
Kinder Fires

Montana Inset Tray

KF10 – Nat. Gas

KF15 – L.P.G.

DECORATIVE COAL EFFECT GAS FIRE

G.C. No. 32-227-08

Installation and Maintenance Instructions

Hand these instructions to the user

This appliance is only for use on Natural Gas (G20) at a supply pressure of 20 mbar in G.B.
/ I.E. Model KF10

Or

G31 at a supply pressure of 37mbar in G.B. / I.E.
Model KF15

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Model number KF10 Natural Gas
 KF15 Propane Gas

Manufactured by:-

CFM Europe Ltd
Trentham Lakes
Stoke-on-Trent
ST4 4TJ

SECTION 1

INFORMATION AND REQUIREMENTS

1.0 APPLIANCE INFORMATION

Main injectors	Stereomatic size 500 (KF10) Stereomatic size 45 (KF15)
Pilot Type	S.I.T. Oxystop Type YA OP 9022 - (KF10) YA OP 9214 – (KF15)
Max. Gross Heat Input:	6.9 kW
Min. Gross Heat Input:	4.5 kW
Cold Pressure:	20.0 mbars +/-1.0 mbar (KF10) 37.0 mbars +/-1.0 mbar (KF15)
Ignition	Push-button Piezo
Electrode Spark Gap	4.0mm – KF10 3.0mm – KF15
Weight (without fender or pack)	5.5 kg
Fire Dimensions	
Width:	365mm
Height: :	250mm
Depth: (overall-without fender)	245mm
Gas Connection	8mm Compression (Supplied with fire)

SPILLAGE MONITORING SYSTEM

This appliance is fitted with a spillage monitoring system which shuts down the fire if the evacuation of combustion products from the fire is affected by a partially or fully blocked flue. If this system operates the fire will go out. If this occurs, leave the fire for at least three minutes then follow the lighting procedure as described in the previous section. **In the event of repeated operation a CORGI registered gas installer must be called to investigate and rectify the cause.**

INSTALLATION REQUIREMENTS

1.1 CONDITIONS OF INSTALLATION

It is the law that all gas appliances are installed only by a CORGI Registered Installer, in accordance with these installation instructions and the Gas Safety (Installation and Use) Regulations 1998 (as amended). Failure to install appliances correctly could lead to prosecution. It is in your own interest and that of safety to comply with the law.

The installation must also be in accordance with all relevant parts of the Local and National Building Regulations where appropriate, the Building Regulations (Scotland Consolidation) issued by the Scottish Development Department, and all applicable requirements of the following British Standard Code of Practice.

1. B.S. 5871 Part 3 Installation of Decorative Fuel Effect Gas Fires
2. B.S. 6891 Installation of Gas Pipework
3. B.S. 5440 Parts 1 & 2 Installation of Flues and Ventilation
4. B.S. 1251 Open fire place components
5. B.S. 715 Metal flue pipes for gas appliances
6. B.S. 6461 Part 1 Installation of Chimneys and flues
7. B.S. 1289 Clay Flue Blocks and Terminals
8. I.S. 813 : 1996 : Domestic Gas Installation

No purpose made additional ventilation is required for this appliance when installed in G.B. When installed in I.E. please consult document I.S. 813 : 1996 Domestic Gas Installation, which is issued by the National Standards Authority of Ireland. When installed in Northern Ireland, please refer to local building regulations. Any purpose made ventilation should be checked periodically to ensure it is free from obstruction.

1.2 FLUE AND CHIMNEY SUITABILITY

This appliance is designed for use with conventional brick built or lined chimneys and fabricated flues. All flues must conform to the following minimum dimensions.

Minimum diameter of circular flues	175 mm
Minimum effective height of all flue types	3 metres

1.3 FIREPLACE / SURROUND SUITABILITY

The fire must only be installed on a hearth it **must not be installed directly onto carpet or other combustible floor materials.**

The fire is suitable for fitting to non-combustible fireplace surrounds and proprietary fireplace surrounds with a temperature rating of at least 150°C.

