

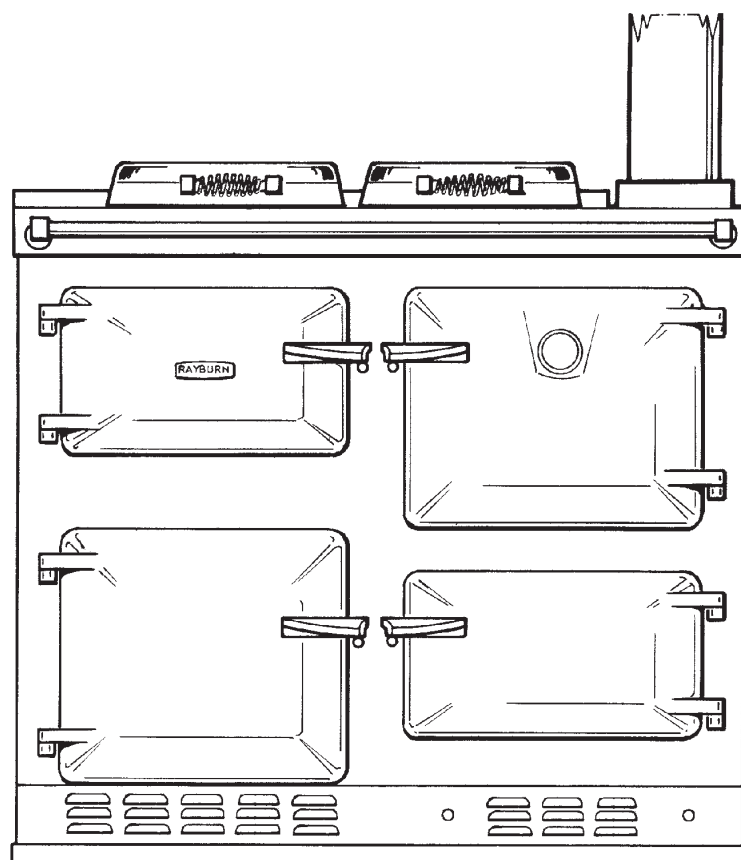


Installation Instructions

from **AGA**

400G/L PX (CF)

For use in GB and IE



DESN 511420 C

Remember, when replacing a part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by AGA.

PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLING THIS APPLIANCE

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Consumer Protection

As responsible manufacturers we take care to make sure that our products are designed and constructed to meet the required safety standards when properly installed and used.

IMPORTANT NOTICE: PLEASE READ THE ACCOMPANYING WARRANTY.

Any alteration that is not approved by AGA could invalidate the approval of the appliance, operation of the warranty and could affect your statutory rights.

Health & Safety

This appliance may contain some of the materials that are indicated. It is the Users/Installers responsibility to ensure that the necessary personal protective clothing is worn when handling where applicable, the pertinent parts that contain any of the listed materials that could be interpreted as being injurious to health and safety, see below for information.

Firebricks, Fuel beds, Artificial Fuels

When handling use disposable gloves.

Fire cement

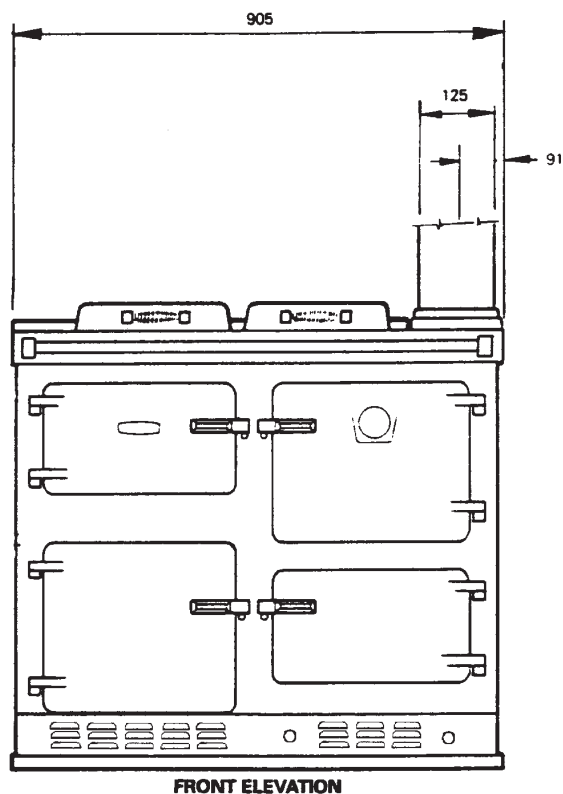
When handling use disposable gloves.

