

# **Format Freestanding Dual Fuel Double Oven & Grill**

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**INSTALLATION AND USER INSTRUCTIONS**

**Model: D854**

**You must read these instructions prior to using the  
appliance and retain them for future reference.**



STOVES LIMITED  
STONE LANE, PRESCOT, MERSEYSIDE, L35 2XW

08 25390 00 © 9. 2003  
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In case of difficulty within the UK and Northern Ireland, please call  
BELLING Customer Care Centre Helpline on

**0151 432 7999**

When you dial this number you will hear a recorded message and be given a number of options. This indicates that your call has been accepted and is being held in a queue. Calls are answered in strict rotation as our Customer Care Representatives become available.

**Opening Hours for Customer Care Centre**

Monday to Friday	8am - 8pm
Saturday	8.30am - 6pm
Sunday	10am - 4pm

Enter appliance numbers here for future reference:

Model No	
<input type="text"/>	<input type="text"/>
Serial No	
<input type="text"/>	<input type="text"/>

Please ensure you have the above details (Model No and Serial No) to hand when calling Belling Customer Care. They are essential to booking your call.

Outside the UK and Northern Ireland, refer to your local supplier.

*Please keep this handbook for future reference, or for anyone else who may use the appliance.*

## TECHNICAL DATA

### Data badge

On the bottom of the front frame behind the oven door.

### Type of gas

This cooker must only be used with Natural Gas only, as specified on the appliance data badge.

### Gas category

Natural Gas - I2H

### Pressure setting

G20 Natural Gas @ 20 mbar

### Pressure test point

Use the oven injector

**Aeration** - Fixed

### Electrical supply

220 - 240V ~ 50Hz

*Spark generator:* Mains operated 6 outlet controlled by a single rocker switch at the LHS of the fascia to individual electrodes. 2 outlets shorted to earth.

**Warning:** This cooker must be earthed.

**Hob** - Burners have burner heads and caps which are removable for cleaning. Concealed electrodes to each burner.

### Countries of destination

GB - Great Britain, IE - Ireland

Fuel	Burner / Element	Nominal Rate Qn	Injector Size
Natural Gas	Hob - LHF	1.0kW	77
	Hob - LHR & RHR	2.0kW	104
	Hob - RHF	3.0kW	130
	Total heat input	8.0kW	-
Electric	Oven	2300W	-
	Single grill	1655W	-
	Dual grill	2575W	-
	Stir fan	30W	-
	Cooling fan	10W	-
	Oven light	25W	-
	<b>Maximum load</b>	<b>4940W</b>	

## INTRODUCTION

### Thank you for choosing a British built appliance by Belling.

We hope that the following information will help you to familiarise yourself with the features of the appliance, and to use it successfully and safely.

Our policy is one of constant development & improvement. Strict accuracy of illustrations and specifications is not guaranteed. Modification to design and materials may be necessary subsequent to publication.

This appliance must be installed in accordance with the regulations in force, and only in a well ventilated space. Read the instructions before installing or using this appliance.

Your new appliance is designed to be installed flush to base units.

### Your 1st Year Guarantee

To fulfil the conditions of your guarantee, this appliance must be correctly installed and operated, in accordance with these instructions, and only be used for normal domestic purposes.

Please note that the guarantee, and Service availability, only apply to the UK and Republic of Ireland.

**Before using the appliance** for the first time, remove any protective polythene film and wash the oven shelves in hot soapy water, to remove their protective coating of oil. Even so, when you first turn on the oven or grill you may notice a smell and some smoke.

### Gas & Electrical connection

Please refer to installation instructions for the Gas & Electrical Safety Regulations and the Ventilation Requirements.

In your own interest, and that of safety, it is the law that all gas appliances be installed by competent persons, who will ensure that the installation is in accordance with "The Gas Safety (Installation & Use) Regulations 1994", & the "The Gas Safety (Installation & Use) (Amendment) Regulations 1996". Failure to comply with these Regulations is a criminal offence. Corgi registered installers undertake to work to satisfactory standards.

