

**FOCAL
POINT
FIRES** plc

KAVACHI

Fuel Effect Gas Fire
Manual or Remote control

INSTALLATION, SERVICING
AND USER INSTRUCTIONS

All instructions must be handed to the user for safekeeping

Revision A 10/02

Country(s) of destination: GB, IE

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INSTALLATION INSTRUCTIONS

Preliminary Notes Before Installation

This appliance is an Inset Decorative Fuel Effect appliance which provides radiant warmth utilising the latest type burner technology.

The fire is designed to fit into a purpose made builder's opening, and use natural draught flues as listed in the Installation Requirements.

The appliance must be installed by a competent person in accordance with Gas Safety (Installation and Use) Regulations 1998. It is strongly recommended that a CORGI registered engineer be used for this purpose.

Read all these instructions before commencing installation.

This appliance must be installed in accordance with the rules in force and only used in a sufficiently ventilated space.

The appliance is designed for installation on to a non-combustible hearth which must project at least 150mm in front of the appliance.

This appliance is factory set for operation on the gas type, and at the pressure stated on the appliance data plate.

This appliance is available in either a manual control version, or a battery powered remote control version. These instructions cover both control options. See the relevant sections of these instructions for further details.

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1.0 IMPORTANT NOTES

This fire is an Inset Live Fuel Effect Gas Fire providing radiant warmth. It is designed to operate on Natural Gas only. See Data Plate on appliance.

It is the LAW that all gas appliances and fittings are installed by a competent person (such as a CORGI registered fitter) and in accordance with the Gas Safety (Installation and Use) Regulations 1998, the relevant British Standards for Installation, Codes of Practice and in accordance with the Manufacturers' Instructions. The installation shall also be carried out in accordance with the following regulations:

The Building Regulations issued by the Department of the Environment, the Building Standards (Scotland) (Consolidation) Regulations issued by the Scottish Development Department.

BS 5871 part 2

BS 5440 part 1

BS 8303

BS 1251

BS 6891

BS 6461 part 1

Note - For Republic of Ireland, reference should be made to the relevant standards governing installation, particularly in regard to flue sizing and ventilation. See IS813, ICP3, IS327 and any other rules in force.

Failure to comply with these regulations could lead to prosecution and deem the warranty invalid.

This appliance must be installed in accordance with the rules in force and used only in a sufficiently ventilated space. Consult all instructions before installation and use of this appliance. This appliance is intended for decorative purposes.

This appliance is free from any asbestos material. Refractories and fuel bed are constructed from ceramic fibre.

Note : Remote control models only - This appliance features a battery-operated remote control system, and under normal usage will need new batteries approximately every twelve months.

Remote control Handset requirements - 1 x 'PP3' type (9 volt)

Receiver/motor unit requirements - 4 x 'AA' type (1.5 volt)

Refer to the appropriate section of these instructions for details of how to change the batteries.

2.0

APPLIANCE DATA

	<u>Manual Control Version</u>	<u>Remote Control Version</u>
Gas Group	G20 Natural Gas CAT I2H	G20 Natural Gas CAT I2H
Inlet Pressure	20 mbar	20 mbar
Max Energy Input (gross)	6.8 kW	6.8 kW
Min Energy Input (gross)	3.5 kW	3.5 kW
Pilot Energy Input (gross)	210 W	210 W
Setting Pressure (cold)	15.8 mbar (+/- 0.75mbar)	15.8 mbar (+/- 0.75mbar)
Main Injector Burner	Stereo size 81/Bray cat. 82/420	Stereo size 81/Bray cat. 82/420
Gas Inlet Connection	8mm Inlet Restrictor Elbow	8mm Inlet Restrictor Elbow
Gas Control Valve	Dungs BM 733	Mertik Maxitrol GV34 Series
Ignition	Integral Piezo spark	Integral Piezo spark
Spark Gap	3.5 to 4.5mm	3.5 to 4.5mm
Weight	30 Kg	31 Kg

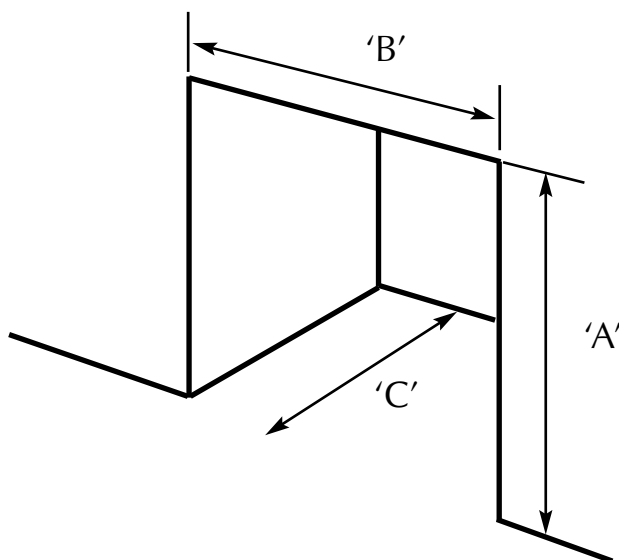
Please see Data Badge affixed to appliance for current data.

This appliance is for use only with the gas type, and at the pressure stated on the appliance Data Badge, and is for decorative purposes.

3.0

INSTALLATION REQUIREMENTS

This appliance **MUST NOT** be installed into a room containing a bath or shower, or where steam may be present. The fire has been designed to fit into a purpose made builders' opening meeting certain dimensional requirements.



- | |
|---|
| A. Opening height:
500mm Min. / 660mm Max. |
| B. Opening width:
575mm Min/660mm Max. |
| C. Opening depth: 350 mm Min. |

The flue must have an effective height of at least three meters, as measured from the hearth to the top of the flue. Any flue damper plates or restrictors should be removed and no other restriction fitted to the flue. Where removal is not practical, the restriction must be fixed in the fully open position.