Glues and Sealants

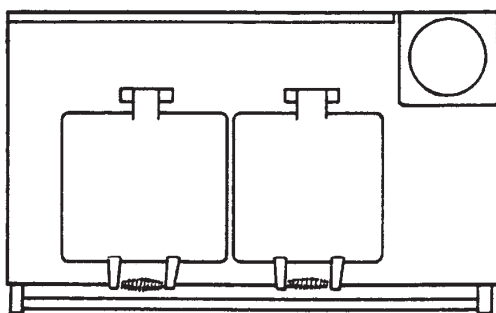
Exercise caution - if these are still in liquid form use face mask and disposable gloves.

Glass Yarn, Mineral Wool, Insulation Pads, Ceramic Fibre

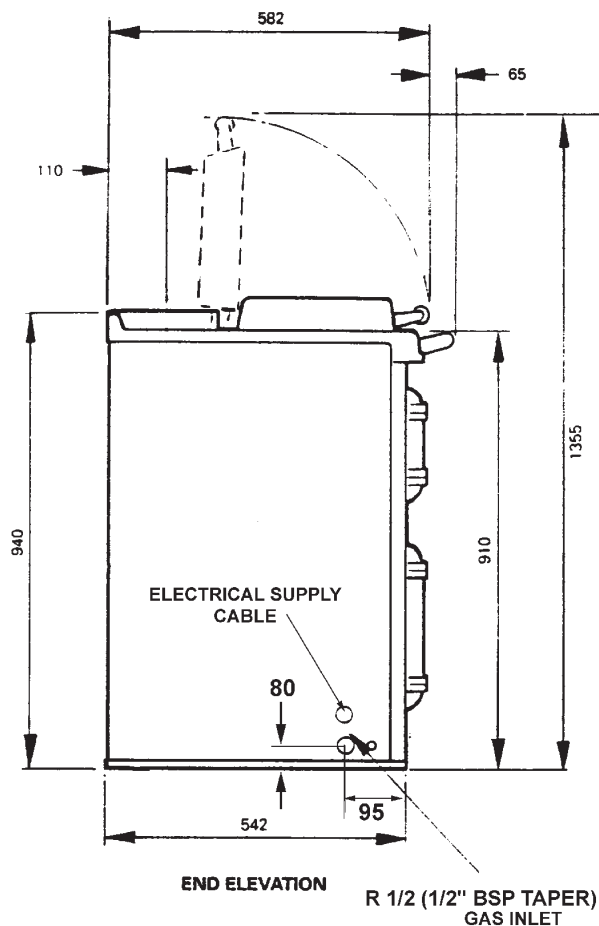
May be harmful if inhaled. May be irritating to skin, eyes, nose and throat. When handling avoid contact with skin or eyes. Use disposable gloves, face-masks and eye protection. After handling wash hands and other exposed parts. When disposing of the product, reduce dust with water spray, ensure that parts are securely wrapped.



FRONT ELEVATION



PLAN



END ELEVATION

R 1/2 (1/2" BSP TAPER)
GAS INLET

PLEASE NOTE: IT IS ADVISABLE TO
CHECK THE ACTUAL SIZE/WIDTH
OF YOUR APPLIANCE BEFORE
FINALLY FIXING ANY KITCHEN
UNITS, SINCE ENAMELLED CAST
IRON CAN VARY IN SIZE

DIMENSIONS IN MM

DESN 512448 B

TECHNICAL DATA

Fuel - Natural Gas (G20) I _{2H}		Fuel - Propane (G31) I _{3P}	
Gas Inlet	R 1/2 (1/2" BSP TAPER)	Gas Inlet	R 1/2 (1/2" BSP TAPER)
Electrical Supply	230V ~ 50Hz 3 amp Fused	Electrical Supply	230V ~ 50Hz 3 amp Fused
Flue Outlet	125mm	Flue Outlet	125mm
Burner Inlet Pressure	20mbar	Burner Inlet Pressure	37mbar
Max Flue Temp.	229°C	Max Flue Temp.	232°C
CO	0 - 50 ppm	CO	0 - 50 ppm
CO ₂ %	8.2% - 9.9%	CO ₂ %	9.4% - 10.8%
Heat Input	14.6 kW	Heat Input	14.6 kW
Unpacked Appliance Weight -	326Kg	Unpacked Appliance Weight -	326Kg

Site requirements

INTRODUCTION

The Rayburn is a floor standing cooker, fired by a gas burner. It is suitable for vertical flue outlet only.

IMPORTANT

The burner fitted to this appliance has been designed and constructed exclusively for use with the Rayburn 400 Series Cooker and MUST not be used on any other appliances or any other uses.

REGULATIONS

In the interests of safety all gas appliances should be installed by competent persons in accordance with the regulations in force.

GAS SUPPLY

Installation Pipes

Pipework from the meter to the appliance must be of adequate size. It is recommended that a minimum of $\varnothing 22$ mm copper tubing is used to within 1m of the appliance. A reduction to $\varnothing 15$ mm is permissible over the last metre of the appliance. Do not use pipes of a smaller size than the appliance gas connection. To avoid undue stress on pipework and burner, adequate support should be used when connecting and disconnecting union. The complete installation must be tested for soundness and purged in accordance with the regulations in force.

