



AGA DUAL CONTROL

Model No's: DC3 & DC5

**(Includes External Vent &
Room Vent Option)**

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.**

CONTENTS

SECTION	PAGE
HEALTH & SAFETY	3
INSTALLATION REQUIREMENTS	3
DELIVERY REQUIREMENTS	3
APPLIANCE DIMENSIONS - AGA DC3	4
APPLIANCE DIMENSION - AGA DC5	5
CLEARANCES	6
TOP PLATE ADJUSTMENT - AGA DC3	7
POWER SUPPLY - AGA DC3	8
POWER SUPPLY - HOTCUPBOARD (AGA DC5)	8
MAINS CABLE ROUTING - AGA DC3	9
MAINS CABLE ROUTING - AGA DC5 (HOTCUPBOARD OPTION)	10
EXTERNAL VENT MODELS - VENT PIPE CONNECTION	11
ROOM VENTED MODELS	12
OVEN VENTING SYSTEMS	13
HOTCUPBOARD INSTALLATION	14 - 20
HANDRAIL CONNECTION - AGA DC3	19
HANDRAIL CONNECTION - AGA DC5	19
WIRING DIAGRAM - AGA DC3	21
WIRING DIAGRAM - HOTCUPBOARD	22
AGA DUAL CONTROL CHECKLIST	23

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.

Important

This appliance may contain some of the materials that are indicated below. 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.

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 - may be harmful if inhaled, may be irritating to skin, eyes, nose and throat. When handling avoid inhaling or 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.

INSTALLATION REQUIREMENTS

THIS APPLIANCE MUST ONLY BE INSTALLED BY COMPETENT ENGINEERS WHO HAVE BEEN SPECIFICALLY FACTORY TRAINED ON THE PRODUCT AND WHO HAVE THE APPROPRIATE EQUIPMENT.

With specific exceptions, the installing of any type of AGA cooker is subject to the respective directions contained in the current issue of the Building Regulations. In addition, planning permission may need to be obtained, which should be applied for separately.

The installation of the appliance must be in accordance with the relevant requirements of the IEE Wiring Regulations and Building Regulations. It should be in accordance also with any requirements of the local authority.

In your own interest, and that of safety to comply with the law, all appliances should be installed by an authorised AGA engineer or distributor, in accordance with the relevant regulations.

DELIVERY REQUIREMENTS

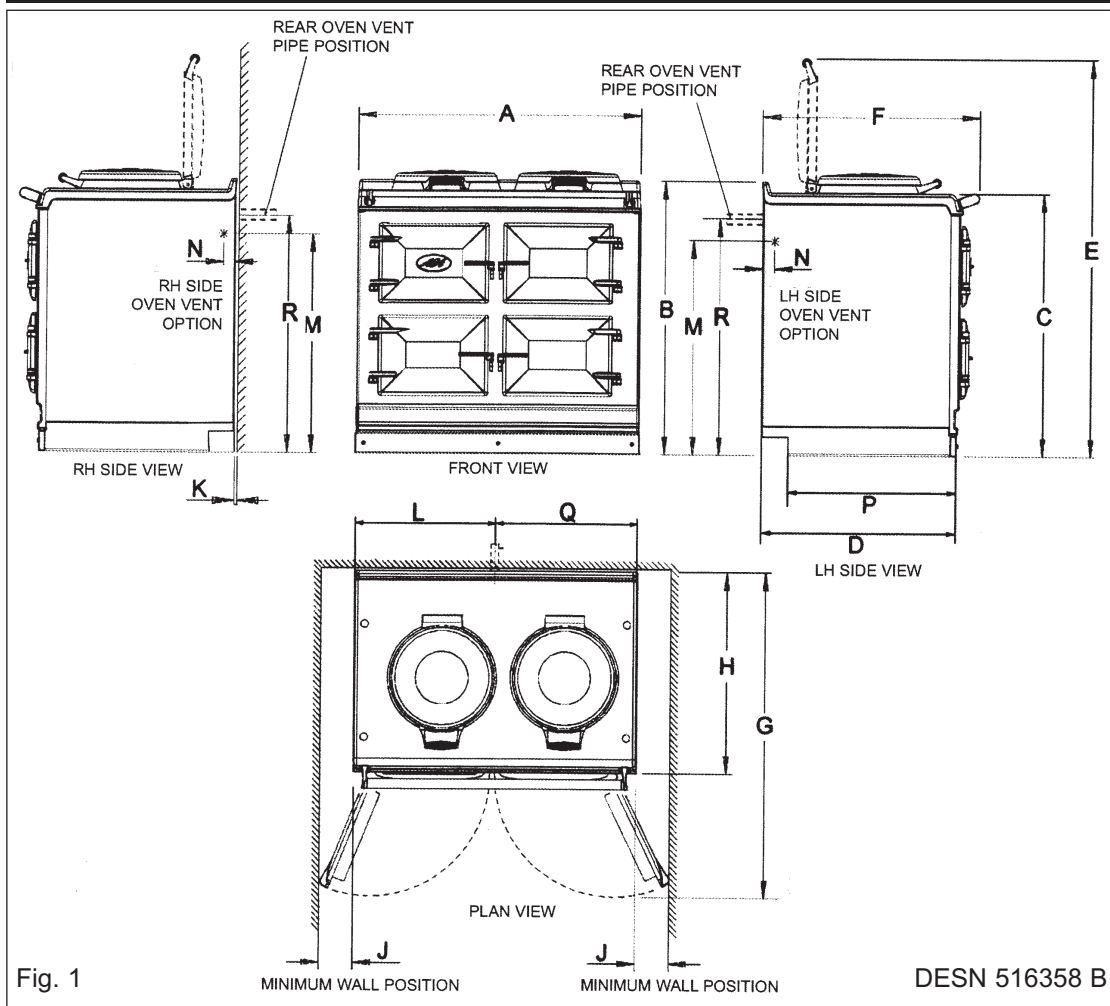
The AGA DC3 arrives on 1 pallet

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 DC3



	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
mm	987	951	913	680	1388	760	1145	698	116	10	559	813	30	634	422	849

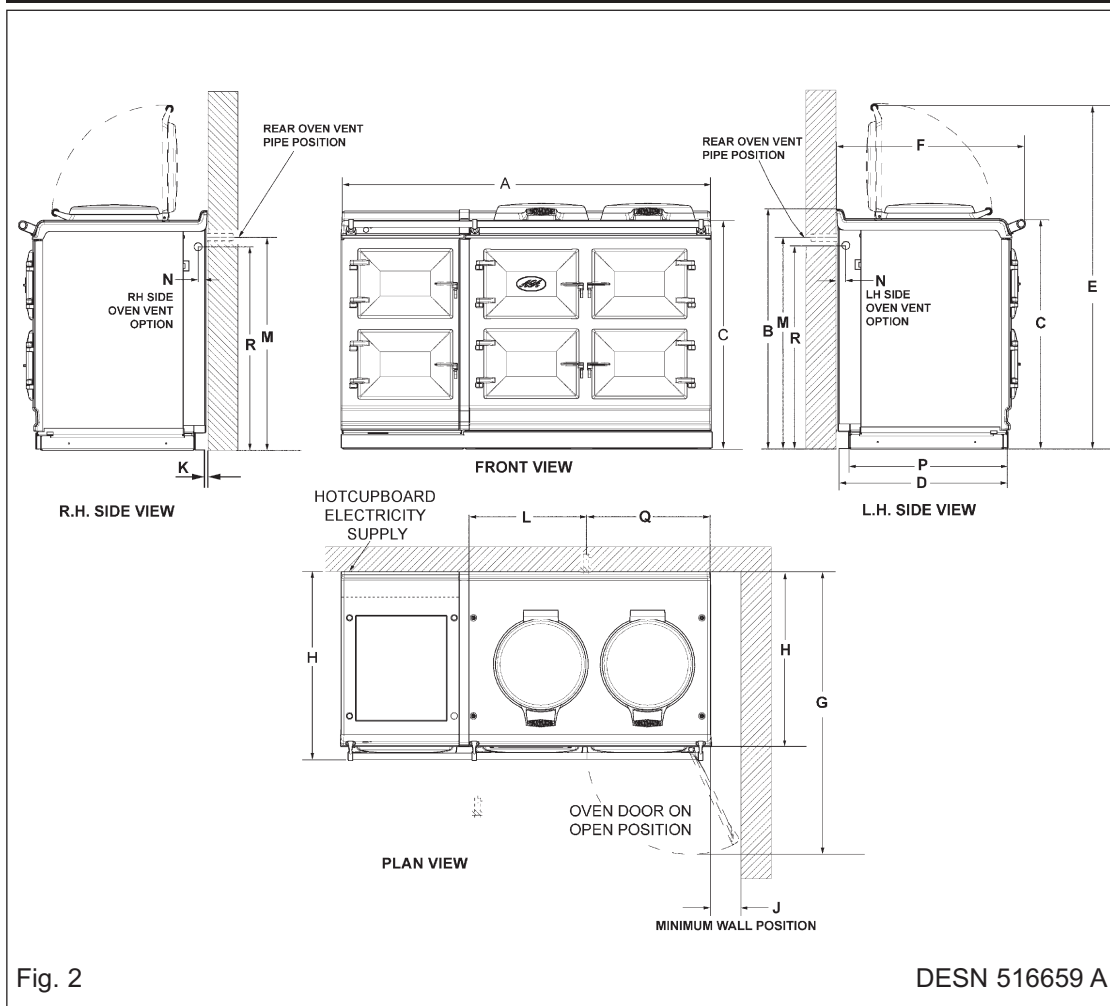
Cooker Dimensions

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) - 444kg

APPLIANCE DIMENSIONS - AGA DC5



	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
mm	1478	951	913	680	1388	760	1145	698	116	10	559	849	30	634	422	813

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) - 444kg

Hotcupboard - 110kg

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. Shims are provided to eliminate rocking.

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 between the rear of the top plate, and the wall behind the appliance.

Since this appliance can be used 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.