A natural draught flue system is required, and if previously used for solid fuel or oil burning, the flue and chimney must be swept prior to appliance installation. The flue must be checked before installation by using a smoke pellet or similar to ensure proper draw and that leakage is not evident at any joints. Repair and re-test as necessary before the appliance is installed.

3.0 INSTALLATION REQUIREMENTS (continued)

The flue must be connected to only one fireplace, and the flue must not vent more than one appliance (i.e. not shared with a gas back boiler). There must be no opening in the flue apart from the one that the appliance is installed into, and the one venting the gases into the air. A suitable terminal may be fitted, such as class GC1, as regulations allow.

This appliance has been tested for use with circular flues of a minimum internal diameter of 175mm.

The flue termination (cowl) must be of a type suitable for use with an inset Decorative Fuel Effect Fire BS5871 part 3 contains further details.

4.0 SITE REQUIREMENTS

The fireplace opening should be inspected and repairs made where necessary. It will usually be necessary to remove any chair brick that may be in place.

The opening WIDTH and HEIGHT dimensions should be between 575mm and 660mm wide, and 500mm to 660mm high.

Opening DEPTH should be 350mm or greater. Opening DEPTHS include any plaster or infill panels which form part of the installation.

This appliance requires a natural draught flue system which may be one of the following;

225mm x 225mm (9in x 9in) brick or stone.

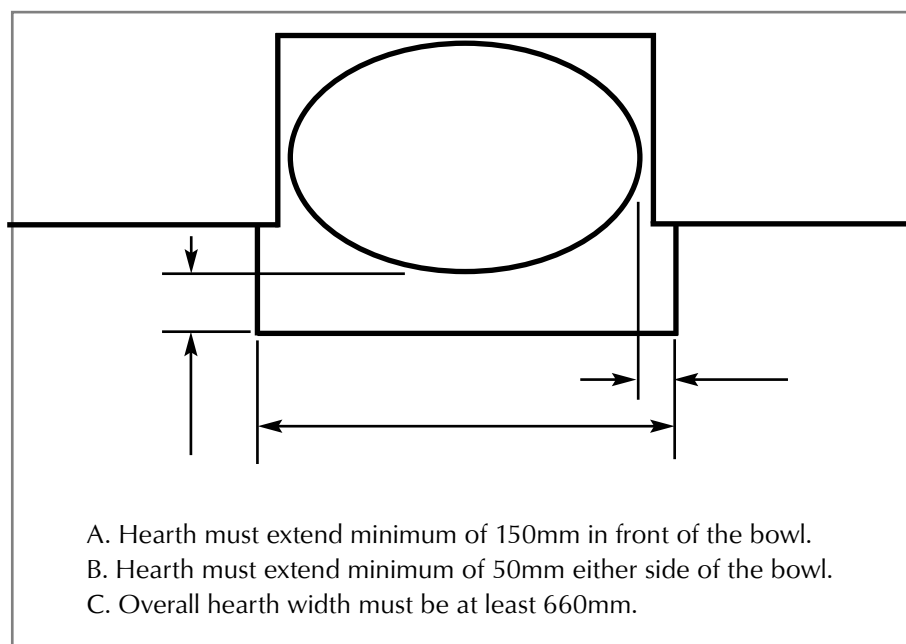
175mm (7in) minimum diameter lined brick or stone.

175mm (7in) minimum diameter twin wall flue conforming to BS 715.

Any existing under grate draught device must be sealed off.

The opening wall must be non-combustible.

The appliance requires a hearth with non-combustible surface of at least 12mm thick. The top surface must be at least 50mm above the surrounding floor level, or be surrounded by a raised edge or fender 50mm high.



4.0 SITE REQUIREMENTS (continued)

A combustible shelf may be fixed to the wall above the fire, providing that it complies with the dimensions given below.

<i>Maximum depth of shelf</i>	<i>Minimum distance from finished hearth surface to underside of shelf</i>
100mm (4in)	850mm (33 1/2 in)
150mm (6in)	950mm (37 1/2 in)
203mm (8in)	1000mm (39 1/2 in)

A non-combustible shelf may be fitted to within 10mm of the top edge of the fireplace opening.

Combustible materials, such as wood, may be fitted to within 100mm (4in) of either side of the fireplace opening, providing the forward projection does not exceed 100mm (4in).

Any combustible side walls must be at least 500mm to the side of the radiant heat source.

As with all heating appliances, any decorations, soft furnishings, and wall coverings (i.e. flock, blown vinyl and embossed paper) positioned too close to the appliance may discolour or scorch.

5.0 VENTILATION

No purpose provided ventilation is normally required for this appliance. The requirements of other appliances operating in the same room or space must be taken into consideration when assessing ventilation.

If spillage is detected when commissioning the appliance then amongst other problems there may be insufficient natural ventilation for the correct operation of the flue. This is potentially a greater problem should the property be of modern nature. If the appliance does not spill with windows open but does with windows closed, this proves that lack of ventilation is the problem, if not, it will be the flue at fault. Installation of an air brick is the best solution. Any ventilation fitted must comply with BS 5871 part 2 and BS 5440 part 2. Ventilation located underneath or within the immediate vicinity of the fire MUST NOT be used as it may adversely affect the performance of the O.D.S. system.

Spillage detected during commissioning is almost always a result of poor flue performance, which cannot be corrected by any amount of ventilation.

For Republic of Ireland ventilation may be required, see IS 813, ICP3, IS 327, and any other rules in force.

6.0 UNPACKING THE APPLIANCE

Stand the carton right way up, and remove the Odyssey firebowl.

Read all the instructions before continuing to unpack or install this appliance.

Remove the ceramic pebbles. Remove the cardboard packing pieces, and any bags containing other fittings or parts.

Check that the components supplied correlate with the checklist given in section 6.1.

Please dispose of the packaging materials at your local recycling centre.

