



AGA DUAL CONTROL

**Model No's: DC3G & DC5G
(CONVENTIONAL FLUE)**

Installation Guide

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 COMMENCING SITE SURVEY
OR INSTALLING THIS APPLIANCE.**



For use in GB and IE

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HEALTH AND SAFETY

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.

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 also affect your statutory rights.

In the interests of safety and effective use, please read the following before using your new AGA appliance.

INSTALLATION REQUIREMENTS

THIS APPLIANCE MUST ONLY BE INSTALLED BY PERSONS THAT ARE CERTIFIED TO LOCAL REGULATIONS.

These AGA cookers are suitable for Natural gas only, and cannot be used on any other gas. **IMPORTANT: See data plate which is situated behind the plinth cover.**

The installation of the cooker must be in accordance with the relevant requirements of the Gas Safety Regulations, Building Regulations and IEE Wiring Regulations. It should be in accordance also with any relevant requirements of the Local Authority.

In your own interest, and that of safety to comply with the law, all gas appliances should be installed by a competent person, in accordance with the relevant regulations. Failure to install appliances correctly could lead to prosecution.

Location

The location chosen for the appliance must permit the provision of a satisfactory flue, see 'Flue System' and an adequate air supply. The location must also provide adequate space for servicing and air circulation around the cooker.

DELIVERY REQUIREMENTS

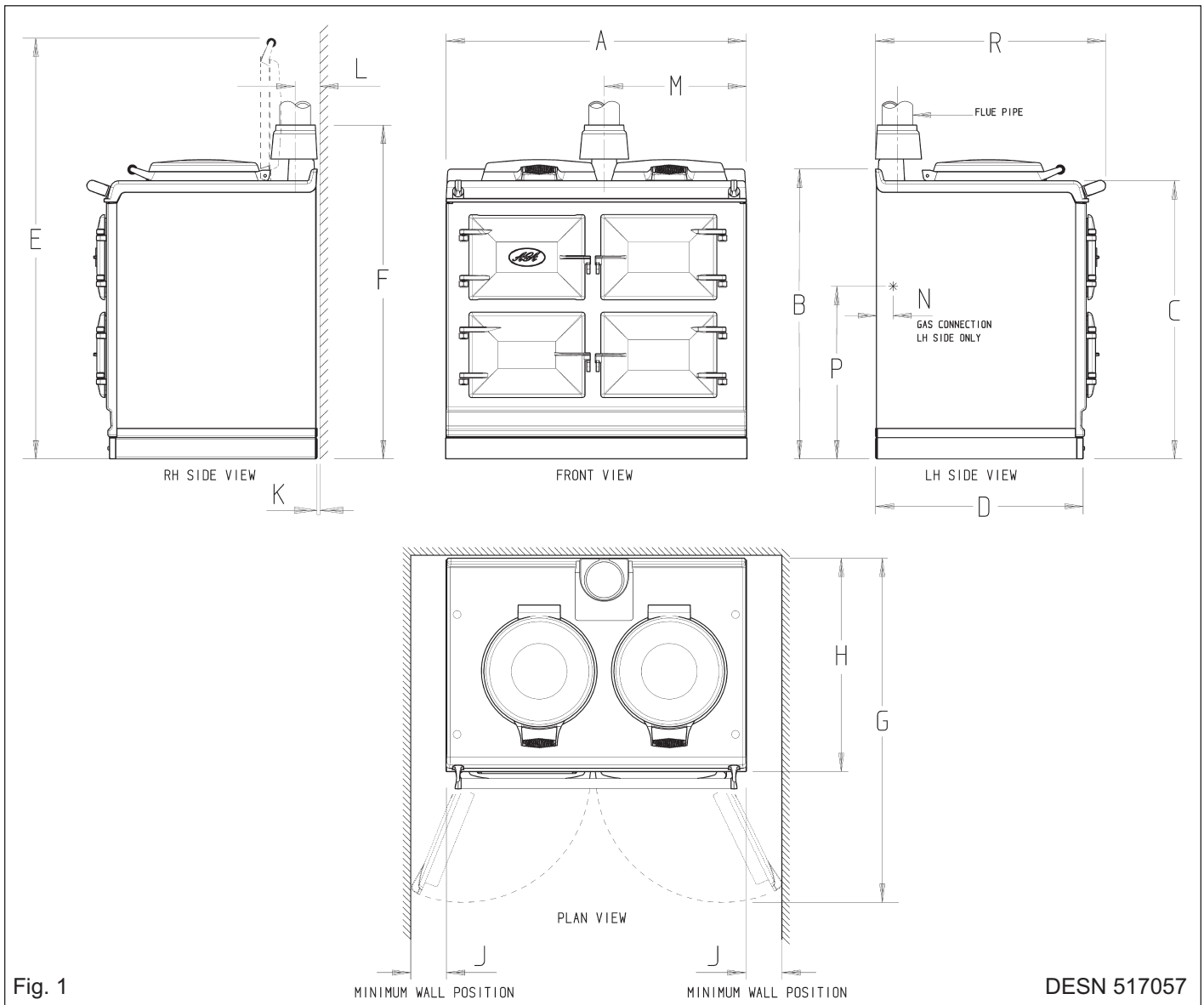
The AGA DC3 arrives on 1 pallet

The AGA DC5 (Hotcupboard) arrives on 2 pallets.

There must be access to the kitchen to manipulate a foot print of 1005mm x 740mm. A wooden template (skate with castor wheels) of dimensions 1005mm x 740mm could be used to check if the AGA Dual Control fully built appliance is able to fit through the property grounds and doors into its installation position in the kitchen. It must also be considered that the height of the appliance is 960mm off pallet and 1100mm on the pallet, so high level obstacles/restrictions must not be overlooked.

If this skate/template **can** be manipulated through the property grounds and doors into position, then the AGA can be installed as intended with no re-work.

APPLIANCE DIMENSIONS - AGA DC3G (C/F)



	A	B	C	D	E	F	G	H	J	K	L	M	N	P
mm	987	951	913	680	1388	1095	1145	698	116	10	75	466	55	570

Cooker Dimensions

When surveying for a cooker installation the actual clearance required for the 'body' of the appliance should be increased by 10mm beyond the figures quoted above. This allows safe margin to take into account the natural dimensional variations found in major castings. In particular the width across the appliance recess could be critical.

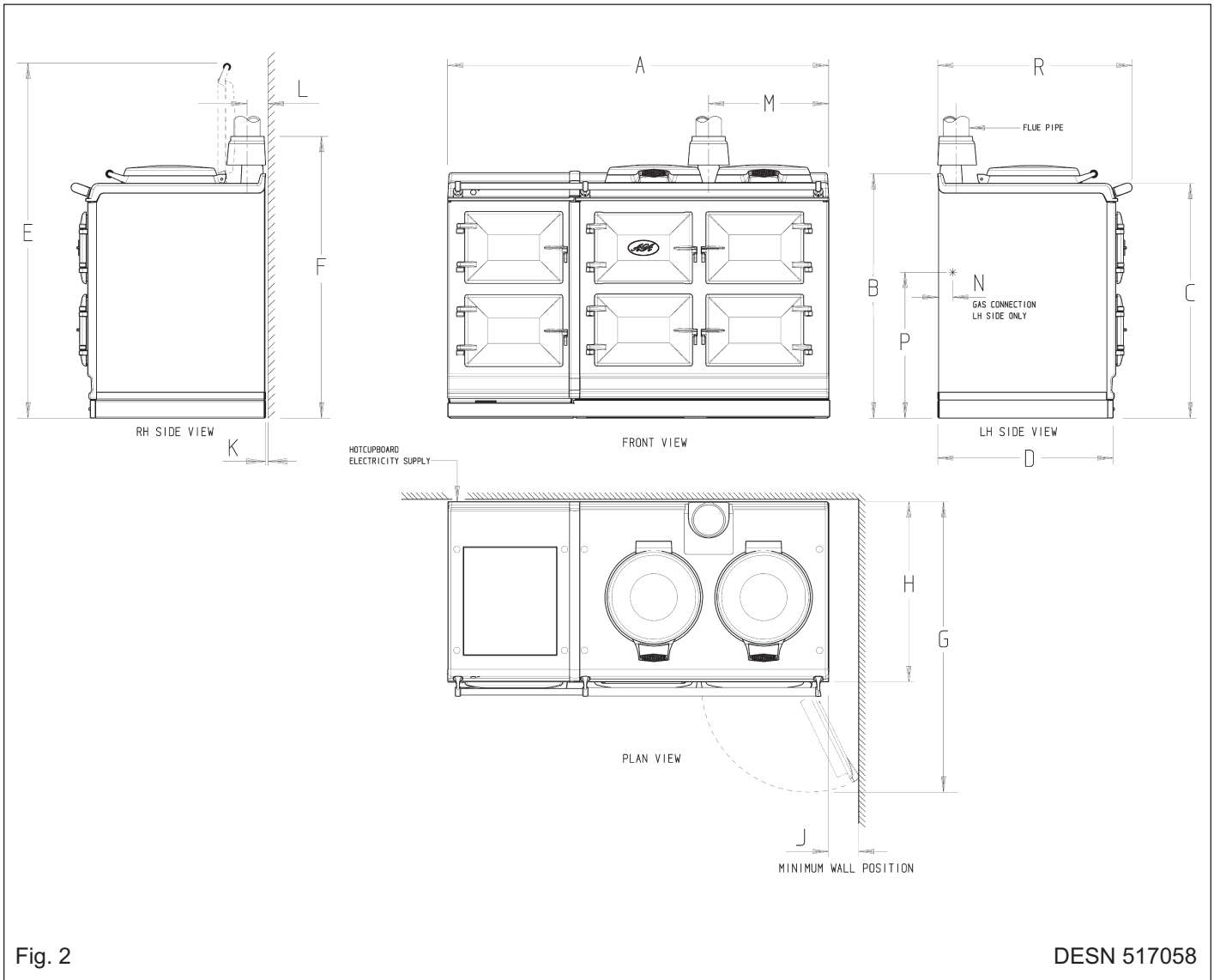
APPLIANCE WEIGHT (Excludes Packaging)

Model: AGA Dual Control (DC3G) - 452kg

GAS CONNECTION - AGA DC3G ONLY

Rp1/4 (1/4" BSP MALE)

APPLIANCE DIMENSIONS - AGA DC5G



	A	B	C	D	E	F	G	H	J	K	L	M	N	P
mm	1478	951	913	680	1388	1095	1145	698	116	10	75	466	55	570

Cooker Dimensions

When surveying for a cooker installation the actual clearance required for the 'body' of the appliance should be increased by 10mm beyond the figures quoted above. This allows safe margin to take into account the natural dimensional variations found in major castings. In particular the width across the appliance recess could be critical.

APPLIANCE WEIGHT (Excludes Packaging)

Model: AGA Dual Control (DC3) - 452kg

Hotcupboard - 110kg

TECHNICAL DATA

Models AGA DC3G and DC5G

NATURAL G20	
MAXIMUM HEAT INPUT	2.2 kW
Thermostat Bypass	70
Main Burner Injector	112
Gas Supervision Injector	4212
Inlet Pressure	20mbar
Burner Pressure	10mbar

CLEARANCES

The complete cooker is floor-mounted and the space in which the appliance is to be fitted must have the following minimum dimensions:-

A minimum clearance of 60mm is required above the raised insulating cover handle.

Side Clearances: A 3mm gap is required each side between the cooker top plate and adjoining work surfaces that may be fitted, this is to allow for the safe removal of the top plate should this be required at a later date.