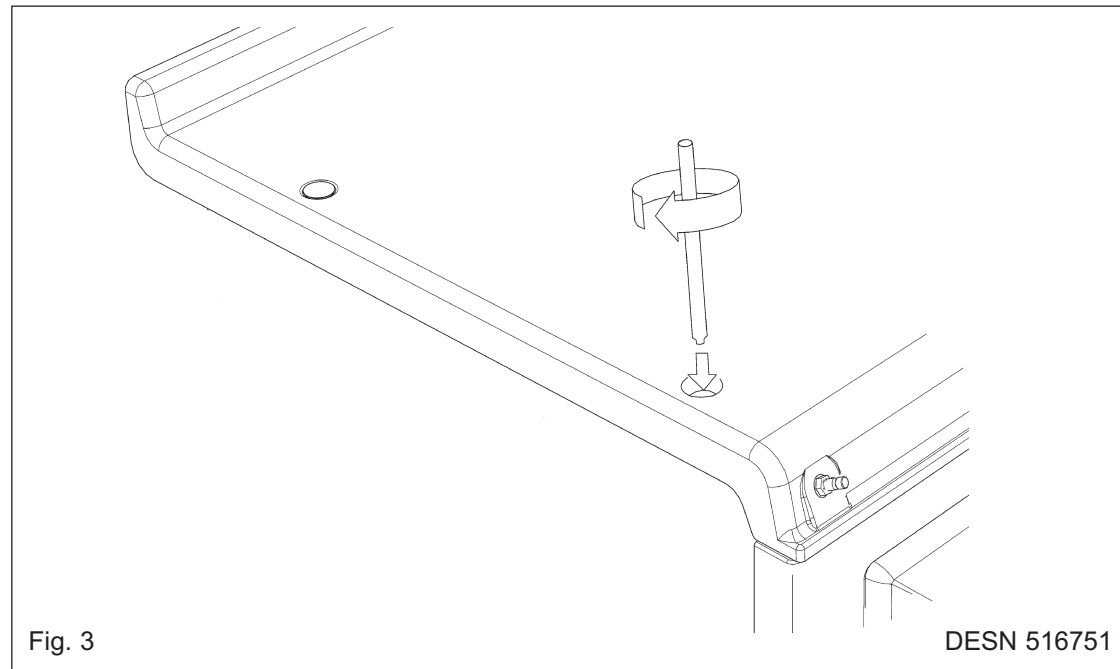
In addition, oven vent piping must be insulated with the high temperature film glass sleeving, supplied, and a 25mm gap.

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 - AGA DC3 (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.



POWER SUPPLY - AGA DC3

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 32 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 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. AE4M280352).

POWER SUPPLY - HOTCUPBOARD (AGA DC5)

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 model for 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 DC3

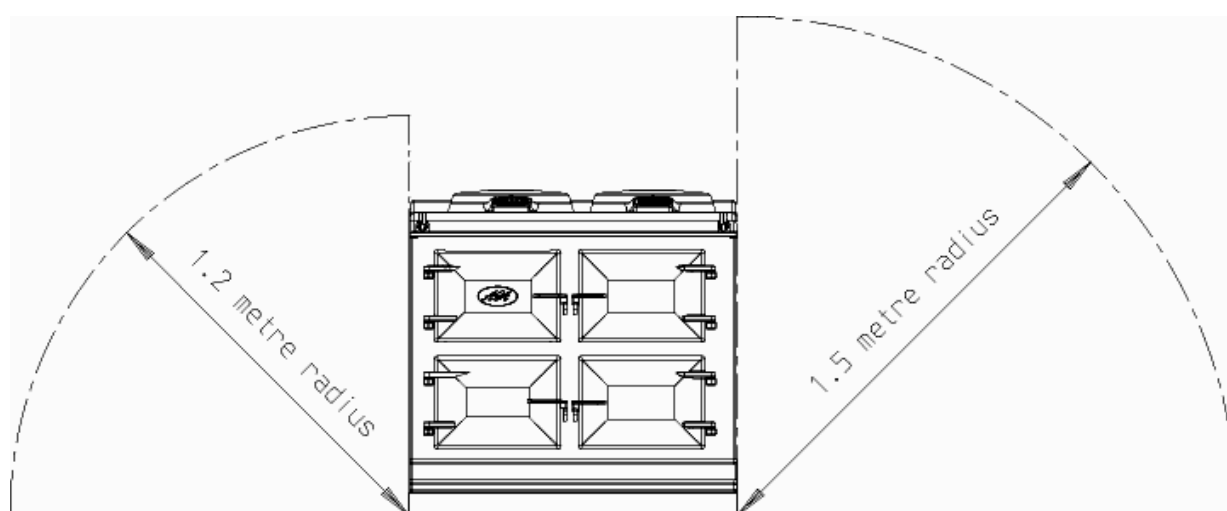
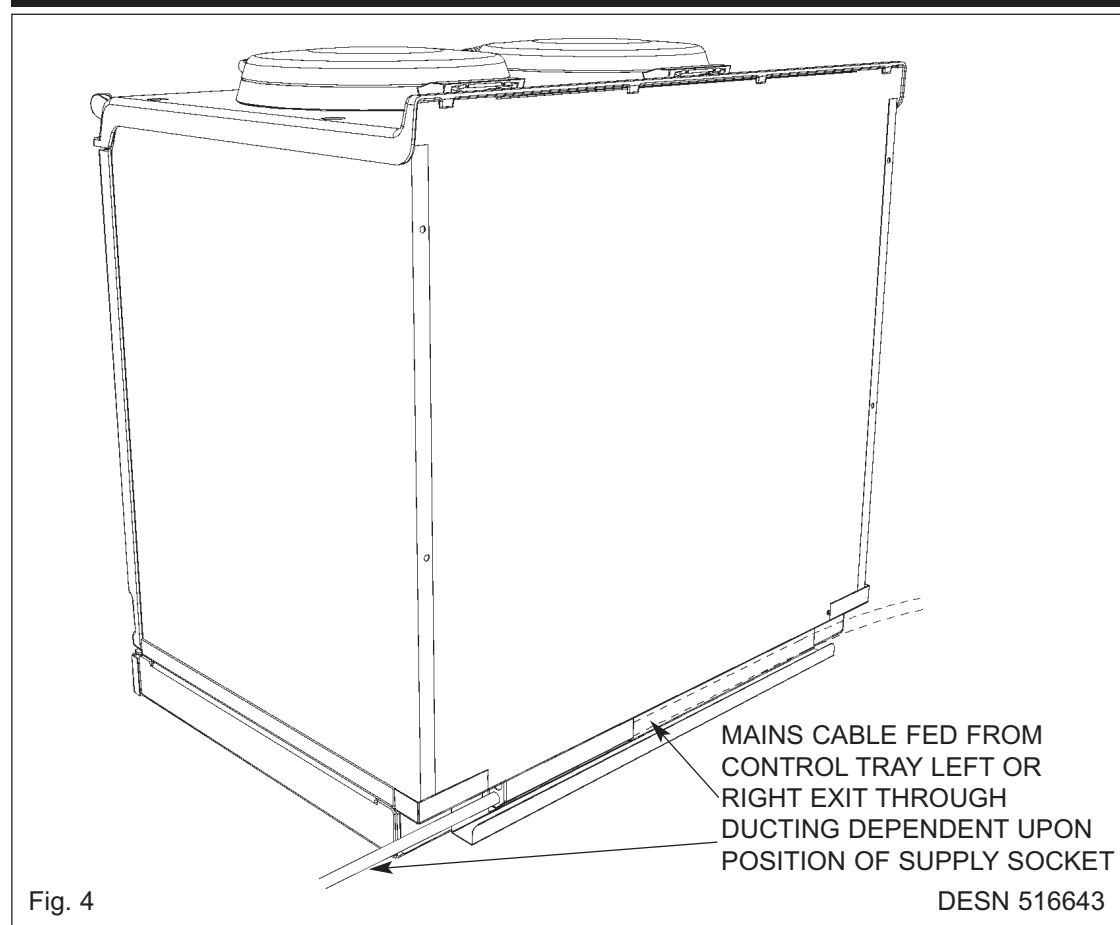
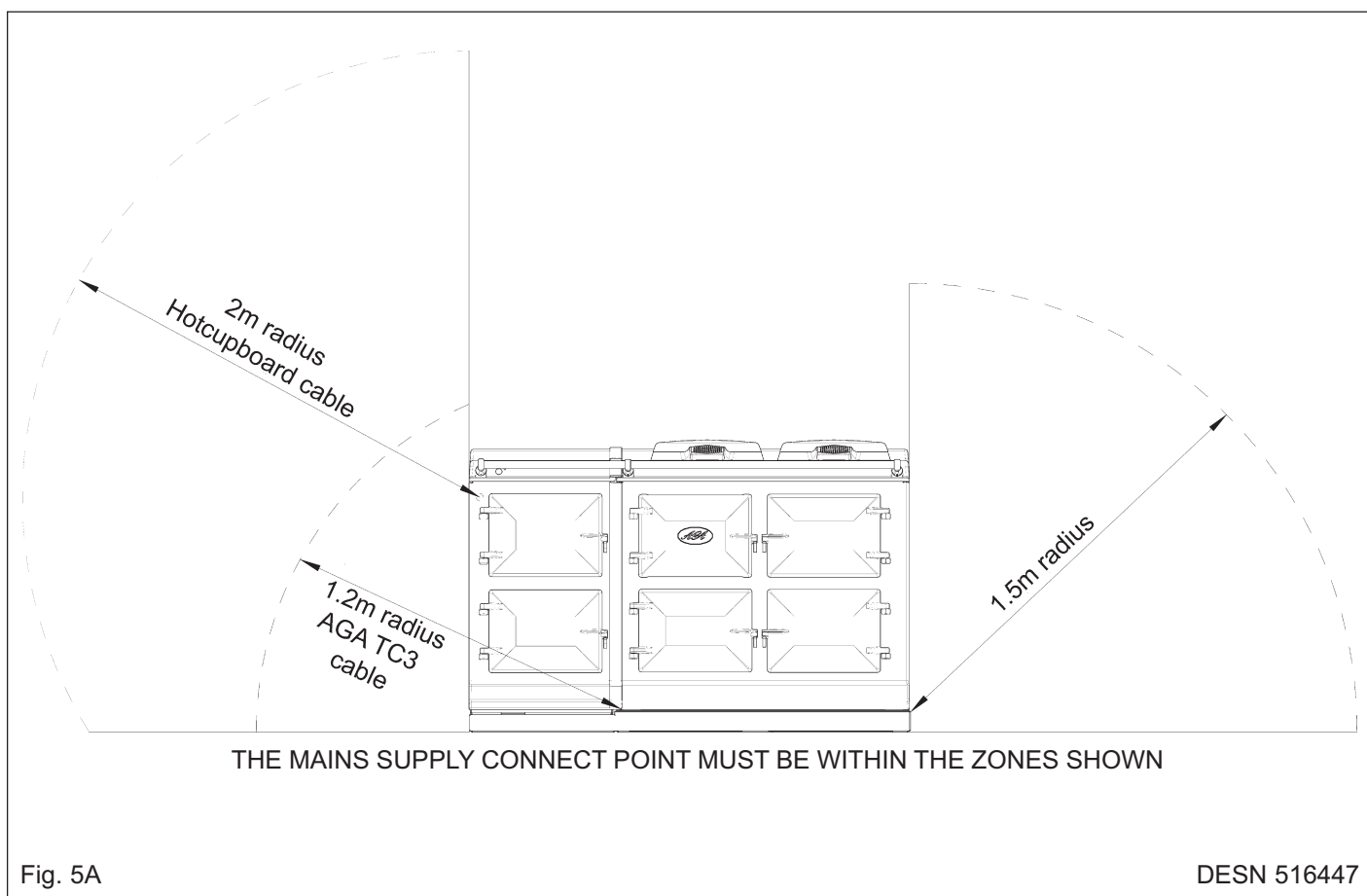
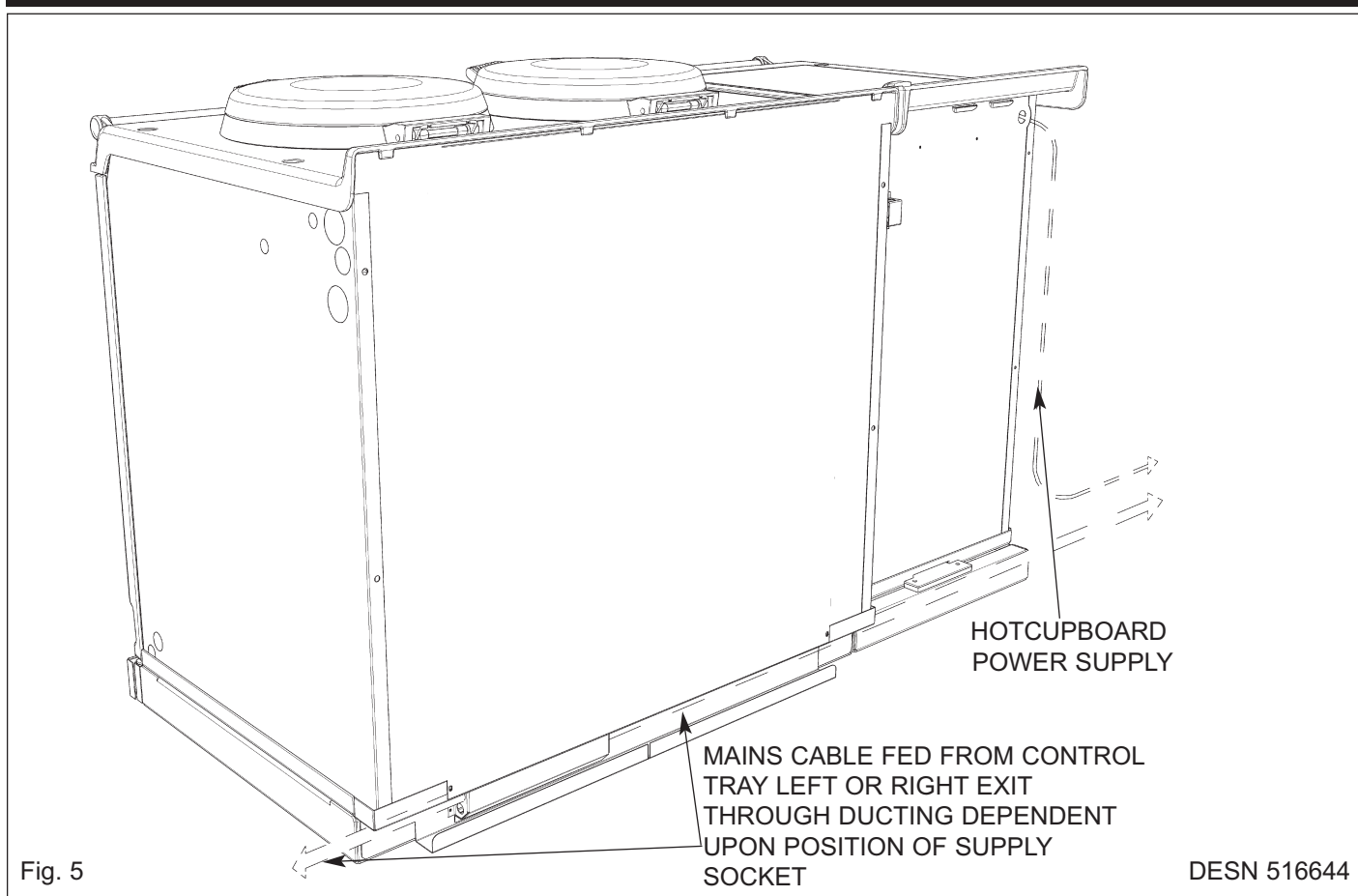