FLUE SAFETY DEVICE

For safety purposes a flue safety device is fitted. This will only operate in adverse flue conditions. If the switch has operated, it should be pushed in, to reset. If this problem persists it is necessary to determine and rectify the cause. If it is found necessary to reset more than once this may indicate a flue blockage.

LOCATION

The appliance is floor mounted and must be installed on a solid floor or base of non-combustible material which is capable of supporting the total weight.

The location chosen for the appliance must permit the installation and the provision of a satisfactory flue and an adequate air supply. The location must also provide adequate space for servicing and for air circulation around the appliance. See "Installation of the Appliance".

The space in which the appliance is to be fitted must have the following minimum dimensions.

Between wall or unit and LH side of appliance - 10mm top plate

Between wall or unit and RH side of appliance - 10mm top plate

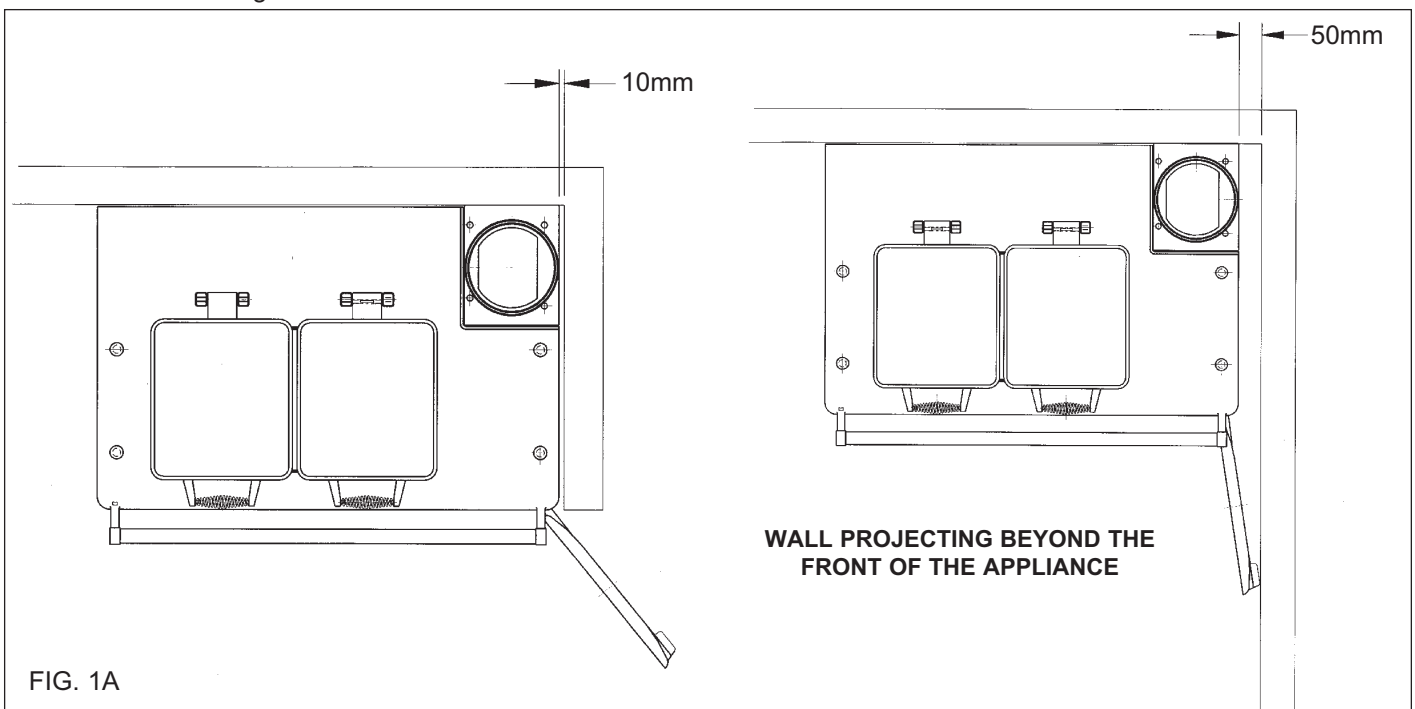
SHOULD THE WALL PROJECT BEYOND THE FRONT OF THE APPLIANCE, IT MUST BE INCREASED TO 50mm (SEE FIG. 1A). To allow door to open enough to change oven and shelf position.

Above the raised insulating cover handle - 60mm

In addition, adequate clearance must be available at the front of the appliance to enable it to be operated and serviced. Flue pipes and fittings must not be closer than 25mm to combustible materials and where passing through a combustible partition such as ceiling or roof, must be enclosed in a non-combustible sleeve providing an air space of at least 25mm.