Where cookers are fitted against side walls a 116mm clearance is required on the right and left hand side for oven doors access.

If the AGA is to be installed in a brick recess, then the minimum clearance should be increased by at least 10mm, to allow for the walls not being square.

In addition, a minimum clearance of 1000mm must be available at the front of the cooker to enable the cooker to be serviced.

Cooker Base or Hearth

It is essential that the base or hearth on which the cooker stands should be level and be capable of supporting the total weight of the appliance. The base of the built-in AGA plinth must be level and sit above finished floor height for service access.

The front plinth cover is removable and must not be obstructed by flooring or tiles. If necessary the cooker must be raised by the thickness of the tiles to ensure the plinth can be removed.

Tiling

When 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, access to remove the top plate must be allowed for servicing at a later date.

A gap of at least 10mm must be observed from the rear of the top plate, and the wall behind the appliance.

Since this appliance runs continuously, please take note of these **IMPORTANT** instructions:

Combustible Walls

Houses constructed of combustible materials (such as all-timber or stud wall partitions and batoned plasterboarded walls) require special wall heat protection features.

Non-combustible walls behind a cooker must be of at least 25mm thick insulation board (Monolux or equivalent), up to hotplate level.

SPECIAL NOTE: Ensure electric cabling or plastic services do not pass within or on the outside of the wall, behind or directly above the cooker.

This type of material can age prematurely when exposed to continuous higher ambient temperature.

TOP PLATE ADJUSTMENT FOR AGA DC3 AFTER DELIVERY

See Fig. 3

In general, adjustment of the top plate is to be avoided. However minimum use of the top plate adjusters can be used to improve the alignment of the top plate.

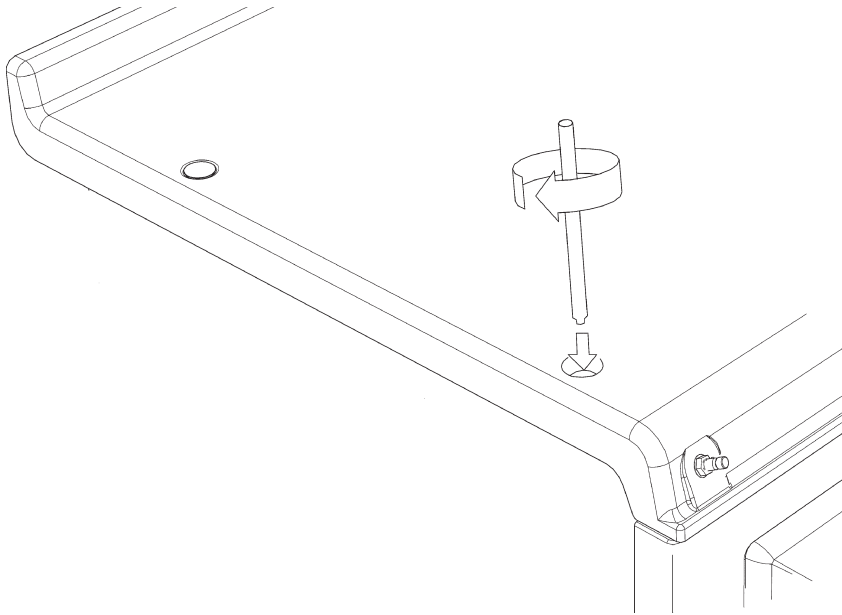


Fig. 3

DESN 516751

POWER SUPPLY - AGA DC3G (C/F)

WARNING: THIS APPLIANCE MUST BE EARTHED.

THIS APPLIANCE IS DESIGNED FOR THE VOLTAGE STATED ON THE RATING PLATE, WHICH IS SITUATED BEHIND THE PLINTH COVER.

A 1PH 30 amp 230V or 3PH 400V minimum 16A per phase ~ 50 Hz fused electrical supply is required adjacent to the appliance. External wiring to the unit must be installed using the mains cable provided, in accordance with the current wiring regulations and any local regulations which apply. If the cable is shortened, new ferrules must be fitted to the stripped conductors.

The method of connection to the mains electricity supply must facilitate complete electrical isolation of the appliance, by a multi-pole switch, having a contact separation of at least 3mm on all poles.

The isolator should not be positioned immediately above the cooker, but must be fitted within 2 metres of the appliance.

The isolator may be separate from the connection point.

The mains connection point must be accessible within the areas shown in Fig. 4A, Page 9 for cable routing options.

For 2 or 3 phase installations an optional adaptor kit must be obtained (Part No. AE4M231226).

POWER SUPPLY - HOTCUPBOARD (AGA DC5G C/F)

THE HOTCUPBOARD ATTACHMENT REQUIRES AN INDEPENDENT SINGLE PHASE POWER SUPPLY.

WARNING: THIS APPLIANCE MUST BE EARTHED.

THIS APPLIANCE IS DESIGNED FOR THE VOLTAGE STATED ON THE RATING PLATE, WHICH IS SITUATED ON A SLIDE-OUT TRAY IN THE HOTCUPBOARD BASE PLATE ABOVE THE PLINTH.

A 230v ~ 50 Hz, 3 amp fused electrical supply is required adjacent to the appliance (with the exception of the AGA TC5 and DC5 Hotcupboard with Induction Hob model, please refer to the AGA Induction Hob instructions for the power supply requirements). External wiring to the unit must be installed using a 3 core silicon - SIHF insulation cable and in accordance with the current wiring regulations and any local regulations which apply.

The method of connection to the mains electricity supply must facilitate complete electrical isolation of the appliance, preferably by a fused double pole switch, having a contact separation of at least 3mm in both poles.

The isolator should not be positioned immediately above the appliance, but must be fitted within 2 metres of the appliance.

MAINS CABLE ROUTING - AGA DC3G C/F

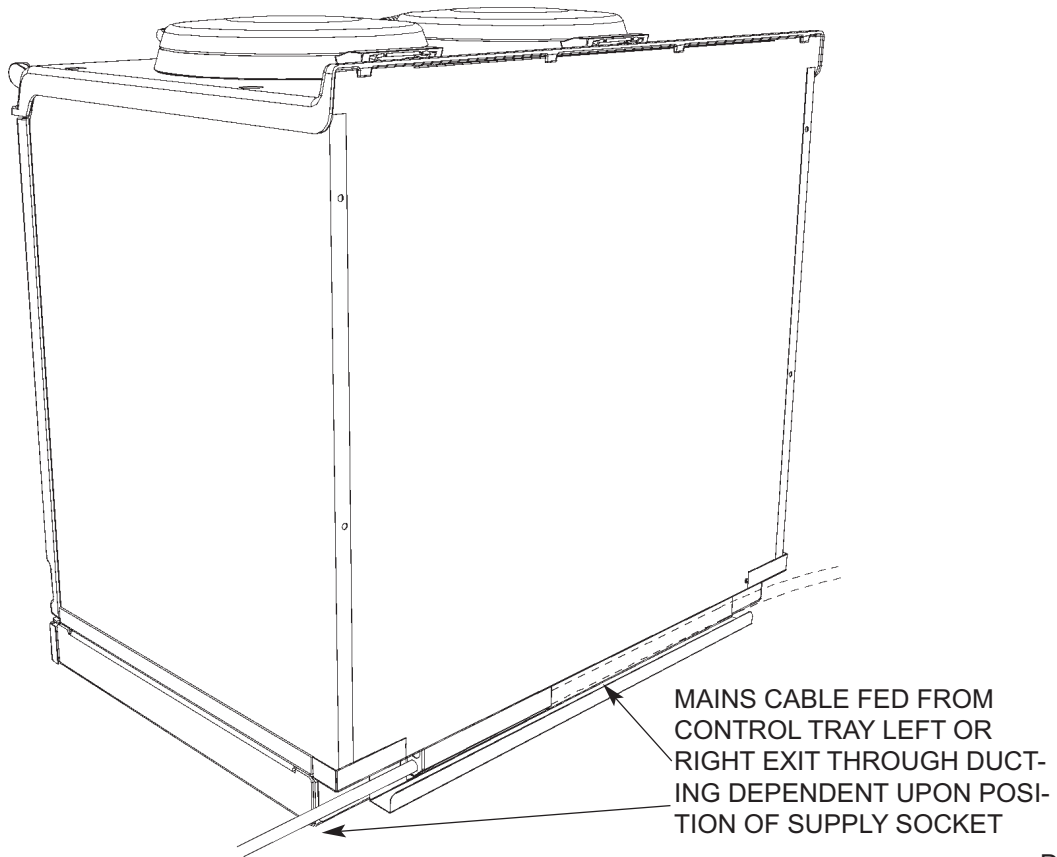
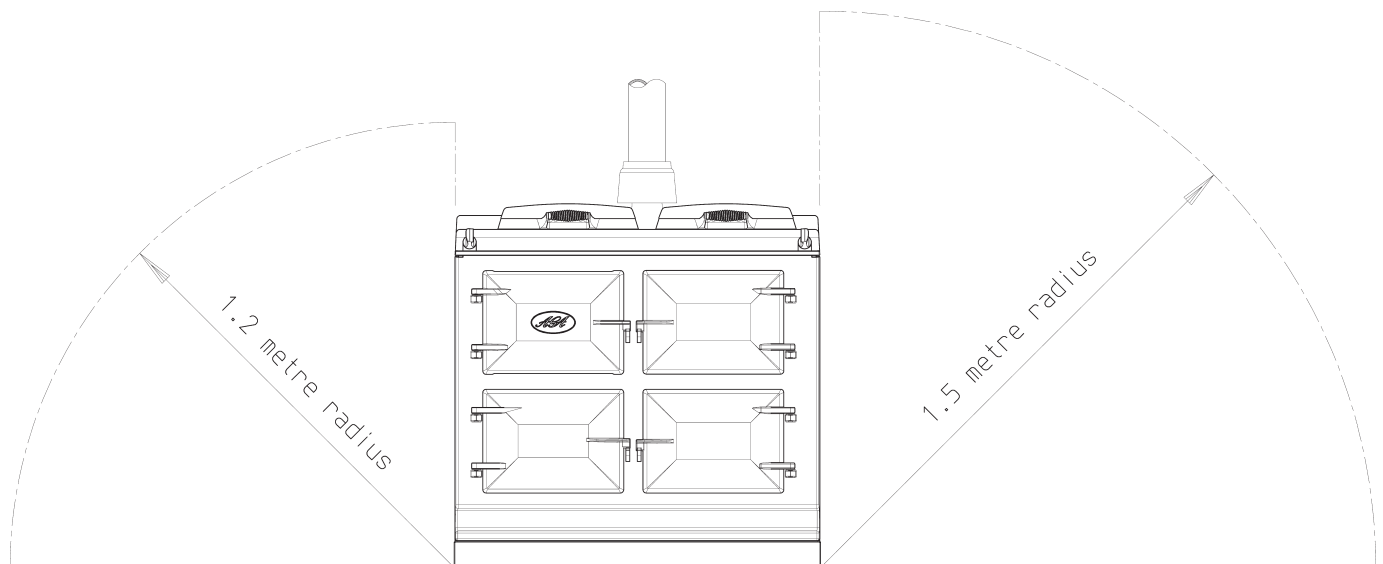


Fig. 4

DESN 516643



THE MAINS SUPPLY CONNECT POINT MUST BE WITHIN THE ZONES SHOWN

Fig. 4A

DESN 517059

MAINS CABLE ROUTING - AGA DC5G C/F (HOTCUPBOARD)

