



*Wood, multi-fuel and gas stoves,
fires and accessories*

EXCEL-CPD GAS STOVE

INSTALLATION AND SERVICING INSTRUCTIONS

TO BE LEFT WITH THE CUSTOMER

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Model	Excel Flat Top	Excel High Canopy
Heat Output dependent on chimney draught	4.5kW (15,500 BTUs +/-5%)	
Gas input gross	6kW (20,500 BTUs +/-5%)	
Ignition controls and fittings	Variable Rotary gas control with integrated Piezo ignition, permanent pilot facility and flame failure safety device - 8mm pipe connections	
Chimney requirement and fittings	Class I or Class II - 5" diameter Rear/Top outlet	
Height	515mm (20.5")	825mm (32.5")
Width	598mm (23.6")	598mm (23.7")
Depth	309mm (12.1")	311mm (12.2")
Height to centre of rear flue	335mm (13.25")	335mm (13.25")
Height to top of top flue	575mm (22.4")	875mm (34.5")

1 TECHNICAL INFORMATION

GAS	NATURAL GAS G20/I ₂ H	PROPANE G31/I ₃ P
Heat Input (Gross)	6.04 kW	6.04 kW
Supply Pressure	21 mbar	37 mbar
Burner Pressure	18.5 mbar	35.5 mbar
Gas Rate	0.58m ³ /h	0.23m ³ /h
Injector Size	Bray 18/380	Bray 18/160

THIS PRODUCT IS FOR USE IN G.B. AND I.E. ONLY

GENERAL POINTS FOR THE PURCHASER

The EXCEL stove has been individually designed to add traditional charm and character to your home. Providing a highly efficient heat source, the EXCEL has the look and charm of a 'real' stove coupled with the convenience of clean burning gas.

The stove is designed to run both off natural or LPG gas however each individual appliance is only capable of running off the type of gas specified at the time of purchase. It is important to note that once a type of gas has been specified the stove cannot run off any other type. The type of gas which your stove is capable of burning is stated on the data information panel (See Paragraph 3).

THERMOSTATIC SWITCH (TTB)

1. The TTB is normally a closed bi-metallic switch which is designed to open at a pre-set temperature (90°C) and reset to the closed position when the temperature falls to a reset level (normally 15°C below the operating temperature).
2. The system is not adjustable, and should not be rendered inoperative.
3. If parts of the system require replacement only original parts must be used. Available through your local Yeoman dealer.

**BEFORE INSTALLING THE STOVE CHECK
THAT THE DATA PLATE INDICATES THE
SUITABILITY OF THE TYPE OF GAS BEING USED.
EG LPG PRESSURE 37 MB NAT GAS PRESSURE 20 MB.**

2 INFORMATION FOR INSTALLERS

The EXCEL is a gas stove designed to run on either natural gas or LPG. The burner units are not interchangeable between the two types of gas.

The stove is a radiant convector fuel effect stove. The EXCEL can be placed directly inside any fireplace opening of the dimensions noted within the installation instructions.

Important Notes

- a) These instructions have been compiled in accordance with BS 5258 Part 13: 1986.
Ensure that the stove corresponds to the type of gas it is to be used with. This can be confirmed by checking the data badge located on the rear face of the appliance.
Prior to installation it is essential that the chimney should be swept and its condition and suitability for use with the appliance checked.
- b) It is required by law that any appliance using natural or LPG gas is installed by a competent person (e.g. CORGI registered, ACOP assessed).

The installation must be in accordance with the Gas Safety Installation & Use Regulations 1994 amend and with these instructions, and all the relevant parts of the Local and National Building Regulations, and the recommendations of the relevant British Standards Codes of Practice.