Disconnection of gas and electric appliances should always be carried out by competent persons.

**Warning:** This appliance must be earthed.

### To replace an oven light bulb

**Caution:** Switch off the electricity supply to the cooker at the socket, to avoid the risk of electric shock.

Wait until the oven is cool, then remove the shelves.

The oven light is at the rear of the oven cavity.

Remove the loose oven back - unscrew the 4 securing screws (one at each corner).

Please note that the oven light bulb is not covered by the guarantee. Replacement bulbs can be ordered from your local supplier, or bought from a hardware store.

## INTRODUCTION

-Unscrew the lens cover (turn anticlockwise). Unscrew the bulb and replace. Replace lens cover.

Replace oven back.

### **Environmental Protection**

Stoves Limited is committed to protecting the environment and operates an Environmental Management System which complies with BS EN ISO 14001:1996.

### **Disposal of packaging**

- All our packaging materials are recyclable and environmentally friendly.
- Please help us to protect our environment by disposing of all packaging in an environmentally friendly manner.
- Please contact your local authority for the nearest recycling centre.

**Caution:** Packaging materials can pose a risk of suffocation - keep away from children.

### **Ventilation**

The use of a gas cooking appliance results in the production of heat and moisture in the room in which it is installed. Ensure that the kitchen is well ventilated: keep natural ventilation holes open or install a mechanical ventilation device (mechanical extractor hood). Prolonged intensive use of the appliance may call for additional ventilation, for example, opening of a

window, or more effective ventilation, for example increasing the level of mechanical ventilation where present.

### **Stability bracket**

If the cooker is to be fitted with a flexible inlet connection, a stability bracket should also be fitted to engage in the back of the cooker. Make sure this is re-engaged whenever you move the cooker for cleaning.

### **If the ignition fails:**

- Check there is a spark when the ignition button is depressed. If there is no spark, check that the electricity supply is switched on at the cooker control box.
- Check that the gas supply is switched on.

### **Moving the cooker**

Do not attempt to move the cooker by pulling on the doors or handles. Open the door and grasp the frame of the cooker, taking care that the door does not shut on your fingers.

Take care to avoid damage to soft or uneven floor coverings when moving the appliance. Some cushioned vinyl floor coverings may not be designed to withstand sliding appliances without marking or damage.

## INSTALLATION INSTRUCTIONS

### **Connect to the gas supply**

The inlet to the cooker is ½" BSP internal situated at the rear right corner.

Fit the bayonet connection. This should be located so as to ensure that the flexible connector hose does not kink.

Use a 900-1125mm length of flexible connector.

Ensure that all pipe work is of the correct rating for both size and temperature.

Flexible connections should comply with BS 669. Parts of the appliance likely to come into contact with a flexible connector have a temperature rise of less than 70°C.

**After installation, make sure all connections are gas sound.**

### **Commissioning**

#### **Burner aeration**

All burners have fixed aeration and no adjustment is possible.

#### **Pressure setting**

G20 Natural Gas @ 20 mbar

#### **Pressure test point**

Use the oven injector

**Hob** - Turn the control knob to the FULL ON position, wait a second before pressing the ignition switch or holding a lighted match or taper to the burner.

#### **Before leaving the installation**

1. Place all the loose parts of the cooker into position.
2. Show the customer how to operate the cooker and give them this handbook. Thank you.

# INSTALLATION INSTRUCTIONS

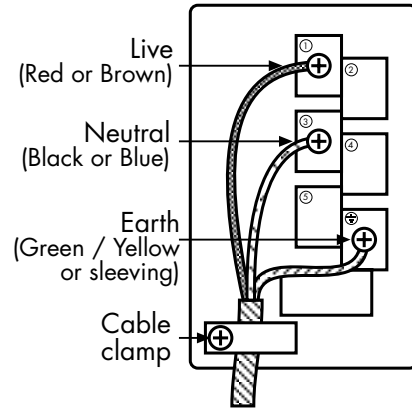
## Connect to the electricity supply

**Warning:** This appliance must be earthed.

The appliance must be installed by a competent electrician using a double pole control unit of 30 ampere minimum capacity with 3mm minimum contact separation at all poles.