Spaces around flue pipes passing through walls or floors should be sealed against the passage of smoke and flame.

Where the cooker is to stand in a recess or against a wall which is to be tiled, **in no circumstances should the tiles overlap the cooker top plate.**



Site requirements

AIR REQUIREMENTS

The appliance can only be installed in a room which meets the ventilation regulations in force. But, in any event the room must have a permanent vent with a minimum free air area, see below.

MODEL	MIN. AIR REQUIREMENT
400G/L PX	35 cm ²

IMPORTANT: THE LOUVERED AIR INTAKE AT THE BOTTOM FRONT OF THIS APPLIANCE MUST BE KEPT CLEAR OF ANY OBSTRUCTIONS.

FLUE SYSTEM

The following notes are intended to give general guidance. The flue serving the cooker must not be less than 125mm internal diameter.

A straight vertical section of cast iron flue pipe of a length not less than 600mm should be utilised immediately above the flue spigot before any bends are used.

In any event the minimum flue height must not be less than 3m.

Flue pipes and fittings should be constructed from one of the following materials:-

- (a) Cement
- (b) Aluminium or stainless steel
- (c) Cast iron or mild steel acid resistant vitreous enamel lined.

If a chimney is to be used, it preferably should be one that is composed of or lined with a non-porous acid resistant material.

A flue pipe constructed in cast iron, should form the initial connection to lined chimneys.

Where a chimney is to be used which is not composed of or lined with a non-porous acid resistant material it should be lined with a stainless steel flexible flue liner in accordance with the relevant standards.

Before connecting the appliance to or inserting the liner into a flue that has been previously used, the flue **MUST** be thoroughly swept clean of any soot and loose materials. If a baffle plate, etc. is fitted in the flue it must be removed before connecting the appliance to, or inserting a liner into the flue.

The flue should terminate in accordance with relevant recommendations.

Site requirements

ELECTRICAL SUPPLY

Wiring external to the appliance must be installed in accordance with current National Wiring Regulations and any local regulations which apply. The appliance is supplied for 230 Volt ~ 50Hz and a fuse rating of 3 amps. The method of connection to the mains supply should facilitate complete electrical isolation of the appliance, by the use of a fused double pole switch having a contact separation of at least 3mm serving only the appliance. The point of connection to the mains should be readily accessible and adjacent to the appliance. The installation should be protected by a 30mA Residual Current Circuit Breaker (RCCB).

The minimum requirement for the power cable is that it should be a 3 core PVC sheathed flexible cord (85°C min) at least 0.75mm² (24 x 0.2mm) to the relevant standard.

WARNING THIS APPLIANCE MUST BE EARTHED

In the event of an electrical fault after installation of the appliance, preliminary electrical system checks must be carried out i.e. earth continuity, short circuit, polarity and resistance to earth.

For wiring instructions see wiring diagrams.