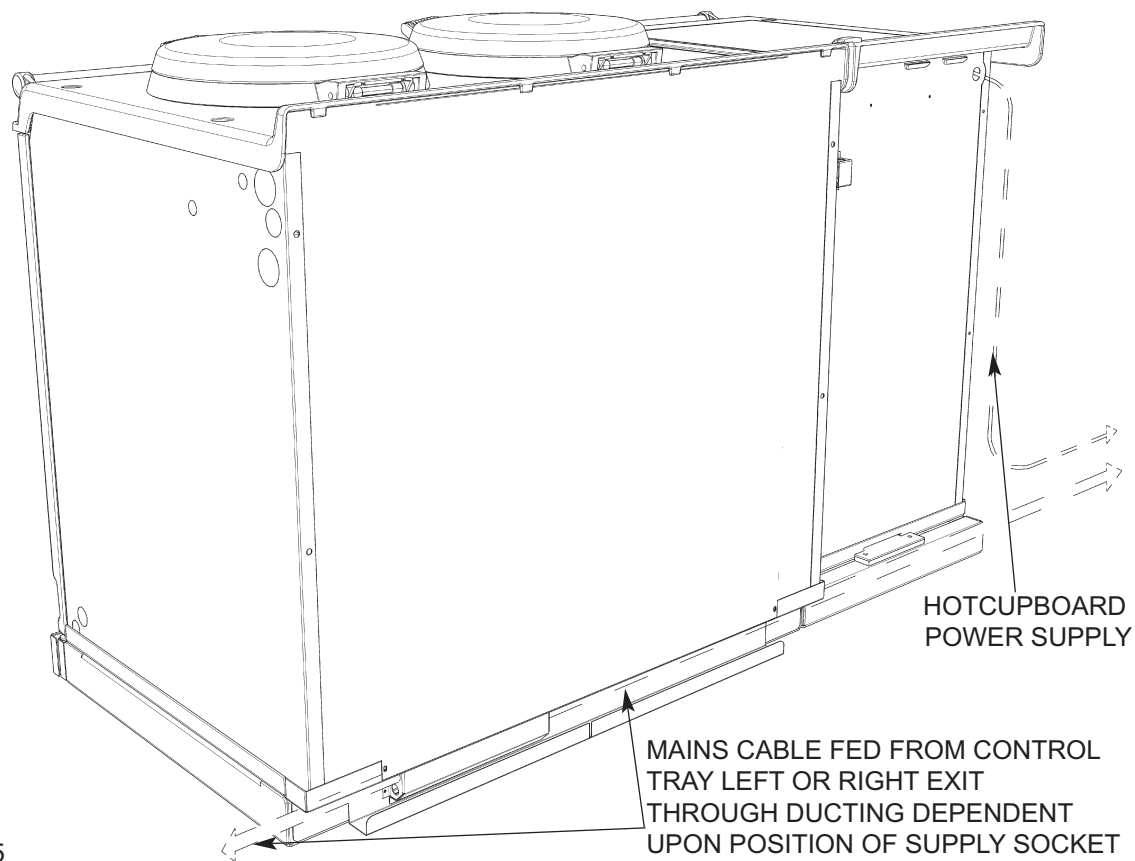
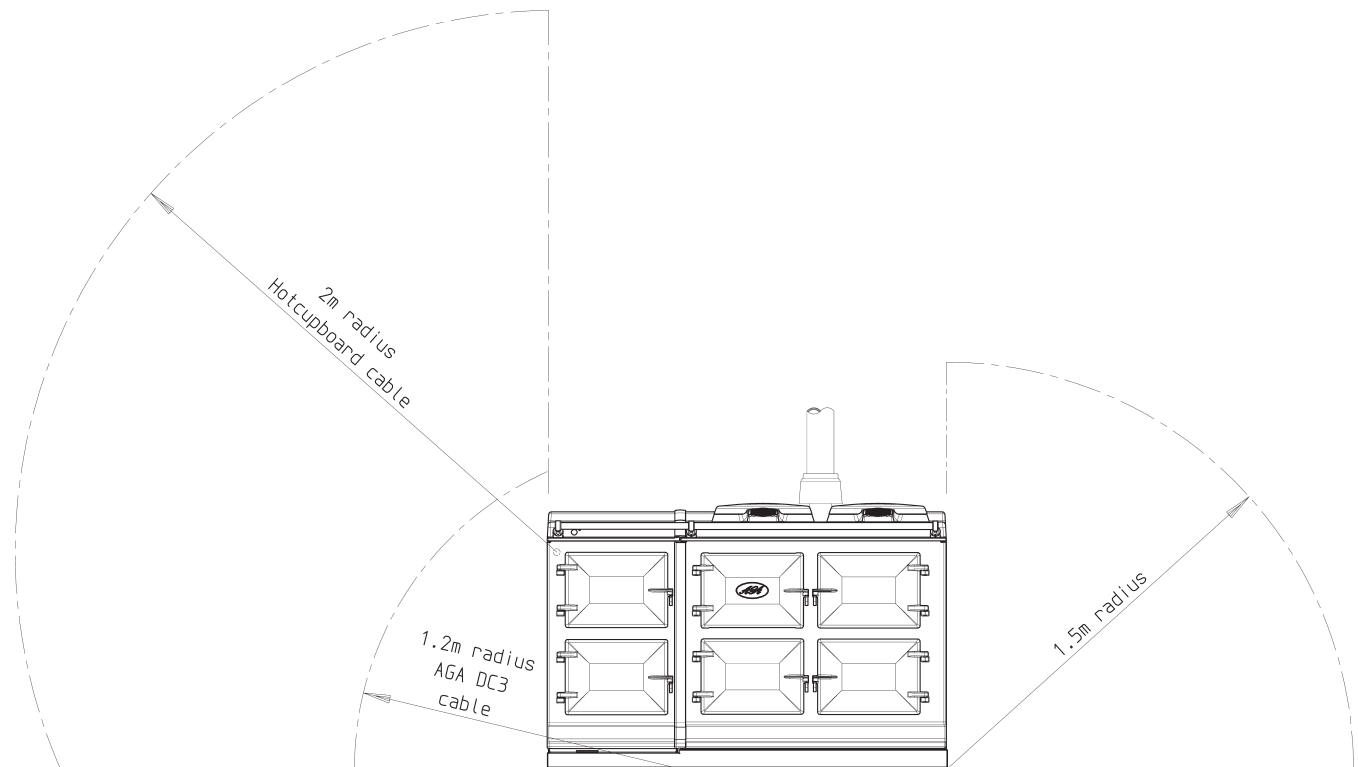


Fig. 5

DESN 516644



THE MAINS SUPPLY CONNECT POINT MUST BE WITHIN THE ZONES SHOWN

Fig. 5A

DESN 517060

FLUE SYSTEM

The following notes are intended to give general guidance:-

The initial length of flue pipe from the appliance flue socket should be vertical for at least 600mm.

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

The cross-sectional area of the flue serving the cooker must not be less than the area of the flue outlet of the cooker.

If the flue pipe is to be used then, it must not be less than 100mm internal diameter.

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 non-combustible porous acid resistant material. (Chimneys lined with a salt glazed earthenware pipes are acceptable if pipes comply with the regulations in force). A flue pipe constructed from one of the materials in (a) to (c) above, 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. The internal diameter of the liner must not be less than 100mm. A flue pipe which is constructed from one of the materials in (a) to (c) above should form the connection between the draught diverter and flue liner.

When installing a new appliance you must be confident that the existing liner will operate safely throughout the lifetime of the appliance, this is normally 10 - 15 years. However, due consideration should be given to the AGA Dual Control - Gas as the lifetime of the appliance may exceed this time.

INSTALLATION PIPES

Installation pipes should be fitted in accordance with current Gas Regulations. Pipework from the meter to the cooker must be of adequate size, cooker connection size of 15mm Dia. On completion test the gas installation for tightness and purge in accordance with the regulations in force.

AIR SUPPLY

Kitchen or Internal Space Air Supply

Where the appliance is to be installed in a kitchen or internal space, it does not require the kitchen or internal space containing it to have a permanent air vent. However, consideration should be given to other appliances installed.

WIRING DIAGRAM - AGA DC3G C/F

AGA DC3 GAS DUAL Cooker
Conventional Flue

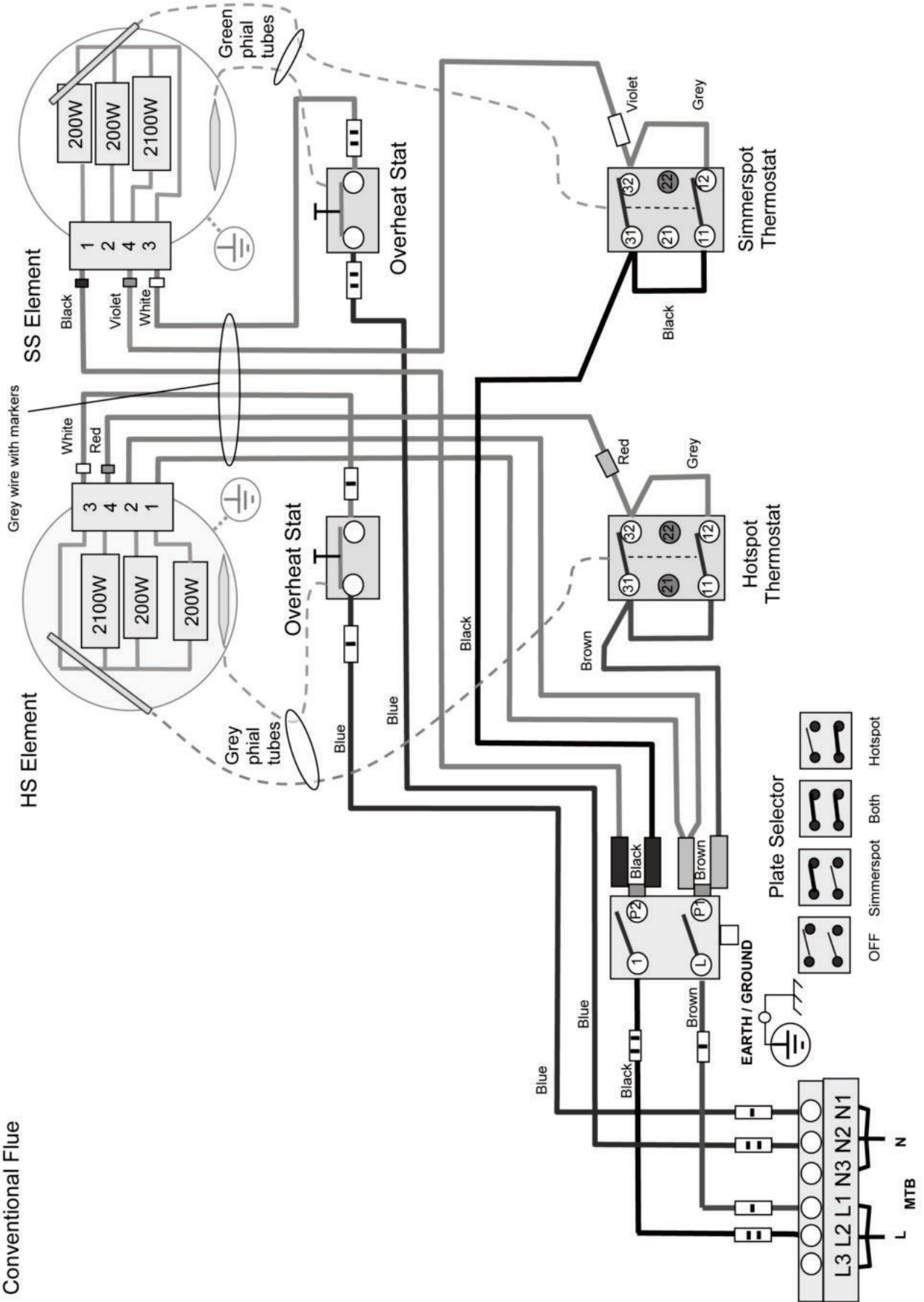


Fig. 6

HOTCUPBOARD INSTALLATION

NOTE: The AGA DC5 hotcupboard should arrive with the top plate in a jacked up position. This is to allow the complete appliance to be slid onto its plinth when alongside the AGA DC3 without the top plates clashing. The hotcupboard top plate should then be wound down to its correct height once the appliance is in its final position.

