ACQUISITIONS

The Art of Fire

Bespoke

(MP10-001)

Decorative fuel effect appliances for use with Natural Gas

Installation, Servicing & User Instructions

THESE INSTRUCTIONS TO BE LEFT WITH THE USER

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Warranty:

Acquisitions Fireplaces Limited takes pride in using and supplying high quality materials and parts. However, should any defect in either the workmanship or the materials used become apparent within one year of purchase, Acquisitions Fireplaces Limited will replace or repair the item, free of charge, at a time that is convenient to you, our valued customer.

In order to ensure your safety, warranty claims must be made through the retailer from whom the product was purchased.

Under UK law, the purchaser's contract of sale is with the retailer. As such, Acquisitions Fireplaces Limited cannot enter into discussions with the purchaser until the retailer has inspected any claim and validated it.

Acquisitions Fireplaces Limited reserve the right to make a charge for any service call or to refuse service when a defect is due to incorrect use or installation.

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GENERAL INFORMATION

1. Conformity

Because Acquisitions Fireplaces Limited. believe in the use of modern technology and materials, they reserve the rights to modify or change the layout and controls of their burner trays, at anytime, whilst still complying with current specifications.

Therefore these 'instructions' are a general guide only and are not specifically in compliance with the shape or size of your appliance. These units must be installed in line with current 'GAS SAFETY (INSTALLATION AND USE) REGULATION' applicable to the country of use.

Warning

Only use the approved refractories supplied with this appliance.

NOTE: For the safe and efficient operation of this appliance, it must be installed inline with current British Standard (BS 5871: PART 3) or the equivalent standard for the country of use and take into account the local and national building regulations or bye-laws where necessary.

NOTE: This appliance has been designed for use with NATURAL GAS only. Prior to installation, ensure that the distribution conditions (identification of the type of gas and pressure) and the adjustment of the appliance are compatible.

NOTE: The fire must not be operated with either the white fibre blanket, pumice or black ceramic board (dependent upon model) removed from the burner tray.

NOTE: Acquisitions Fireplaces Limited will **NOT** accept any liability or responsibility for an appliance that has been installed outside the technical data specified in this manual and is not in agreement with the above statements.

2. General Notes

The Bespoke is a Decorative Fuel Effect (D.F.E.) primary aerated gas fire, designed to comply with BS EN 509:2000 and is intended for decorative use only. It has been designed to operate on **Natural Gas** only and must be fitted on a non-combustible hearth in a standard builders opening, with either a Class 1 (7") or Class 2 (5") chimney/flue (subject to appliance size) and satisfy the ventilation requirements of BS 5871 – Part 3.

This appliance conforms to the relevant Safety Standards but during use, there are naked flames and parts of the casing become hot.

Warning

If the appliance is fitted with a permanent guard (to BS 6778), no part of the guard should be permanently removed so that access to the flame is minimized, as it does not give full protection for young children, the elderly or the infirm.

This appliance is not fitted with an integral guard. In normal use consideration may be given to the use of a guard conforming to BS 6678 or BS 6539 such that the access to the flame is minimised and for the protection of young children, the elderly or the infirm.

NOTE: The larger of the units manufactured have gas consumption similar to that of a small boiler (i.e. 50,000 BTU). Therefore, it is essential that the gas supply pipework be of a size that will allow for the correct flow rate (see **TECHNICAL DATA** for required information). Ideally, the 8mm connection pipe to the burner should be as short as possible and the maximum length should not be greater than 1m. Also ensure that the isolating tap does not have a reduced bore.

NOTE: The Basket or Fret used with this appliance will become hot during use. Care should be taken when operating the controls.

This appliance must be installed by a suitably qualified person in accordance with the rules in force for the country in which the appliance in being fitted.

It is recommended that a competent, suitably qualified person should service the appliance annually.

The flue should be swept before the appliance is installed.

It is recommended that the flue should be swept on a yearly basis to ensure that all products of combustion are entering the flue or canopy and that there is no excessive build up of soot.

Where it has been necessary to fit a room a vent, said vent should be checked on a regular basis to ensure that there is no obstruction.

Where it is necessary to remove the refractories (fuel effect) for cleaning purposes, this must be done using a soft brush (do not use a vacuum cleaner). When replacing the refractories, this must be done as per the layouts in these instructions. Under no circumstances should the layout be changed or more refractories added or taken off.

Rubbish and /or waste materials must not be thrown onto fuel bed and nor should it be otherwise disturbed.

The pilot and flame sensing device fitted to this fire, also acts as an atmospheric sensing device which shuts off the appliance if the evacuation of the products of the combustion is interrupted.

If the fire shuts off, restart the main burner as detailed in **Section 10**. If the appliance fails to relight or repeatedly cuts off, then do not use and inform a qualified person.

RCF Advice:
This product may use components containing Refractory Ceramic Fibres (RCF), which are main-made vitreous silicate fibres. Excessive exposure to the fine dust of this material may cause irritation to eyes, skin and respiratory tract.

Therefore during installation and servicing we recommend that you use a HEPA filtered vacuum cleaner to remove any dust and soot accumulated in and around the fire before and after working on the fire, to ensure that the release of fibres from these RCF articles is kept to a minimum.

You should follow the normal hygiene rules of not smoking, eating or drinking in the work area.

When replacing components containing Refractory Ceramic Fibres (RCF), we recommend that the replaced items are not broken up, but are sealed within heavy duty polythene bags, clearly labelled as RCF waste and may be disposed of in suitably licensed landfill sites.

It should be noted that exposure to the fibres is unlikely in normal use.

2.1. Flue Specifications

All appliance sizes have been tested and approved with a flue of 7" (178mm) diameter and having a minimum effective height of 10ft (3m).

Appliance sizes A and B may also be used with a 5" diameter flue subject to the fire being an inset type and NOT a basket unit. However, in some cases a chimney fan may be required to clear the products of combustion.

2.2. Ventilation Requirements

Sizes A and B are rated below 7kW, therefore no vent is required if the flue flow for the clearance of the products of combustion is correct. However, if spillage is detected using the method defined for spillage test, then additional ventilation may be required.

All other appliance sizes (7kW or over) will require purpose provided ventilation in the room where the appliance is located, in accordance to the rules in force.

All ventilation must comply with the rules in force for the country in which the appliance is fitted.

3. Technical Data

3.1. Gas Type G20 at 20mbar – Categories I_{2H}, I_{2E} and I_{2E+}

Size	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**
Gas Type	G20								
Gas Category	I_{2H}, I_{2E} & I_{2E+}								
Surface Area (cm^2)	250/ 450	451/ 650	651/ 850	851/ 1050	1051/ 1250	1251/ 1450	1451/ 1650	1651/ 1850	1851/ 2500
Heat Input (Gross kW)	6.00	6.95	8.50	10.50	11.50	13.00	14.00	15.25	19.60
Flow Rate (m^3/h)	0.55	0.65	0.81	0.90	1.09	1.24	1.38	1.44	1.85
Working "P" (mbar)	20								
Control Valve (Manual Option)	Seagas A5 or BM733 / NGC 6803 (optional upgrade)				BM733 / NGC 6803				n/a
Control Valve (Remote Option)	GV34 or GV60								
Control Valve (Wall Control Option)	GV60								
OxyPilot	OP9039				P4 12D or P4 22D (detached valves)				
Injector Qty	1	1	1	1	1	1	1	1	1
Injector Size	16/54	16/65	16/65	16/90	16/110	16/110	16/120	16/170	16/170
Gas Connection Size	8mm								
Appliance Mass	4.5	5.9	7.5	9.5	13.0	15.5	17.5	19.8	21.5
Data Label	Affixed to burner tray								

Table 1

NOTE: Size circled corresponds to this appliance.

NOTE: Various types of control valves and pilots (oxy depletion devices) can be fitted and used with each size of burner. Check which one has been used before ordering spares. Refer to the **Servicing** section.

3.2. Gas Type G25 at 25mbar – Categories I_{2L}

Size	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**
Gas Type	G25								
Gas Category	I_{2L}								
Surface Area (cm^2)	250/ 450	451/ 650	651/ 850	851/ 1050	1051/ 1250	1251/ 1450	1451/ 1650	1651/ 1850	1651/ 2500
Heat Input (Gross kW)	5.75	6.40	7.6	9.7	10.23	11.78	12.53	14.13	18.0
Flow Rate (m^3/h)	0.64	0.71	0.84	1.13	1.13	1.3	1.38	1.54	1.97
Working "P" (mbar)	25								
Control Valve (Manual Option)	Seagas A5 or BM733/ NGC 6803 (optional upgrade)				BM733 / NGC 6803				n/a
Control Valve (Remote Option)	GV34 or GV60								
Control Valve (Wall Control Option)	GV60								
OxyPilot	OP9039				P4 12D or P4 22D (detached valves)				
Injector Qty	1	1	1	1	1	1	1	1	1
Injector Size	16/540	16/650	16/650	16/900	16/1100	16/1100	16/1200	16/1700	16/1700
Gas Connection Size	8mm								
Appliance Mass									
Data Label	Affixed to burner tray								

Table 2

NOTE: Size circled corresponds to this appliance.

NOTE: For Detached BM Control Test Pressures, please refer to **Table 5** on **Page 16**.