Fig. 4A

DESN 516105

MAINS CABLE ROUTING - AGA DC5 (HOTCUPBOARD OPTION)



EXTERNAL VENT MODELS - VENT PIPE CONNECTION

NOTE: THE VENT OPENING UNDER THE SHROUD SHOULD BE LEFT OPEN **NOT CAPPED**.

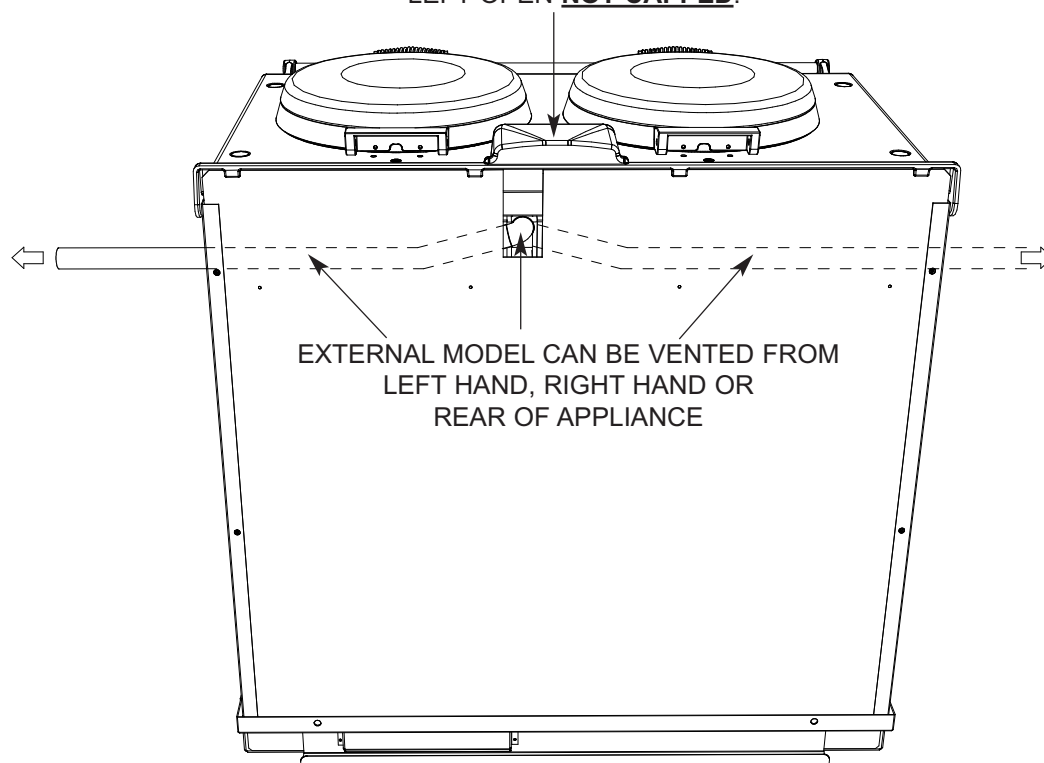


Fig. 6

DESN 516653

The appliance is shown with the oven venting from the RH side.

Access to vent pipe fitting, through rectangular cut-out

It can also be vented from the rear and exiting through hole in back panel.