We recommend that the appliance is connected by a qualified electrician who is a member of the N.I.C.E.I.C. and who will comply with the I.E.E. and local regulation.

1. Access to the mains terminal is gained by opening the terminal block cover at the rear of the appliance (use a small flat-bladed screwdriver).
2. Connection should be made with 6mm<sup>2</sup> twin and earth cable.
3. First strip the wires, then push the cable through the cable clamp in the terminal block cover.
4. Connect the cable to the terminal block and tighten the cable clamp screw (see diagram).
5. Close the terminal box, ensuring that the cover is engaged on the locking tabs.



# BE SAFE - NOT SORRY

## **When you are cooking, keep children away from the vicinity of the appliance.**

This product is designed as a domestic cooking appliance for the preparation and cooking of domestic food products, and should not be used for any other purpose.

- Remove all packaging, protective films and oils from the appliance before using for the first time.
- Make sure you read and understand the instructions before using the appliance.
- Keep electrical leads short so they do not drape over the appliance or the edge of the worktop.
- Keep all flammable materials (such as curtains, furnishings & clothing) away from the appliance.
- Parts of the appliance may be hot during or immediately after use. Care should be taken to avoid touching heating elements inside the oven. Allow sufficient time for the appliance to cool after switching off.
- Never use the appliance for heating a room.
- Do not drape tea towels over the flue vents or doors, as this creates a fire hazard.
- When opening the appliance door, take care to avoid skin contact with any steam which may escape from the cooking.

- Do not use aluminium foil to cover the grill pan, or put items wrapped in foil under the grill as this creates a fire hazard. The high reflectivity can also damage the element.
- Do not use the oven with the door inner glass panel removed (glass oven doors only).
- Use oven gloves when removing hot food / dishes from the oven or grill. The oven / grill and utensils will be very hot when in use.
- Do not use foil on oven shelves, or allow it to block the oven flue, as this creates a fire hazard, and prevents heat circulation.
- When cooking heavy items - eg; turkeys - do not pull the oven shelf out with the item still on the shelf.
- Switch off the electricity supply before replacing the oven light bulb, to avoid the risk of electric shock.

**Warning:** This appliance must be earthed.

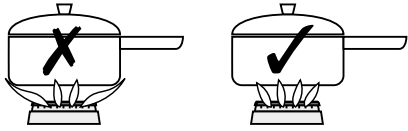
**When you have finished cooking check that all controls are in the off position.**

## USING THE HOB

### Ignition

Push in and turn the selected control knob anticlockwise to the 'full on' position and press the ignition switch (if fitted), or hold a lighted match or taper to the burner, until the burner lights. Turn the control knob to the required setting.

Adjust the burner flame so that it does not extend over the pan base.



To turn off, push in the control knob and turn clockwise until the dot on the control knob is below the dot on the fascia panel.

### To simmer

The simmer position is marked by the *small flame* symbol.

Once lit turn the selected control knob anticlockwise past the *large flame* symbol (FULL ON) to the *small flame* symbol.

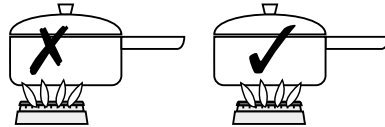
You may hear a slight popping noise when the hob burners are operating and this is quite normal, but if anything about the cooker appears unusual, such as change in flame appearance, or the operation of controls - seek expert advice.

### Pans

For optimum safety and performance, we recommend the use of flat bottomed pans with a base diameter of minimum 100mm (4") and maximum 250mm (10").

Do not use traditional style double pans (excluding steamer pans), rim based pans, old misshapen pans or any pan which is unstable when placed on a flat surface.

Position pans over the centre of the burners, resting on the pan supports. If positioned off centre, smaller pans may be unstable.



When cooking with fat or oil, never leave unattended.

Turn pan handles to a safe position, so they are out of reach of children, not overhanging the appliance, and cannot be caught accidentally.