1. Detach hotcupboard from plinth by removing two screws and tongue bracket from plinth (See Fig. 7), slide hotcupboard forwards and away from rear fixing bracket (See Fig. 8).

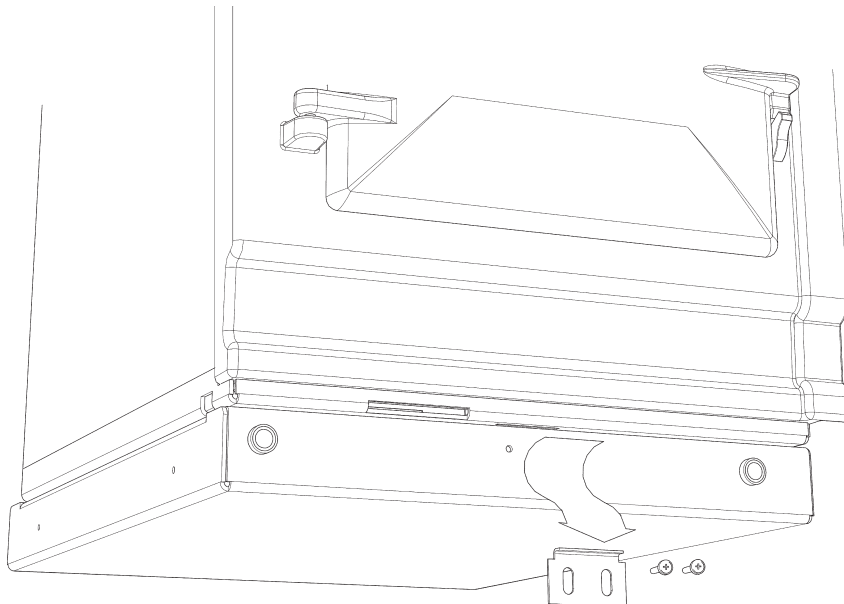


Fig. 7

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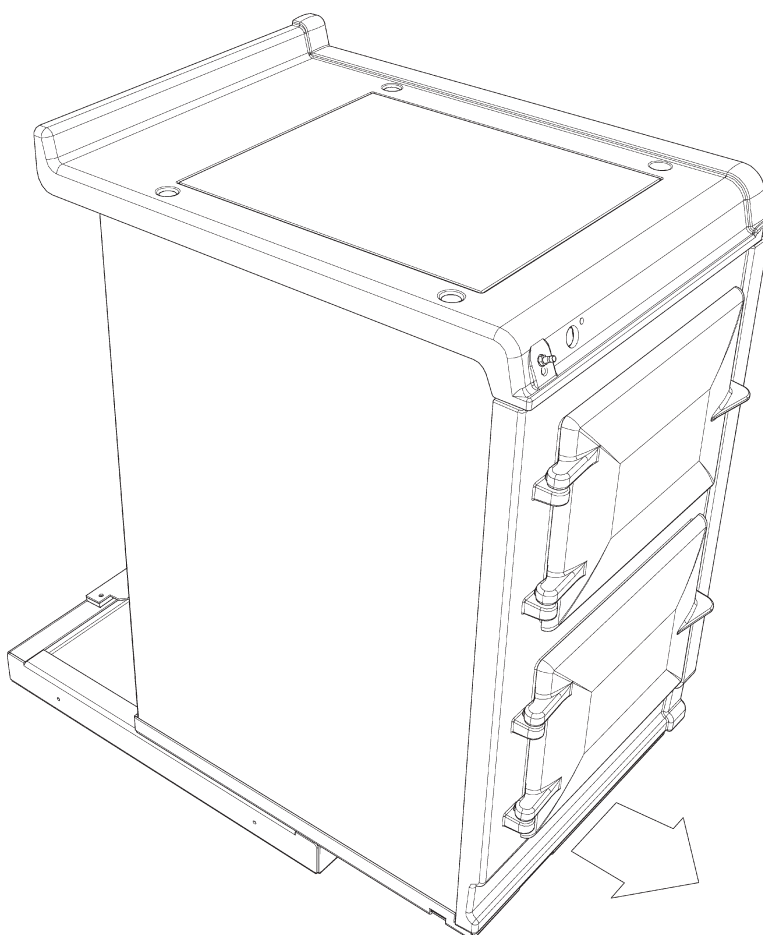
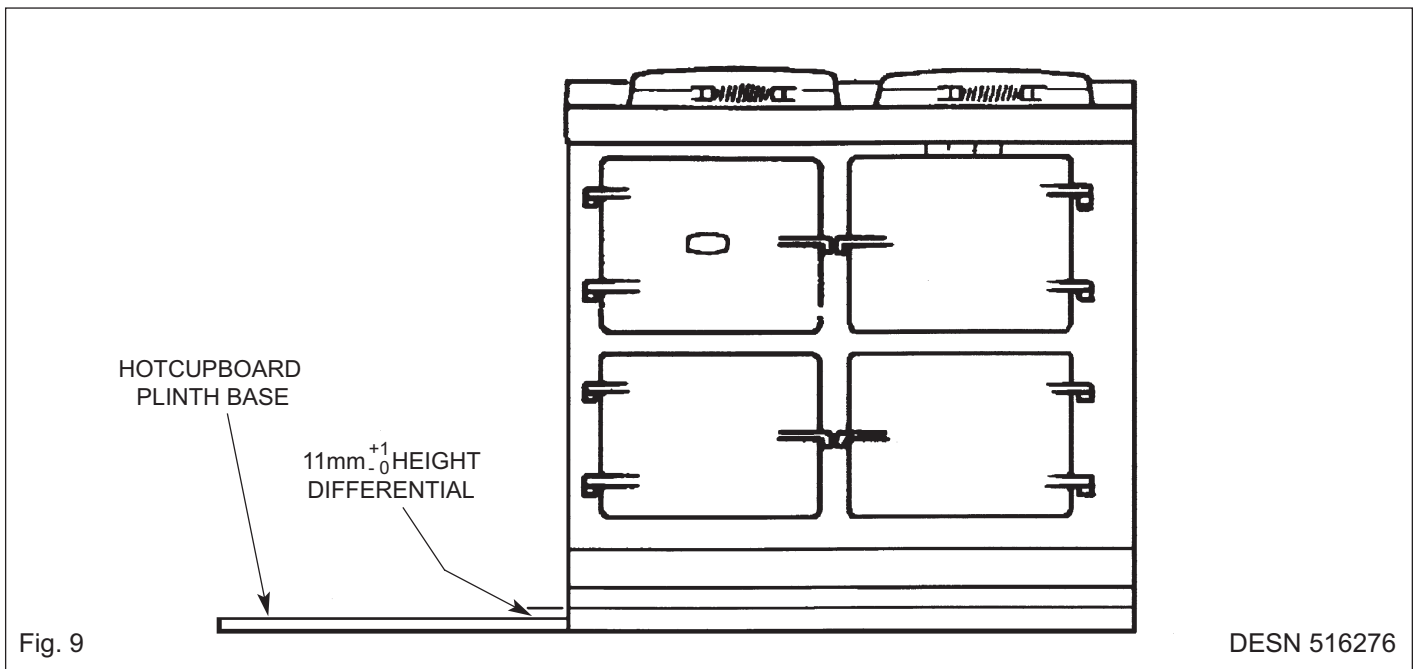


Fig. 8

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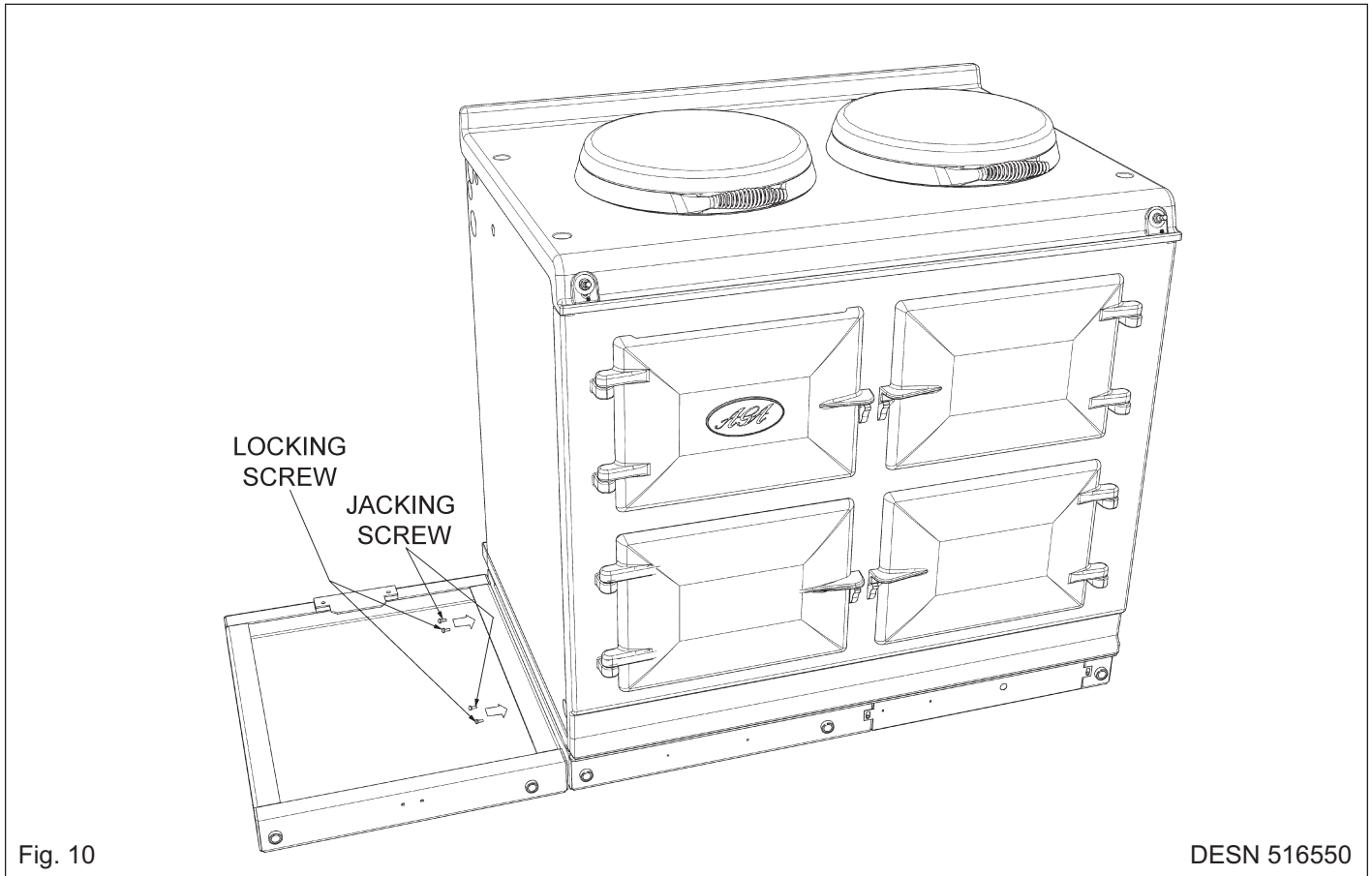
2. Position the plinth alongside the AGA Dual Control leaving no gap between the two plinths (See Fig. 9).