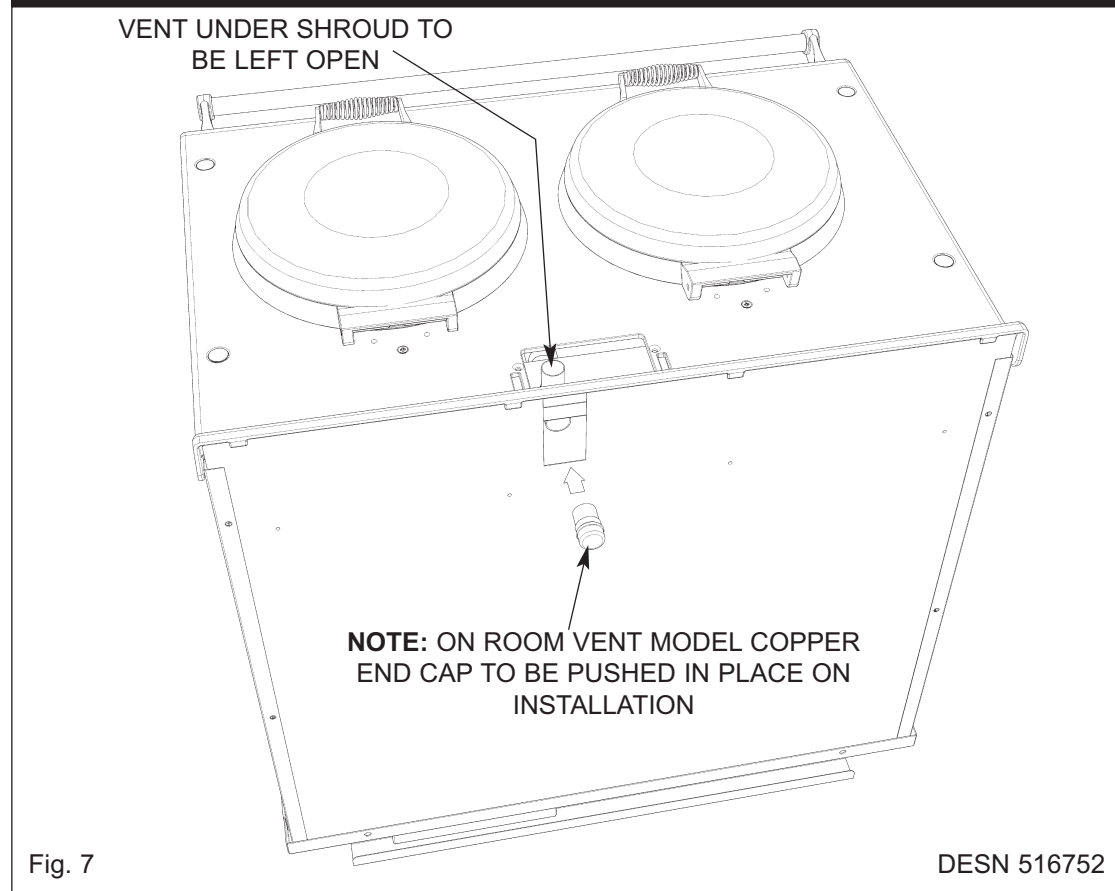
Reseal pipe connection with aluminium tape.

When installing a AGA DC5 which is venting to the left hand side, care must always be taken to ensure the vent pipe is fully lagged (using insulation provided). Where the vent pipe passes behind the hotcupboard, ensure that the mains cable is kept away from the hot surface of the vent pipe.

Rear or right hand venting is preferable on AGA DC5 installations.

NOTE: Vent pipe outlet under shroud to be left open. **DO NOT CAP OFF**.

ROOM VENTED MODELS



Room Vented Models

It is recommended that this model is fitted in conjunction with a cooker hood. The AGA oven venting outlet is located on the top of the AGA between the two hotplates., and is designed for venting the moisture from the ovens. The cooker hood should be positioned not less than the minimum height as recommended by the manufacturer, from the top of the AGA.

These are 650mm for AGA Rext 720 650mm for AGA 1000 SE

OVEN VENTING SYSTEMS

See Fig. 8

The appliance oven venting pipe can be achieved up to a maximum length of 6 metres, through an outside wall. Great care must be taken in all-timber houses.

If the oven vent pipe passes through combustible material, there must be an air gap of at least 25mm around the pipe and preferably wrapped with insulation material.

The max supply to the motor, as calculated should be limited to 24V (DC), for ideal operating conditions.

Calculating the voltage for the particular pipework is as follows:-

1. Keep the pipe run as simple as possible - avoid bends.
2. "Vertical risers" are not permitted.
3. Pipe run should be horizontal - slight downwards slope towards the fan.

Minimum 12 volts for first metre of vent pipe run inclusive of 1 bend

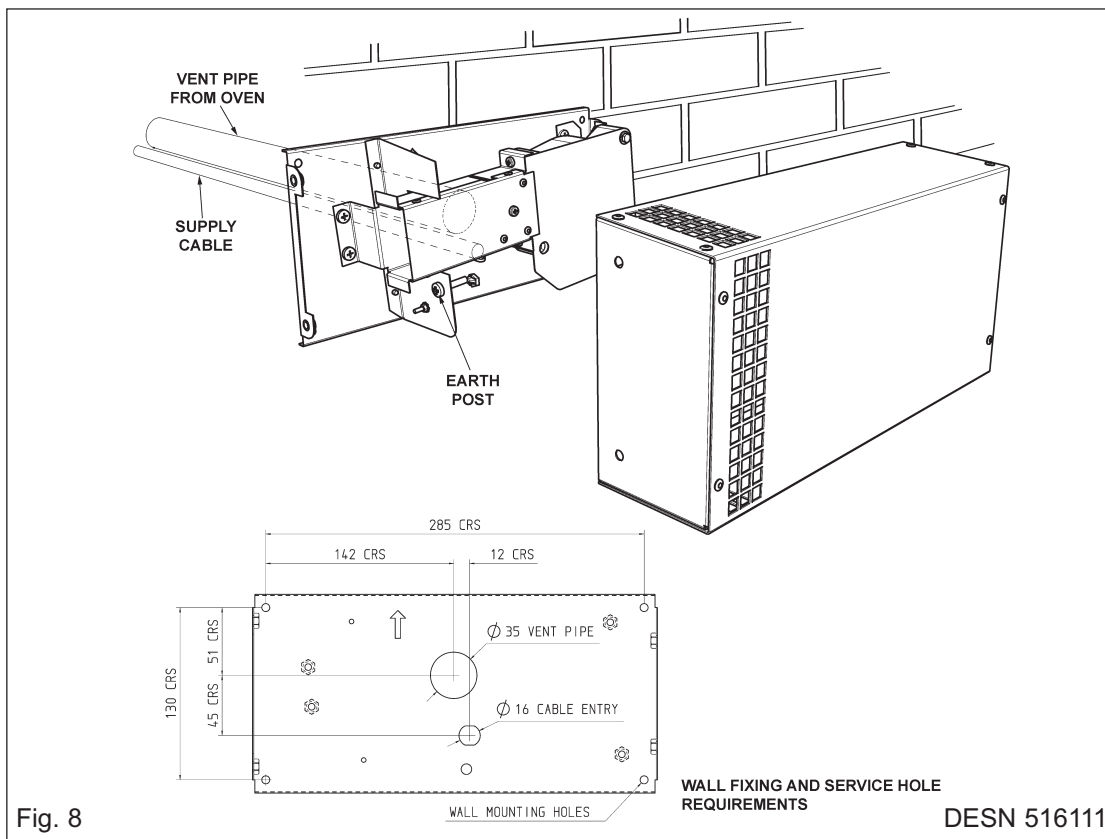
Each extra metre add 1 volt.

Each extra bend add 2 volts

Maximum allowed 24 volts.

Minimum setting is 15 volts.

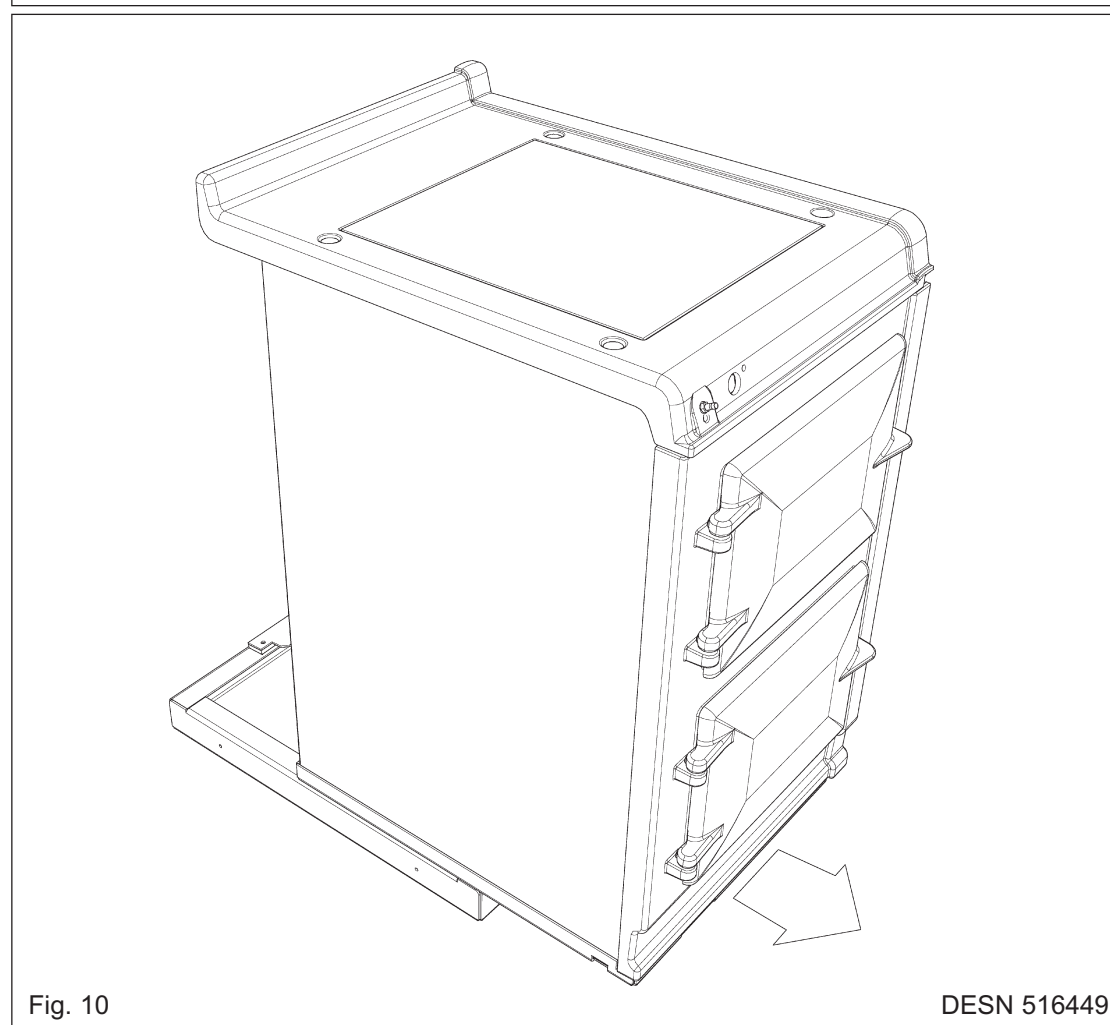
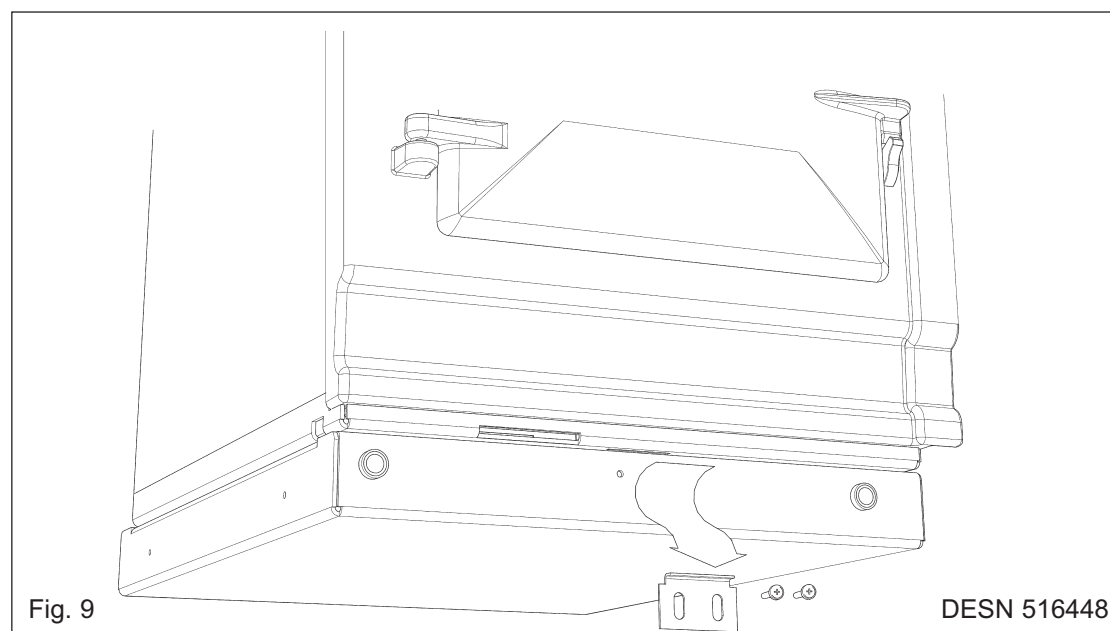
NOTE: IN THE OVEN VENTING, PROVISION MUST BE MADE FOR EASY 'RODDING' OF THE PIPEWORK TO FACILITATE CLEANING.