Commercial simmering aids should not be used as they create excessive temperatures that can damage the surface and may cause a hazard.

### Pan supports

Always make sure the pan supports are replaced correctly, and located in the hob spillage well.

## INSTALLATION INSTRUCTIONS

### Stability bracket

If the cooker is fitted with a flexible connection, a stability bracket should be fitted to engage in the back of the cooker. A stability bracket can be bought from your local supplier.

A stability bracket can be fitted as follows:

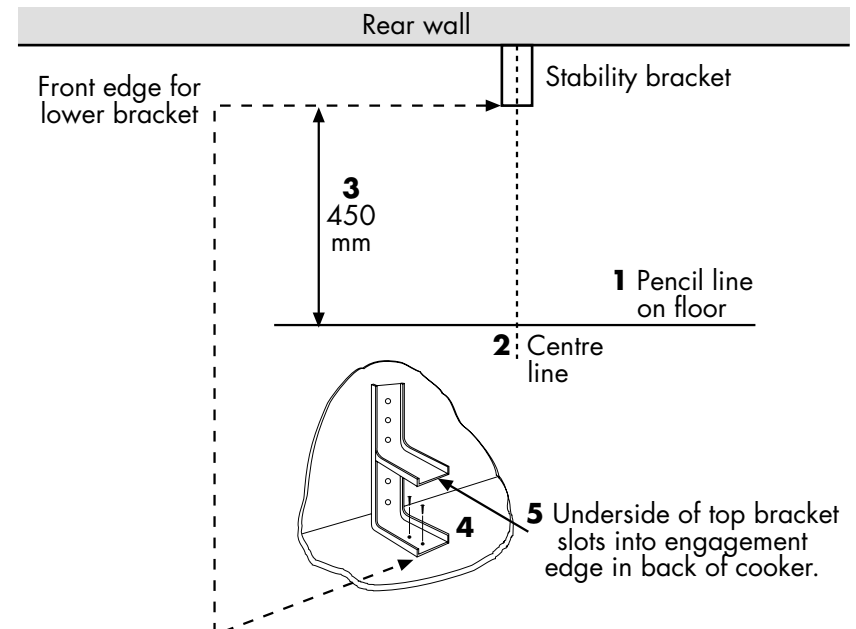
1. Place the cooker in position and draw a PENCIL LINE level with the front edge.
2. Mark the centre of the cooker to give the CENTRE LINE for the bracket.
3. Remove the cooker and mark off 450mm from the PENCIL LINE to locate the front edge of the lower bracket.

4. Fix the bracket to the floor.  
Measure from FLOOR LEVEL to ENGAGEMENT EDGE in the back of the cooker and add 3mm.
5. Assemble the underside of the top part of the bracket to this height.

### Levelling

Place a spirit level on a baking sheet onto an oven shelf.

The cooker is fitted with levelling feet at the front and rear.



## INSTALLATION INSTRUCTIONS

Whilst every care is taken to eliminate burrs and raw edges from this product, please take care when handling - we recommend the use of protective gloves during installation.

### Moving the cooker

Please note that the weight of this appliance is approximately **60kg** (unpacked).

Take care if the appliance needs to be lifted during installation - always use an appropriate method of lifting.

Do not attempt to move the cooker by pulling on the doors or handles. Open the door and grasp the frame of the cooker, taking care that the door does not shut on your fingers.

Take care to avoid damage to soft or uneven floor coverings when moving the appliance. Some cushioned vinyl floor coverings may not be designed to withstand sliding appliances without marking or damage.

### Clearances & dimensions

#### Appliance dimensions

All sizes are nominal, and some variation is to be expected. The 'depth' of the cooker, as given below, is to the front of the door and excluding knobs and handles.

depth: 600mm

width: 600mm

height (adjustable): 900 - 915mm

height with lid raised: 1430 - 1445mm

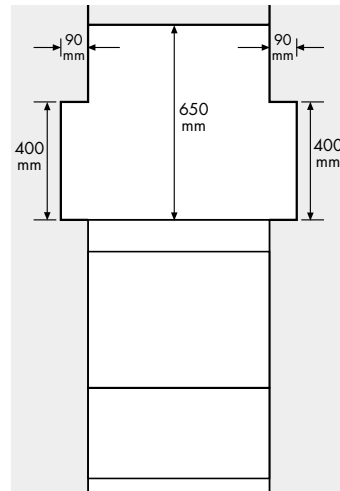
### Clearances

No shelf or overhang or cooker hood should be closer than a minimum of 650mm, but check with cooker hood manufacturer's recommendations.