Check with a spirit level that the plinth level is correct, and also check height differential between the hotcupboard plinth and Dual Control plinth is correct (11mm). If necessary, use shims in each corner to level the plinth.



3. Attach hotcupboard plinth to the AGA Dual Control plinth using M6 screws and washers provided (See Fig. 10).

Attach locking screw and jacking screw into plinth. Make sure at this stage that the jacking screw does not protrude beyond outer face of plinth. Ensure locking screw is located into AGA DC3 plinth but not fully tightened. A gap of approximately 3mm should be present between the plinths apart from at the very front where the hotcupboard spacer plate should be touching the AGA DC3 plinth.



4. Run a straight edge along the front of the AGA Dual Control plinth, to ensure the front face of both plinths sit squarely against the straight edge. (See Fig. 11)

When satisfied both plinths sit squarely, jacking screws can be tightened until they just make contact with the AGA Dual Control plinth, and locking screws can now be tightened.

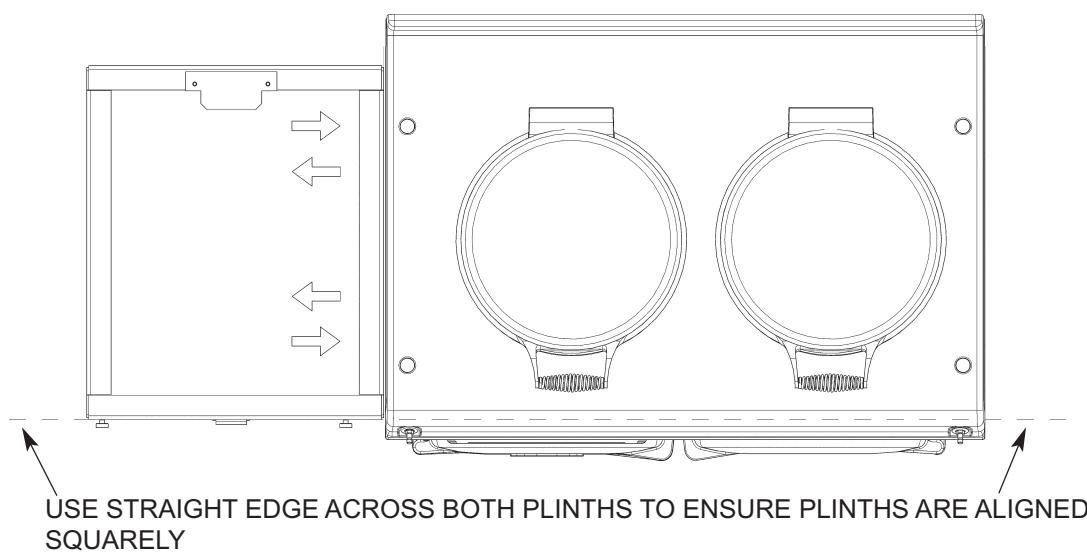


Fig. 11

DESN 516551

5. Front jointing bracket can now be hooked into place over the two pot magnets. This will latch the two plinths together. (See Fig. 12)

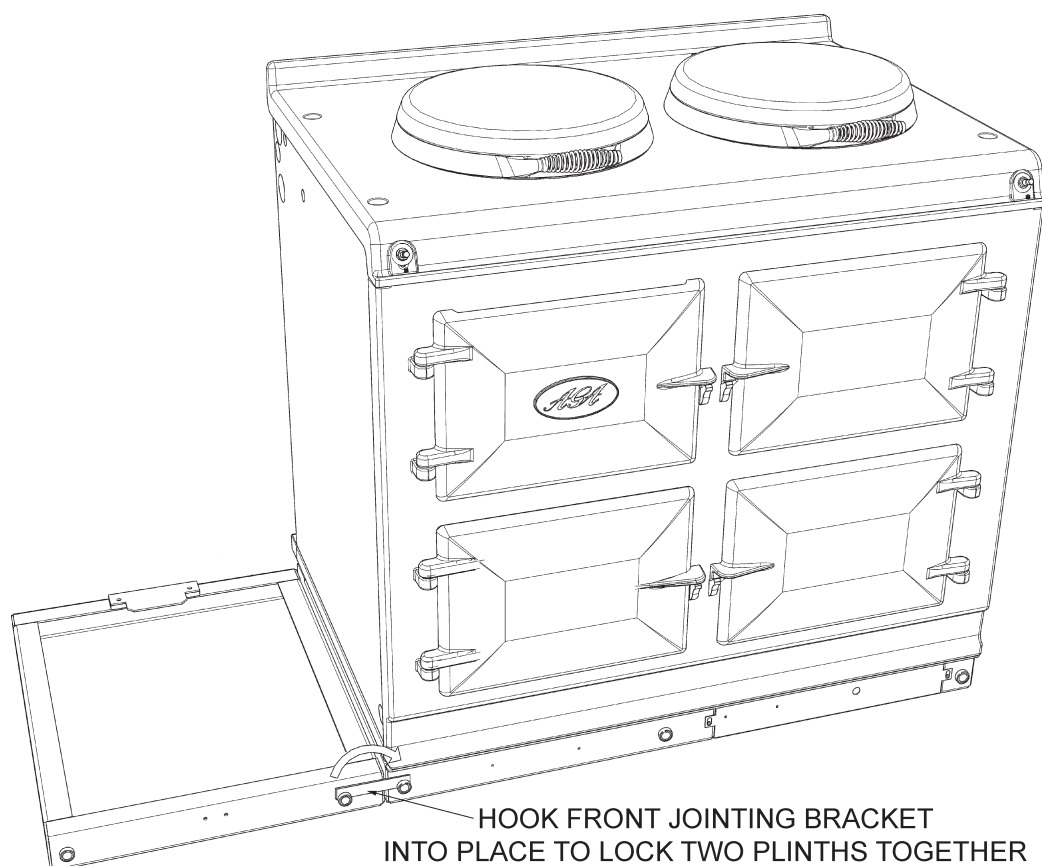


Fig. 12

DESN 516553

6. Slide hotcupboard onto plinth until rear tongue bracket engages fully into rear of base slot, (See Fig. 13). Ensure the appliance is aligned squarely with the plinth then proceed to engage the front tongue bracket into the slot on the under side of the base plate. Once satisfied that the front tongue bracket is engaged fully lock it into place by tightening the two M6 screws fully. Ensure that the electrical cable does not come into contact with oven vent pipe from the AGA DC3.

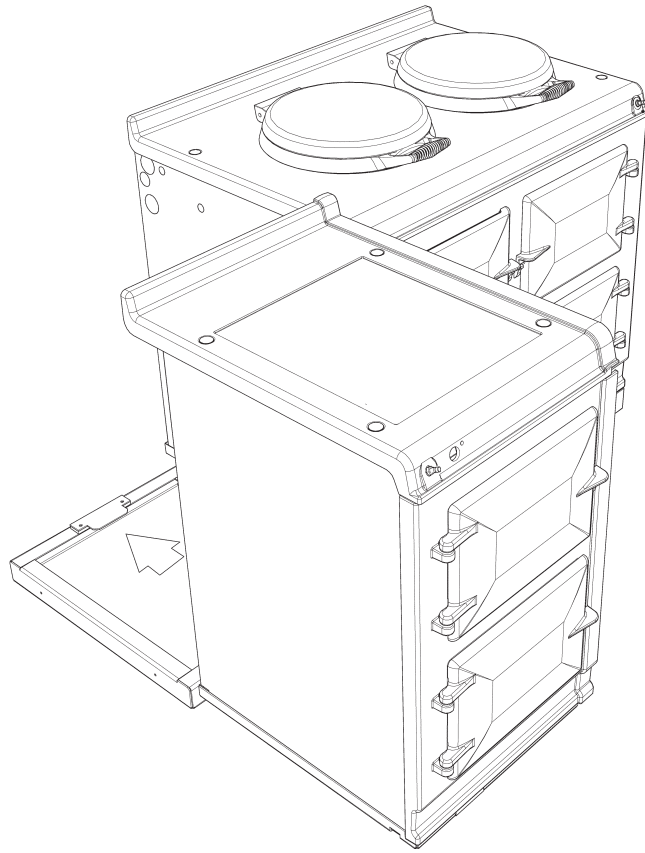


Fig. 13

DESN 516552

7. The hotcupboard top plate is set 5mm higher than the AGA Dual Control top plate. This is to prevent damage to the enamel during installation. Lower the top plate using the adjusters (See Figs. 14 and 15).