KEY - APPLIANCE

G/Y	-	GREEN/YELLOW
BL	-	BLUE
BR	-	BROWN
OR	-	ORANGE
R	-	RED
W	-	WHITE
P	-	PURPLE
BK	-	BLACK

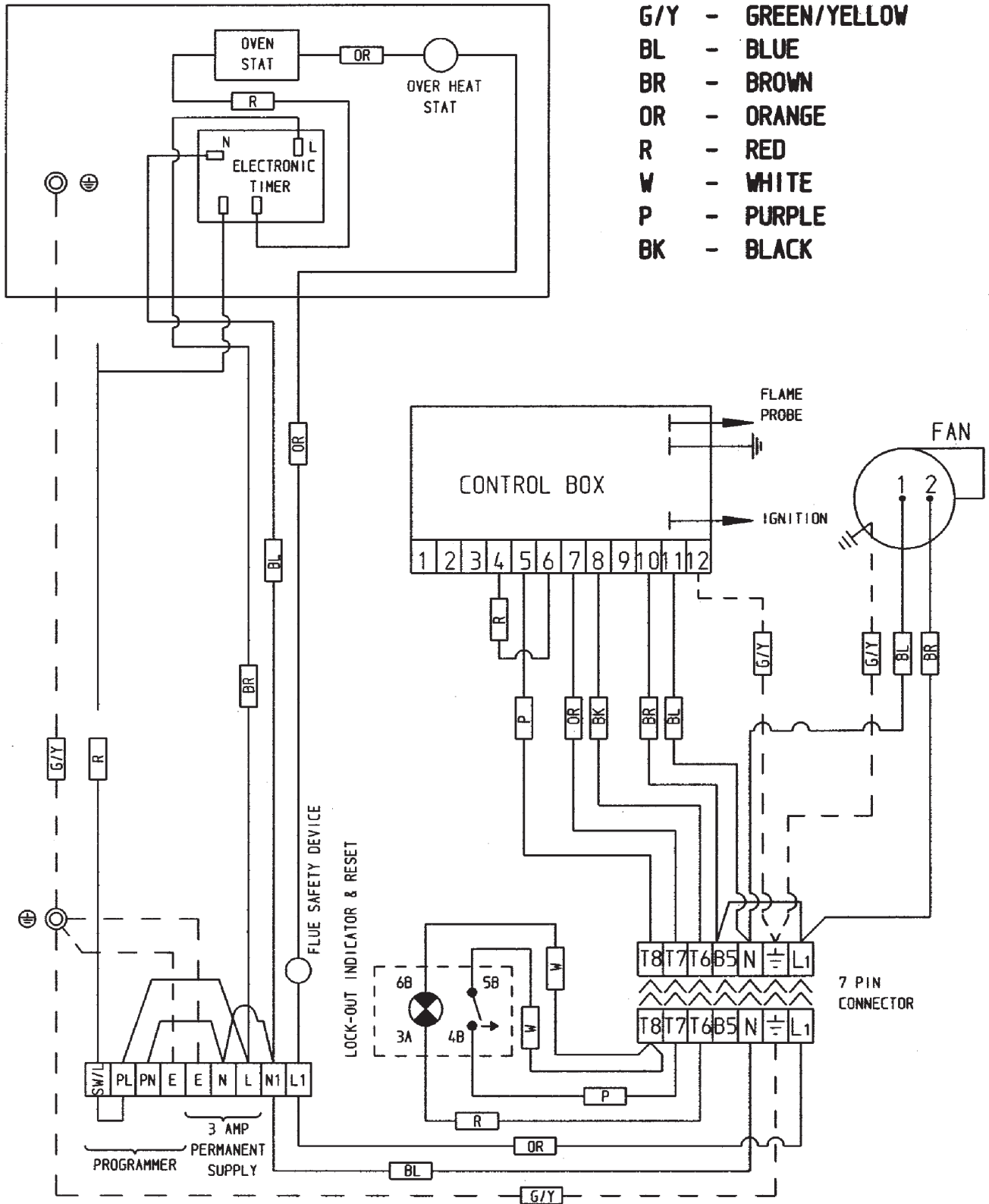


FIG. 1

Installation requirements

CLEARANCES

The appliance is floor mounted. The space in which the appliance is to be fitted must have the following minimum dimensions.

Between wall or unit and LH side of appliance - 10mm top plate

Between wall or unit and RH side of appliance - 10mm top plate

SHOULD THE WALL PROJECT BEYOND THE FRONT OF THE APPLIANCE, IT MUST BE INCREASED TO 50mm (SEE FIG. 1A). To allow door to open enough to change oven and shelf position.

Above the raised insulating cover handle - 60mm

In addition adequate clearance must be available at the front of the appliance to enable it to be operated and serviced.

PRELIMINARY INSTALLATION

The appliance is delivered in a fully assembled condition with the exception of the following items which are supplied separately packed and require assembly:-

The appliance rear distance bracket.

The cooker handrail.

Appliance rear distance bracket: if the rear wall is of combustible material, there must be an air gap of 25mm between the wall and the rear of the cooker. Fit the rear distance brackets as shown in Fig. 2. Whenever possible it is recommended that the skirting board is removed for the width of the appliance to enable the rear edge of the appliance top plate to make contact with the vertical wall and avoid a rear gap. (Combustible wall excepted).

Where the cooker is to stand in a recess or against a wall which is to be tiled, **IN NO CIRCUMSTANCES SHOULD THE TILES OVERLAP THE TOP PLATE.**

The handrail brackets are held on the front edges of the cooker top-plate casting. Remove the travel nuts and replace with the handrail brackets ensuring the fibre protecting washers are in position. Insert the handrail with fitted end caps into the brackets, positioning them correctly, and tighten the locating bolts (Fig. 3).