3.3. Alternate Specification for Higher kW Ratings

Size	**C***	**D***	**E***	**C***	**D***	**E***
Gas Type	G20			G25		
Gas Category	I_{2H}, I_{2E} & I_{2E+}			I_{2L}		
Surface Area (cm^2)	651/ 850	851/ 1050	1051/ 1250	651/ 850	851/ 1050	1051/ 1250
Heat Input (Gross kW)	13.5	15.0	16.0	12.1	14.3	14.5
Flow Rate (m^3/h)	1.3	1.44	1.5	1.38	1.54	1.58
Working "P" (mbar)	20			25		
Control Valve (Manual Option)	BM733 / NGC 6803			BM733 / NGC 6803		
Control Valve (Remote Option)	GV34 or GV60			GV34 or GV60		
Control Valve (Wall Control Option)	GV60			GV60		
OxyPilot	P4 12D or P4 22D (detached valves)			P4 12D or P4 22D (detached valves)		
Injector Qty	1	1	1	1	1	1
Injector Size	16/1200	16/1500	16/1700	16/1200	16/1500	16/1700
Gas Connection Size	8mm			8mm		
Appliance Mass						
Data Label	Affixed to burner tray			Affixed to burner tray		

Table 3

NOTE: Size circled corresponds to this appliance.

NOTE: Various types of control valves and pilots (oxy depletion devices) can be fitted and used with each size of burner. Check which one has been used before ordering spares. Refer to the **Servicing** section.

3.4. Specification for Remote Control Package

GV34 Remote Control Package		
Ultrasound Transmission	Range	0.5m to 10m
	Frequency	ON – 40.5kHz OFF – 40kHz
Ambient Temperature	Transmitter & Receiver	Maximum 60^0 C
	Connecting Cables	Maximum 180^0 C
Batteries		
Handset	1 x 9v block	Alkaline recommended
Receiver	4 x 1.5v AA	Alkaline recommended
GV34 Valve		
Maximum Operating Inlet Pressure		50mbar
Capacity	1.2 m^3/h air at $\triangle$P	2.5mbar
Ambient Temperature Range		0 to 80^0 C

Table 4

GV60 Remote Control Package		
Infrared Transmission	Range	0.5m to 5m
Ambient Temperature	Transmitter & Receiver	Maximum 60^0 C
	Connecting Cables	Maximum 180^0 C
Batteries		
Handset	1 x 9v block	Alkaline recommended
Receiver	4 x 1.5v AA	High quality Alkaline, Lithium or Nickel oxy hydroxide recommended
GV60 Valve		
Maximum Operating Inlet Pressure		50mbar
Capacity	1.2 m^3/h air at $\triangle$P	2.5mbar
Ambient Temperature Range		0 to 80^0 C

INSTALLATION INSTRUCTIONS

4. Installation Procedure

4.1. Contents Checklist

1 x Installation, Servicing & Users instructions.
1 x Burner (with fibre blanket, ceramic board or pumice pellets).
1 x Nut and olive for 8mm inlet pipe.
Coals/Logs/Pebbles (if supplied).
Pack of Pumice Pellets (if supplied).

Additional Parts Supplied with Detached BM / NGC Control model:
1 x Valve Mounted Bracket.
1 x Detached BM733 / NGC 6803 Control Valve (with 850mm long piezo lead).
1 x P4-22D Co-pilot (with 1 metre long thermocouple lead).
1 x M4 x 10mm Valve locating screw.
1 x 1 metre 8mm Copper Pipe.
1 x 1 metre 4mm Copper Pipe.

Additional Parts Supplied with Remote Control (GV34 & GV60) models:
1 x Remote Control handset.
1 x Remote Control Receiver (connected to burner).
1 x 9v battery (for handset).
4 x AA batteries (for battery operated receiver only).
1 x Mains transformer (for mains operated receiver only).
1 x wall switch (optional for GV60 full sequence models).
1 x Heat shield (if supplied).

4.2. Compatibility

Before commencing installation check that the local distribution conditions (identification of type of gas and pressure) and the adjustment of the appliance are compatible.

1) In your own interest and safety it is law that all gas appliances are installed by a competent person, in accordance with the current Gas Safety (Installation and Use) Regulations applicable in the country of use. In addition, the installation must be carried out in accordance with the relevant and current local and national specifications and building regulations.

2) The fireplace surround, hearth and builders opening shall be of non – combustible material. Hearth and Clearance dimensions must comply with the requirements of BS 5071:PART 3

Warning

This appliance must not be fitted in any room where steam is present (e.g. Bathroom)

3) The appliance must be mounted behind a non-combustible hearth and be 50mm (2") above floor level to discourage the over-laying of carpets or rugs etc.

4) There must be a 125mm (5") clearance underneath the appliance if it uses either a GV34 or GV60 valve unless using the heat shield supplied.

5) The minimum clearance height above fireplace opening for a combustible shelf (having a depth of 150mm (6") is 200mm (8"); add 12mm (1/2") for each additional 25mm (1") depth of shelf.

Warning

Please note that the soft wall coverings may be come discoloured when close to a heating appliance – this should be born in mind.

6) When installed into a Class 2 flue system, the minimum flue opening for appliance models A and B is 125mm (5").

7) When installing into a Class 1 chimney, the minimum flue opening is 178mm (7") diameter 250cm^2 (38½ sq. inches) and a minimum effective height 3m (10ft). Provided that the flue which is to serve this appliance satisfies the requirements of BS 5871:PART 3 then the terminal in-line fan satisfying BS5440:PART 1 may be used to improve flue draught.

Warning

The flue must **NOT** be shared with any other appliance.

8) All chimney dampers or restrictions should be removed or permanently fixed in the open position.

Warning

If the fireplace has previously been used with solid fuel the flue should be swept clean prior to installation and a flue test in accordance with national regulations is carried out.

9) The room in which the appliance is to be fitted must have permanent air vent with a minimum effective area of 100cm^2 (15½ sq. inches) and be accessible to the outside air, unless specifically stated otherwise by the manufacturer.

NOTE: Vent should be checked on a regular basis to ensure that there is no obstruction.

4.3. Installation (Hole in the Wall)

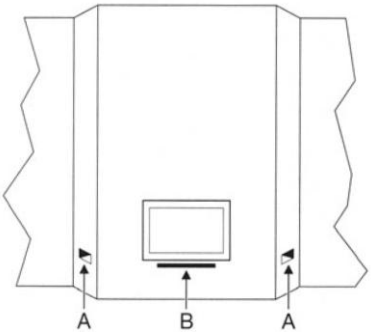


Figure 1

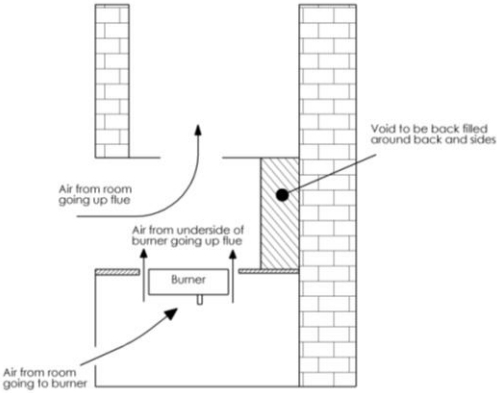


Figure 2 – Correct Air Flow

4.3.1. Ventilation

When installing a raised chamber fire, it is critical to ensure that the ventilation for the fire (for combustion and cooling purposes) is carefully thought through. Failure to provide suitable ventilation may invalidate your warranty.

For Cooling Purposes

The requirement is that air is drawn from the room into the cavity below the burner and up through the vents at the back of the chamber, then up the flue. This will keep the control equipment below 70^0c – the manufacturer's recommendation.

Refer to the diagrams above, which identify where the ventilation holes may be located. It is recommended that location "A" is chosen for aesthetic reasons. A proprietary grille should be used. The ventilation must be at least 100cm^2 free area in total.

In all cases it is essential that the void shown in **Figure 2** above is sealed as shown.

For Combustion Purposes

The requirement is that air is drawn into the chamber from the room and then up the flue.

1) Decide where the gas supply will feed to and from.

2) Decide where the steel chamber will sit. If any incandescent materials are at least 225mm above the floor, a hearth may not be required (but refer to the next point below).

3) However, Building Regulation Document J, paragraph 3.40 currently states: *An appliance shall be placed on a hearth unless:*

a) They are installed so that every part of any flame or incandescent material will be at least 225mm above the floor; or

b) *The manufacturer's instructions state that a hearth is not required.*

It is recommended that a hearth is used with this appliance. Should you decide that a hearth is not required, then consideration should be given to the safety of the users of the room.

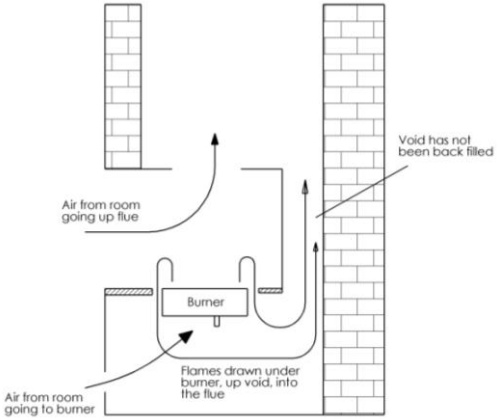


Figure 3 – Incorrect Air Flow

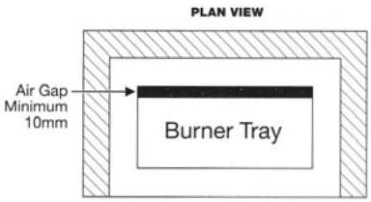


Figure 4

4.4. Pre-Installation Checks

4.4.1. Flue soundness

Using a smoke bomb, carry out a flue test to check the effectiveness of the flue and ensure that there is no leakage into another part of the premises (including any loft) or, as appropriate other adjoining premises.

NOTE: Although a smoke pellet produces a large amount of smoke the volume is small compared with the combustion products from an appliance. Clearance of smoke from a pellet is therefore no guarantee that the products of combustion from the appliance will clear. This must be tested after the installation is completed by carrying out a spillage test.

Warning

Smoke escaping anywhere other than the correct terminal, or a down-draught or no-flow condition indicates an unsatisfactory flue. The flue may need attention - seek expert advice.

4.4.2. Ventilation

In line with **Section 2.2 - Ventilation Requirements**, make sure that the room or space where the appliance is located is adequately ventilated and that the means of ventilation is suitable.