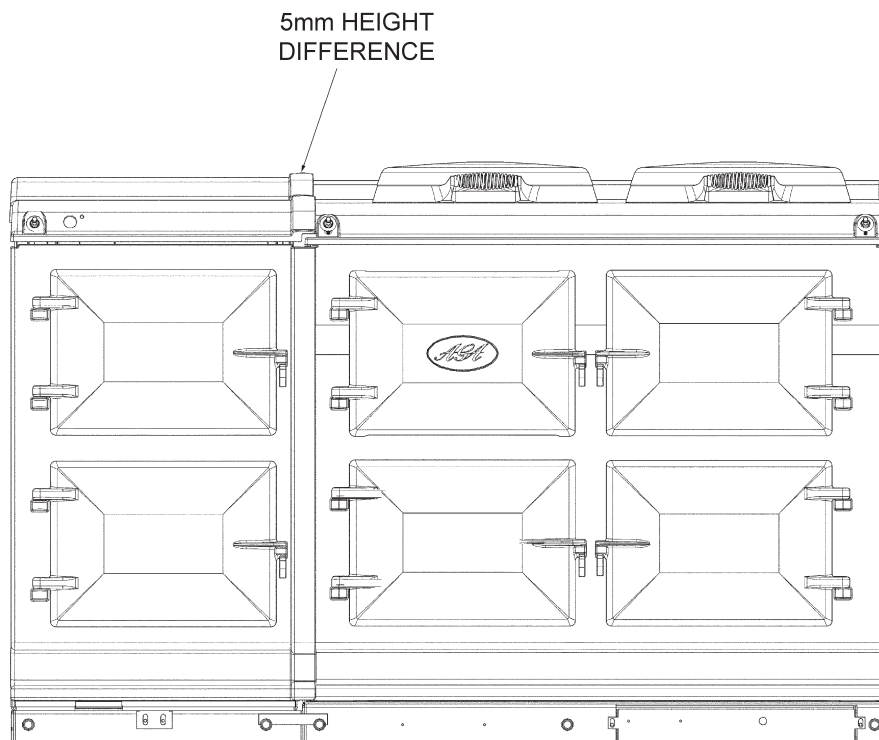


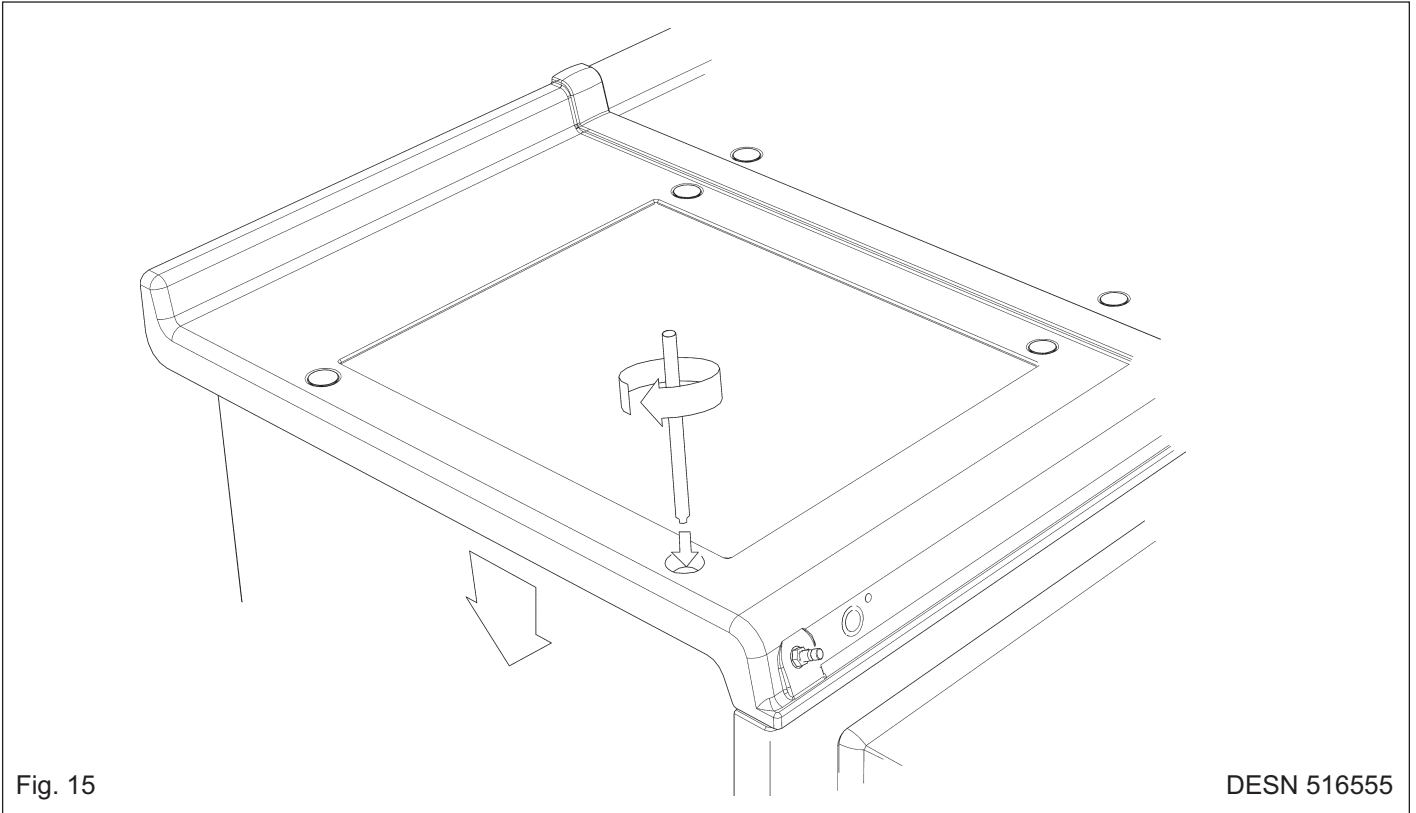
Fig. 14

DESN 516554

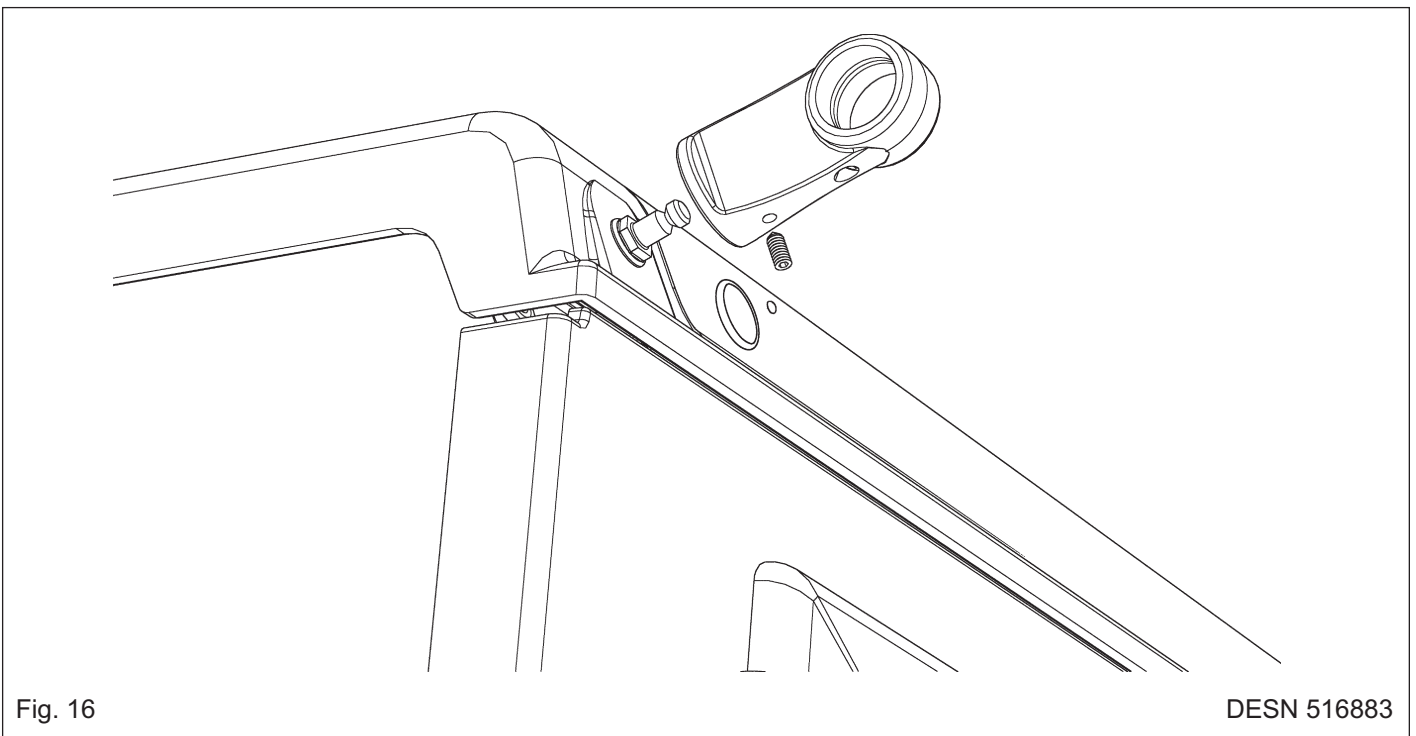
8. Using the stay rod nut adjusting tool, carefully lower the top plate adjusting nuts until the top plate sits at the required height, making sure that the top sits level and matches the height of the AGA DC3. (See Fig. 15).

For servicing requirement, top plate should be removed by raising adjusters approximately 5mm, the top plate can now be removed easily without causing damage to the enamelled surfaces.

When removing the top plate, the switch wiring harness should be disconnected from the main wiring harness at the connection point located at the front left hand side of the appliance, beneath the formex cover sheet.



9. Fit the handrail bracket over the fixing stud located on the top plate. Lock into position by tightening the grub screw nearest the appliance. (See Fig. 16).



10. Next the handrail, endcaps and handrail require assembly.

Slide the handrail through the handrail brackets.

AGA DC3 HANDRAIL CONNECTION

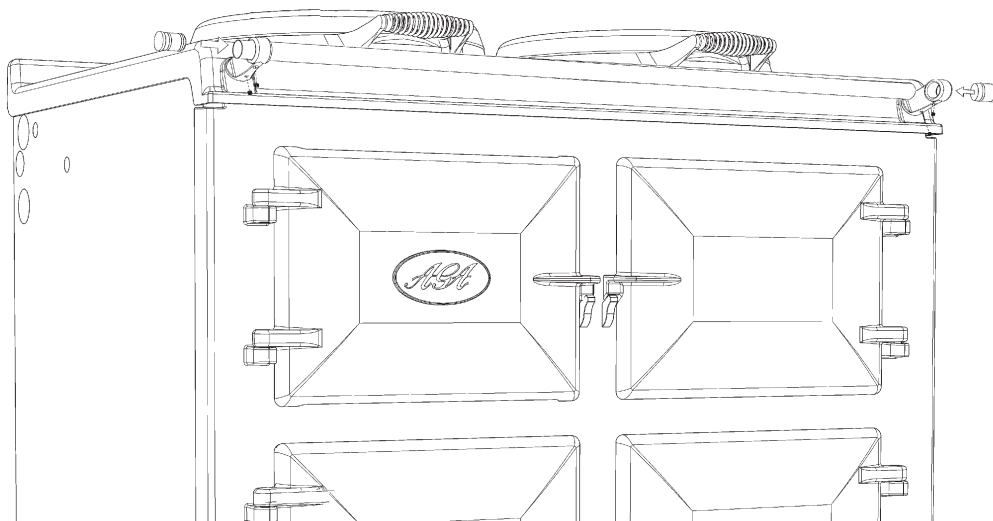


Fig. 17

DESN 516880

11. On 5 oven appliances, fit allthread stud into the insert located in the one end of the handrail, then feed the handrail through the bracket (ensuring that the allthread stud is protruding from the right hand side of the hotcupboard handrail) and screw the handrails together. (See Fig. 18).