The cooker must have a side clearance above hob level of 90mm up to a height of 400mm.

Check that there are no projections in the rear wall which will prevent the lid (where fitted) being raised to the vertical position.

This cooker may be fitted flush to base units. However, for models with side opening doors, we recommend a side clearance of 60mm between the cooker and any side wall.



This is a type X appliance regarding installation requirements.

**Important:** Ensure that you route all mains cables well clear of any adjacent heat source.

## USING THE HOB

### To save gas

- Use the size of pan most suited to the size of the burner - ie; larger pans on the larger burners, smaller pans on the smaller burners.
- Adjust the flames so that they do not lick up the sides of the pan.
- Put lids on saucepans and only heat the amount of liquid you need.
- When liquids boil, reduce the control setting to maintain a simmer.
- Consider the use of a pressure cooker for the cooking of a complete meal.
- Potatoes and vegetables will cook quicker if chopped into smaller pieces.

### The fold down lid

**Caution:** Glass lids may shatter when heated. Turn off all the burners before shutting the lid.

When opening and closing the lid, use the cooler outer sides of the lid trim.

The lid must be opened fully, so there is no danger of it closing while the hob is being used.

The appliance is fitted with a switch-back system, which will automatically turn off the hotplate controls if they are inadvertently left on as the lid is closed.

The lid is not intended to be used as a work surface, as it becomes hot when any part of the cooker is in use, and the surface may be scratched if items with rough or sharp surfaces are placed on it.

## Using the Grill

**Caution: Accessible parts may be hot when grill is used, young children should be kept away.**

### To switch on the grill

Open the top oven / grill door.

Turn the top oven control knob anti-clockwise to the single grill symbol, or the dual grill symbol.

The dual grill uses all of the top element, and the single economy grill setting uses the inner part of the element only.

**Important:** The door must be kept open when the grill is used.

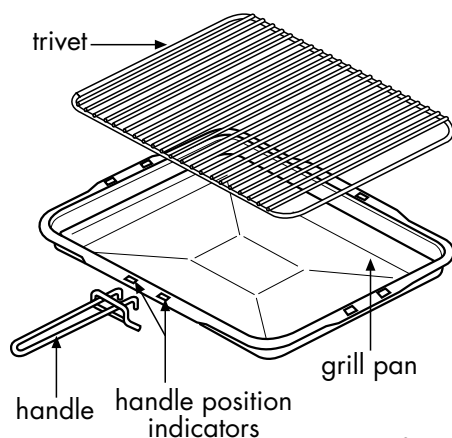
Note that the grill will not operate if the top oven is switched on.

### Preheating

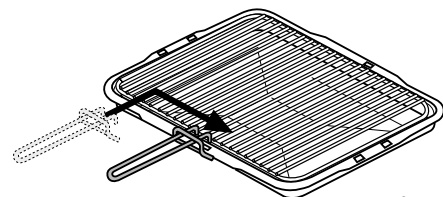
Always preheat the grill for about 3 minutes for best cooked results.

### The cooling fan

When the grill is switched on, you will hear the cooling fan come on - this keeps the fascia and control knobs of the appliance cool during grilling only. The fan will continue to operate for a period after the grill control has been switched off.



Place the handle over the edge of the grill pan, at the narrow side edges. Slide the handle to the centre, and locate between the handle position indicators.



The handle should be removed from the pan during grilling, to prevent overheating.

The handle is designed for removing / inserting the grill pan under the grill when grilling.

If cleaning the grill pan when it is hot, use oven gloves to move it. Do not use the handle to pour hot fats from the grill pan.