HOTCUPBOARD INSTALLATION

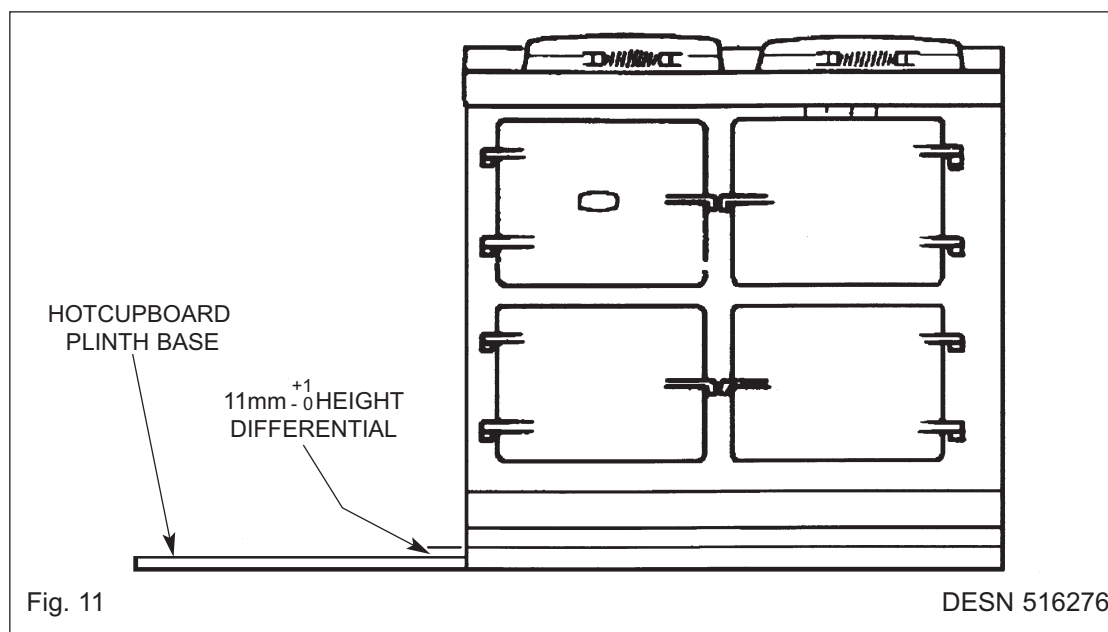
NOTE: The AGA DC5 hotcupboard should arrive with the top plate in a jacked up position. This is to allow the complete appliance to be slid onto its plinth when alongside the AGA DC3 without the top plates clashing. The hotcupboard top plate should then be wound down to its correct height once the appliance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

1. Detach hotcupboard from plinth by removing two screws and tongue bracket from plinth (See Fig. 9), slide hotcupboard forwards and away from rear fixing bracket (See Fig. 10).



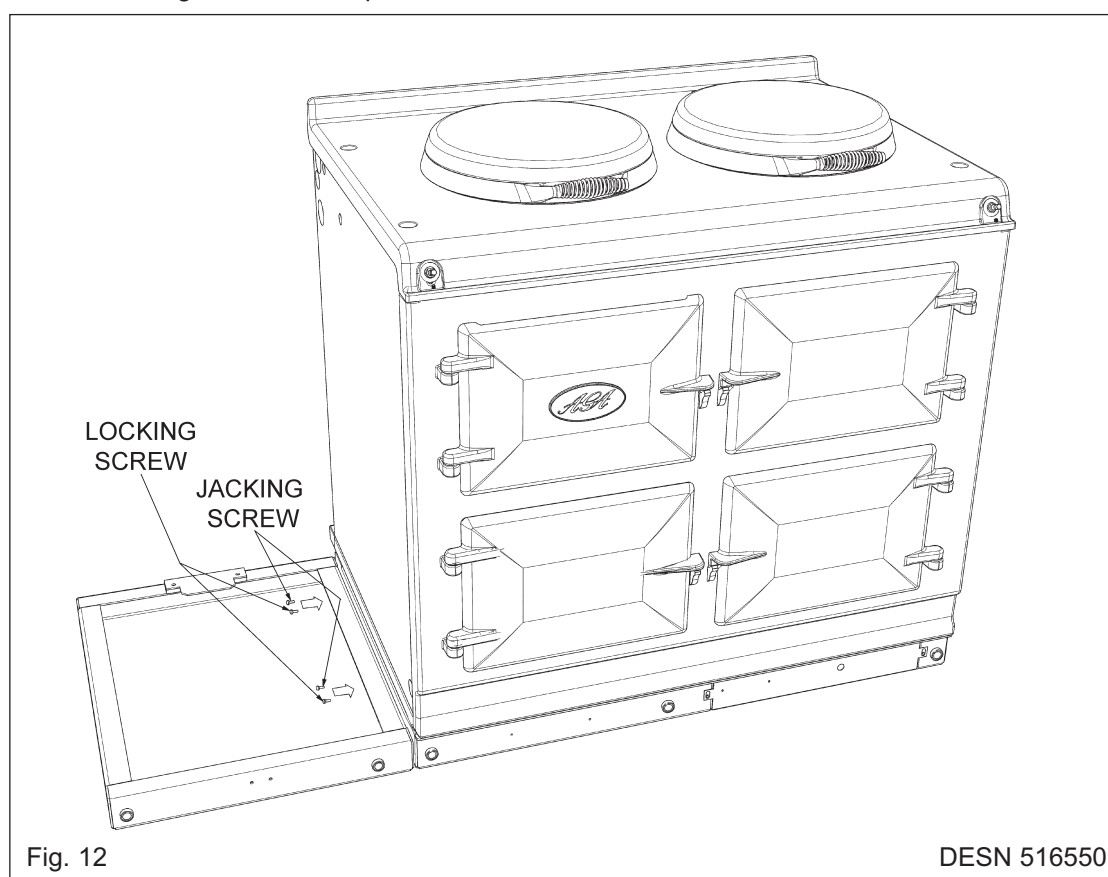
2. Position the plinth alongside the AGA Dual Control leaving no gap between the two plinths (See Fig. 11).

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.