NOTE: The size and type of ventilation should take into account any other gas appliance that maybe fitted in the room or space.

4.4.3. Gas Soundness

It is a requirement that an isolation valve or valves are fitted adjacent to the appliance which when closed allows gas soundness checks to be carried out on the installation pipe work and also allows the complete burner and control assembly to be disconnected for maintenance or repair in accordance with national regulations.

NOTE: Check that an adequate size gas isolation valve is fitted and working.

4.4.4. Ignition Check

The pilot and ignition unit is mounted to the front and centre of the main burner unit. Check by observation that a spark is produced between the pilot thermocouple/burner head and the piezo electrode by using the lighting procedure, defined in **Section 10 - Control Systems.**

4.5. Burner Installation

1) The fire should be fitted under the flue opening so that no part of the fire bed protrudes beyond the fireplace opening. If your appliance is fitted with legs it is a free standing type and is to be secured to the hearth or fireplace floor.

2) Place appliance centrally into fire opening so that the back of the burner tray is a MINIMUM of 10mm from the rear wall of the fireback insert.

3) For **Remote control** and **Wall switch control** models, fold and mount the heat shield (where supplied/required) in an appropriate place, underneath or adjacent to the burner.

4) For **Wall switch control** models, the wall switch may be fitted into an appropriately sized flush or surface mounted box. Wiring may then be run to where the receiver unit is to be mounted.

5) For **Mains operated receiver** models locate the transformer in a suitable position (this must not be under the fire) where it can be wired into the mains electric supply and the low voltage lead connected to the receiver. Transformers must be connected to the mains supply in accordance to the rules in force.

6) Before securing the burner into position, run the gas pipe as appropriate.

7) Dependent upon the application, use one of the following methods to make provision for burner fixings.

4.5.1. Baskets and Cast Inserts

The burner tray must be appropriately secured into either the basket or cast insert, so that it cannot move during operation.

NOTE: If appliance is to be used in conjunction with a free standing basket, place burner tray into basket and secure with fixing provided then position both burner tray and basket centrally into the hearth opening.

4.5.2. Standard Inserts (Burners with Legs)

If using a proprietary flue box, burner fixings may be provided. Alternatively, proceed as follows:

1) Mark the hearth floor through the fixing holes provided in appliance mounting legs.

2) Remove the appliance and using a suitable masonry drill, drill marked positions and fit suitable rawlplugs.

3) Replace and realign the appliance and/or secure into position with suitable screws.

4.6. Installation of Detached BM / NGC Valve (if supplied)

Sizes E, F, G & H have been approved for installation with a BM733 / NGC 6803 detached (remotely mounted) control valve. The following instructions should be followed if this is supplied.

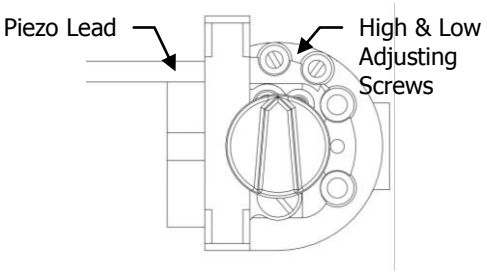


Figure 5 – BM733 / NGC 6803 Valve with 850mm Piezo lead

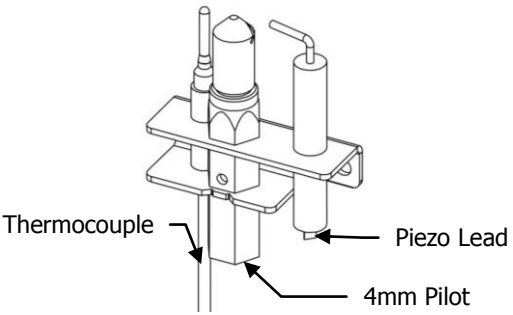


Figure 6 – Co-Pilot P4-22D

4.6.1. Connection to Gas Supply (for Detached BM / NGC Valve)

Size	**E**		**F**		**G**		**H**	
Position	High	Low	High	Low	High	Low	High	Low
0.5 metre pipe	9.1	3.6	11.6	4.0	11.7	3.4	8.7	2.3
0.75 metre pipe	9.0	3.3	11.8	3.9	11.5	3.2	8.5	2.1
1.0 metre pipe	9.1	3.3	11.7	4.0	11.4	3.2	8.4	2.1

Table 5 – Burner Test Pressures (mbar)

NOTE: The Piezo lead from the BM733 / NGC 6803 Valve is 850mm Long. This must be taken into account when positioning the BM valve mounting bracket; an allowance must also be made for connecting the piezo lead to the co-pilot electrode.

1) Fold, locate and fix the valve mounting bracket position in position taking into account the note above.

2) Using the M4 fixing screw provided, mount the valve to the mounting bracket.

3) Connect the piezo lead to the pilot electrode.

4) Using the **8mm** diameter copper pipe provided, connect from the **gas outlet** to the fitting provided on the burner tray. Care must be taken to ensure that there are no sharp bends, kinks or burrs left in or on the pipe.

5) Using the **4mm** diameter copper pipe provided, connect from the **pilot outlet** to the **co-pilot inlet**. Care must be taken to ensure that there are no sharp bends, kinks or burrs left in or on the pipe.

6) Connect the **Thermocouple** from the pilot to the rear of the **control valve**.

7) Using **8mm** copper pipe, connect from **the gas inlet** of the control valve to the **gas isolating tap** adjacent to the appliance, so that when the tap is closed, the appliance is totally isolated.

NOTE: Soft soldered joints must not be used beneath the burner tray.

8) Turn on the gas supply and check all the joints made between the gas isolating tap and the gas inlet on the valve for gas soundness (the test should be carried out in accordance with the current Gas Safety Regulations).

9) Light the appliance and set the valve to the low position.

10) Check all gas joints made from the outlet of the control valve to the pilot and burner tray test point elbow for gas soundness (the test should be carried out in accordance with the current Gas Safety Regulations).

11) Turn the appliance off.

12) The control valve has been supplied set to the fully open position. Using 2 manometers at the pressure test points, relight the appliance, then check the **Burner test pressure** in both the high and low positions (using **Table 5**).

13) If necessary, adjust both the high and low gas flow rates by turning the adjustment screws clockwise, so that the correct burner test pressure is achieved.

14) After setting the flow rates, turn off the gas supply, reseal the test pressure points and seal the adjusting screws with a dot of paint.

15) Re-light the appliance and check for gas soundness, in accordance with current Gas Safety Regulations.

4.7. Connection to Gas Supply (all other valves)

1) Purge the gas supply pipe work to remove air and debris BEFORE connection of the fire. The 8mm pipe should be used to connect valve to an isolating tap, which must be adjacent to the appliance (so that when tap is closed appliance is totally isolated).

NOTE: Soft soldered joints should not be used beneath burner tray.

Warning

Flexible pipe must not be used.

2) Turn on the gas supply and check for gas soundness (tests should be carried out in accordance with current Gas Safety Regulations).

4.8. Gas Control Installation

The following procedures describe additional work required depending upon the specific control method supplied with the appliance.

4.8.1. Remote Control (GV34)

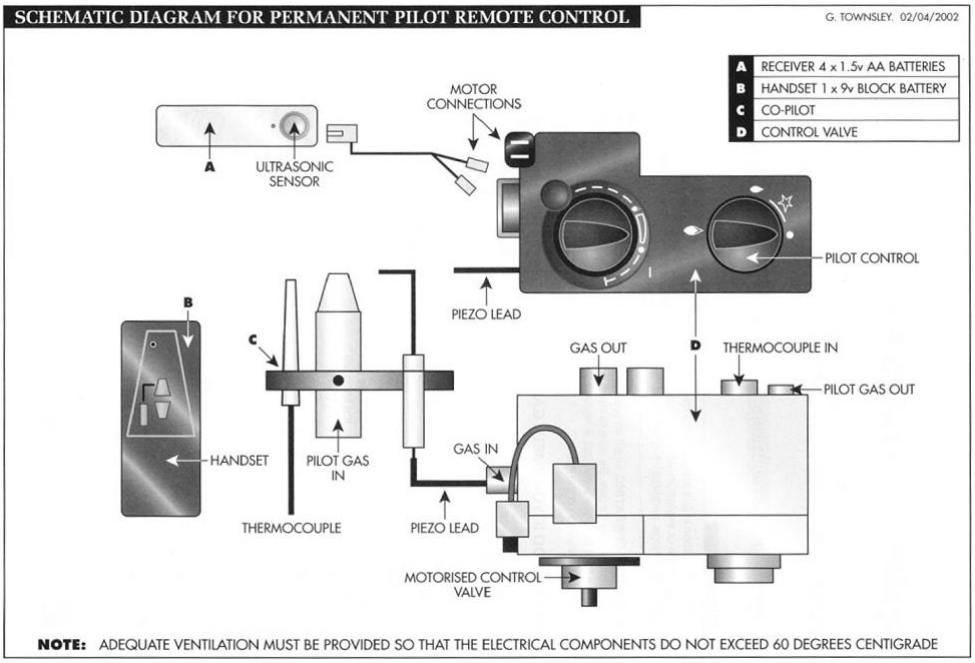


Figure 7

1) Connect the 800mm lead provided between the motor connections on the Control Valve and the Receiver.

2) Insert 4 x 1.5v AA alkaline batteries into the receiver.

3) Place the receiver unit into position (within heat shield if used).

4) Insert and connect 1 x 9v alkaline battery into the handset.

Warning

The free air circulation below the burner must be such that the temperature of any electrical or electronic component does not exceed 60^0 centigrade.

NOTE: In line with the best engineering codes and practices, it is essential that the electrical wiring is protected from accidental damage. It is advised that the flexible cables are placed in a plastic tube or sheath especially where the wiring must pass through a wall or behind a fireplace surround. All wiring situated below the burner should be placed so that the maximum clearance is obtained from any potential hotspots.