Food for grilling should be positioned centrally on the trivet.

### Detachable grill pan handle

## INSTALLATION INSTRUCTIONS

*Before you start:* Please read the instructions. Planning your installation will save you time and effort.

Prior to installation, ensure that the local distribution conditions (nature of the gas and gas pressure) and the adjustment of the appliance are compatible. The adjustment conditions are stated on the data badge.

This appliance is not connected to a combustion evacuation device. It shall be installed and connected in accordance with current installation regulation. Particular attention shall be given to the relevant requirements regarding ventilation.

In your own interest and that of safety, it is the law that all gas appliances be installed and serviced by competent persons. CORGI registered installers undertake to work to satisfactory standards.

Where regulations or standards have been revised since this handbook was printed, always use the latest edition.

### In the UK the regulations and standards are as follows:

1. Gas Safety Regulations 1996 (Installation and Use).
2. Building Regulations - Issued by the Department of the Environment.
3. Building Standards (Scotland) (Consolidated) - Issued by the Scottish Development Department.
4. The current I.E.E. Wiring Regulations.
5. Electricity at Work Regulations 1989.
6. BS 6172 Installation of Domestic Gas cooking Appliances
7. Installation & Servicing Instructions for this appliance.

For installation in countries other than the UK, the appliance must be connected in accordance with all local gas and electrical regulations.

### Ventilation Requirements

The room containing the appliance should have an air supply in accordance with BS 5440: Part 2: 1989:

- All rooms require an openable window, or equivalent, and some rooms will require a permanent vent as well.
- For room volumes up to 5m<sup>3</sup> an air vent of 100cm<sup>2</sup> is required.
- If the room has a door that opens directly to the outside, or the room exceeds 10m<sup>3</sup>, NO AIR VENT is required.
- For room volumes between 5m<sup>3</sup> and 10m<sup>3</sup> an air vent of 50cm<sup>2</sup> is required.
- If there are other fuel burning appliances in the same room, BS 5440: Part 2: 1989 should be consulted to determine the air vent requirements.
- This appliance must not be installed in a bed sitting room of less than 20m<sup>3</sup> or in a bathroom or shower room.

Windows and permanent vents should therefore not be blocked or removed without first consulting a CORGI gas installer.

**Failure to install appliances correctly is dangerous and could lead to prosecution.**



## CLEANING

### Easy care surfaces

#### MAIN OVEN SIDES AND BACK

If you do a lot of open roasting, or roast at temperatures above 200°C, we recommend regular cleaning to help prevent a build up of fats. Use of a trivet in a roasting tin when roasting will help reduce fat splashing.

**Caution:** Most types of cleaning agent will damage these surfaces.

Only use a few drops of washing up liquid in hot water. Wipe the surfaces with a clean cloth wrung out in hot soapy water - if larger splashes of fat do not readily disappear, scrub the area with a nylon brush or nylon pan scourer and hot soapy water. Rinse well and heat the oven to dry the surfaces.

### Painted, plastic and metal finish parts

#### OVEN DOOR FRAME & HANDLE, GRILL PAN HANDLE, FACIA PANEL & CONTROL KNOBS

Only use a clean cloth wrung out in hot soapy water.

### Glass parts (if fitted)

#### GLASS DOOR PANELS, LID GLASS

Do not use abrasives or polishes as they will scratch and damage the glass. Use a mild cream cleaner - eg; "Cif". Rinse away excess cleaner and dry with a soft cloth.

**Warning:** Do not operate the appliance without the glass panel correctly fitted.

**Important:** the inner door glass panel can be removed for cleaning but it must be replaced the right way up (so the reflective side - if fitted - faces inwards), and pushed fully in to the **stop** position. To remove the glass panel, open the door wide, hold the top and bottom edges and slide out.

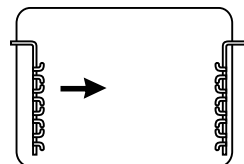
### Chrome plated parts

#### OVEN SHELVES & OVEN SHELF RUNNERS, GRILL PAN TRIVET

Do not use abrasives or polishes, use a moist soap pad - eg; "Brillo".