1.4 SHELF POSITION

The fire may be fitted below a combustible shelf providing there is a minimum distance of 200mm above the top of the fire opening and the shelf does not project more than 150mm. If the shelf overhangs more than 150mm the distance between the fire top of the fire opening and the shelf must be increased by 15mm for every 25mm of additional overhang over 150mm.

1.5 FLUE / CHIMNEY INSPECTION

Before commencing installation, a flue or chimney should be inspected to ensure that all the following conditions are satisfied.

1. Check that the chimney / flue only serves one fireplace and is clear of any obstruction. Any dampers or register plates must be removed or locked in the open position.
2. Brick/stone built chimneys or any chimney or flue which has been used for an appliance burning fuel other than gas must be thoroughly swept. The base of the chimney / flue must also be thoroughly cleared of debris etc.
3. Any under-floor air supply to the fireplace must be completely sealed off.
4. Ensure that the inside of the chimney / flue is in good condition along its length and check that there is no leakage of smoke through the structure of the chimney during and after the smoke pellet test.
5. **Using a smoke pellet, check that there is an up-draught in the chimney / flue and that the smoke can be seen issuing from the terminal* / chimney pot outside. There must be no leakage of smoke through the structure of the chimney during or after the smoke pellet test and it is important to check inside upstairs rooms adjacent to the chimney / flue.** Check the chimney pot / terminal* and general condition of the brickwork or masonry. If the chimney or flue is in poor condition or if there is no up-draught do not proceed with the installation.

* If there is a history of down-draught conditions with the chimney / flue, a tested and certificated flue terminal or cowl should be considered, making sure that it is suitable for the relevant flue type and for decorative fuel effect fires.

A spillage test must always be carried out during commissioning of the appliance.

1.6 FIRE PLACE OPENING / SPACE

This appliance is specifically designed to fit in to standard 16" fireplace openings and is tapered to match the shape of chairbricks manufactured to B. S. 1251. The fireplace opening must be within the following dimensions.

Width of front of fire opening	385 min, 460 max.
Height of fire opening	500 min, 570 max.
Depth of fire opening	200 min, 300 max

1.7 HEARTH

This appliance must only be installed on to a concrete or non-combustible hearth. The hearth material must be a minimum thickness of 13mm with the top surface at least 50mm above the floor. The hearth must be fitted symmetrically about the fire opening and have a minimum width of 760mm and a minimum projection of 300mm forwards from the fire opening.

SECTION 2 INSTALLATION OF FIRE

2.1 UNPACKING THE FIRE

Carefully lift the fire out of the carton. Remove the loose item packaging carefully from the pack. Check the contents as listed :-

Packing Check List

1 off	Fire base / burner assembly
1 off	Boxed hard ceramic base and ceramic front and 23 synthetic coals
1 off each	User instruction book and Installation book

2.2 INSTALLING THE FIRE

- Carefully place the fire in the fire opening and check that it sits flat on the base of the fire opening and that the width of the fire place is sufficient to for the fire to fit in without the fuelbed projecting forward of the fire opening.
- Centralise the fire in the opening and mark the centres of the two fixing holes either side of the control panel.
- Whilst the fire is still in position, decide which side the gas supply is to enter the fire from and plan the pipe layout accordingly. The inlet elbow can be loosened and rotated if necessary. See figs. 1 & 2 below for suggested pipe layouts.

fig 1.