- The Gas Safety (Installation and Use) Regulations 1994 + amendment 1996
- The Building Regulations (issued by the Department of the Environment)
- The Building Standards (Scotland)(Consolidation) Regulations

APPLIANCE TO BE INSTALLED IN ACCORDANCE TO LOCAL AND NATIONAL REGULATIONS

All surfaces except the control knob are considered to be working surfaces

FIREGUARD WARNING

**THE WINDOW AND FRAME ON THIS APPLIANCE ACTS AS A
FIREGUARD CONFORMING TO BS:1945 - 1971 AND SATISFIES THE
HEATING APPLIANCE (FIREGUARDS) REGULATIONS 1991.**

**NO PART OF THE WINDOW OR FRAME SHOULD BE PERMANENTLY
REMOVED**

**IT DOES NOT GIVE FULL PROTECTION FOR YOUNG CHILDREN OR
THE INFIRM**

3 SITING THE APPLIANCE

The gas supply connection to the appliance is at the rear right hand side. The connection requires 8mm diameter semi rigid pipe, not more than 1 metre in length.

The appliance can be installed in any adequate area suitable for solid fuel fires and stoves.

The flue pipe required is either a single or double walled pipe of 126mm (5") diameter min. We recommend insulated twin wall flue.

If the appliance has to be located in an opening, there must be at least a clearance of 50mm at the left hand side of the appliance, 150mm at the right hand side of the appliance, 75mm to the rear measured from the rear edge of the draft diverter and 50mm above from any non combustible materials. This distance must be extended to a minimum clearance of 610mm from any combustible materials.

HEARTH

The stove must stand on a fire proof hearth.

To comply with the Building Regulations issued by the Department of the Environment, the following points should be noted when choosing a hearth:

- i the hearth must be made of non combustible material of thickness 12mm

- iii the hearth must not be capable of inadvertent covering by a carpet or rug. This should be achieved by either:
 - (a) the hearth being 50mm (2") above the level of the room floor.
 - (b) a fender or kerb around the edge of the hearth to a height of at least 50mm (2") above the floor.

FIRE SURROUNDS

Refer to surround manufacturers instructions.

4 FLUE CONNECTION

Before installation of the appliance the chimney or flue must be inspected and passed as suitable. A smoke test should be carried out before the installation of the stove. Due to the internal dilution/diversion system in the Excel stove it is not obligatory to line the chimney providing that it has been inspected by a C.O.R.G.I. installer and passed as suitable/sound.

The EXCEL is suitable for both Class 1 and 2 flues (the Building Regulations 1984).

The appliance is also suitable for pre-cast flues, pre-cast chimney block, pre-cast flue block and ridge tile vent.

It is the responsibility of the installer to ensure that the flue to be connected is suitable for the conditions experienced when burning natural or LPG gas.

Ideally it is recommended that a minimum height of 610mm from the stove should be established before any significant change in the direction of the flue. Horizontal or negative gradients in the flue pipe should be avoided.

The minimum effective height of the flue must be 3 metres measured from the hearth to the terminator of the flue. If the flue has any non vertical sections the height should be increased in line with BS5440 Part 1. Prior to installation the installer should ensure that the flue is free from obstruction and ideally a chimney should be swept and subsequently smoke tested. Ensure that any dampers are fixed in a permanently open position, and that the chimney/flue is, in the professional opinion of the installer, of an overall suitability for the purpose intended.

SEALING FLUE JOINTS

It is recommended that Flue Joints are sealed with high temperature tape such as aluminium tape.

5 VENTILATION (G.B. Only)

The Excel is designed to be used with a minimum of 7 litres per hour of gas.

6 CONNECTING THE GAS SUPPLY

Ensure that the gas supply pipework is capable of delivering the required volume of gas in accordance with the relevant British Standards.

The 8mm diameter semi-rigid gas inlet pipe 1 metre maximum length should be connected to the inlet of the gas valve using the nut and 8mm olive supplied. Support the control whilst finally tightening the supply pipe. The gas supply to the fire should be terminated near the fireplace with a safety type service tap. Do not make any connections to the appliance until all pipe work has been purged to expell any dust or debris. Failure to do this may result in a blocked injection or tap and will invalidate the guarantee.

The 8mm nut and olive will be found secured to the thermocouple.

7 PRESSURE TESTING

The gas pressure to the stove must be measured at the burner test nipple.

- i For PROPANE this is 35.5 mbar measured with the appliance in the full rate position.
- ii For NATURAL GAS this is 18.5 mbar measured with the appliance in the full rate position.
- iii Check the installation for gas leaks.