AGA DC5 HANDRAIL CONNECTION

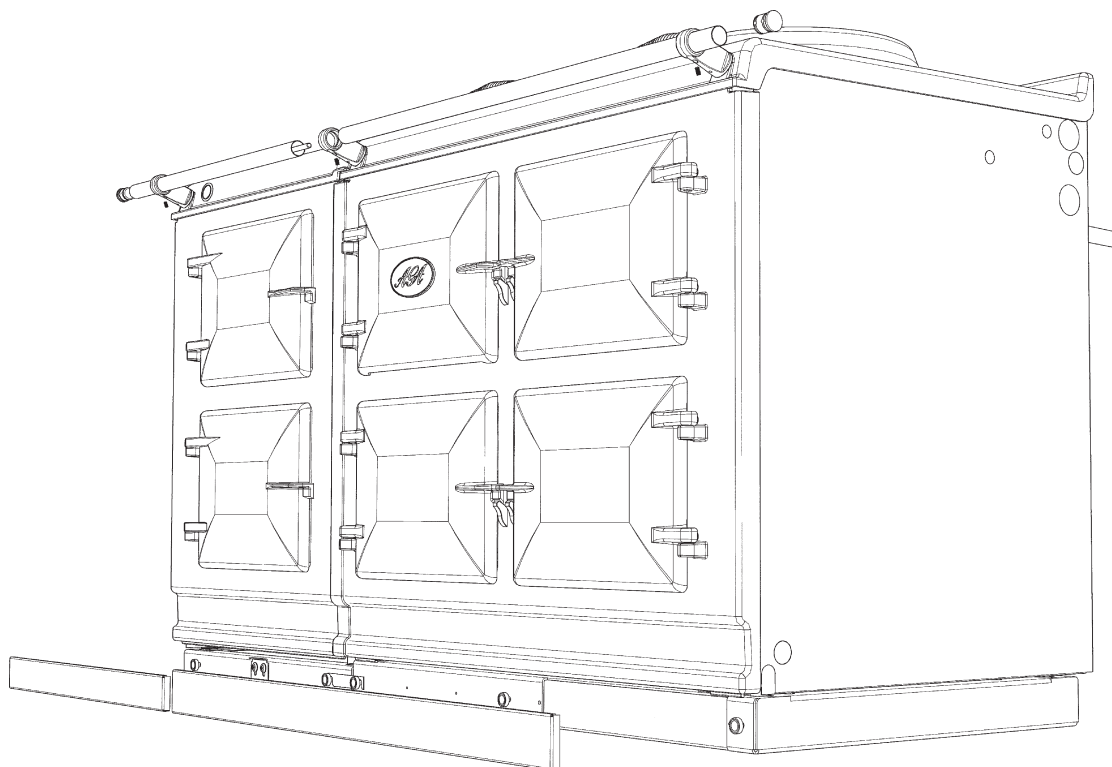


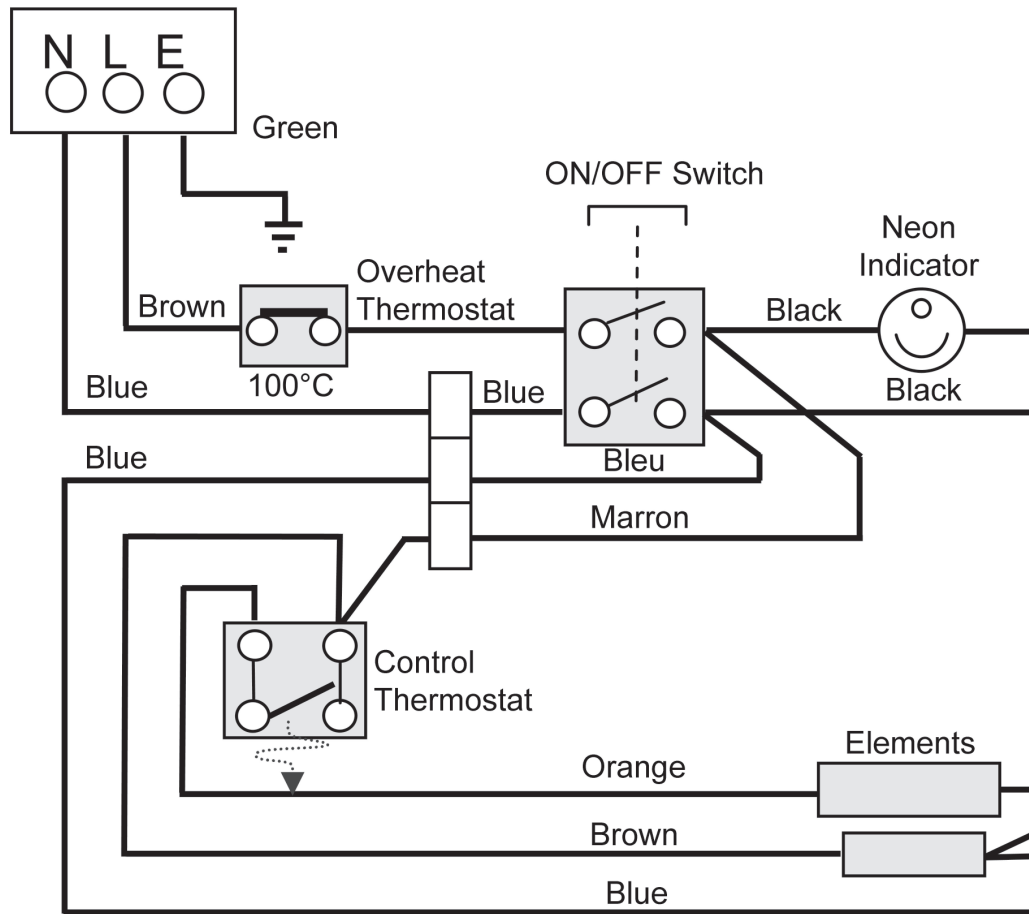
Fig. 18

DESN 516879

12. Once the handrail assembly is located squarely, lock the handrail in position by winding in the grub screws on the underside of each handrail bracket.
13. Once the handrails are locked in position, fit the handrail endcaps. The endcaps should be carefully pushed into place until they sit flush with the outside face of each bracket (a light smear of lubricant such as, washing up liquid on the end cap 'O' rings may ease fitment).
14. Finally, fit the plinth fascia to the magnets on the front of the plinth, making sure that on 5 oven appliances the right hand side of the module plinth fascia sits against the left hand side of the AGA Dual Control plinth fascia leaving no gap between. Make sure that the plinth fascias are centrally located and do not overhang either appliance. (See Fig. 18)

Commission the AGA Dual Control, as stated in the relevant Installation Instructions and carry out functional test on each of the features of the AGA Dual Control.

WIRING DIAGRAM - AGA DC5G (HOTCUPBOARD)

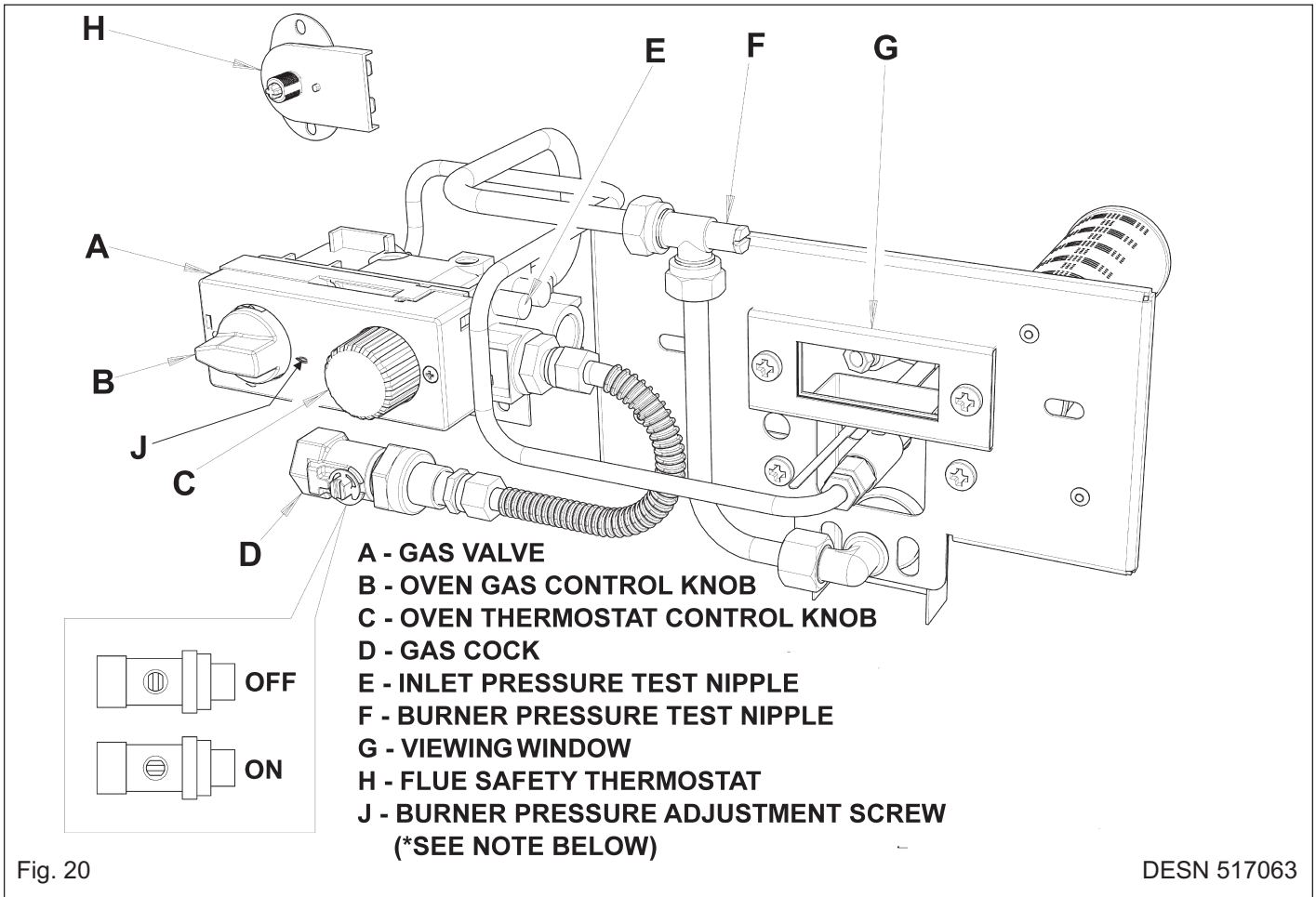


CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION, WHEN SERVICING CONTROLS WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION.

VERIFY PROPER OPERATION AFTER SERVICING

Fig. 19

COMMISSIONING



Advise the user, that for continued efficient and safe operation of the appliance, it is important that adequate servicing is carried out at regular intervals recommended by the AGA Specialist.

Inlet Pressure Testing

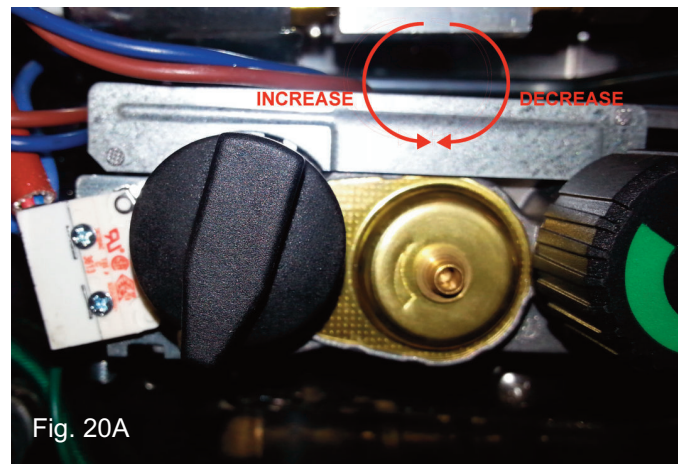
1. Turn off control knob (B) and turn off electrical supply to cooker.
2. Remove facia by pulling off hotplate control knob and removing four fixing screws.
3. Remove inlet pressure test nipple sealing screw (E) and fit rubber tube over the nipple.
4. Turn on gas cock (D).
5. Attach tube to manometer.
6. Follow paragraphs 1-4 of 'LIGHTING PROCEDURE' on page 22, and check inlet pressure (20mb).

Burner Pressure Testing

1. Turn off control knob (B) and turn off electrical supply to cooker.
2. Remove inlet pressure test nipple sealing screw (E) and fit rubber tube over the nipple.
3. Turn on gas cock (D).
4. Fit manometer tube to test nipple (F).
5. Follow paragraphs 1-4 of 'LIGHTING PROCEDURE', and check burner pressure (10 mbar).

NOTE: Burner pressure adjustment screw (J) is located behind valve cover.

Test all safety devices. Test time out of FFD.



COMMISSIONING

CAUTION: BEFORE LIGHTING: ENSURE KNOB (B) IS IN THE OFF POSITION (SEE FIG. 21). ALSO ENSURE GAS SUPPLY TO COOKER IS ON, AND THE GAS SERVICE COCK (D) IS IN THE ON POSITION (SEE FIG. 20), AND THE ELECTRICAL SUPPLY TO THE AGA IS SWITCHED ON.

LIGHTING PROCEDURE - SEE FIGS 20 - 26

1. The main burner gas flow is set with the oven thermostat control knob (C). (See Fig. 21). First, ensure both knobs are turned fully clockwise. Oven gas control knob (B) to the OFF position and knob (C) to the minimum setting (thin end of the white band).
2. Turn oven gas control knob (B) slightly anti-clockwise towards the IGNITION position (🔥) until reaching stop, press down and hold for 5 seconds (gas flows only to the flame supervision burner). (See Fig. 22).
3. Continue pressing down knob (B) while turning further anti-clockwise to the (●) position (this activates the piezo ignitor), continue to hold down for 10 seconds after flame supervision burner has been lit. (If it does not light, steps 2 and 3 can be repeated). (See Fig. 23).
4. Upon lighting, release knob and turn further anti-clockwise to the ON position (large flame symbol) (See Fig. 24). Pilot gas flows and mains gas flows according to the appliance setting (knob B).
5. Turn the oven thermostat control knob (C) slightly anti-clockwise into the white band (LOW FIRE position). Leave in the low fire position for at least 60 minutes, (See Fig. 25).