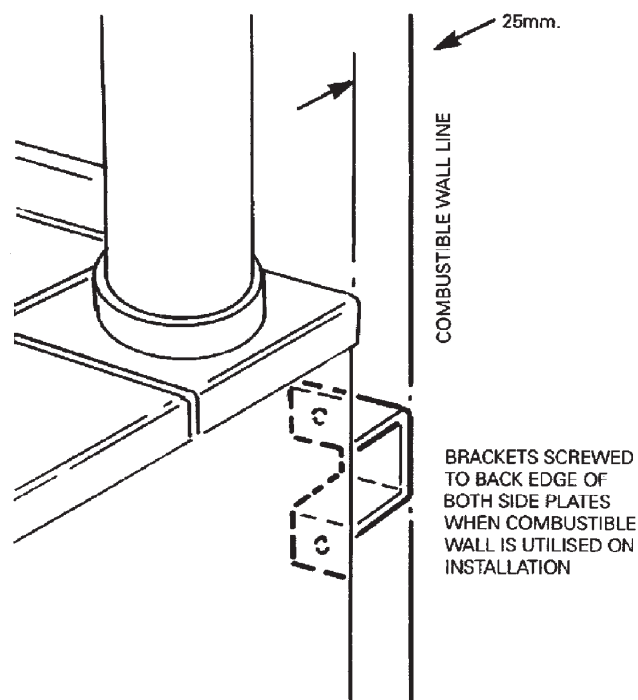


FIG. 2

DESN 510226

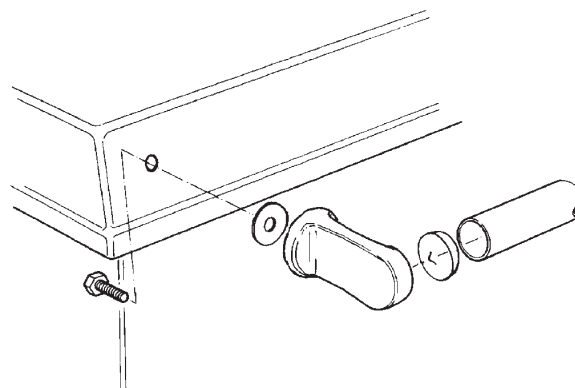


FIG. 3

DESN 510454 'A'

Installation requirements

SITE LOCATION

1. Check that the hearth is level, then remove the appliance from its transit wooden pallet, and position it with its back against the wall and in its intended position for flue connection.
2. Locate and fit flue pipe into socket of flue pipe adaptor, seal joint with rope and fire cement.
3. Connect and terminate the flue system in accordance with the regulations in force.

Connect the relevant services to the appliance:-

1. Gas
2. Electric
3. Flue Pipe

SETTING COMBUSTION

Because this appliance uses a pre-mix burner. No setting up of combustion is required, the burner automatically controls the air to gas rate ratio.

Installation Instructions

BURNER ACCESS

- SEE FIG. 4

1. Open the burner access door.
2. Remove (5) inner panel securing screws and remove panel.
3. Remove the (3) plinth securing screws and remove plinth.