NOTE: The Receiver can be fixed to the floor beneath the appliance, so long as there is adequate ventilation and no interference to the Handset signal.

4.8.2. Remote Control (GV60)

1) The GV60 remote control comes pre-wired. When installing make sure that the ignition cable and infra-red sensor cable are kept apart by a minimum of 20mm.

2) **If using battery operated receiver:** Insert 4 x 1.5v AA high quality Alkaline, Lithium or Nickel oxy hydroxide batteries into the receiver.

3) **If using mains operated receiver:** Ensure that there are no batteries in the receiver unit, and then connect the transformer lead into the power inlet socket of the receiver.

Warning

Using the mains transformer whilst batteries are installed in the receiver unit may cause damage to both the batteries and the receiver.

4) Place the receiver unit into position (within heat shield if used).

5) Insert and connect 1 x 9v alkaline battery into the handset.

Warning

The free air circulation below the burner must be such that the temperature of any electrical or electronic component does not exceed 60^0 centigrade.

NOTE: In line with the best engineering codes and practices, it is essential that the electrical wiring is protected from accidental damage. It is advised that the flexible cables are placed in a plastic tube or sheath especially where the wiring must pass through a wall or behind a fireplace surround. All wiring situated

below the burner should be placed so that the maximum clearance is obtained from any potential hotspots.

NOTE: The Receiver can be fixed to the floor beneath the appliance, so long as there is adequate ventilation and no interference to the Handset signal.

4.8.3. Wall Switch Control (GV60)

1) The GV60 remote control receiver unit comes pre-wired. When installing make sure that the ignition cable and infra-red sensor cable are kept apart by a minimum of 20mm.

2) **If using battery operated receiver:** Insert 4 x 1.5v AA high quality Alkaline, Lithium or Nickel oxy hydroxide batteries into the receiver.

3) **If using mains operated receiver:** Ensure that there are no batteries in the receiver unit, and then connect the transformer lead into the power inlet socket of the receiver.

Warning

Using the mains transformer whilst batteries are installed in the receiver unit may cause damage to both the batteries and the receiver.

4) Connect the lead from the wall switch into the receiver.

5) Place the receiver unit into position (within heat shield if used).

6) If the handset is also required, insert and connect 1 x 9v alkaline battery into the handset.

Warning

The free air circulation below the burner must be such that the temperature of any electrical or electronic component does not exceed 60^0 centigrade.

NOTE: In line with the best engineering codes and practices, it is essential that the electrical wiring is protected from accidental damage. It is advised that the flexible cables are placed in a plastic tube or sheath especially where the wiring must pass through a wall or behind a fireplace surround. All wiring situated below the burner should be placed so that the maximum clearance is obtained from any potential hotspots.

NOTE: The Receiver can be fixed to the floor beneath the appliance, so long as there is adequate ventilation and no interference to the Handset signal.

4.9. Fuel Bed Installation

Refer to the appropriate section within **Section 9** in the **Users Instructions**, starting on **Page 28** to lay out the fuel bed.

5. Function Checks

5.1. Lighting the Pilot and Main Burner

1) Turn on gas supply, purge the gas line and check all gas joints for gas soundness.

Using the instructions in **Section 10** for the appropriate control system:

2) Ignite the pilot (if applicable).

3) Light the main burner and leave on high for 10 minutes.

4) Set the burner back to the low position, where the flames should remain alight.

5) Turn the burner back to the pilot only position (if applicable).

6) Turn the burner/pilot off and ensure the pilot extinguishes.

5.2. Checking the Reference Pressure

The appliance is preset to the given heat input for the inlet pressure on the Data Plate. No further adjustment should be necessary. However, the burner can be checked by fitting a pressure gauge at the Test Point on the control valve. The pressure should be checked with the appliance alight and the control set at 'HIGH' after checking pressure, turn off appliance, remove pressure gauge, replace test point seal and check gas soundness.

5.3. Checking for Spillage

A SPILLAGE CHECK MUST BE MADE BEFORE THE INSTALLED APPLIANCE IS HANDED OVER TO THE CUSTOMER.

This test is to be carried out with the appliance fully fitted and front grate in position.

a) Close all doors and windows of the room in which the appliance is fitted

b) Light the fire and set control to maximum and leave for five minutes.

After five minutes light a smoke match and position flush with fireplace opening, a minimum of 50mm (2") from side and a maximum of 50mm (2") from top.

The installation is satisfactory if the smoke is drawn into the chimney and out of the room. If this does not happen then leave alight for a further (10) minutes and check again

Warning

If smoke is still not drawn into the chimney, turn off and disconnect the appliance and seek expert advice.

Warning

If fire goes out under normal operation and continues to go out after relighting, has occurred and the flue should be checked.

Warning

a) The oxypilot system shall not be adjusted by the installer.
b) The oxypilot spillage monitoring system shall not be put out of operation.
c) When the oxypilot system is damaged or any of its parts exchanged only original Manufacturer's parts shall be used.

6. Commissioning

1) Check that the flue is adequate.
2) Ensure installation is gas tight.
3) Purge the installation.
4) Check the ignition system works correctly.
5) All controls operate correctly and freely.
6) Ensure that the burner pressure and gas rate are correct.
7) Any flame supervision devices operate in the correct time.
8) Carry out a spillage test on the appliance.
9) Clean area and ensure customer knows how to operate the appliance.
10) Complete the following section for final checks and handover to the customer.

7. Final Check & Customer Briefing

1) Instruct the customer on the full operation of the appliance.

2) Recommend to the customer that a competent person should service the appliance annually.

3) Recommend to the customer that on a yearly basis the flue should be swept to ensure that all products of combustion are entering the flue or canopy and that there is no excessive build up of soot and that rubbish should not be burnt on the fire or the fuel bed be disturbed.

4) Instruct the customer that the pilot and flame sensing device fitted to this fire, also acts as an atmospheric sensing device which shuts off the appliance if the evacuation of the products of the combustion is interrupted.

5) Inform the customer that if the fire shuts off to restart the main burner as detailed in **Section 10**. If the appliance fails to relight or repeatedly cuts off, then do not use and inform a qualified person.

6) The customer should be warned not to throw rubbish onto or otherwise disturb the fuel bed.

7) Where it is necessary to remove the refractories (fuel effect) for cleaning purposes, this must be done using a soft brush (do not use a vacuum cleaner). When replacing the refractories, this must be done as per the layouts in these instructions. Under no circumstances should the layout be changed or more refractories added or taken off.

8) Hand over these Instructions to the Customer.

8. Servicing

8.1. Parts List

Description	Part No	Quantity
Pilot Burner & Ignition Unit	9039	1*
Pilot Burner & Ignition Unit	P4-12D	1*
Pilot Burner & Ignition Unit	P4-22D	1*
Control Valve	GV34	1*
Control Valve	GV60	1*
Control Valve	BM733 / NGC 6803	1*
Control Valve	Seagas A5	1*

* Dependent on model/control option supplied

All servicing of this appliance is to be carried out by a competent person.

Turn off gas supply before commencing any servicing always test for gas soundness and spillage after refitting the appliance

8.2. General Maintenance

At yearly intervals turn off and allow to cool down. Check all fuel, pilot burner/ignition unit, for soot or debris deposits. These can cause imperfect flame appearance and should be removed by lightly vacuuming. Replace all misplaced coals/logs and relight.

NOTE: On the failure of either the pilot burner/ignition unit, or main control valve, have repairs carried out by a competent person.

8.3. Renewing Pilot Burner/Ignition Unit

1) Isolate the gas supply.
2) Remove all ceramics, remove front grate bars where applicable and store in a safe place
3) With reference to the relevant figure, disconnect the main 8mm gas supply pipe from control valve.
4) Remove appliance fixing screws from the fireplace floor and remove the appliance from the fireplace
5) Undo and remove the thermocouple nut from the rear of the control valve.
6) Disconnect and remove the piezo ignition wiring from the ignition electrode.
7) Undo and remove the 4mm gas supply pipe from the bottom of the pilot burner.

8) Undo and remove 2 x 4mm locating nuts/screws on the pilot/ignition unit. Remove the unit.

9) Replace with new unit and reassemble in reverse order.

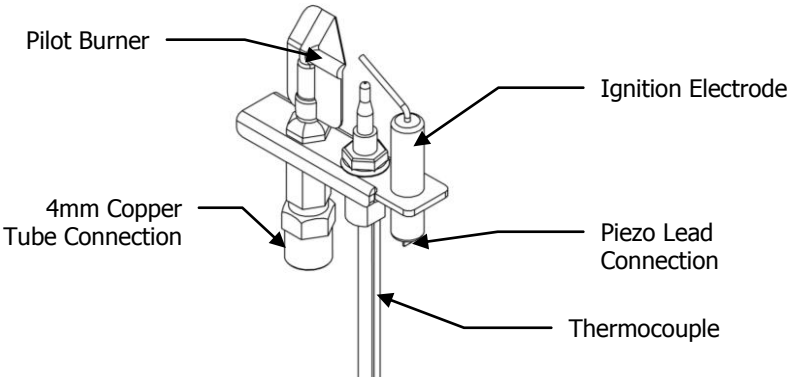


Figure 8 - Pilot Burner & Ignition Unit (9039)

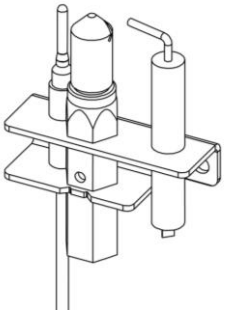


Figure 9 - Seagas Pilot Assembly (P4-22D)

8.4. Renewing Control Valve

1) Proceed as items **1** through **5** of **Section 8.3** above.
2) Undo and remove the main burner gas supply pipe.
3) Undo and remove the pilot gas supply pipe located on the body of the main valve.
4) Remove main valve unit by removing securing nut or screw.
5) Replace with new unit and reassemble in reverse order.