NOTE: 'LOW FIRE' position is attained by turning oven thermostat control knob (C) gradually into the white band, until SMALL FLAME is observed through viewing window (F). (See Fig. 20).

6. After at least 60 minutes rotate control knob (C) anti-clockwise to the mid-position of the green band for normal running. (See Fig. 26). Should the main burner and pilot extinguish, repeat the lighting procedure and allow the cooker to warm up at low fire for a further 30 minutes.

NOTE: It will take up to 24 hours for all ovens to reach operating temperature, the oven heat indicator may display green before this. Once the oven temperatures are at operating temperature it may be necessary to make fine adjustment to the oven control knob to achieve the desired temperatures. It is not advisable to make further changes to the control knob once the desired temperature is achieved.

When the cooker is lit from cold, moisture may form on the enamel which should be wiped off to prevent staining.

IF THE FLAME HAS EXTINGUISHED FOR ANY REASON, WAIT THREE MINUTES AND REPEAT THE LIGHTING PROCEDURE.

CHECK FOR CLEARANCE OF PRODUCTS OF COMBUSTION - SEE FIG. 20B

Ensure that all doors and windows off the room are closed.

A spillage test must be carried out 10 minutes after turning the main burner to the middle of the green band (see Lighting Instructions), as follows:

By holding a smoke match so that the match head is approximately 3mm up inside of the lower edge of the draught diverter. Spillage is indicated by the smoke being displaced outwards from the draught diverter. If in doubt repeat after a further 10 minutes.

If spillage is detected the chimney may be faulty. The combustion discharge safety device will have operated, the fault must be corrected before leaving the cooker installed, the device must be depressed before the AGA can be re-lit.

If there is a fan in a nearby room where the appliance is installed or in another room within the property, then the test should be repeated with the fan on and interconnecting doors between the cooker and the fan location open.

NOTE: If the fault cannot be corrected turn off and disconnect the gas supply to the cooker and seek expert advice.

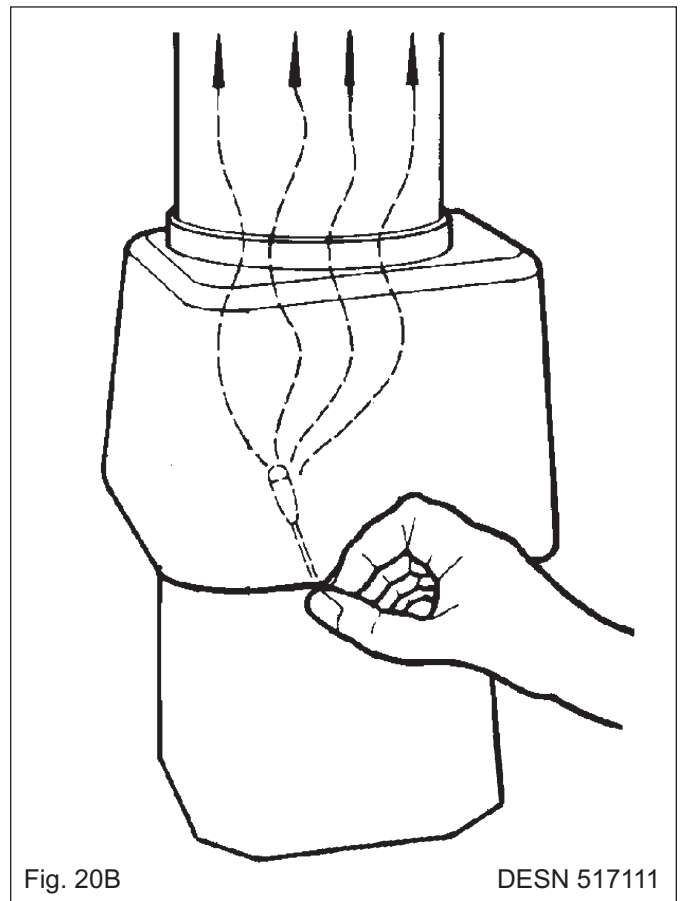
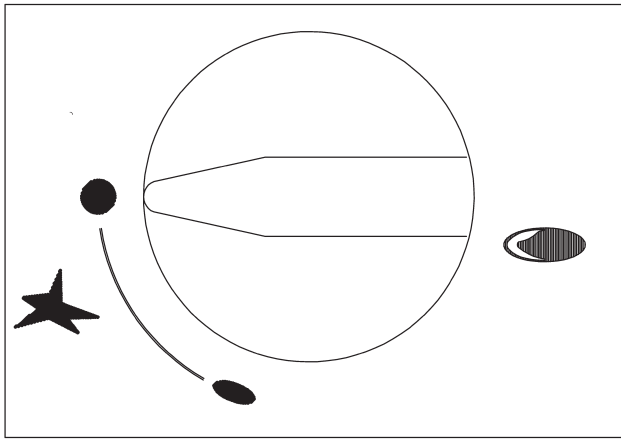


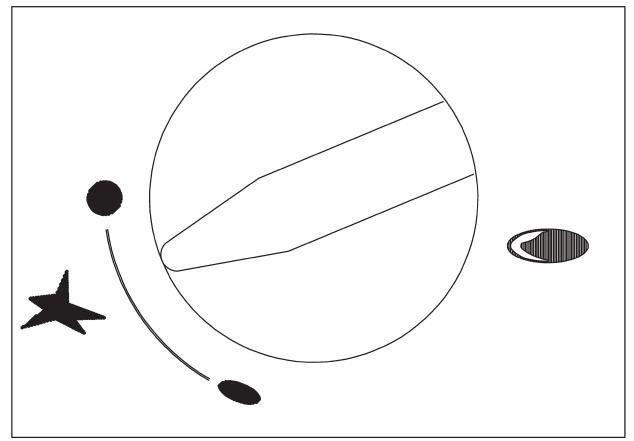
Fig. 20B

DESN 517111



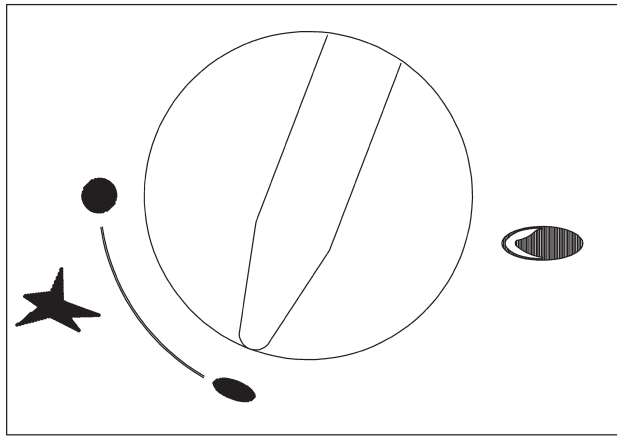
OFF POSITION

Fig. 21



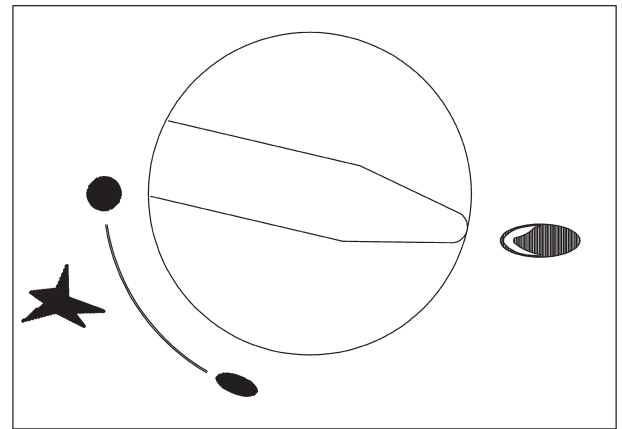
IGNITION POSITION

Fig. 22



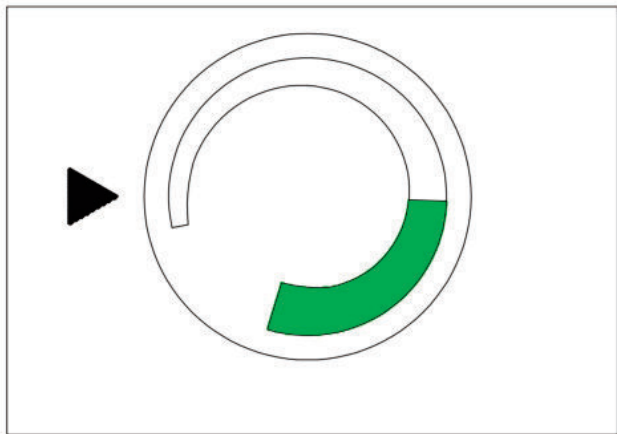
**FLAME SUPERVISION
BURNER POSITION**

Fig. 23



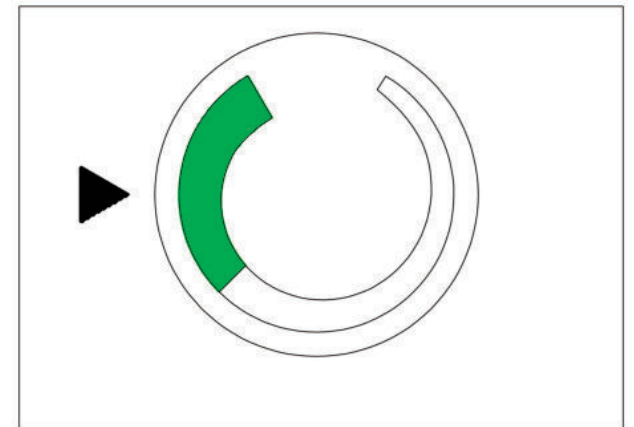
**MAIN BURNER
ON POSITION**

Fig. 24



LOW FIRE

Fig. 25



NORMAL RUNNING

Fig. 26

INSTRUCTIONS

Hand these instructions to the user for retention, and instruct in the safe operation of the appliance.

AGA DUAL CONTROL CHECKLIST

[] SERIAL No.		Tick Box
•	Check hotplate lids and settings.	☐
•	Check oven door seals, adjust door alignment if necessary.	☐
	Baking and Simmering oven rope seals MUST have a gap between the door hinges. The Roasting Oven is fitted with a continuous seal.	☐
	Ensure any plastic film is removed from the inside of the oven doors.	☐
•	Gain access to controls tray and check mains voltage. DO NOT remove any electrical covers to access mains lead. Terminal measurements can be made through small holes in the cover.	☐
Record voltage	1PH [] L1 3PH [] L2 3PH [] L3 3PH []	☐
•	Turn on all cooking zones. Refer to lighting procedure for oven burner. Raise hotplate lids to avoid staining.	☐
•	After 1 hour, check hotplate temperatures (approx).	☐
1.	Hotspot (330 - 380°C)	[]
2.	Simmerspot (200 - 250°C)	[]
•	Check oven burner for flame stability	[]
•	Guide customer through the Users Instructions of the appliance, offering best practices on oven maintenance, energy usage, enamel cleaning (boiled vegetable water staining on enamel etc.)	☐
Engineer's Signature		Date

**For further advice or information contact
your local AGA Specialist**

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



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