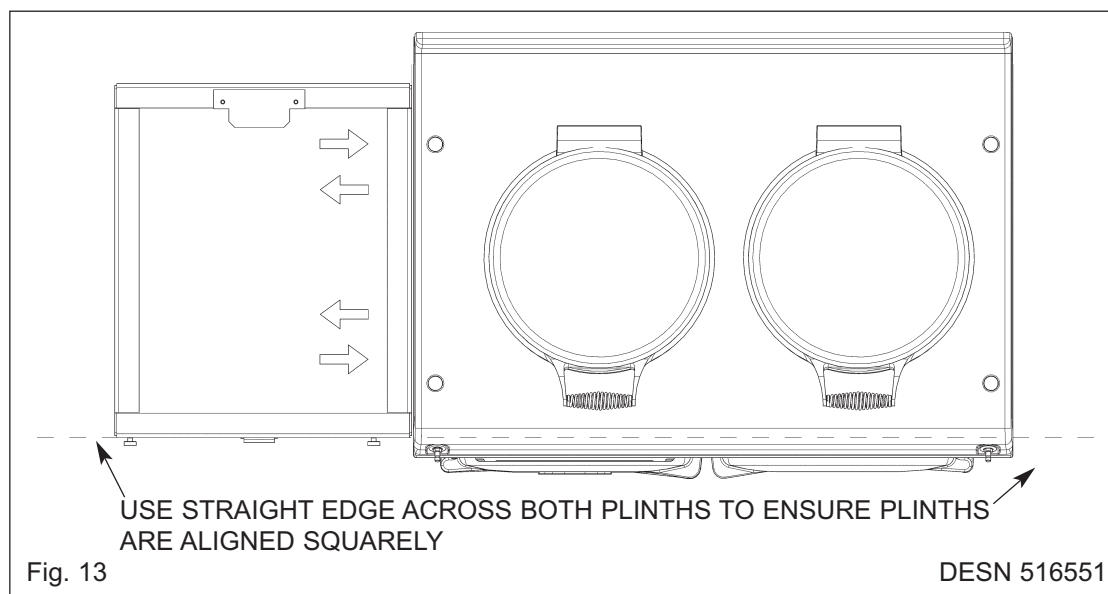
3. Attach hotcupboard plinth to the AGA Dual Control plinth using M6 screws and washers provided (See Fig. 12).

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.

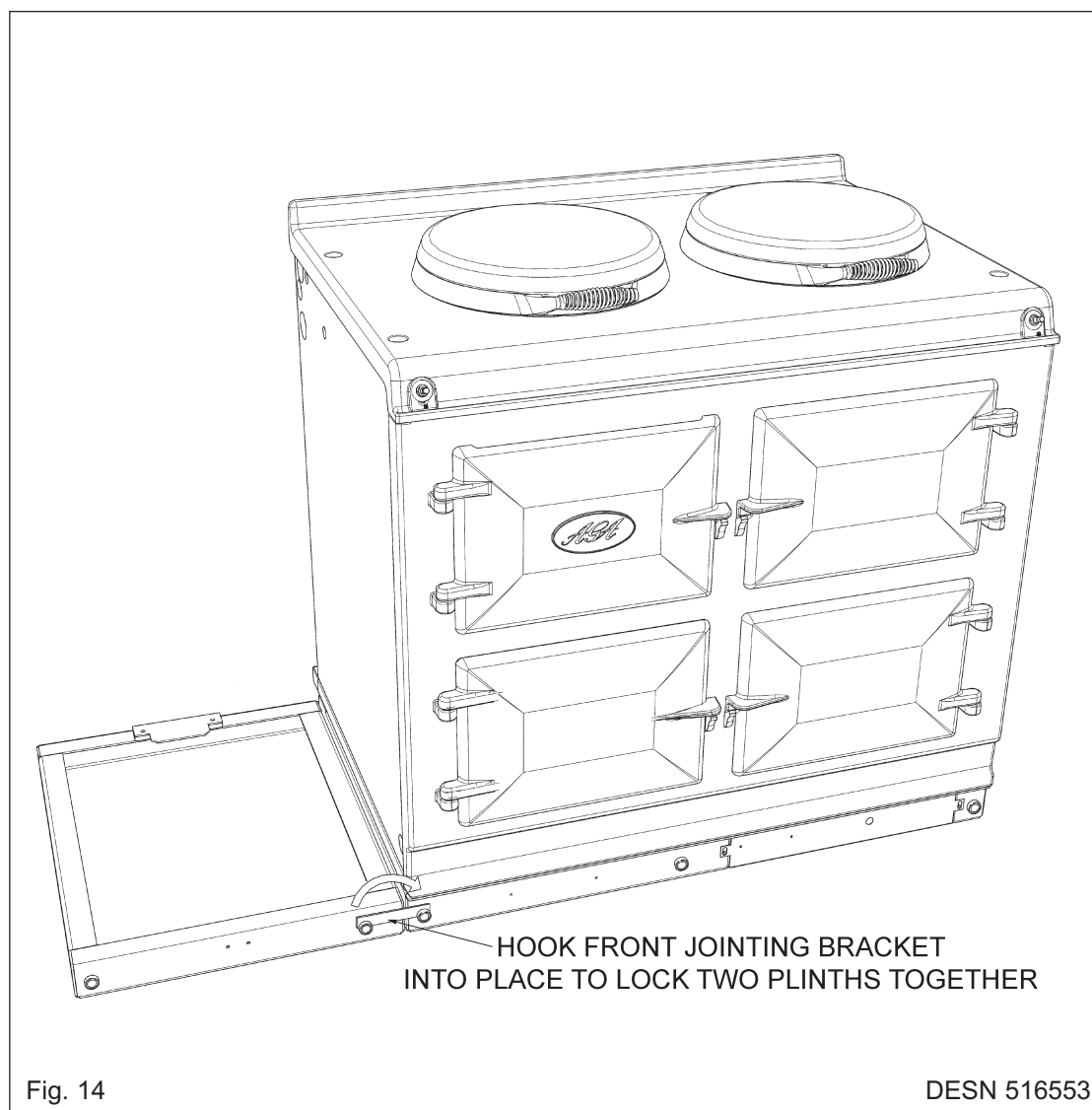


4. Run a straight edge along the front of the AGA Dual Control plinth, to ensure the front face of both plinths sit squarely against the straight edge. (See Fig. 13)

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.



5. Front jointing bracket can now be hooked into place over the two pot magnets. This will latch the two plinths together. (See Fig. 14)



6. Slide hotcupboard onto plinth until rear tongue bracket engages fully into rear of base slot, (See Fig. 15). Ensure the appliance is aligned squarely with the plinth then proceed to engage the front tongue bracket into the slot on the underside 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.

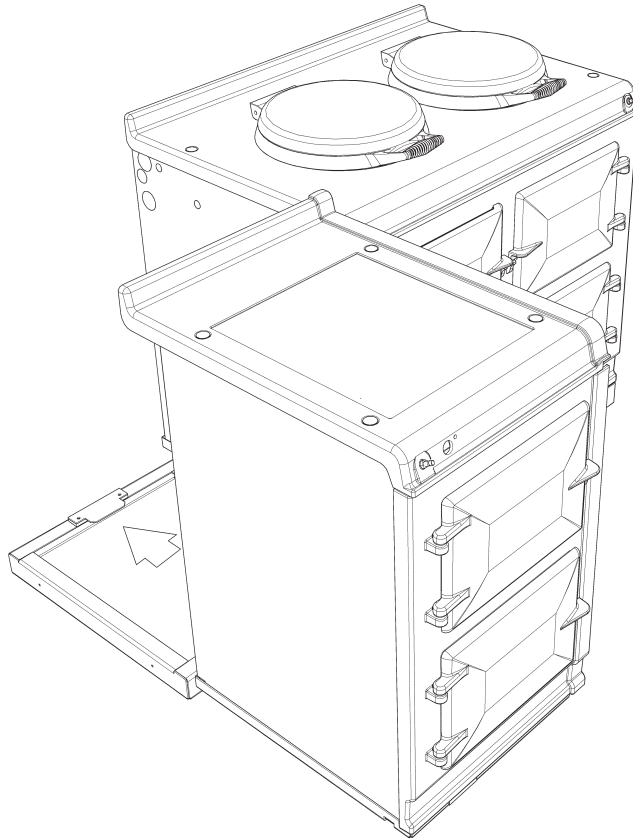


Fig. 15

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. 16 & 17).

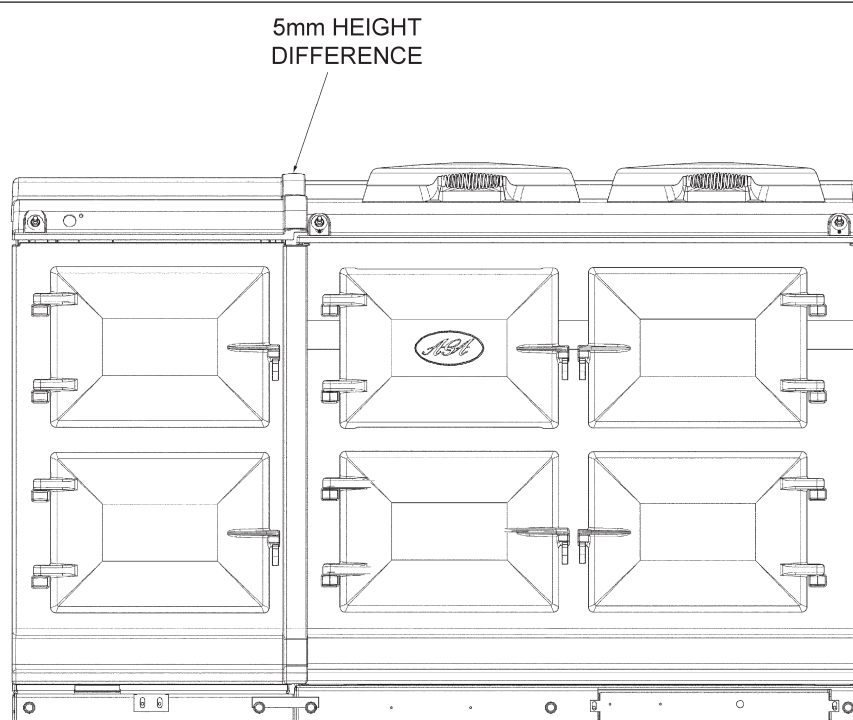
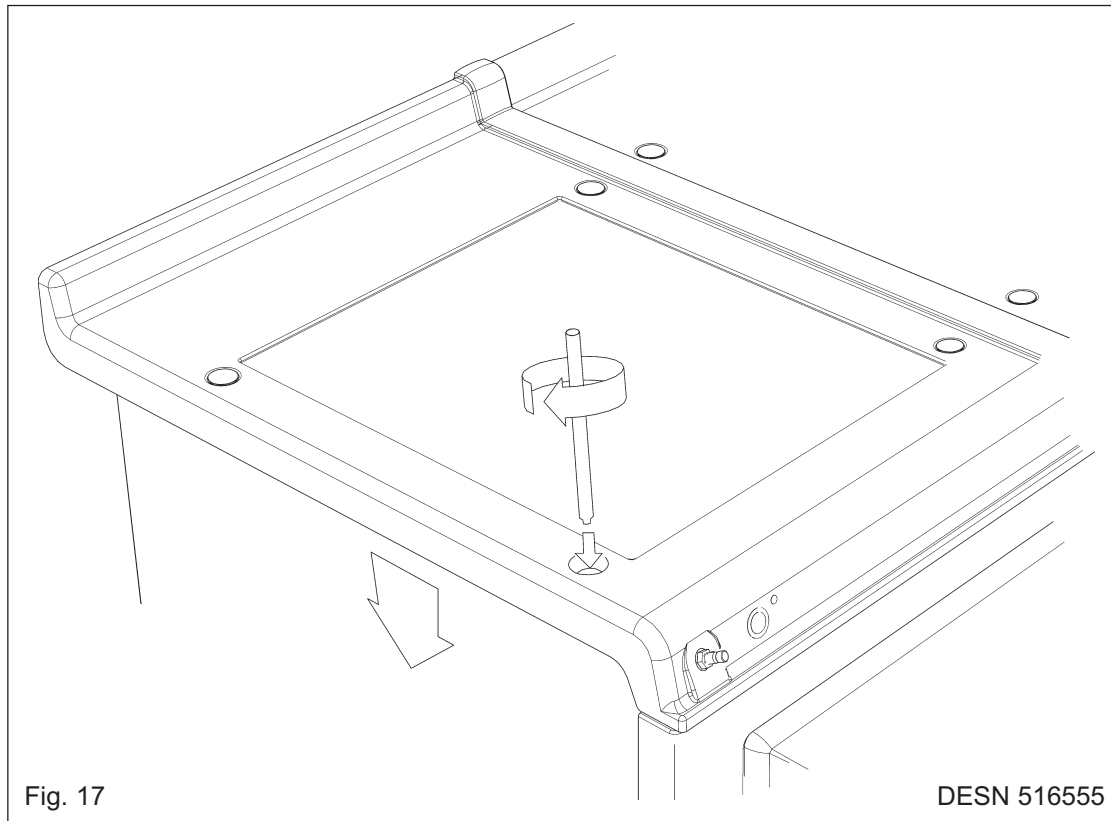