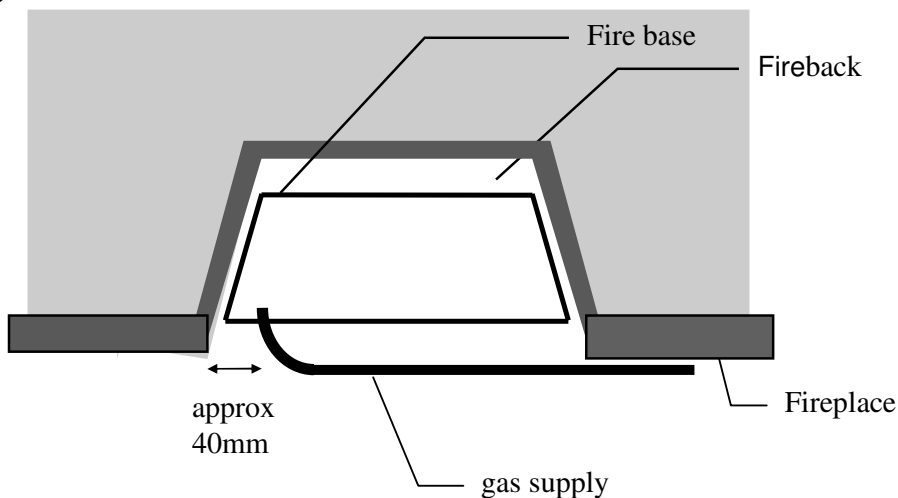
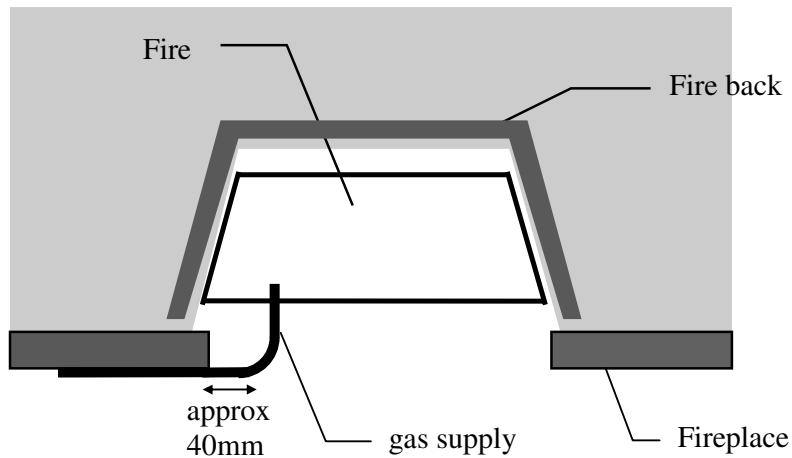


fig.2



Note : Before breaking into the gas supply a pressure drop test should be carried out to establish that the existing pipework is sound.

- d) Carefully withdraw the fire base from the opening to enable the gas supply and fire fixing to be completed.
- e) Mark out and drill 2 off suitably sized holes in the base of the fire opening in the positions marked to accommodate no. 10 or 12 wall plugs.
- f) Fit suitable wallplugs provided in to the two fixing holes.

g) Making the Gas Connection

The gas connection should be made to the appliance inlet elbow using 8mm rigid tubing. An isolating elbow or gas cock must be fitted to the pipe work.

- h) Lift the fire base in to position and secure to the base of the fire opening using the two fixing screws provided. Ensure that the fire sits level and is securely screwed down.
- i) **Before making the final gas connection, thoroughly purge the gas supply pipe work to remove all foreign matter, otherwise serious damage may be caused to the gas control valve on the fire.**

2.3 GAS SOUNDNESS AND BURNER PRESSURE.

- a) Remove the pressure test point screw from the inlet elbow and fit a manometer.
- b) Turn on the main gas supply and carry out a gas soundness test.
- c) Depress the control knob and turn anti-clockwise to the position marked pilot. Hold in the control knob for a few seconds to purge the pipe work then press the igniter button. The burner should light, continue to hold the control knob for a few seconds then turn to the full-on position.
- d) Check that the gas pressure is 20.0 mbar (+/- 1.0mbar – KF10) or 37.0 mb(+/-1.0mbar – KF15). Turn off the fire, remove the manometer and refit the pressure test point screw. Check the pressure test point screw for gas soundness with the appliance turned on using a suitable leak detection fluid or detector.