8 ARRANGING THE LAYOUT OF THE COALS

Only the ceramic coals supplied with this appliance are to be used. The coals should only be laid as shown on the following page. Replacement coals and ceramics are available from your Yeoman dealer.

DO NOT OBSTRUCT THE PILOT

Yeoman Stoves accept no responsibility for any injury sustained whilst handling hot ceramics.

COAL LAYOUT - EXCEL-CPD

Instructions for the layout of the prefixed ceramic matrix and loose coals for Yeoman Excel fitted with CPD burner unit.

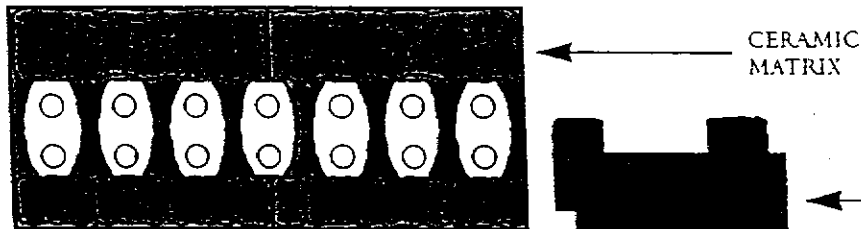
Parts - 1 LH fixed matrix, 1 RH fixed matrix, 1 Ceramic mat, 13 Medium ceramic coals, 6 Small ceramic coals.

DO NOT USE THE STOVE WITHOUT THE CERAMIC MAT AS THIS WILL DAMAGE THE TOP PLATE OF THE BURNER.

Stage 1

Lay the ceramic mat onto the top of the burner body then lay the 2 piece ceramic matrix on to the top of the ceramic mat with two holes on the burner lining up with one hole in the matrix as shown in fig 1.

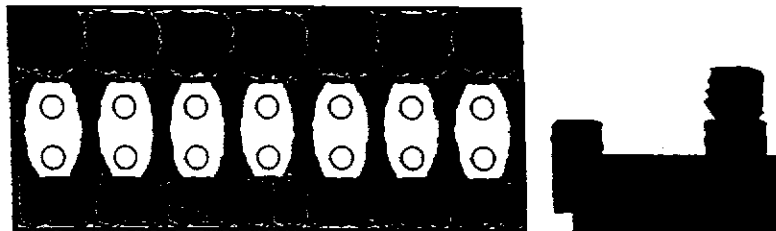
Fig 1



Stage 2

Place seven medium coals on the rear block of the matrix as shown in fig 2.

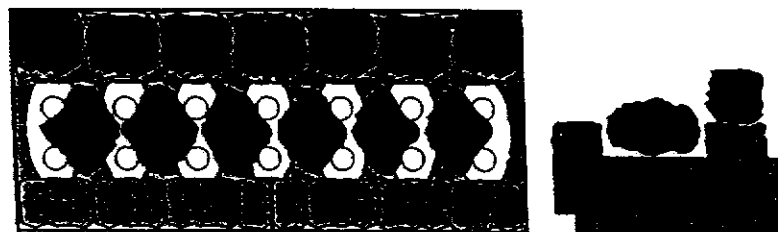
Fig 2



Stage 3

Place six medium coals, one on each spar of the matrix, with the corners of the coals touching as shown on fig 3.

Fig 3



Stage 4

Place six small coals, each one half on top of the first layer and one half on the top of the second layer of coals, as shown on fig 4.

Fig 4



9 OPERATING THE STOVE

IT IS VERY IMPORTANT TO READ THESE INSTRUCTIONS
THOROUGHLY BEFORE LIGHTING THE STOVE

The Excel gas stove operates with a traditional permanent pilot light.

The knob for ignition and power control is located on the lower right hand side of the stove.

The pilot light is located at the front middle of the coal matrix.

If the Flame Supervision Device Actuating Flame (the Pilot Light) is extinguished either by intention or not, no attempt should be made to relight until **3 minutes have elapsed**.

Important: Immediately after lighting, the stove must be left on maximum setting for ten minutes in order to warm up the chimney.