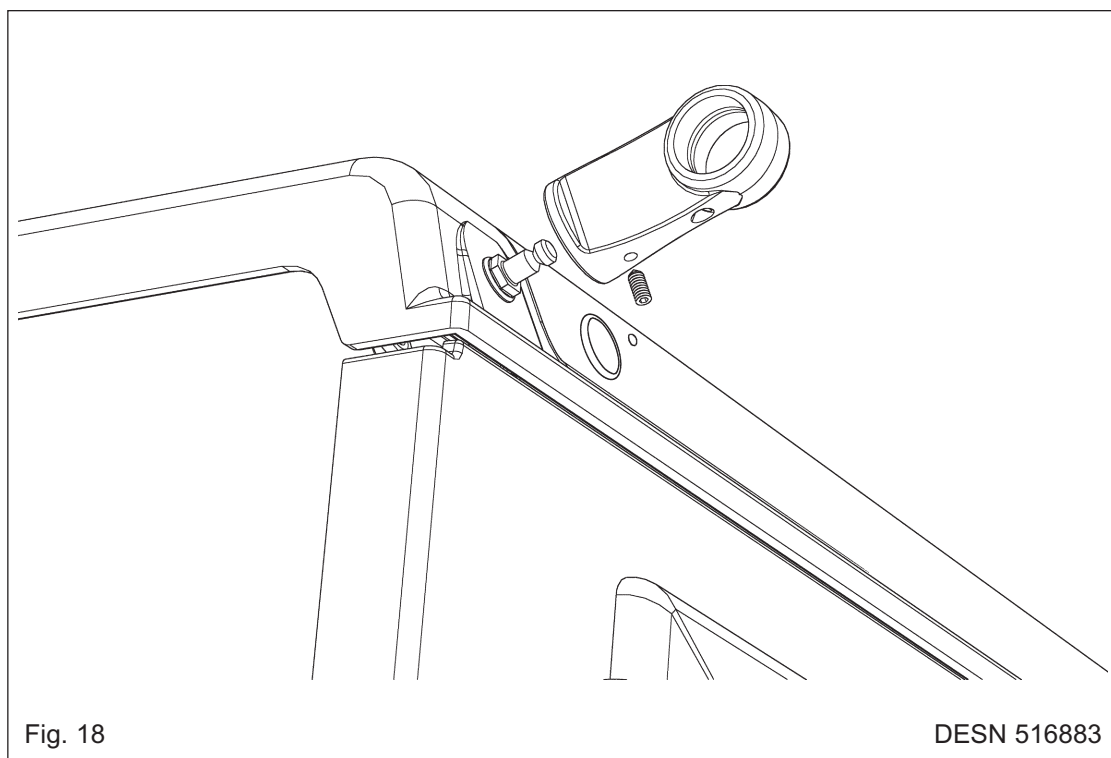
Fig. 16

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. 17).



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. 18).



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

Slide the handrail through the handrail brackets.

AGA DC3 HANDRAIL CONNECTION

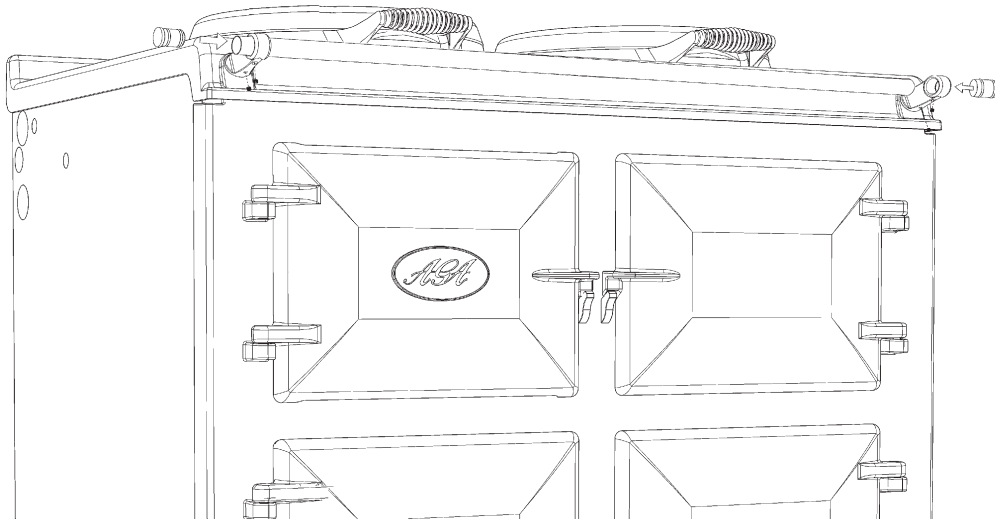


Fig. 19

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. 20).

AGA DC5 HANDRAIL CONNECTION

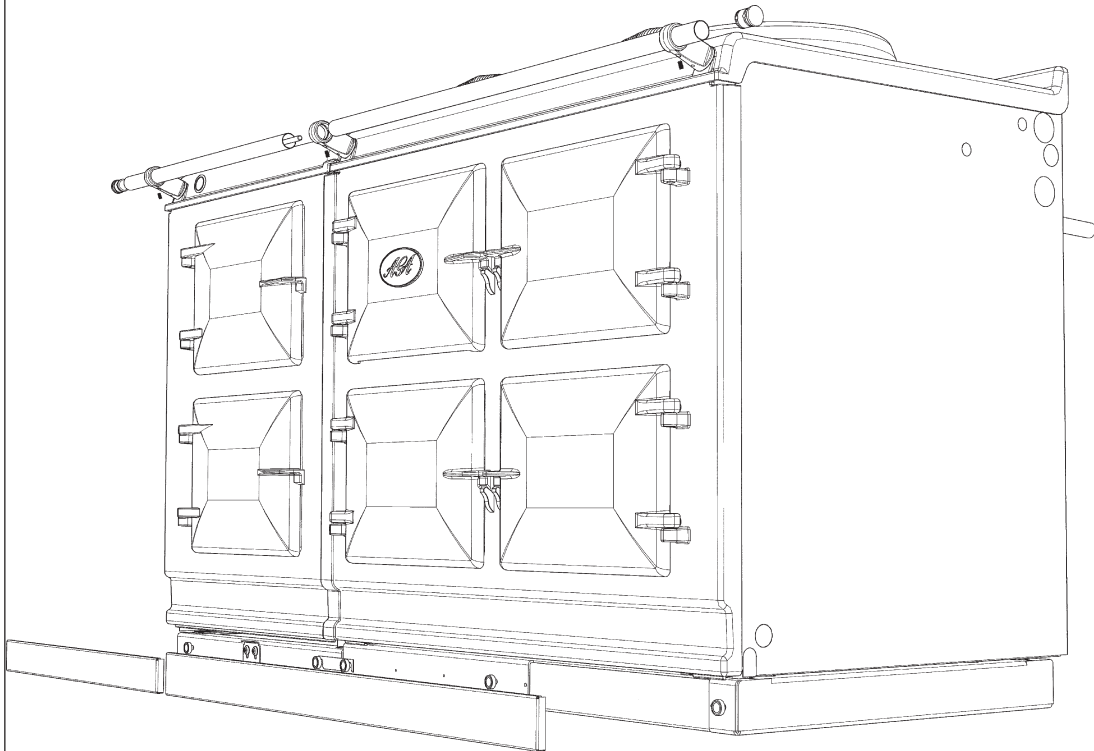


Fig. 20

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 facias are centrally located and do not overhang either appliance. (See Fig. 20)