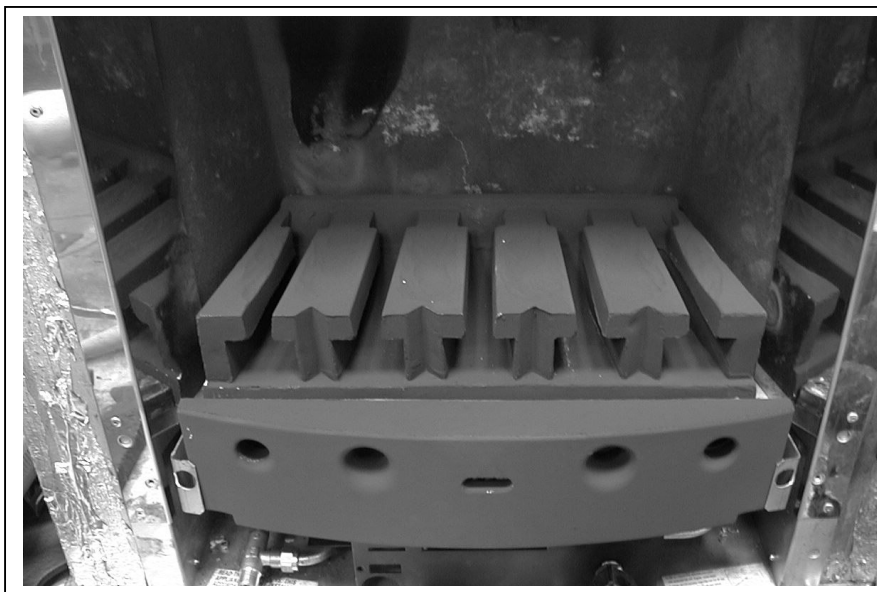
SECTION 3 ASSEMBLING THE FUEL BED AND COMMISSIONING

3.1 ASSEMBLING THE FUEL BED

a) Place the (insulating mat LPG only) and ceramic base centrally on to the fuelbed support and pull fully forwards to the burner. Make sure that the ceramic base is located centrally in the fire box. **Ensure that both parts fit fully down onto the support and are not lodged on the burner. See below.**



Locate the ceramic front rail between the two retaining brackets at the front of the burner assembly. See below



Select six of the larger coals and place them equally along the ceramic front rail. See below



Select five of the larger coals and place them behind the front row ensuring that the flame ports are not obstructed as shown below



Select three large and two small coals and place them as shown below



Select the four remaining large coals and place onto the fuelbed as shown below



Fit the remaining three small coals on the rear row of coals. See below



The exact position and fit of the coals may be finely adjusted to give the most pleasing and random appearance.

NOTE : USE ONLY THE COALS SUPPLIED WITH THE FIRE. WHEN REPLACING USED COALS REMOVE ALL THE OLD COALS AND DISCARD AND FIT A COMPLETE REPLACEMENT SET OF COALS OF THE CORRECT TYPE. DO NOT FIT ADDITIONAL COALS OR ANY COALS OTHER THAN A GENUINE REPLACEMENT SET.

3.2 LIGHTING THE APPLIANCE

- a) Turn on the gas isolation tap.
- b) Depress the control knob and turn anti-clockwise to the position marked pilot. Hold in the control knob for a few seconds to purge the pipe work.
- c) Continue to hold-in the control knob and press the igniter button. If the burner does not light, continue to press the igniter button until ignition occurs. Continue to hold the control knob for 5-10 seconds to allow the thermocouple to heat up, if the pilot goes out when the control knob is released, repeat the lighting sequence.
- d) Turn the control knob in the anti-clockwise direction to the high position and the main burner will light.
- e) Turn the control knob clockwise to the low position and the gas input will be reduced to the minimum setting.
- f) Slightly depress the control knob and turn to the pilot position, the main burner will go out but the pilot will remain lit.
- g) Slightly depress the control knob and turn to the off position, the pilot will now be extinguished.