(i) Igniting the permanent pilot light

- 1 Depress control knob fully.
- 2 Whilst depressed, turn knob sharply 90 degrees anticlockwise to 'PILOT' setting Repeat until pilot light is visibly lit. This may take several attempts.
- 3 **KEEP KNOB DEPRESSED AT THIS POINT FOR 15 - 20 SECONDS.**
- 4 Upon releasing the knob, the permanent pilot light will be lit.

(ii) Running the stove at low setting

- 1 Ignite permanent pilot as shown in 9(i).
- 2 With control knob at 'PILOT' setting, turn in an anti clockwise direction to 'LOW' setting.
- 3 The stove is now burning at its lowest operating output.

(iii) Running the stove at a higher output

- 1 Ignite stove to 'low' setting by following instructions in 9(i) and 9(ii) respectively.
- 2 Output can be increased, by turning the control knob progressively in a clockwise direction until the desired level is achieved, up to a maximum as shown by the 'HIGH' symbol on the control panel.

(iv) Extinguishing the stove back to permanent pilot setting

- 1 From any heat setting, depress control knob fully and turn clockwise to 'PILOT' position.
- 2 Release.

(v) Extinguishing the stove fully

- 1 From any heat setting or the permanent pilot, depress control knob fully and turn clockwise to 'OFF' position.

10 COMMISIONING THE STOVE

A spillage test **MUST** be made before the installed fire is left with the customer.

Carry out the test by first closing all doors and windows in the room containing the fire.

Ensure that the fire is burning at full rate for a minimum of 5 minutes to warm the flue.

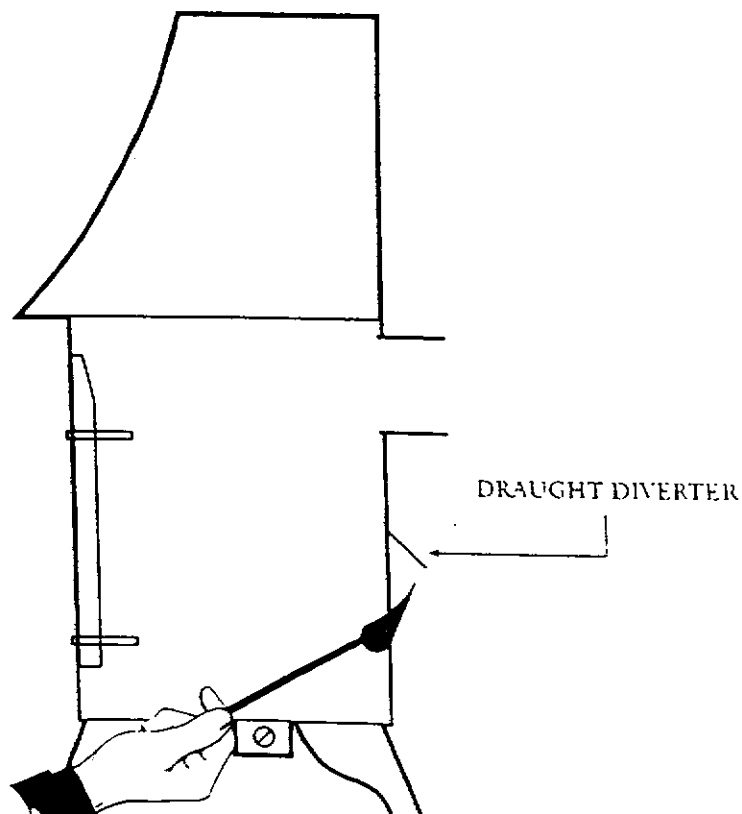
Using a smoke match - run along the edge of the draught diverter. The smoke should be drawn into the draft diverter. The draught diverter runs the whole width of the stove and the test can be done from right or left.

If most of the smoke is not drawn into the draught diverter leave for a further 10 minutes and repeat test.

If there is a fan in an adjacent room(s) the spillage test must be repeated with the fan running on full power and all connecting doors between the fire and fan left open.

If there are still problems the chimney/flue may require attention. Disconnect the stove and seek expert advice.

The stove will produce an odour and/or smoke for the first few hours of use. Please ventilate the room.