6.1 COMPONENT CHECKLIST

<i>QUANTITY</i>	<i>DESCRIPTION</i>
1	Burner tray assembly.
1	Concrete firebowl assembly.
1	Moulded ceramic fibre combustion matrix.
22	Large individual ceramic pebbles.
8	Small individual ceramic pebbles.
1	Moulded ceramic front strip.
1	Set of manufacturers instructions and warranty card.
1	Remote control handset (remote control option only)
1	Pack of batteries (1 x 'PP3', 4 x 'AA') (remote control option only)
1	Screw and rawlplug pack.

7.0 INSTALLATION OF APPLIANCE

Note: Ensure that the gas supply is isolated before commencing installation of the appliance.

Smoke test the flue to ensure proper draw and that there are no leaks present.

Locate the gas supply point. This appliance is suitable for all gas connections, including those concealed behind the opening.

Important Note: Check that the thermocouple connection nut into the rear of the valve is secure.

Place the concrete firebowl, and the burner assembly into the fireplace opening, and position as required. Mark the location of the front support of the tray. Remove the tray and drill the two marked holes with an appropriate masonry bit. Place fibre rawl plugs into the holes. Remove the front support from the burner unit by unscrewing from the two front legs. Position the front support over the holes and secure the front support using suitable screws into the prepared holes. Re-fit the tray into the concrete firebowl, and secure the front legs of the tray to the support.

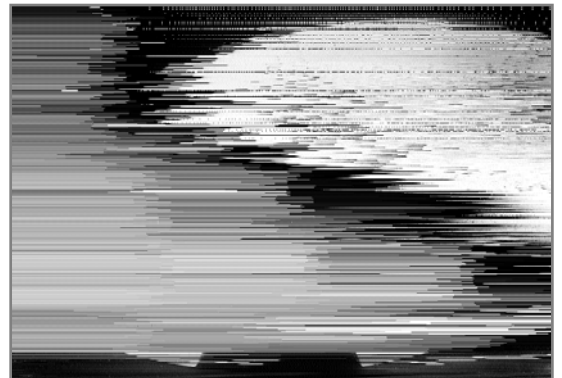
Using 8mm diameter pipe, connect the appliance to the gas supply point. The appliance must be fitted with rigid or semi-rigid pipe of 8mm external diameter. The appliance is factory fitted with an inlet restrictor elbow.

Use a minimum length of 8mm pipe, less than 1.2m where possible, as a long run of pipe may cause an unacceptable drop in the supply pressure.

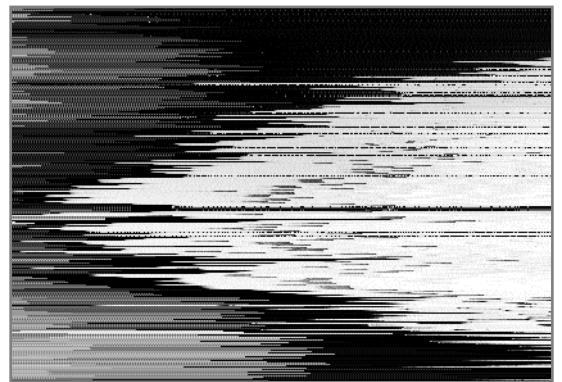
If using an across hearth connection, ensure concrete firebowl does not obstruct the supply route . There are cut-outs in the sides and rear of the firebowl to accomodate this.

8.0 FUEL BED LAYOUT

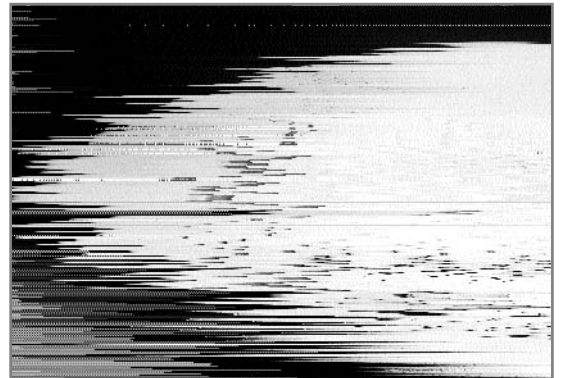
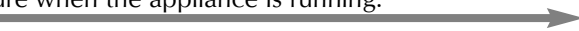
1. Remove the combustion matrix and ceramic front strip from the protective packaging, and position onto the burner tray as shown. The front edge of the matrix should sit snugly behind the back edge of the burner rails. Do not fit the matrix on top of the burner rails.



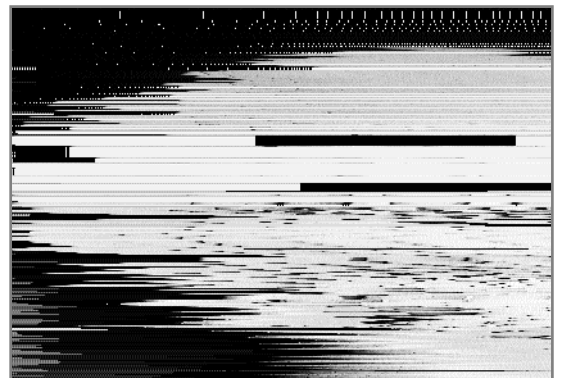
2. Open the bag of 22 ceramic pebbles. All of these pebbles are the same size. Take five pebbles and place them as shown. Care should be taken to ensure that the pebbles bridge the gap between the front strip and the front edge of the concrete firebowl.



3. Take five more pebbles and place them as shown. Care should be taken to ensure that the pebbles bridge the gap between the front strip and the four supports at the front of the matrix. Care should also be taken not to push the pebbles right down between the supports, as this can affect the flame picture when the appliance is running.