USER INSTRUCTIONS

9. Fuel Bed Layouts

Warning

The layout and quantity of the material contained in the fuel bed should not be changed for any of the ceramic layouts contained within these instructions.

9.1. Pumice Pellets

If specified at point of order, your burner will have been supplied with a measured bag of Pumice pellets relative to the size of the burner. Tip the pellets into a container and fill until the pellets are evenly spread and are level with the top edge of the burner. Pumice pellets will only be supplied if the burner has been requested as Pumice Based at the time of ordering.

NOTE: The pellets are of a hard compound and as such there is no need to try and compress them into the burner tray.

Lay the rest of the fuel set as per the relative layout corresponding to the size of the burner, as detailed in the following sections.

9.2. Coal Layout

The following are the coal layouts for each range and size of burner tray. It is recommended that these layouts are followed so that your appliance meets and continues to meet European Standards with regard to combustion.

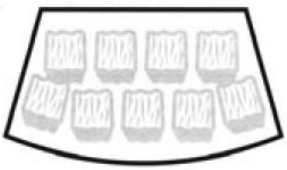
To check which layout to use, please refer to the Data plate which refers to the size of the appliance and also **Section 3**.

NOTE: These are guidelines only. For made to measure burners, look under the relevant kW heading for the correct amount of coals. Do not use more that the stated amount.

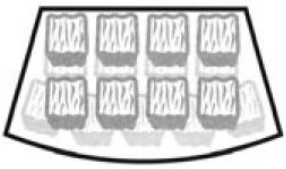
9.2.1. Size 'A' (6.00kW)

Total of 20 coals in 3 layers

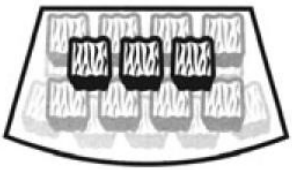
Layer 1
9 coals in 2 rows
(**1 of 4** & **1 of 5**)



Layer 2
8 coals in 2 rows of 4



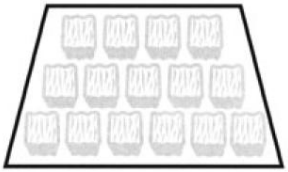
Layer 3
3 coals in 1 row



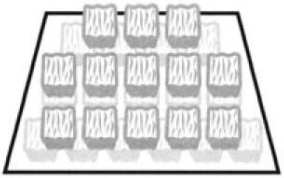
9.2.2. Size ‘B’ (6.95kW)

Total of 33 coals in 3 layers

Layer 1
15 coals in 3 rows
(**1 of 4**, **1 of 5** & **1 of 6**)



Layer 2
13 coals in 3 rows
(**1 of 3** & **2 of 5**)

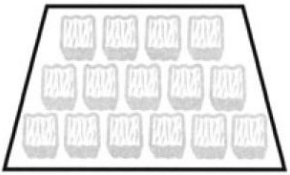


Layer 3
5 coals in 2 rows
(**1 of 2** & **1 of 3**)

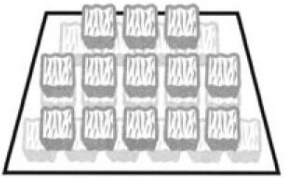
9.2.3. Size ‘C’ (8.50kW)

Total of 40 coals in 4 layers

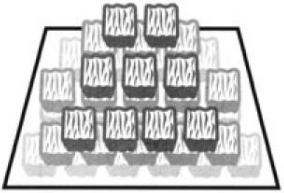
Layer 1
15 coals in 3 rows
(**1 of 4**, **1 of 5** & **1 of 6**)



Layer 2
13 coals in 3 rows
(**1 of 3** & **2 rows of 5**)



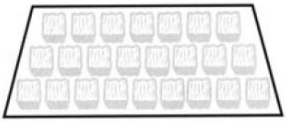
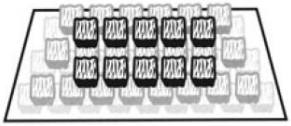
Layer 3
9 coals in 3 rows
(**1 of 2**, **1 of 3** & **1 of 4**)



Layer 4
4 coals in 3 rows

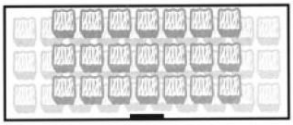
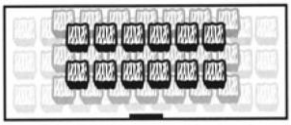
9.2.4. Size ‘D’ (10.50kW)

Total of 55 coals in 3 layers

Layer 1	**Layer 2**	**Layer 3**
24 coals in 3 rows (**1 of 7**, **1 of 8** & **1 of 9**)	21 coals in 3 rows (**1 of 6**, **1 of 7** & **1 of 8**)	10 coals in 2 rows of 5
		

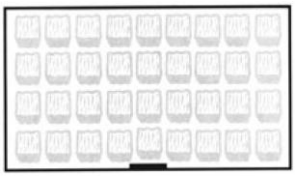
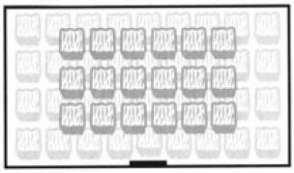
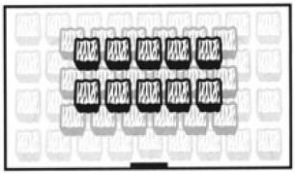
9.2.5. Size ‘E’ (11.50kW)

Total of 63 coals in 3 layers

Layer 1	**Layer 2**	**Layer 3**
30 Coals in 3 rows of 10	21 coals in 3 rows of 7	12 coals in 2 rows of 6
		

9.2.6. Size ‘F’ (13.00kW)

Total of 64 coals in 3 layers

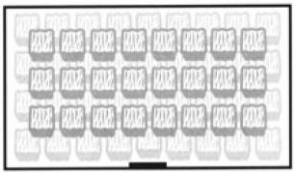
Layer 1	**Layer 2**	**Layer 3**
36 coals in 4 rows of 9	18 coals in 3 rows of 6	10 coals in 2 rows of 5
		

9.2.7. Size ‘G’ (14.00kW)

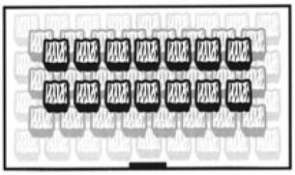
Total of 74 coals in 3 layers

Layer 1
36 coals in 4 rows of 9

Layer 2
24 coals in 3 rows of 8



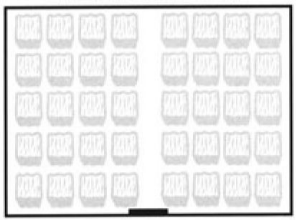
Layer 3
14 coals in 2 rows of 7



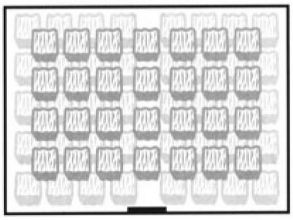
9.2.8. Size ‘H’ (16.00kW)

Total of 86 coals in 3 layers

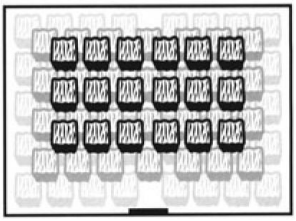
Layer 1
40 coals in 5 rows of 8



Layer 2
28 coals in 4 rows of 7



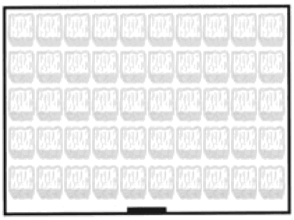
Layer 3
18 coals in 3 rows of 6



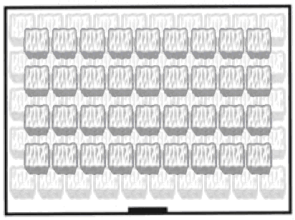
9.2.9. SIZE J (19.60kW)

Total of 100 coals in 3 layers

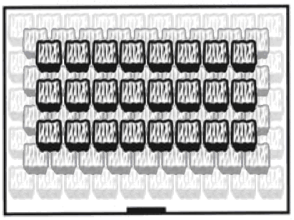
Layer 1
50 coals in 5 rows of 10



Layer 2
36 coals in 4 rows of 9



Layer 3
24 coals in 3 rows of 8



9.3. Pebble Layout

Sizes **B**, **C**, **D**, **E**, **F**, **G**, **H** and **J** have been approved for use with ceramic pebbles. See the details below for specific arrangements.