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 DC3

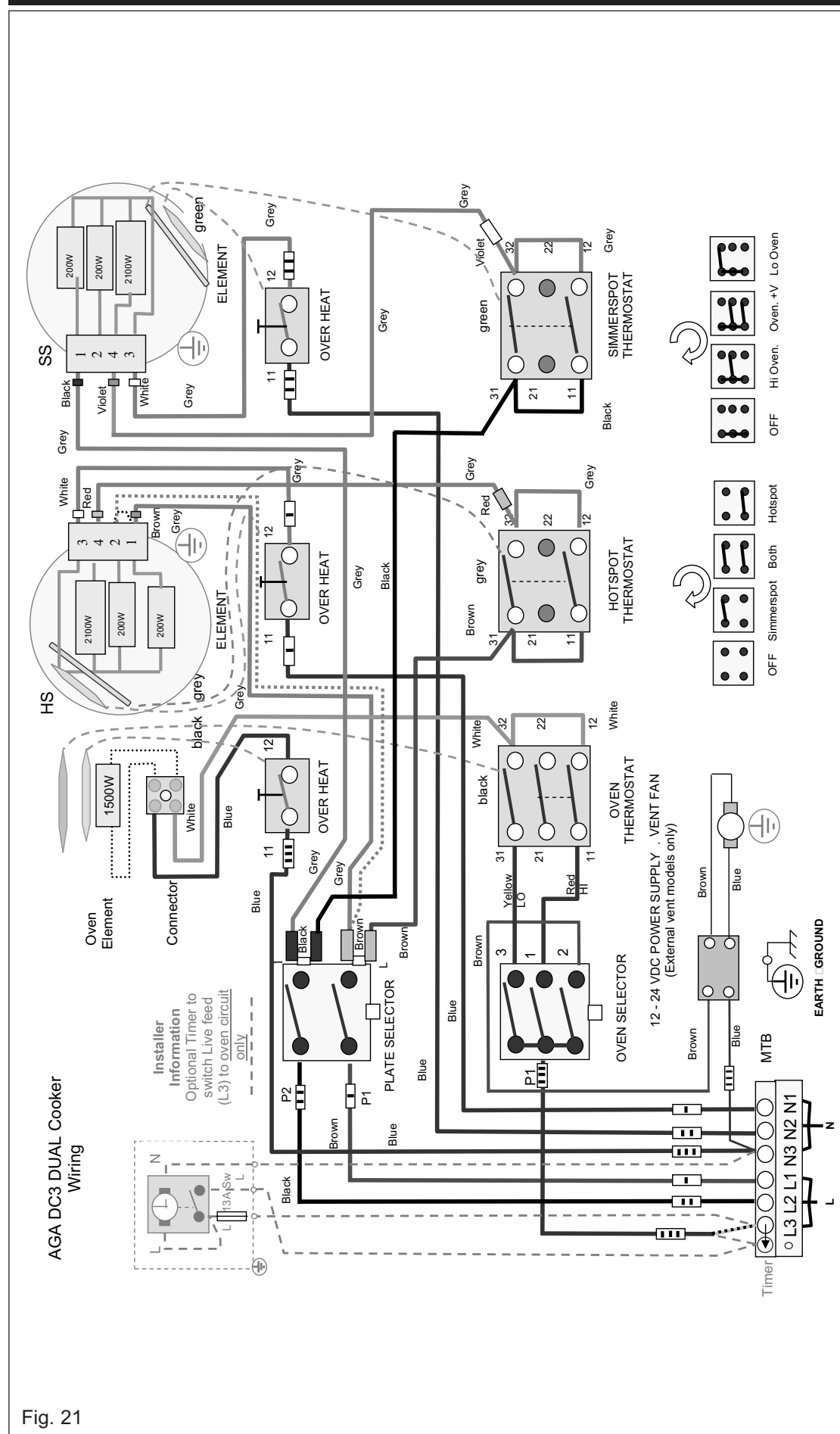
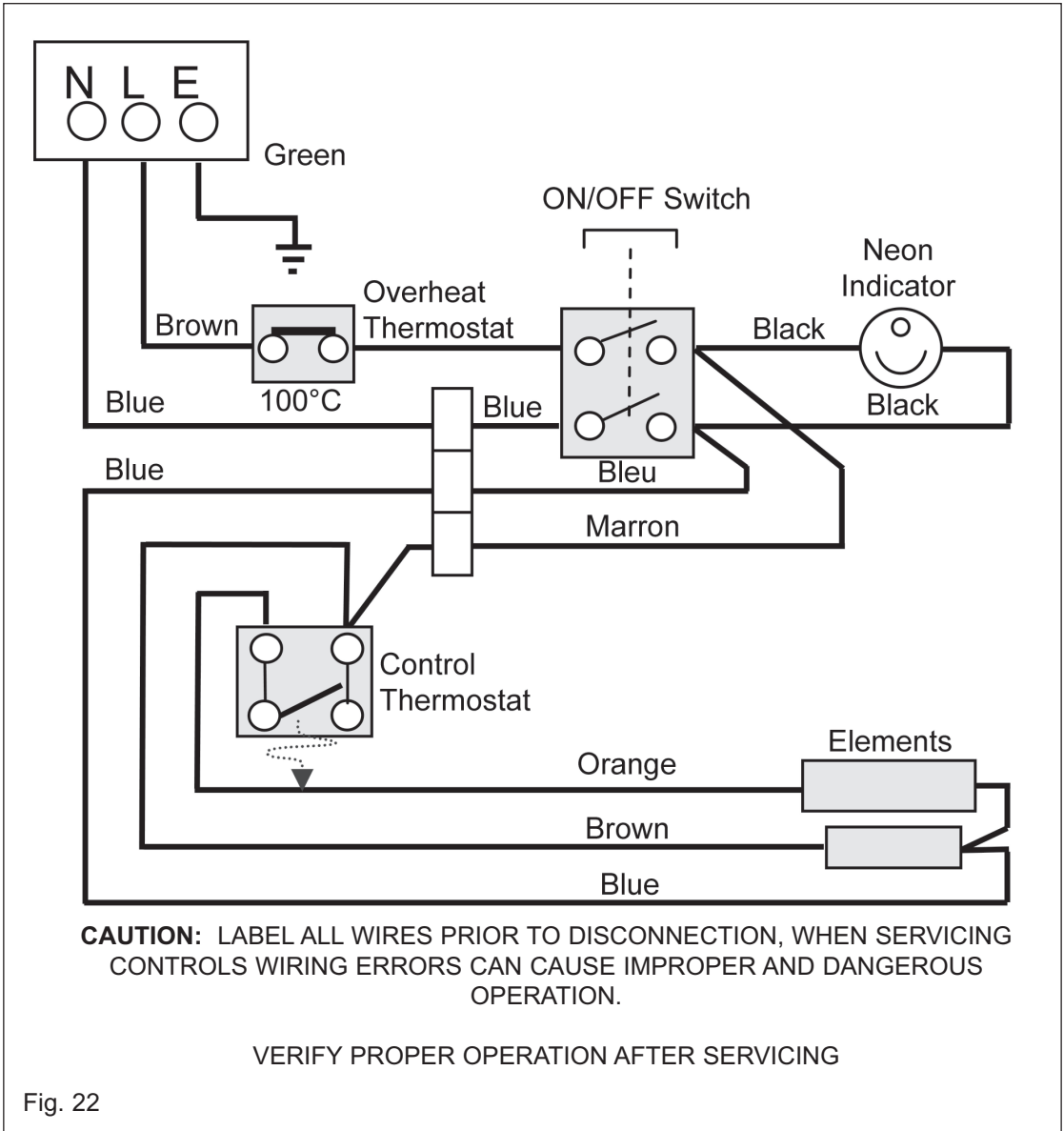


Fig. 21

WIRING DIAGRAM - AGA DC5 (HOTCUPBOARD)



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

VERIFY PROPER OPERATION AFTER SERVICING

VERIFY PROPER OPERATION AFTER SERVICING

Fig. 22

AGA DUAL CONTROL CHECKLIST

<div style="border: 1px solid black; width: 180px; height: 20px; margin-bottom: 5px;"></div> SERIAL No.	
	<u>Tick Box</u>
• Check hotplate lids and settings.	<input type="checkbox"/>
• Check oven door seals, adjust door alignment if necessary.	<input type="checkbox"/>
Baking and Simmering oven rope seals MUST have a gap between the door hinges. The Roasting Oven is fitted with a continuous seal.	<input type="checkbox"/>
Ensure any plastic film is removed from the inside of the oven doors.	<input type="checkbox"/>
• Ensure Baking Oven roof baffle is fitted in the correct position.	<input type="checkbox"/>
• 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.	<input type="checkbox"/>
<div style="display: flex; justify-content: space-around; font-size: small;"> 1PH 3PH 3PH 3PH </div>	
Record voltage <div style="border: 1px solid black; width: 80px; height: 20px; display: inline-block;"></div> L1 <div style="border: 1px solid black; width: 80px; height: 20px; display: inline-block;"></div> L2 <div style="border: 1px solid black; width: 80px; height: 20px; display: inline-block;"></div> L3 <div style="border: 1px solid black; width: 80px; height: 20px; display: inline-block;"></div>	<input type="checkbox"/>
• Measure vent pipe run and calculate fan speed voltage. Ensure vent pipe routing complies with the Installation Instructions.	
Record routing <div style="border: 1px solid black; width: 400px; height: 20px; display: inline-block;"></div>	
Record vent speed voltage <div style="border: 1px solid black; width: 120px; height: 20px; display: inline-block;"></div>	
• Turn on all cooking zones and vent fan. Raise hotplate lids to avoid staining.	<input type="checkbox"/>
• After 1 hour, check hotplate temperatures (approx).	
1. Hotspot (330 - 380°C)	<div style="border: 1px solid black; width: 120px; height: 20px; display: inline-block;"></div>
2. Simmerspot (200 - 250°C)	<div style="border: 1px solid black; width: 120px; height: 20px; display: inline-block;"></div>
• 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.)	<input type="checkbox"/>
<div style="display: flex; justify-content: space-between;"> Engineer's Signature Date </div>	

**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



Manufactured by
AGA Rangemaster
Station Road
Ketley Telford
Shropshire TF1 5AQ
England

www.agaliving.com
www.agacookshop.co.uk