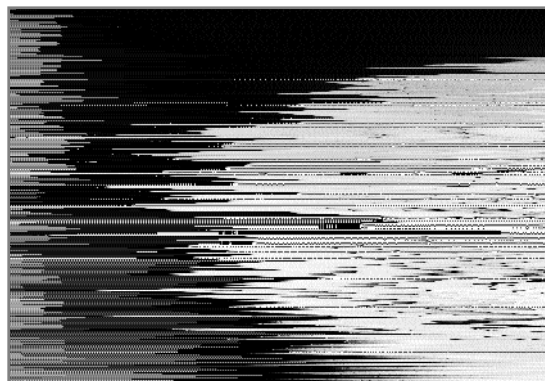


4. Take five more ceramic pebbles and position as shown to form the 'third row' of the fuel effect. The pebbles may be rotated as desired to fit into the gaps between the supports in order to create a random, realistic effect. Again, remember not to push the pebbles down too far into the valleys between the supports as this can have a detrimental effect to the flame picture.

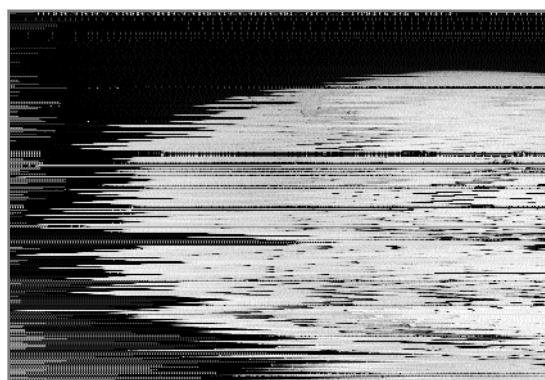


8.0 FUEL BED LAYOUT (continued)

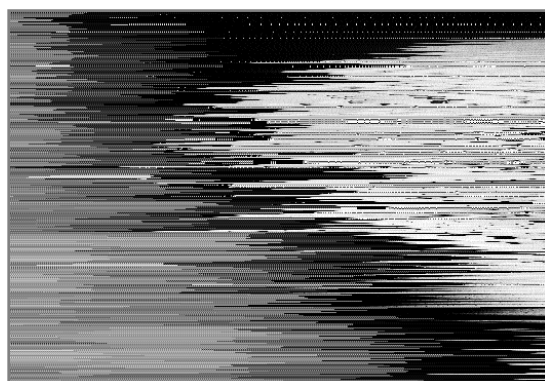
5. Now take another four pebbles and place behind the third row of row of pebbles as shown. The pebbles may be orientated as desired to achieve a realistic effect. Keep the spacing between the pebbles even and uniform.



5. Take three more pebbles and place behind the forth row of pebbles as shown. The pebbles may be orientated as desired to achieve a realistic effect. Keep the spacing between the pebbles even and uniform.



6. Finally, open the bag containing eight small pebbles, and place around the edge of the fuel matrix as shown. Once again, the pebbles may be orientated as desired in order to give a realistic effect. The fuel bed layout is now complete.



The fire is designed to operate correctly with the pebbles supplied when assembled according to the instructions. Never add to the thirty pebbles, or change them for a different type. Never throw rubbish or other matter onto the fuel bed.

Due to the light colour of the pebbles, some discolouration/sooting is to be expected during normal use.

8.1 INSTALLING THE BATTERIES (remote control versions only)

Handset - Remove cover from rear of handset and insert 1 x 'PP3' (9 volt) battery - Replace cover

Appliance - **Ensure appliance is off and cool.** Remove the ashpan door. Remove cover from top of receiver box. The cover is protected by reflective foil, and located towards the right hand side, underneath the burner unit. Insert 4 x 'AA' (1.5 volt) batteries - Replace cover.

9.0 TESTING AND COMMISSIONING

Turn on and test the gas supply up to the fire for any leaks, in accordance with current Approved Codes Of Practice (ACOPs).

10.1 OPERATING THE FIRE (manual control models)

The pilot is visible through the left hand side of the front ceramic strip. Push in and turn the control knob to the SPARK position, and hold there for a few seconds.

Continue turning anti-clockwise through the spark click to the PILOT light position, ensuring the pilot has lit. If not, return the knob clockwise, and repeat.

When the pilot lights after the spark, keep the knob depressed for approximately ten seconds. Now release the knob and the pilot should stay alight. If not, retry ignition. If the pilot is extinguished during use, wait three minutes before repeating the ignition procedure.

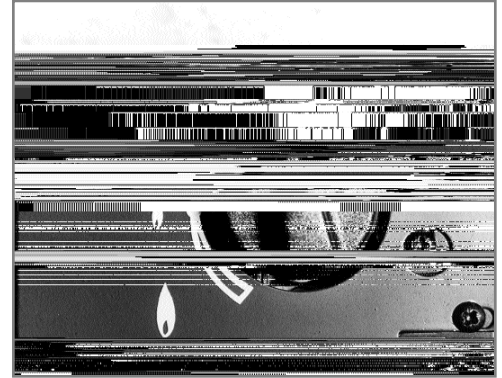
To achieve the HIGH setting, push the control knob in slightly and continue turning anti-clockwise to the high (large flame) position. The main burner should light after a few seconds.

To decrease the setting to LOW, turn the control knob clockwise to the low setting.

To turn to the PILOT position from the HIGH or LOW positions, press the control knob in, and return to the pilot position and release.

To turn the fire OFF, keep the knob pressed in, return to the off position and release.

A safety interlock prevents re-ignition of the pilot flame until the thermocouple has cooled sufficiently to allow the magnetic valve unit to reset itself.