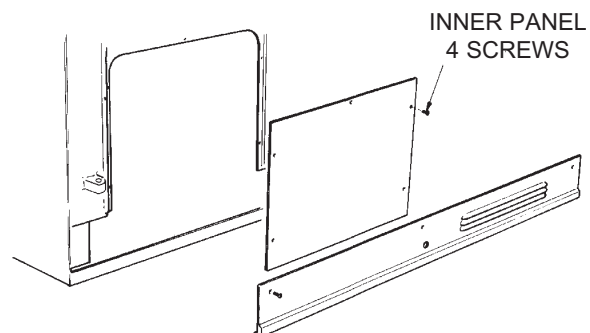


FIG. 4

DESN 511424

ELECTRICAL CONNECTION

- SEE FIG. 5

1. Make electrical connections to terminal strip as wiring diagram (See Fig. 6)

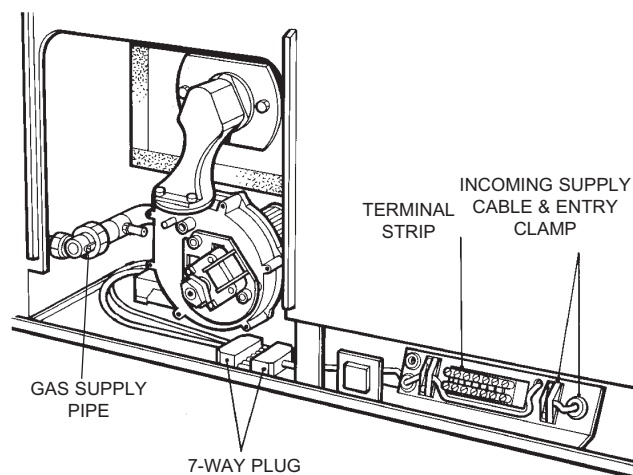


FIG. 5

DESN 512343

TERMINAL STRIP CONNECTIONS

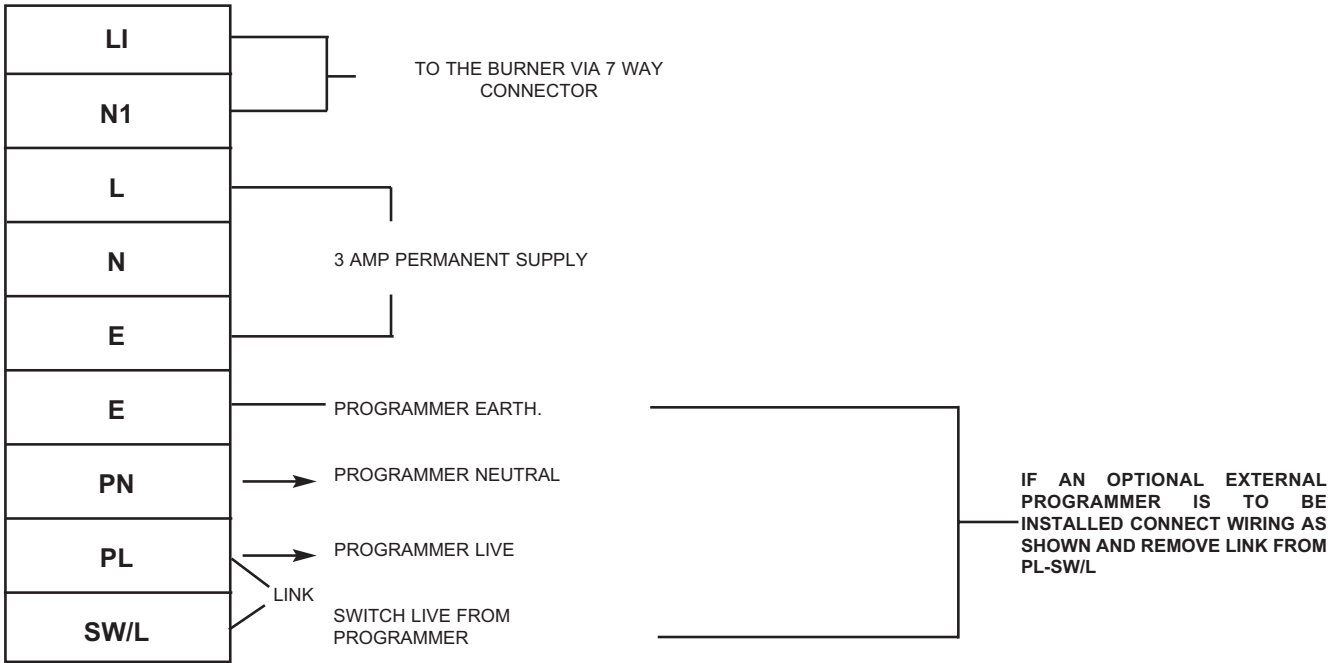


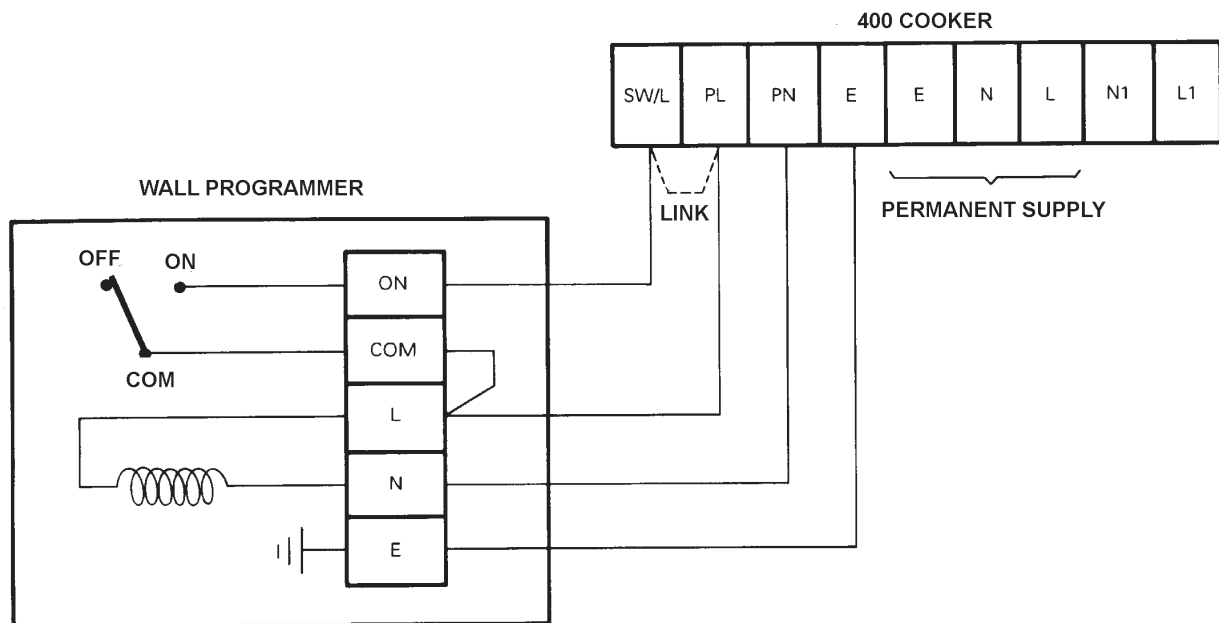
FIG. 6

Installation Instructions

USING A SINGLE CHANNEL OPTIONAL PROGRAMMER IN CONJUNCTION WITH THE RAYBURN 400 COOKER ONLY:

1. Always use the same isolating switch for both the cooker and programmer.
Ideally: use the supply connections on the appliance.
2. Before carrying out any maintenance work on either the programmer or the cooker ensure the supply is isolated.