3.3 CHECKING FOR CLEARANCE OF COMBUSTION PRODUCTS

- a) Close all doors and windows in the room.
- b) Light the fire and allow to run for approximately 5 minutes on high position.
- c) After approximately 5 minutes hold a smoke match just inside and below the centre of the lower front edge of the top of the fire opening. (It is recommended that a suitable smoke match holder is used when checking for clearance of combustion products). All smoke generated should be drawn back into the flue. If slight spillage occurs or if in doubt, repeat the test after a further 5-10 minutes.
- d) If spillage persists, the flue is not functioning correctly and a fault exists. If, after investigation the fault cannot be traced and rectified, the fire must be disconnected from the gas supply and expert advice obtained.
- e) If there is an extractor fan fitted any where in the vicinity of the appliance, the test should be repeated with the fan running on maximum and all interconnecting doors open.
- f) After ensuring that the fire is safe to use it should be left on high position to fully warm up. During this time a slight odour may be noticed, this is due to the "newness" of the fire and will soon disappear. At this stage any minor adjustments to the coals should be made using suitable long handled tongs and taking care not to damage the coals.

Finally, hand the instructions over to the customer and explain the operation of the fire.

SECTION 4

MAINTENANCE

Servicing Notes

- Servicing should be carried out annually by a competent person such as a CORGI registered engineer. **This is a condition of the extended guarantee.**
- The service should include visually checking the chimney and fire opening for accumulations of debris and a smoke test to check for a positive up-draught in the chimney.
- The condition of the coals should be checked and **if necessary the whole set should be replaced with a genuine replacement set.**
- The burner assembly is designed to be removed as a complete unit for ease of access. **After any servicing work a gas soundness check must always be carried out.**

4.1 Removing the fire from the fireplace .

- 4.1.1 Lift the fret and ash pan cover out of the way and put them in a safe location. Remove the loose coals from the fire. Carefully lift off the ceramic coal support and the fuelbed and place in a safe location.
- 4.1.2 Isolate the gas supply and remove the inlet pipe from the appliance inlet elbow. Unscrew the two fixing screws which secure the fire base to the base of the fire opening. Remove the burner assembly from the fire opening.

4.2 Removing the Piezo Igniter

- 4.2.1 Remove the fire assembly as above.
- 4.2.2 Disconnect the ignition lead from the piezo and unscrew the retaining nut on the rear of the control panel. Carefully remove the piezo heat shield which is retained by the piezo retaining nut. Withdraw the piezo from the front of the control panel. Reassemble in reverse order and carry out a gas soundness test.

4.3 Removing the Control Tap from the fire.

- 4.3.1 Remove the fire assembly as in section 4.1.
- 4.3.2 Pull the control knob off the control tap spindle.
- 4.3.3 Loosen and remove the three gas pipe retaining nuts from the control tap and release the ends of the gas pipes from the control tap body. Loosen and remove the thermocouple securing nut from the end of the control tap.
- 4.3.4 Unscrew the control tap locknut from the front of the control panel and remove the control tap.
- 4.3.5 To refit a control tap, reassemble in reverse order noting that the control tap locates with a flat in the control panel. Carry out a gas soundness test after reassembly.

4.4 Removing the Pilot Assembly

Note: Because this appliance is fitted with an integral pilot it is not possible to replace the thermocouple separately, because the thermocouple position is factory set to a tight tolerance. Any replacement of parts on the pilot requires a complete new pilot assembly.

- 4.4.1 Remove the fire assembly as in section 4.1
- 4.4.2 Unscrew and remove the thermocouple retaining nut from the end of the control tap and disconnect the ignition lead from the pilot electrode.
- 4.4.3 Unscrew and remove the two pozi-driv screws which secure the pilot assembly to the burner. Remove the pilot.
- 4.4.4 Reassemble in reverse order and carry out a gas soundness test.

Due to our policy of continual improvement and development the exact accuracy of illustrations and descriptions contained in this book cannot be guaranteed

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