10.2 OPERATING THE FIRE (remote control models)

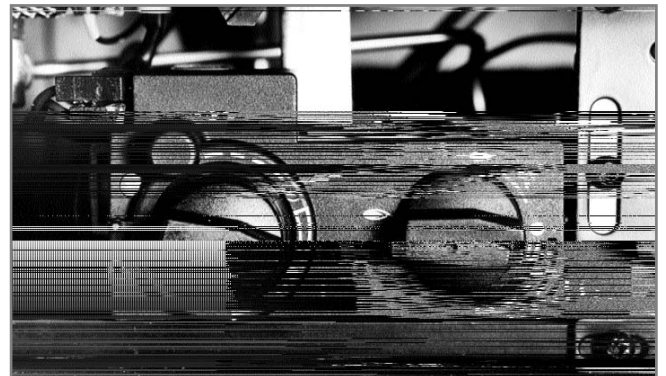
The gas valve has two control knobs ;

Turn the main burner control knob (shown on left hand side of control valve) fully anti-clockwise.

Turn ignition knob (shown on right hand side of control valve) slightly left towards the ignition position until reaching the stop, press down and hold for a few seconds until pilot gas is flowing.

Continue pressing down the knob while turning further to the left to activate the piezo spark, continue to hold the knob down for a further 10 seconds after the pilot has been lit. If the pilot does not light repeat the previous steps.

Upon lighting the pilot and after the further 10 seconds, release the knob and turn further to the left to the ON position. The main burner will light and be controlled in accordance with the main burner control knob setting. Adjust the main burner control knob to the desired setting.



If the pilot is extinguished during use of the fire, you must wait three minutes before repeating the ignition procedure.

To turn the main burner OFF whilst keeping the pilot flame lit, turn the ignition control knob to the pilot position then only the pilot will remain lit.

To shut the fire off completely, press the ignition control knob down and continue turning to the right from the pilot position to the OFF position.

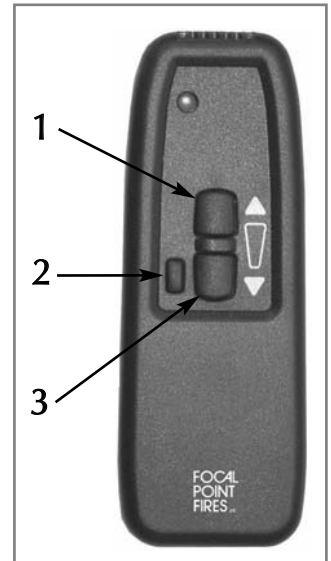
A safety interlock prevents re-ignition of the pilot flame until the thermocouple has cooled sufficiently to allow the magnetic valve unit to reset itself.

10.2 OPERATING THE FIRE (Remote control models) continued

The remote control unit allows operation of the main burner between maximum and pilot only setting. **It does not turn the pilot on or off.**

The remote control handset incorporates an inbuilt safety feature to prevent the main burner being activated or turned up accidentally. It is necessary to press button 1 and 2 (see illustration) simultaneously to turn the fire up.

To turn the fire down press button 3 only.



10.3 SPARK FAILURE

The gap between the spark electrode and the pilot should be 3.5 - 4.5mm to produce a good spark. There should be no need to adjust this. If under any circumstances the electric spark fails, the pilot may be lit manually by proceeding with the ignition sequence as previously described, and after turning the control knob through the spark position, the knob should be held in and the pilot lit with a taper.

10.4 SETTING PRESSURE

Remove the screw from the pressure test point.

Manual control versions - The pressure test point is situated on the main injector pipe next to the pilot.

Remote control versions - The pressure test point is located directly above the gas control.

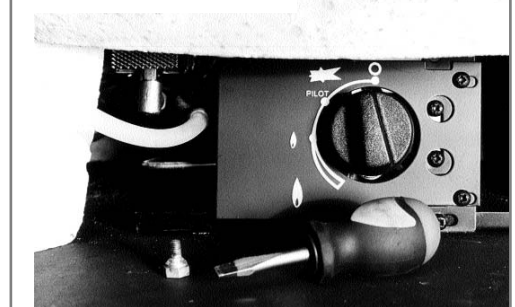
Attach a U gauge. Light the fire on the HIGH setting.

The setting pressure should be in accordance with the figures stated on page 2 of these instructions. The fire is factory set to achieve these pressures, and any significant variation could indicate a supply problem.

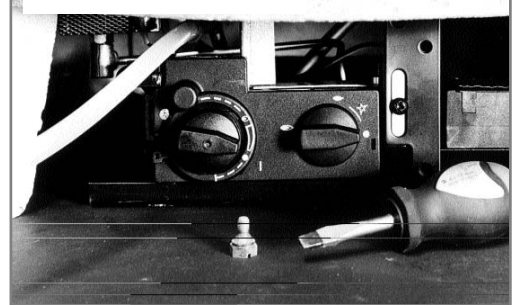
If the pressure is too high, the gas supply meter may be set incorrectly. This should be checked with the fire running and if necessary reset by the gas supplier.

If the pressure is too low, then check the meter governor pressure with the appliance running. If this is incorrect it will need to be reset by the gas supplier. If the setting pressure is too low, but the meter pressure is acceptable, then a problem in the supply pipework is to be suspected. This will be dirt and debris, kinked or inadequate size pipes, restriction in a fitting or solder flashing across a joint. (NOTE: you will not get an accurate reading of the inlet pressure with a pressure gauge on the end of the supply pipe - this is the static pressure in the system. You must use a T piece and measure the supply pressure with the fire on High - the dynamic pressure). Refit and tighten the screw into the pressure test point when the test is complete.

Manual control models



Remote control models



10.5 FLUE SPILLAGE MONITORING SYSTEM

This fire is fitted with a flue spillage safety device (ODS). If the fire shuts down during use for no apparent reason then several things may be suspected. If a door or window has been opened creating a draught, then pilot disturbance is the problem, and removal of the draught should resolve this. The gas pressure reaching the fire must also be checked. The thermocouple connection into the back of the gas control valve may also have worked loose during installation, simply tighten to remedy if this is the case.