TROUBLESHOOTING

1 The gas pilot will not ignite or stay lit?

- Ensure the gas is turned on at the appliance and the meter/cylinder
- Hold in the pilot gas button for at least twenty seconds once the pilot is alight to ensure the operation of the safety thermocouple valve
- Ensure that the pilot injector is not obstructed or blocked and it is free from any dust or dirt
- Ensure that the thermocouple has not been damaged in transit. This is a very delicate electro-magnetic device
- On propane, the cylinder could be empty

2 The pilot is not burning or performing correctly?

- Ensure that the aeration ring shutter on the pilot head is fully open so that the pilot flame is initially intense; this can be subsequently turned down
- Ensure the pilot flame is the correct size for the type of gas. The flame should be focused on the thermocouple probe, so that it is evenly encircled
- The pilot should have three flames, one directed towards the thermocouple and one towards the bed of the fire. The pilot flame will have been set correctly in the factory
- **After altering the pilot, check for any leakage of gas**

3 The Main Burner does not seem to be burning correctly?

- Ensure adequate gas pressure to the appliance. The pressure can be obtained by unscrewing the pressure test nipple and applying a suitable pressure gauge (i.e. a manometer). Ensure adequate volume of gas is being used. Once the fire is burning on maximum, turn off all other gas appliances in the house and calculate the fuel being burned from the gas meter
- Make sure that the burner is burning correctly. The flame should be fairly even across the top of the burner before any coals are placed on top

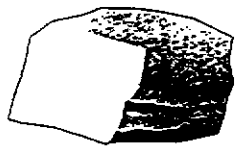
11 SERVICING INSTRUCTIONS

These instructions are meant to be used in conjunction with the normal servicing practices which a C.O.R.G.I. installer would use.

- 1 Open the stove door by releasing 4 brass door nuts and washers..
- 2 Remove the coals carefully and replace any that are damaged or broken.
- 3 Clean any deposition of lint off the burner. This can be done with a soft brush.
- 4 Inspect the burner unit.
- 5 Relay the coal bed in line with the instructions 'arranging the layout of the coals.'
- 6 There should be no need to service the burner. If however this is required, a Corgi registered fitter should check the setting pressure at the nozzle on the gas inlet of the burner. The correct pressure is indicated on the burner.

SHORT SPARES LIST

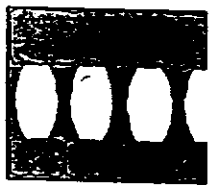
USE ONLY ORIGINAL YEOMAN SPARES



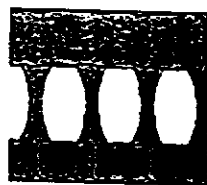
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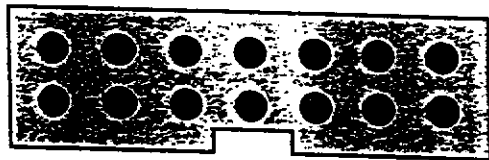
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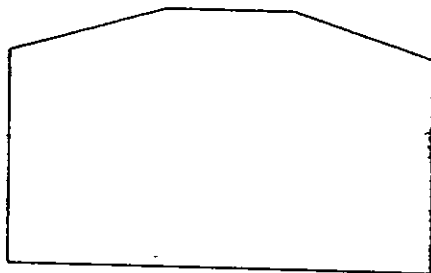
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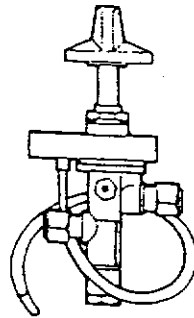
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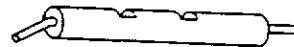
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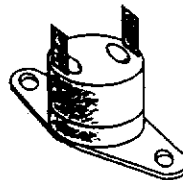
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8



9



11



10

Key No.	Description	Part No.
1	Medium Coals	YE12 152
2	Small Coals	YE12 151
3	L/H Coal Matrix	YE12 141
4	R/H Coal Matrix	YE12 142
5	Ceramic Mat	YE12 131
6	Glass Window	YB14 027
7	Gas Tap	YE12 161
8	Injector - Main NAT	YE12 121
8	Injector - Main LPG	YE12 122
9	Electrode	YE12 051
10	Interruptable Thermocouple	