PROGRAMMER WIRING



NOTE: LINK BETWEEN PL & SW/L IS REMOVED WHEN A WALL PROGRAMMER IS USED.

FIG. 7

ALL WIRING TO THE IEE REGULATION BY A QUALIFIED ENGINEER

USERS INSTRUCTIONS FOR PROGRAMMER AND TIMER COMBINATION

1. The "Time of Day" alarm and 'Minute Minder' functions can all be used without effecting the external programmer timings.
2. When using Auto Cook Function on the internal timer ensure the external wall programmer is in the continuous 'ON' mode.
3. When using the external wall programmer: ensure it is set correctly i.e. timed. The internal cooker timer should be in Manual Mode.
4. Please read in conjunction with the instructions supplied with your external programmer.

BURNER CONTROL

When the thermostat is calling for heat, 230V is supplied to terminals 10 and 11 on the control box and tab 1 and 2 on the fan. The fan should start straight away.

There will then be a short delay while the control box checks that the fan is running and pre-purges. Providing there is gas to the burner, combustion should be established after approximately 30 seconds.

On first firing after installation or servicing, the burner may go to lock out, until all the air has been purged out of the burner. Wait at least 10 seconds before pressing the reset button. (See Fig. 7).

Check gas cock is in the on position.

Check inlet gas pressure at test point.

ELECTRICAL CHECK

Checks to ensure electrical safety should be carried out by a competent person.

COMBUSTION DISCHARGE SAFETY DEVICE

For safety purposes a combustion discharge safety device is fitted. This will only operation under adverse flue conditions. If the switch has operated, it should be pushed in to reset. If this problem persists contact your local engineer to determine and rectify the cause. It is important not to reset more than once as this may indicate a flue blockage.

WARNING: The combustion discharge safety device must not be interfered with or rendered inoperative, as this could interfere with the safe operation of the appliance and invalidate the appliance warranty.

OVERHEAT SAFETY THERMOSTAT

IMPORTANT NOTE: This appliance is fitted with an overheat thermostat which has a manual reset button.

If the overheat stat trips, the cooker will not operate, until the button has been pushed-in (reset). The engineer needs to follow 'Fault Finding Guide' to establish why it has tripped. (The overheat thermostat and its sensing phial are located on the controls chassis rear).

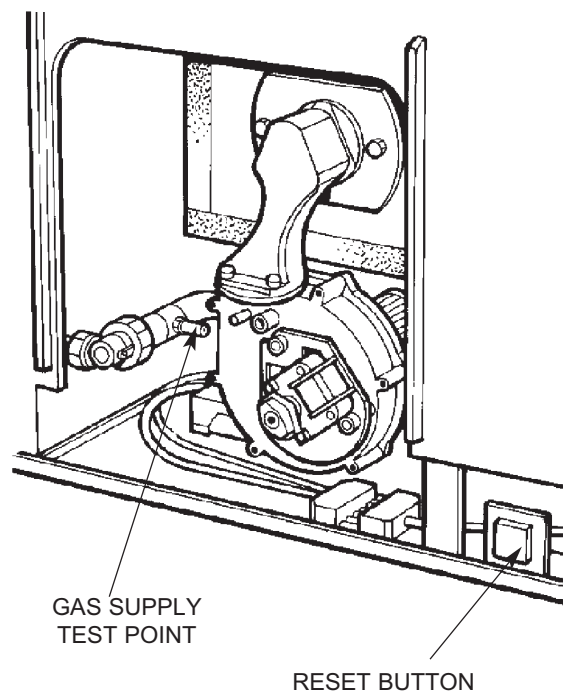


FIG. 7

DESN 512346

Installation Instructions

ANCILLARY CONTROLS CHECK

Before leaving the site, check that the operation of cooker timer and thermostat are capable of controlling the burner correctly. Check the operation of burner control box.

INSTRUCT THE USER

1. Advise the User that, for continued efficient and safe operation of the appliance, it is important that adequate servicing is carried out at regular 12 monthly intervals.
2. Hand the Operating Instructions to the User and demonstrate the correct operation of the appliance and system controls.
3. Leave the Installation and Servicing Instructions with the User.

**For further advice or information contact
your local distributor/stockist**

With AGA Rangemaster's policy of continuous product improvement, the Company reserves the right to change specifications and make modifications to the appliance described at any time.



from The word "from" is in a lowercase, sans-serif font, followed by the AGA logo, which consists of the letters "AGA" in a bold, white, sans-serif font inside a black, horizontally-oriented oval with a metallic, brushed-metal texture.

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