If pilot disturbance is not the cause, then the ODS safety system may be in operation. Switch the appliance OFF, check the flue and carry out any remedial work required. Relight the fire and carry out a spillage test. **DO NOT** allow the appliance to be used if it continues to fail a spillage test. The aeration hole of the pilot must be carefully cleaned out on each annual service to ensure continued function of the ODS.

The spillage monitoring system shall not be adjusted, modified, or put out of operation by the installer. Any spare parts fitted **MUST** be of a type supplied for the purpose by the appliance manufacturer.

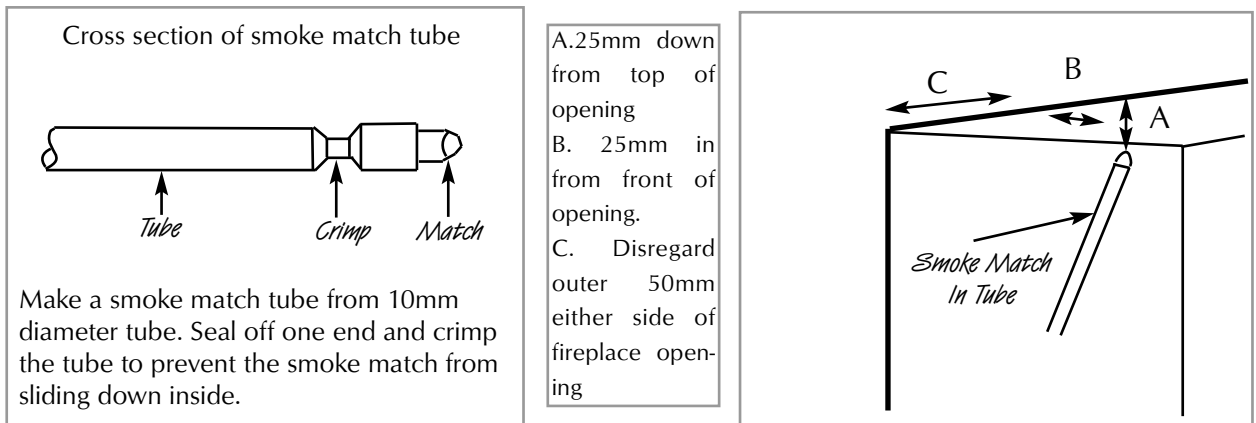
If the fire is not spilling, then further guidance should be sought, using the Troubleshooting section as a guide.

10.6 TESTING FOR SPILLAGE

Close all doors and windows to the room containing the appliance. Let the fire run on HIGH for five minutes. Take a smoke match, light it, and using a smoke match tube, hold it at the top edge of the fire opening, 25mm down and 25mm in. Starting 50mm in from either side, run the smoke match across the opening. All the smoke should be drawn away up the flue. Any smoke returning into the room indicates that spillage is occurring. If the initial spillage test fails, run the fire for a further 10 minutes and repeat the test. When the test has been completed satisfactorily, repeat with any extractor fans in the premises running on the highest setting, and any communicating doors open. Finally, repeat with all doors open.

NOTE: If spillage is still indicated after undertaking all of the above, there may be a fault in the flue, or insufficient ventilation is present.

If the problem cannot be rectified immediately, then expert advice should be sought. Inform the user, disconnect the fire, and attach an explanatory label.



10.7 BRIEFING THE CUSTOMER

All instructions must be handed to the user for safekeeping. **Show the customer how to light and control the fire.**

After commissioning the appliance, the customer should be instructed on the safe use of the appliance and the need for regular servicing. Frequency of service depends on usage, but **MUST** be carried out at least once annually.

Scratched and other superficial damage to the matt black paintwork of the appliance can be covered with matching heatproof spray. Use only the manufacturers' recommended spray paint. Paint only when the fire is OFF and cold. Always mask off the surrounding area to prevent contamination with overspray. Ventilate the room during the use of the spray.

DO NOT attempt to spray paint the pebbles or ceramics, or wash them in water.

11.0 SERVICING

Ensure that the fire is fully cold before attempting service. A suggested procedure for servicing is detailed below.

1. Lay out the dust sheet and tools.
2. Carefully remove the ash pan door, and ceramic components.
3. Inspect the area around the top of the fireplace opening for signs of spillage.
4. Isolate the gas supply at the appliance inlet elbow, and disconnect the gas supply pipe. Remove the two screws securing the tray to the hearth.
5. Lift the burner tray from firebowl.

11.0 SERVICING (continued)

6. Check the area around the firebowl for rubble accumulation and remove. If debris is excessive, initiate remedial work on the flue.
7. Check the flue with smoke pellet for correct operation.
8. Strip off the burner pipes and clean thoroughly.
9. Clean out the injector and pilot assembly. DO NOT attempt to dismantle the pilot unit.
10. Ensure the injector is aligned squarely with the venturi tube. Re-assemble and re-fit the burner tray.
11. Re fit and replace the ceramics, using genuine spares where necessary.
12. Turn on the gas supply, and leak test.
13. Check any purpose provided ventilation is un-obstructed.
14. Light the fire and test for spillage.
15. Check setting pressure and safe operation of the appliance.

For specific servicing instructions, see the relevant sections.

11.1 CLEANING THE CERAMICS

Remove the ceramic components. Gently clean in the open air. Be careful not to create dust from the pebbles. Where necessary replace damaged components with genuine spares. Seal scrap components in plastic bags and dispose of at proper refuse sites as directed.

Re-fit the pebbles carefully by referring to the relevant section of these instructions.

11.2 CLEANING THE CONCRETE FIREBOWL

The concrete areas of the appliance may be cleaned using a soft dry brush. The firebowl may be painted using certain types of emulsion paints. It is recommended that a small hidden area of concrete be tested before proceeding to paint the entire bowl.