9.3.1. Size 'B'

Total of 17 pebbles in 2 layers

Layer 1
11 pebbles in 3 rows
(**1 of 3** & **2 of 4**)

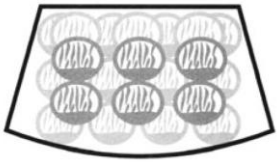
Layer 2
6 pebbles in 2 rows of 3

9.3.2. Size 'C'

Total of 18 pebbles in 2 layers

Layer 1
12 pebbles in 3 rows of 4

Layer 2
6 pebbles in 2 rows of 3

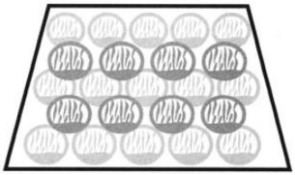


9.3.3. Size 'D'

Total of 23 pebbles in 2 layers

Layer 1
15 pebbles in 3 rows of 5

Layer 2
8 pebbles in 2 rows of 4



9.3.4. Size ‘E’

Total of 28 pebbles in 2 layers

Layer 1
18 pebbles in 3 rows of 6

Layer 2
10 pebbles in 2 rows of 5

9.3.5. Size ‘F’

Total of 39 pebbles in 2 layers

Layer 1
24 pebbles in 4 rows of 6

Layer 2
15 pebbles in 3 rows of 5

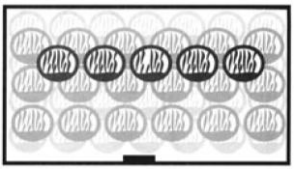
9.3.6. Sizes ‘G’ & ‘H’

Total of 51 pebbles in 3 layers

Layer 1
28 pebbles in 4 rows of 7

Layer 2
18 pebbles in 3 rows of 6

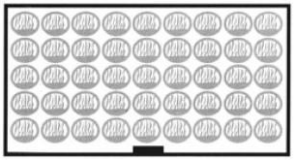
Layer 3
5 pebbles in 1 row of 5



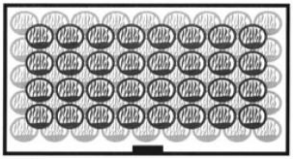
9.3.7. Size ‘J’

Total of 77 pebbles in 2 layers

Layer 1
45 pebbles in 5 rows of 9



Layer 2
32 pebbles in 4 rows of 8



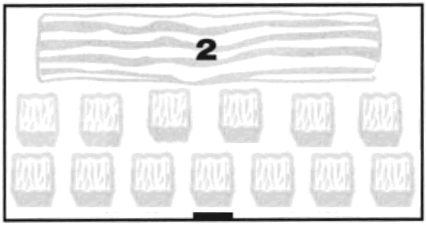
9.4. Coal & Log Layout

Sizes **E**, **F**, **G** and **H** have been approved for use with a coal and log layout. See the details below for specific arrangements.

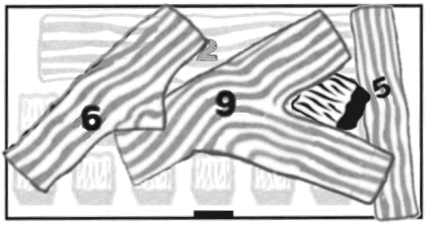
9.4.1. Size 'C'

Total of 4 logs and 14 small coals in 2 layers

Layer 1
1 No.2 log and 13 coals
1 row of 6 and 1 row of 7 coals



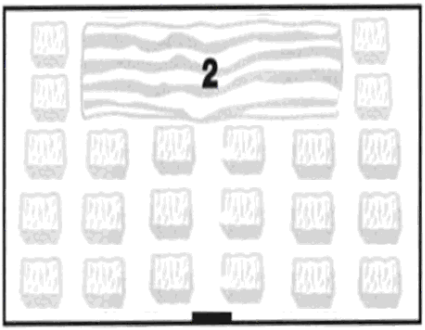
Layer 2
1 coal and 3 logs on second layer, resting at various angles
(1 x No. 6, 1 x No. 9, 1 x No. 5)



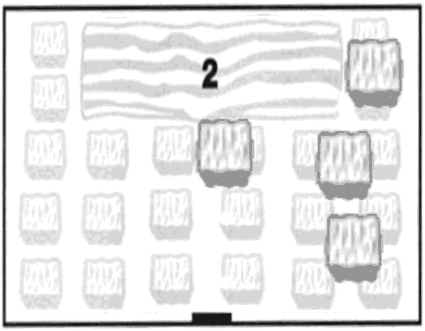
9.4.2. Size ‘D’ and ‘D*’

Total of 7 logs and 27 small coals in 4 layers

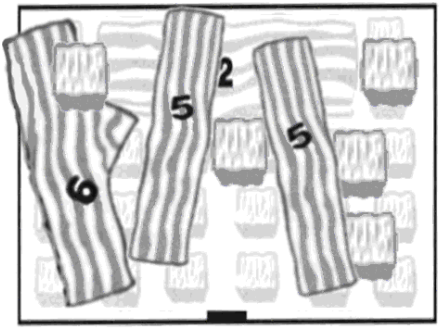
Layer 1
1 No.2 log and 22 coals
2 rows of 2 and 3 row of 6 coals



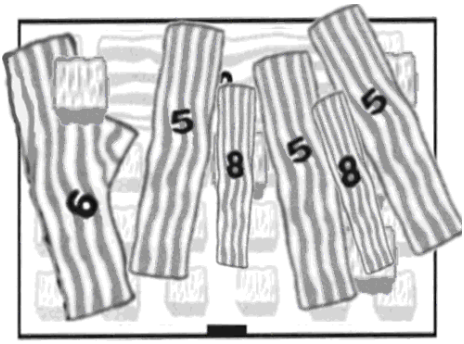
Layer 2
4 coals, resting on Layer 1 coals



Layer 3
3 Logs and 1 coal
(1 x No. 6, 2 x No. 5)



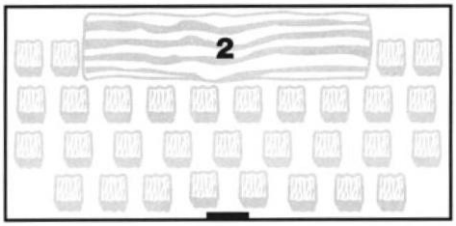
Layer 4
3 Logs
(2 x No.8, 1 x No. 5)



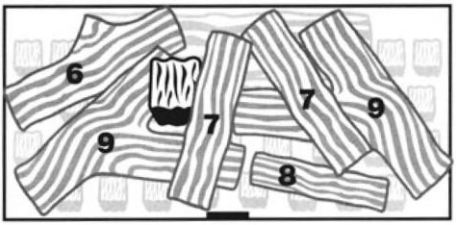
9.4.3. Size ‘E’

Total of 7 logs, 31 small coals & 1 large coal in 2 layers

Layer 1
1 row of 2 coals, 1 No.2 log and 2 coals
1 row of 10, 1 row of 9 and 1 row of 8 coals



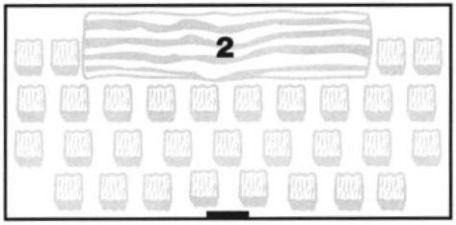
Layer 2
1 large coal and 6 logs on second layer, resting at various angles
(1 x No. 6, 2 x No. 7, 1 x No. 8, 2 x No. 9)



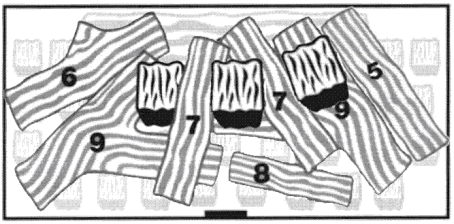
9.4.4. Size ‘F’

Total of 8 logs, 31 small coals & 3 large coals in 2 layers

Layer 1
1 row of 2 coals, 1 No.2 log and 2 coals
1 row of 10, 1 row of 9 and 1 row of 8 coals



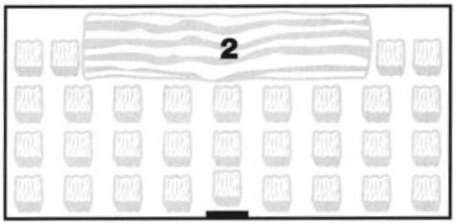
Layer 2
1 large coal and 6 logs on second layer, resting at various angles
(1 x No. 6, 2 x No. 7, 1 x No. 8, 2 x No. 9)



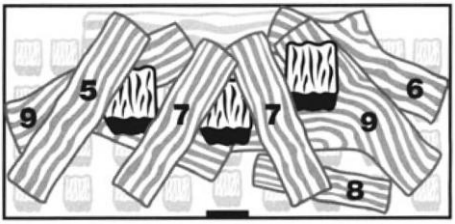
9.4.5. Size ‘G’ & ‘H’

Total of 8 logs, 42 small coals & 3 large coals in 2 layers

Layer 1
1 row of 2 coals, 1 No.2 log and 2 coals then 3 rows of 9



Layer 2
3 large coals and 7 logs on second layer, resting at various angles
(1 x No. 5, 1 x No. 6, 1 x No. 8, 2 x No. 9)



10. Control Systems

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.

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 the National Gas Emergency Service on 0800 111 999.

10.1. Identification

Depending on the specification of your appliance, it will be supplied with a number of possible control methods. Please identify your control from the details below, and then refer to the appropriate following section.

Figure 10 - Manual Control (Barrel)

Figure 11 - Manual Control (BM / NGC)

Figure 12 - Detached Manual Control (BM / NGC)

Figure 13 - Remote Control (GV34)

Figure 14 - Remote Control (GV60)

Figure 15 - Wall Switch Control

10.2. Manual Control (Barrel)

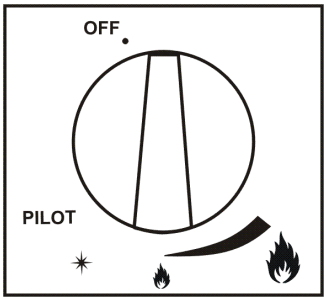


Figure 16 – Barrel Control Valve

1) Ensure that the control knob is pointing upwards (as shown in **Figure 16**) in the OFF Position.

2) Press the knob in fully, and then slowly turn it anti-clockwise towards the PILOT position until a loud click is heard. This should allow gas to the pilot and light it. Once the pilot flame is visible (located near to the front centre of the fire), hold the knob in for a further 10-20 seconds then release slowly.

3) If the pilot does not light or it goes out when releasing the knob, return the knob to the OFF position and retry. When the fire is first installed or serviced, it may initially take a few attempts to light the pilot until any air is purged.

4) If this operation fails to light the pilot, it can be lit manually with caution, using a lighted match or taper through the pilot slot whilst turning the knob as above.

5) The main burner can now be lit by continuing to turn the knob anti-clockwise towards the maximum position (large flame icon), until the pilot lights the main burner.

6) At this point, the control can be set between the minimum (small flame) and maximum position.

7) To extinguish the main burner, push the knob in and turn it back to the PILOT position, then release.

