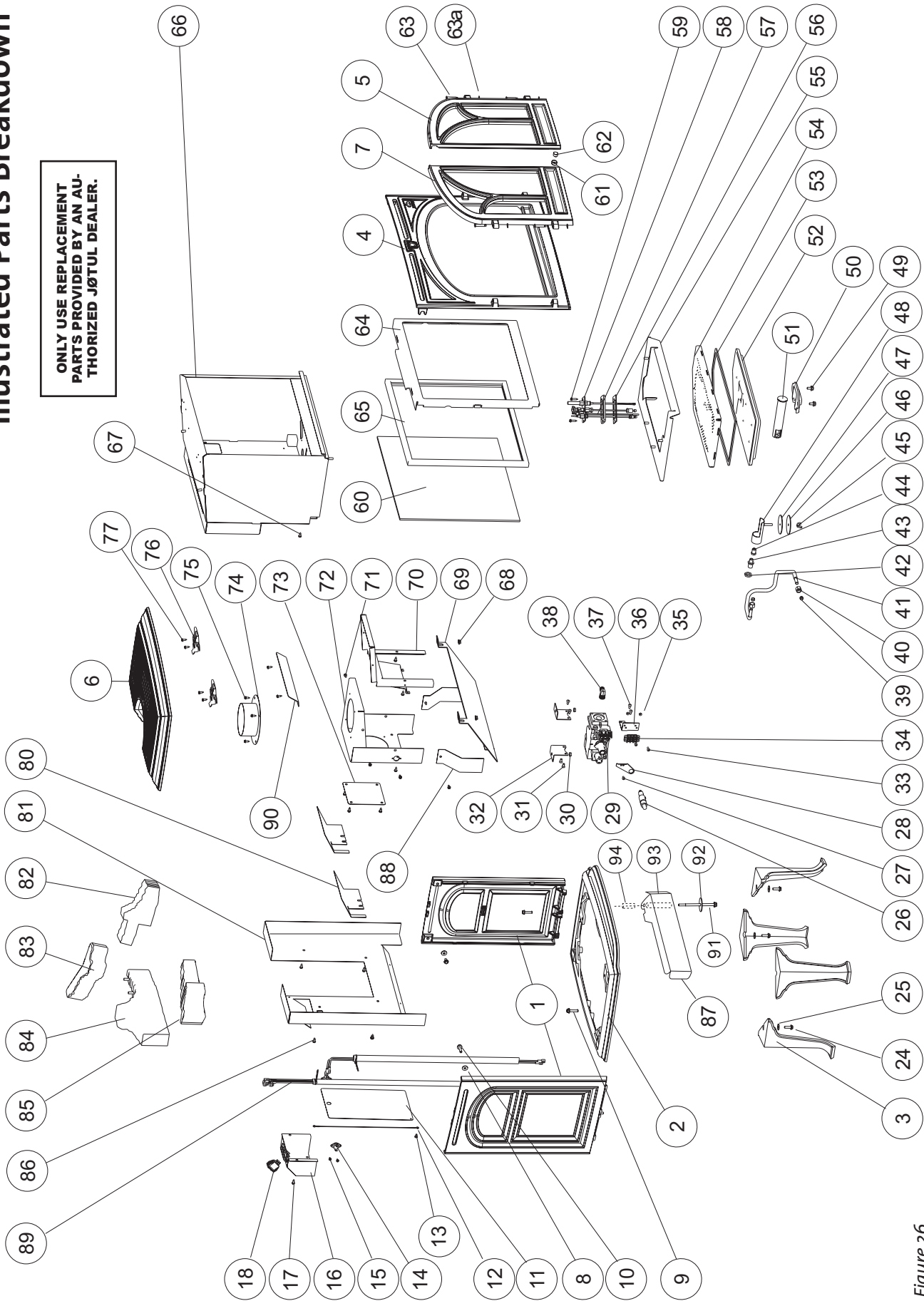


Figure 26.

Jøtul GF 300 CF Parts List

Cast Iron Parts	Matte Black	Blue Black Enamel	Ivory Enamel	Brown Majolica Enamel	Green Majolica Enamel
1. Side Plate	10463292	10463227	10463229	10463247	10463249
2. Base Plate	10390092	10390027	10390029	10390047	10390049
3. Legs, (4)	10192592	101966	102251	10192547	10192549
4. Front Assembly*	157461	157462	157463	157464	15746472
6. Top Plate	10463192	10463127	10463129	10463147	10463149