11.3 DISMANTLING THE BURNER TRAY

Remove the tray as previously described. The pilot unit can be removed by undoing the tubing nut, the thermocouple nut on the rear of the valve, lint arrestor, two securing screws, and lifting away. Remove the tubing nut from the valve end of the pilot pipe, and blow through to dislodge any debris that may be present. Clean the exterior of the pilot assembly with a soft brush and blow through the flame ports on the pilot head. Check the aeration holes are free from lint or dirt. The pilot assembly is a non-serviceable item, and should not be taken apart. The aeration hole must be absolutely clear internally for proper operation. A thoroughly cleaned (inside and out) oxy-pilot will cure a wide range of ignition faults.

Remove the two tubing nuts on the ends of the gas pipe to the injector elbow. Release the screw through the supporting leg and lift assembly clear. The injector pipe can now be checked for debris. Remove the nut retaining the injector elbow. Blow through the elbow to remove any debris.

Remote Control Versions - The valve is not field serviceable.

Manual Control Versions - The valve is not field serviceable, apart from the pilot filter. Remove the control knob by pulling it forwards, then remove the largest of the three screws on the face of the valve. Slide the filter out and clean away any debris that may have accumulated. The filter element should also be blown clean. This component should not require replacement, however if signs of deterioration are evident then a genuine spare must be used. If a large amount of debris is present in the filter then the pipework and control should be thoroughly cleaned before re-assembly.

12.0 TROUBLESHOOTING GUIDE

Fire sparks but pilot does not light

No gas to fire, check isolators are open.
Pipework blockage, clean out.
Air not fully purged, repurge supply or wait longer.
Spark earthing to metal work, reset gap correctly.
Blocked pilot, clean out internally.

Pilot lights but then goes out

Severe restriction in gas supply, clear obstruction.
Faulty thermocouple, replace pilot unit.
Hold control knob in for longer.
Manual versions only - Check control knob does not foul data plate.

Fire does not spark at pilot

HT lead detached, refit.
Spark gap too large or small, reset correctly.
Faulty piezo unit, replace.
Debris shorting out electrode, clean.

Fire runs for a time and then cuts off

Excessive room draught or flue pull, rectify.
Loose or faulty thermocouple, rectify.
ODS system in operation.
Lint in pilot aeration hole, clean thoroughly internally

Pilot flame shrinks when fire is on high

Poor gas flow to fire, check pressure with fire on high.
If pressure is low, remove any restriction in pipework or valve.
Check all isolators are adequately sized and fully open.
Check meter pressure is adequate.
Lint in pilot aeration hole, clean thoroughly internally.

Fire smells when first lit or in use

Newness smell from brand new appliance.
Spillage occurring. Carry out spillage test and rectify any problems.
Low temperature sealants or combustible materials used in incorrect positions.

USER INSTRUCTIONS

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1.0 IMPORTANT NOTES

The installation of this fire **MUST** only be carried out by a competent person (such as a CORGI registered fitter) in accordance with the Gas Safety (Installation and Use) Regulations 1998, the relevant British Standards, Codes of Practice, the Building Regulations and the manufacturers' instructions.

Failure to comply with the above recommendations could lead to prosecution and invalidate the appliance warranty.

Please ensure you are handed all of the manufacturers documents on completion of the installation. This will include these instructions.

Always keep a note of the installer's name and address, the original purchase receipt and the date of installation for future reference.

The fire and flue should be serviced regularly to ensure continued safe operation. See the servicing section for further details. Frequency of service will depend on use, but **MUST** be carried out at least once annually.

Parts of this appliance become naturally hot during use. It is recommended that a suitable fire guard conforming to BS 6778 is used, especially where young children, the elderly, or infirm are concerned.

Combustible items, such as flooring and furniture, and soft wall coverings (such as blown vinyl or embossed paper) may discolour if fitted too close to the fire. See relevant section for further details on clearances to combustibles. No combustible material or flooring should protrude onto the hearth.

DO NOT burn any foreign material on this fire, the fuel effect must be of the correct type and laid out in accordance with the relevant section of these instructions. Failure to do so could create a hazard or lead to sooting.

Before the appliance is installed, the chimney should be swept. All flues should be checked by the installer to ensure there are no defects or obstructions that may prevent the flow of combustion products.

This appliance is fitted with a flue blockage safety device which will shut down the fire if abnormal flue conditions occur. It is **NOT** a substitute for an independently mounted Carbon Monoxide detector.

The concrete firebowl has been hand finished, and as such some slight defects may be present. Also, due to the natural ingredients used within the concrete mix, some slight surface cracking and discoloration may occur over time. This is perfectly normal and is to be expected.

The fire is only suitable for use with the gas type for which it is supplied.

Remote control models only - This appliance features a battery-operated remote control system. Remote control models, under normal usage will need new batteries approximately every twelve months.

Remote control Handset requirements - 1 x 'PP3' type (9 volt)
Receiver/motor unit requirements - 4 x 'AA' type (1.5 volt)

Refer to the appropriate section of these instructions for details of how to change the batteries.

2.0 CLEARANCES TO COMBUSTIBLES

A combustible shelf may be fixed to the wall above the fire, providing that it complies with the dimensions given below.

A non-combustible shelf may be fitted to within 10mm of the top edge of the fireframe.

Combustible materials, such as wood, may be fitted to within 100mm (4in) of either side of the frame of the appliance, providing the forward projection does not exceed 100mm (4in).

Any combustible side walls must be at least 500mm to the side of the radiant heat source.

<i>Maximum depth of shelf</i>	<i>Minimum distance from inside edge of fire frame to underside of shelf</i>
100mm (4in)	850mm (33 1/2 in)
150mm (6in)	950mm (37 1/2 in)
203mm (8in)	1000mm (39 1/2 in)

As with all heating appliances, any decorations, soft furnishings, and wall coverings (i.e. flock, blown vinyl and embossed paper) positioned too close to the appliance may discolour or scorch.

3.0 VENTILATION

No purpose provided ventilation is normally required for this appliance. The requirements of other appliances operating in the same space or room, and the results of a spillage test must be taken into consideration when assessing ventilation requirements, this will have been carried out by your CORGI registered installer.