8) To extinguish the pilot from this position, push the knob in and turn back the OFF position, then release.

The fire can be safely left with the pilot lit (without main burner) for periods of time, but the pilot can be turned off for extended periods of not using the burner (i.e. periods of warm weather) or if the user prefers.

NOTE: Should the fire be extinguished intentionally or unintentionally, do not attempt to relight it for at least 3 minutes.

10.3. Manual Control (BM / NGC) & Detached Manual Control (BM / NGC)

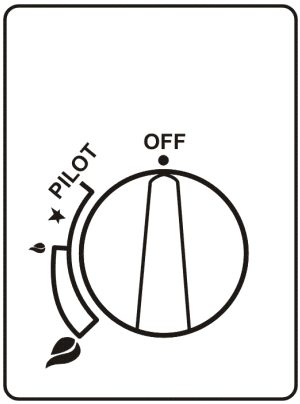


Figure 17 – BM / NGC Control Valve

1) Ensure that the control knob is pointing upwards (as shown in **Figure 17**) in the OFF Position.

2) Press the knob in fully, and then slowly turn it anti-clockwise towards the PILOT position until a loud click is heard. This should allow gas to the pilot and light it. Once the pilot flame is visible (located near to the front centre of the fire), hold the knob in for a further 10-20 seconds then release slowly.

3) If the pilot does not light or it goes out when releasing the knob, return the knob to the OFF position and retry. When the fire is first installed or serviced, it may initially take a few attempts to light the pilot until any air is purged.

4) If this operation fails to light the pilot, it can be lit manually with caution, using a lighted match or taper through the pilot slot whilst turning the knob as above.

5) The main burner can now be lit by continuing to turn the knob anti-clockwise towards the maximum position (large flame), until the pilot lights the main burner.

6) At this point, the control can be set between the minimum (small flame) and maximum position.

7) To extinguish the main burner, push the knob in and turn it back to the PILOT position, then release.

8) To extinguish the pilot from this position, push the knob in and turn back the OFF position, then release.

The fire can be safely left with the pilot lit (without main burner) for periods of time, but the pilot can be turned off for extended periods of not using the burner (i.e. periods of warm weather) or if the user prefers.

NOTE: Should the fire be extinguished intentionally or unintentionally, do not attempt to relight it for at least 3 minutes.

10.4. Remote Control (GV34)

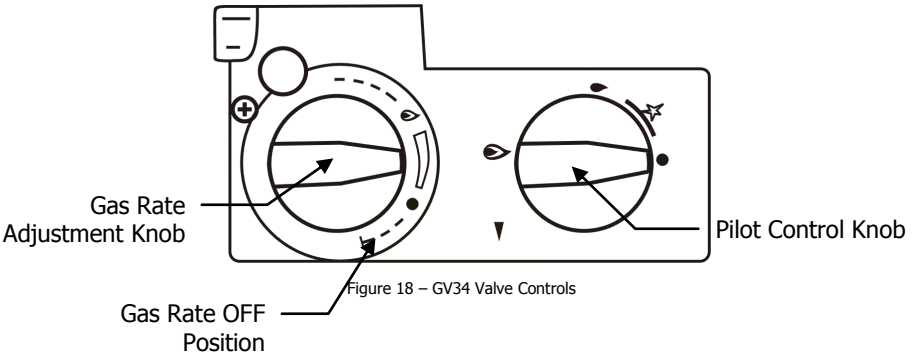


Figure 18 – GV34 Valve Controls

NOTE: The GV34 Control Valve gas two functions.

1) **Pilot Control:** Operated Manually
2) **Flame Control:** Can be operated either manually or electrically via the Receiver and Handset.

10.4.1. Manual Lighting Procedure

1) Turn the Pilot Control Knob anti-clockwise towards the ignition position ☆ until reaching stop, then press down and hold for 5 seconds (only pilot gas flows).
2) Whilst continuing to press down the Pilot Control Knob, turn it further anti-clockwise to activate the piezo ignition. Continue to hold down for 10 seconds after the pilot burner has been lit. If the pilot does not light, repeat these first two steps. When the fire is first installed or serviced, it may initially take a few attempts to light the pilot until any air is purged.
3) Upon lighting, release the knob and turn fully anti-clockwise to the ON position. Pilot gas flows and main gas flows in accordance to the flame setting that the motorised control has been set at.
4) **Adjusting the flame Height:** The motorised control has a slipping clutch. This allows the motorised control to be operated by hand, should the batteries run out. To set the flame height to the required level turn knob either clockwise or anti-clockwise to suit personal requirements.

10.4.2. Remote Control Lighting Procedure

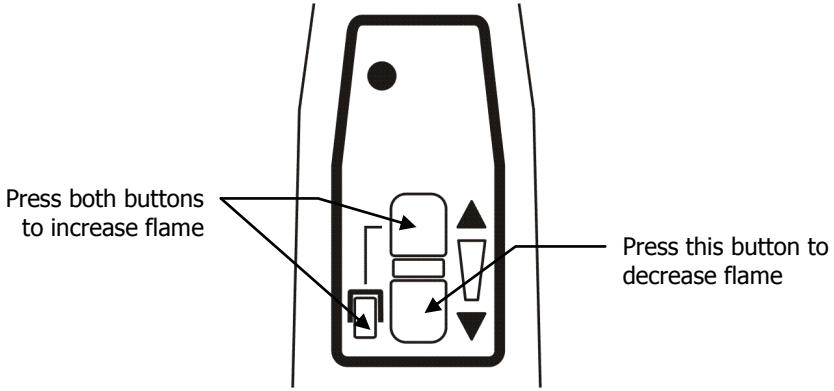


Figure 19 - GV34 Remote Control Handset

To light the Pilot Burner, carry out steps 1 to 3 as specified above.

Adjusting the flame Height: To turn the fire on and/or to increase the flame height by using the handset, press both the large and small **ON** buttons simultaneously. Continue pressing until the desired flame effect is obtained. To reverse the procedure, press and hold the **OFF** button.

NOTE: When operating this appliance by the remote control, it is not required to turn the pilot burner off after each and every time that the appliance is used. The operation of the **OFF** button shuts off the gas supply to the main burner.

10.4.3. Shut Off Procedure

1) Turn the Pilot Control knob clockwise until reaching stop. In this position only pilot gas flows.

2) To shut off the valve completely, press down slightly and continue turning clockwise from the pilot position to the OFF position. The safety interlock prevents re-ignition of the pilot flame until the thermocouple has cooled down sufficiently.

3) Switching off the remote is not necessary.

NOTE: Should the fire be extinguished intentionally or unintentionally, do not attempt to relight it for at least 3 minutes.

10.5. Remote Control (GV60)

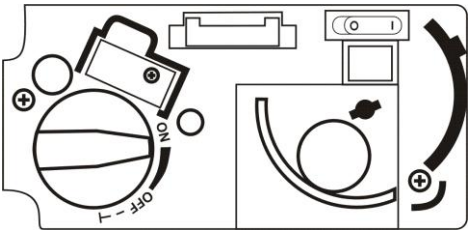


Figure 20 – GV60 Valve Controls

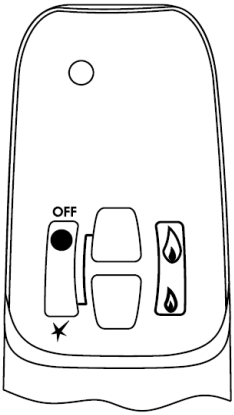


Figure 21 - GV60 Remote Control Handset

1) Ensure that the ON/OFF switch on the control valve is ON.
2) Press both the **bottom left hand** button ✶ on the handset and the **Large Flame** button at the same time (both buttons are linked with an line) until a beep is heard, which indicates the start sequence has begun, then release the buttons.
3) At this point further beeps indicate that the ignition process is in progress, after which point the burner will move to the high rate and the burner will cross-light from the pilot.
4) Adjust the gas rate/flame height by using either the **Large Flame** or **Small Flame** buttons on the remote control.
5) To leave the burner in standby, continue to press the **Small Flame** button until the main burner extinguishes, leaving the pilot on.
6) To turn off both the main burner and pilot, press the **OFF** button.

NOTE: Should the fire be extinguished intentionally or unintentionally, do not attempt to relight it for at least 3 minutes.

10.6. Wall Switch Control (GV60)

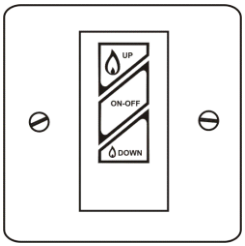


Figure 22 – Wall Switch Control

1) Ensure that the ON/OFF switch on the control valve is ON.
2) Press and hold the ON-OFF button until a beep is heard, which indicates the start sequence has begun, then release the buttons.
3) At this point further beeps indicate that the ignition process is in progress, after which point the burner will move to the high rate and the burner will cross-light from the pilot.
4) Adjust the gas rate/flame height by using either the up or down buttons on the control.
5) To leave the burner in standby, continue to press the down arrow button until the main burner extinguishes, leaving the pilot on.
6) To turn off both the main burner and pilot, press the ON-OFF button.

NOTE: Should the fire be extinguished intentionally or unintentionally, do not attempt to relight it for at least 3 minutes.

10.7. Remote Control Handset Battery Replacement

1) Remove the battery cover from the rear of the handset, by pressing down at the top of the battery cover and sliding downwards.
2) Remove and unclip the old battery and replace with a new PP3 9v battery.
3) Replace the cover.

10.8. Remote Control Receiver Unit Battery Replacement

1) For remote control models that use a battery powered receiver unit:
2) Pull out the receiver unit from its location (normally under the fire).
3) Remove the battery cover.
4) Remove the existing batteries and replace with 4 x AA batteries. For the GV60 it is recommended that high quality Alkaline, Lithium or Nickel oxy hydroxide are used

TROUBLESHOOTING

11. General Troubleshooting

No Spark

1) Ignition lead has become detached from electrode;
2) Pilot is damaged, or too far away from electrode, or too close;
3) Electrode is damaged and needs to be replaced;
4) Soot or debris on the pilot assembly and shorting spark;
5) Faulty ignition lead.