* includes #4, 5, 7, 63-63a

8. Washer, M6	120004	64. Glass Frame	22252492
9. Bolt, M6 x 25 mm (Side to Base)	118019	65. Glass Gasket, Tadpole	129124
10. Bolt, M6 x 16 mm (Side to Front)	99625	66. Firebox, Heat Exchanger	221192
11. Rating Data Plate, CE	222522	67. Screw, #8 x 1/2" Blk	117917
12. Lanyard, Rating Plate	129159	68. Nut, M6 Flange (2)	117968
13. Rivet, 1/8"	117946	69. Exhaust Baffle	220763
14. Spill Switch	220916	70. Inner Draft Hood	220914
15. Screw, 7 x 1/2" phillips (2)	118015	71. Screw, #8 x 1/2" Blk (4)	117917
16. Switch Box	220765	72. Upper Draft Hood	222519
17. Screw, #8 x 1/2" slotted hex	117917	73. Draft Hood Cover Plate	222520
18. Rocker Switch	129153	74. Starter Collar, 5" dia.	222514
24. Bolt, M6 x 20 mm (Leg to Base, 4)	117117	75. Screw, #8 1/2" Blk (4)	117917
25. Washer, M6 Fender	120004	76. Glass Frame Latch	129135
26. Ignitor	3902573	77. Screw, #8 1/2" Blk (4)	117917
27. Screw, M4 x 8 phillips	117920	80. Controls Heat Shield, (2)	220918
28. Ignitor Bracket	3902576	81. Rear Shroud	220764
29. Gas Valve, NG - Hi Temp, 50% TD	222263	82. Right Log	220729
30. Nut, M6 Flange	117968	83. Middle Log	220730
31. Screw, 10-32 x 3/8 phillips (4)	117911	84. Rear Log	220727
32. Valve Bracket (2)	220721	85. Left Log	220728
33. Screw, M4 x 12 phillips (2)	117921	86. Screw, #8 x 1/2" Blk (4)	117917
34. Terminal Block, 3 Pole	118028	87. Control Door	221187
35. Terminal Block Bracket	220983	88. Air Deflector, Lower Rear	220979
36. Nut, M4	117922	89. Wire Harness Assembly	155604
37. Screw, 10-32 x 3/8" phillips (2)	117911	90. Air Deflector, Top	220978
38. 8mm x 3/8" Adaptor	220168	91. Hinge Bolt, M6 x 130 mm Hex Hd	118033
39. Compression Sleeve (2)	129463	92. Fender Washer .250 x 1.500dia.	118029
40. Compression Nut (2)	129464	93. Spacer, .375 o.d. x 3.172	118040
41. Main Gas Flex Tube, 5/16"	129462	94. Spacer, .375 o.d. x .172	118039
42. Jam Nut	129152	95. Ember Stones, 4 oz. * (included in Logset)	220702
43. Orifice Holder	220643	96. *Orifice Retainer	221367
44. Burner Orifice, NG G20 - 2.35	129801	97. Burner Assembly, Complete	155336
Burner Orifice, LP G31 - 1.40	129804	98. Replacement Glass Kit	155599
45. Wing Nut, M6	117975		
46. Washer, 2 1/4" O.D.	118023		
47. Gasket, 2 1/4" O.D.	220734		
48. Air Shutter	220791		
49. Bolt, M6 x 20 (Tube Holder to Burner)	117117		
50. Tube Holder, Cast Iron	103992		
51. Venturi Tube	220631		
52. Burner Base, Cast Iron	103991		
53. Burner Gasket	220633		
54. Burner Plate, Stainless Steel	220545		
55. Burner Skirt	220766		
56. Pilot Gasket	129670		
57. Pilot Spacer	220546		
58. Pilot Assembly, NG	129471		
Thermopile	3094527		
Thermocouple	129766		
Ignitor	3902573		
59. Screw, #8 x 3/4" sheet metal (2)	117986		
60. Glass, Ceramic	220576		
61. Door Magnet	224909		
62. Magnet Cap, Hi-temp vinyl	224905		
63. Door Hinge Pin (4)	122075		
63a. Hinge Washer 12mm OD x 6mm ID	117588		

*not illustrated

Accessories

Antique Brick Panel Kit	155648
Fuel Conversion Kit to Propane / G31	156472
Fuel Conversion Kit to Natural Gas / G20	155473
Screen	129174
Top Filler Plate - Matte Black (for Rear Vent)	10406592
Top Filler Plate - Blue Black Enamel	10406527
Top Filler Plate - Ivory Enamel	10406529
Top Filler Plate - Jøtul Iron Paint	10406585
Top Filler Plate - Brown Majolica Enamel	10406547
Top Filler Plate - Green Majolica Enamel	10406549

January 2, 2013
138783_2

This appliance must be installed in conformance with local and national building regulations. Before beginning the installation, it is important that these instructions be carefully read and understood. Jøtul maintains a policy of continual product development. Consequently, products may differ in specification, color or type of accessories from those illustrated or described in various publications.

Jøtul AS
P.O. Box 1411
N-1602 Fredrikstad
Norway

Jøtul North America, Inc.
55 Hutcherson Drive
Gorham, Maine 04084

Jøtul UK Limited
Unit 1, The IO Centre, Nash Road
Park Farm North, Redditch,
Worcestershire, UK B98 7AS
Tel :01527 506010 Fax: 01257 528181
www.jotuluk.com