For Republic of Ireland, ventilation may be required, see IS 813, ICP3, IS 327, and any other rules in force.

4.0 OPERATING INSTRUCTIONS (manual versions)

The pilot is visible through the left hand side of the front ceramic strip. Push in and turn the control knob to the SPARK position, and hold there for a few seconds.

Continue turning anti-clockwise through the spark click to the PILOT light position, ensuring the pilot has lit. If not, return the knob clockwise, and repeat.

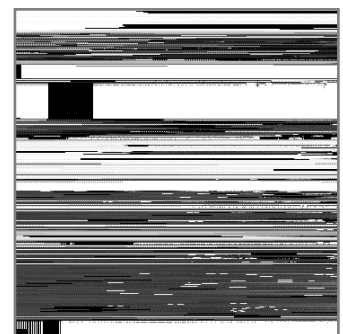
When the pilot lights after the spark, keep the knob depressed for approximately ten seconds. Now release the knob and the pilot should stay alight. If not, repeat ignition. If the pilot is extinguished **during use**, wait three minutes before repeating the ignition procedure.

To achieve the HIGH setting, push the control knob in slightly and continue turning anti-clockwise to the high position. The main burner should light after a few seconds.

To decrease the setting to LOW, turn the control knob clockwise to the low setting.

To turn to the PILOT position from the HIGH or LOW positions, press the control knob in, and return to the pilot position and release.

To turn the fire OFF, keep the knob pressed in, return to the off position and release.



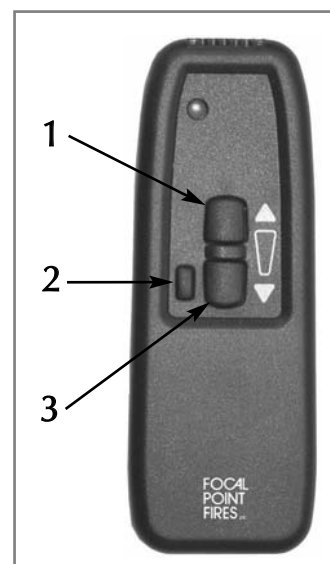
4.1 OPERATING INSTRUCTIONS (remote control versions)

The gas valve has two control knobs ;
Turn the main burner control (shown on left hand side of control valve) knob fully anti-clockwise.
Turn ignition knob (shown on right hand side of control valve) slightly left towards the ignition position until reaching the stop, press down and hold for a few seconds until pilot gas is flowing.
Continue pressing down the knob while turning further to the left to activate the piezo spark, continue to hold the knob down for a further 10 seconds after the pilot has been lit. If the pilot does not light repeat the previous steps.
Upon lighting the pilot and after the further 10 seconds, release the knob and turn further to the left to the ON position. The main burner will light and be controlled in accordance with the main burner control knob setting. Adjust the main burner control knob to the desired setting.



If the pilot is extinguished during use of the fire, you must wait three minutes before repeating the ignition procedure.
To turn the main burner OFF whilst keeping the pilot flame lit, turn the ignition control knob to the pilot position then only the pilot will remain lit.
To shut the fire off completely, press the ignition control knob down and continue turning to the right from the pilot position to the OFF position.
A safety interlock prevents re-ignition of the pilot flame until the thermocouple has cooled sufficiently to allow the magnetic valve unit to reset itself.

The remote control unit allows operation of the main burner between maximum and pilot only setting. It does not turn the pilot on or off.
The remote control handset incorporates an inbuilt safety feature to prevent the main burner being activated or turned up accidentally. It is necessary to press button 1 and 2 (see illustration) simultaneously to turn the fire up.
To turn the fire down press button 3 only.



5.0 REPLACING THE BATTERIES (remote control versions only)

Handset - Remove cover from rear of handset and insert 1 x 'PP3' (9 volt) battery - Replace cover
Appliance - **Ensure appliance is off and cool.** Remove cover from top of receiver box. The cover is protected by reflective foil, and located towards the right hand side, underneath the burner unit. Insert 4 x 'AA' (1.5 volt) batteries - Replace cover.

6.0 FLUE SPILLAGE MONITORING SYSTEM

This fire is fitted with a flue spillage safety device (ODS). If the fire shuts down during use for no apparent reason then several reasons may be suspected. If a door or window has been opened creating a draught, then pilot disturbance could be the problem, and removal of the draught should resolve this. The fire can then be re-lit in accordance with the previous section.

If pilot disturbance is not the cause, then the ODS safety system may be in operation. Switch the appliance OFF, call in your installer to check the flue and ventilation and carry out any remedial work required. DO NOT allow the appliance to be used until the flue system is passed as safe.

7.0 CLEANING

Before carrying out any of the following operations, ensure that the fire is OFF and completely cold. Debris that may form on the firebed should be periodically removed by a competent person. Large deposits could indicate deterioration of the flue. This should be repaired by a competent person, and the fire serviced before further use.

7.0 CLEANING (continued)

PAINTED AREAS - These can be cleaned using a dry cloth.

CERAMICS - See the relevant section in the Installation Guide of these instructions. Do not create dust from the ceramics. Clean gently in the open air. Replace components with original spares only as necessary.

CONCRETE AREAS - The concrete areas of the appliance may be cleaned using a soft dry brush. The firebowl may be painted using certain types of emulsion paints. It is recommended that a small hidden area of concrete be tested before proceeding to paint the entire bowl.

8.0 LIST OF SPARES

<i>PART NO.</i>	<i>ITEM</i>
CE/F550069	Pack of 22 large ceramic pebbles
CE/F550070	Pack of 8 small ceramic pebbles
CE/F780016	Fuel Matrix
CE/F780041	Front ceramic strip
FT/F730006	Pilot unit
FT/F930017	Remote control (handset only)