Sparking But Will Not Light

1) Check that gas isolator is open and gas is present;
2) Valve inlet has become blocked with debris;
3) Pilot injector is blocked.

Pilot Flame Shortens or Goes Out When Main Burner Is Opened

1) This indicates insufficient gas pressure to the appliance. Check for obstruction.
2) Check that there are no tight bends or kinks in the supply pipe and that it is capable of supplying the required volume of gas.
3) Check pressure setting.

Pilot Goes Out At Regular Intervals

1) Check thermocouple is not loose. DO NOT OVER TIGHTEN
2) Thermocouple is damaged and needs replacing.
3) Faulty magnetic coil in valve – replace gas valve.

Blue Flame

1) It will take about 20 minutes for the fire to reach its working temperature, after this time most of the blue flame should have gone.
2) Continuous blue flame can also be caused by poor pebble or wood arrangement, or excessive up draught of the flue. Seek advice from your supplier.
3) Low gas pressure from the gas meter will also cause blue flame, check gas pressure.

Poor Flame Picture

1) Check gas pressure.
2) Ensure there are no obstructions in the gas supply.
3) Re-lay the pebbles or wood as shown in the relevant drawing.

12. Appendix 1 – GV60 Installation Instruction

MERTIK MAXITROL®

GV60 Remote Electronic Ignition and Control System

INSTALLER FLOW CHART - FOR OEM USE ONLY

For 2008 GV60 Systems Not Using Manually Selected Codes.

⚠ WARNING

Read GV60_II_EN-11.2008 and GV60_OI_EN-11.2008 instructions carefully. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. The product must be installed and operated according to all local regulations.

Service and or installation must be performed by a trained, experienced service technician.

Damper position must be in accordance with Manufacturer's Installation Instructions and all applicable Standards. Failure to follow these Instructions and/or Standards may cause 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 control or other appliances. Fire or explosion hazard. Attempted disassembly or repair of controls can cause property damage, severe injury or death. Do not disassemble the gas valve; it contains no serviceable components.

For your safety, read the Installation Instructions and Operating Instructions before attempting to light the appliance.

BEFORE OPERATING verify that no gas is in the area around the appliance, including near the floor.

WHAT TO DO IF YOU SMELL GAS

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

Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

The installation must conform with local codes or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54 or The International Fuel Gas Code or B149.1 in Canada. All piping and tubing must comply with local codes and ordinances.

Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

Do not use this control or any gas appliance if any part has been under water or in contact with water. Immediately call a qualified service technician to replace the control system and any gas control which has been under water or in contact with water.

NOTICE

Wiring of the valve and receiver must be completed before installing any batteries and starting ignition.

If the receiver is in a metal box or metal heat shield that is separated from the valve and is not connected by a secured ground, an additional wire is recommended to connect the metal box to the valve.

GV60 - Flow Chart

FUNCTION		POSSIBLE CAUSE	REMEDY
1.	**TOUCH PAD/ WALL SWITCH/ SWITCH PANEL START:** Press ON Button, Touch pad/wall switch works.	No → Bent pin. Touch pad, switch panel or cable not operating properly.	Straighten pin, replace touch pad, switch and/or cable.
1.	**HANDSET START:** Press both buttons to start ignition (IGN) sequence. Beep will occur each second.	No → Transmitter batteries low.	Replace transmitter batteries. 9V quality alkaline recommended.
		Receiver batteries low.	Replace receiver batteries with 1.5V "AA" quality alkaline batteries.
		Optional mains adapter not operating properly.	Check mains adapter.
		Check coding of transmitter and receiver. (Initial sync.)	Learn new code (reset). See label on receiver.
		Transmitter distance limited.	1. Straighten the antenna. 2. Replace receiver. See wiring diagram, pg. 6, GV60_II_EN-11.2008.
	OK ↓	Touch pad, switch panel, or cable not operating properly (in older versions, nonfunctional touch pad blocks the transmitter).	Unplug or replace touchpad, switch panel, or cable. See wiring diagram, pg. 6, GV60_II_EN-11.2008.
		Blown fuse (in older versions only).	Replace receiver. See wiring diagram, pg. 6, GV60_II_EN-11.2008.
2.	Magnet unit is energized (audible thud to detect functionality).	No → No beep → Impulse magnet not operating properly.	Replace gas valve. See "Installation Instructions" pg. 3, GV60_II_EN-11.2008.
		No → 3 short beeps → Low batteries.	Replace receiver batteries with 1.5V "AA" quality alkaline batteries.
		No → 1 long beep → ON/OFF switch in OFF position.	Switch to ON.
		8-wire cable Off/not operating properly.	Check 8-wire cable.
		SW-cable disconnected.	Check cable connection. See figure 1 on page 3.
	OK ↓	Motor not operating properly.	Replace gas valve. See "Installation Instructions" pg. 3, GV60_II_EN-11.2008.
		Micro switch not operating properly.	Replace gas valve. See "Installation Instructions" pg. 3, GV60_II_EN-11.2008.

GV60 - Flow Chart

FUNCTION		POSSIBLE CAUSE	REMEDY
3.	Spark will occur each second.	No → Ignition components not operating properly.	Check connection between cable & IGN-electrode. See wiring diagram pg. 6, GV60_II_EN-11.2008.
			Check IGN-electrode spark gap. See wiring diagram pg. 6, GV60_II_EN-11.2008
			Check IGN-electrode. See wiring diagram pg. 6, GV60_II_EN-11.2008.
			Check IGN-cable for damage. See wiring diagram pg. 6, GV60_II_EN-11.2008.
			Increase distance between IGN-cable and all metal parts. Shorten IGN-cable if possible or cover, e.g. silicon hose. See wiring diagram pg. 6, GV60_II_EN-11.2008.
		No → IGN-sequence stops, no pilot flame. No reaction to transmitter command. (Controller crashes.)	Press RESET button. See "Setting the Electronics Code" pg. 2, GV60_OI_EN-11.2008.
			Add ground wire between pilot burner and valve. See wiring diagram pg. 6, GV60_II_EN-11.2008.
			Do not coil the IGN-cable.
			Shorten IGN-cable if possible (no longer than 900 mm). See wiring diagram pg. 6, GV60_II_EN-11.2008.
		No → IGN-sequence stops, no pilot flame. Transmitter command is possible.	Replace receiver batteries with 1.5V "AA" quality alkaline batteries.
	OK ↓		
4.	Pilot lit.	No → TC- and SW-cable reversed.	Check connection of cable to receiver and interrupter. See figure 1.
		Magnet unit not operating properly.	Replace gas valve or (magnet unit [CE only]). See "Installation Instructions" pg. 3, GV60_II_EN-11.2008
		Short between interrupter and SW-cable.	Check connection to interrupter.
	OK ↓	No gas (magnet unit drops after 30 second audible count).	Check gas supply.
5.	Sparking stops after pilot is lit.	No → Short between interrupter and TC-cable.	Check connection to interrupter. See figure 1.
		Electronic measuring amplifier defective.	Replace Receiver. See wiring diagram pg. 6, GV60_II_EN-11.2008.
	OK ↓		

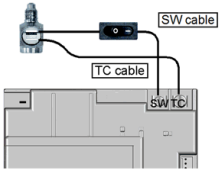


Figure 1

GV60 - Flow Chart

FUNCTION		POSSIBLE CAUSE	REMEDY
6. Motor turns to main gas and pilot stays lit.	No → Magnet unit drops (audible sound).	Resistance in thermo current circuit too high.	Check cable in thermo-current circuit. See wiring diagram pg. 6, GV60_II_EN-11.2008.
		Not enough heat on thermocouple.	Check position of pilot to thermocouple and intensity of pilot flame.
		Low voltage from thermocouple.	Replace thermocouple Do not overtighten (hand tight +1/4 turn max). See "Thermo Circuit" pg. 5, GV60_II_EN-11.2008.
		Short because thermocouple end is damaged or not centered.	Replace thermocouple. Do not overtighten (hand tight +1/4 turn max). See "Thermo Circuit" pg. 5, GV60_II_EN-11.2008.
	No →	IGN-sequence stops. No reaction to transmitter command. (Controller crashes.)	Press RESET button. See "Setting the Electronics Code" pg. 2, GV60_OI_EN-11.2008.
			Add ground wire between pilot burner and valve. See wiring diagram pg. 6, GV60_II_EN-11.2008.
			Do not coil the IGN-cable.
			Shorten IGN-cable if possible (no longer than 900 mm). See wiring diagram pg. 6, GV60_II_EN-11.2008.
OK ↓			
7. Main burner is lit.	No →	Manual knob in "MAN" position.	Turn manual knob to "ON" position (positive latch is required). See "Manual Operation" pg. 4, GV60_OI_EN-11.2008.
OK ↓			
8. Main burner stays lit.	No →	Too much draft at pilot (poor flame impingement of thermo-couple).	Check installation. See "Pilot Flame Adjustment" pg. 7, GV60_II_EN-11.2008.
OK ↓			
9. Magnet unit drops while motor turns. 3 beeps.	No →	Low batteries.	Replace receiver batteries with 1.5V "AA" quality alkaline batteries.

System can be switched OFF via the electronics.	No →	System CAN be switched OFF via ON/ OFF switch.	No →	Short in interrupter between TC- and SW- cable.	Check connection to interrupter block. See wiring diagram pg. 6, GV60_II_EN-11.2008.
YES ↓ OK		YES ↓ OK	→	Replace gas valve (magnet unit [CE only]). See "Installation Instructions" pg. 3, GV60_II_EN-11.2008.	

MERTIK MAXITROL®

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ACQUISITIONS

The Art of Fire

0558

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