**Note:** Oven shelf runners can be removed for cleaning. Grasp the runners, and slide out of the hanging holes as shown.

**Note:** These items may also be cleaned in a dishwasher.



## Using the Grill

### Grilling

The grill has two fixed heat settings.

For grilling smaller quantities of food, the (single element) economy grill can be utilised. For grilling larger quantities of food, the (dual element) full grill can be utilised.

The speed of grilling can be controlled by selecting a higher or lower shelf position.

For toasting, and for cooking foods such as bacon, sausages or steaks, use a higher shelf position.

For thicker foods such as chops or chicken joint pieces, use a middle to low shelf position.

Grilling may also be adjusted by changing the grill pan trivet position, as detailed below.

There are three different grilling positions, as the grill trivet - which is in the grill pan - may be inverted to give a high or low position or the trivet may be removed.

1. The HIGH trivet position is suitable for toasting bread.
2. The LOW trivet position is suitable for grilling all types of meat and fish.
3. With the grill trivet removed the food is placed directly on the base of the grill pan - eg; when cooking whole fish or browning dishes such as cauliflower cheese.

### Aluminium foil

Using aluminium foil to cover the grill pan, or putting items wrapped in foil under the grill creates a fire hazard, and the high reflectivity may damage the grill element.

## USING THE TOP OVEN

**Accessible parts may be hot when the oven is used. Young children should be kept away.**

### To turn on the top oven

Turn the top oven / grill control knob anti-clockwise to the required temperature setting.

The red thermostat indicator (if fitted) will come on until the selected temperature is reached and then go off; it will turn on and off periodically as the thermostat operates to maintain the selected temperature.

To switch off, return the control knob to the "off" position.

### Notes:

As part of the cooking process, hot air is expelled through a vent at the top of the oven(s). When opening the oven door, care should be taken to avoid any possible contact with potentially hot air, since this may cause discomfort to people with sensitive skin. We recommend that you hold the underneath of the oven door handle.

**Important:** Never put items directly on the base of the oven with foil, as this may cause the element to overheat. Always position items on the shelf.

**Caution:** The top element gets extremely hot when in use, so take extra care to avoid touching it.

### Preheating

The oven must be preheated when cooking frozen or chilled foods, and we recommend preheating for yeast mixtures, batters, soufflés and whisked sponges.

Preheat the oven until the indicator light switches off for the first time - this will take up to 20 minutes depending on the temperature selected.

If you are not preheating the oven, the cooking times in the baking guide may need to be extended, as they are based on a preheated oven.

### The cooling fan

When the top oven or grill is switched on, you will hear the cooling fan come on - this keeps the fascia and control knobs of the appliance cool during cooking or grilling only.

The fan will continue to operate for a period after the oven control has been switched off.

Should any fault occur with the cooling fan, the appliance will need to be serviced - contact Customer Care.

## CLEANING

**Caution: Any cleaning agent used incorrectly may damage the appliance.**

**Always let the cooker cool before cleaning.**

Some cooking operations generate considerable amount of grease, this combined with spillage can become a hazard if allowed to accumulate on the cooker through lack of cleaning. In extreme cases this may amount to misuse of the appliance and could invalidate your guarantee.

It is recommended that the appliance is cleaned after open roasting.

Do not use caustic pastes, abrasive cleaning powders, coarse wire wool or any hard implements, as they will damage the surfaces.

All parts of the appliance can be safely cleaned with a cloth wrung out in hot soapy water.

### Vitreous Enamel parts

GRILL PAN, HOB TOP & PAN SUPPORTS, MAIN OVEN COMPARTMENT FLOOR, TOP OVEN / GRILL COMPARTMENT

Use a mild cream cleaner - eg; "Cif".

Stubborn marks may be removed with a moistened "Brillo" pad.

The pan supports and grill pan may be cleaned in a dishwasher, or with a nylon brush in hot soapy water.

### Burner caps and heads

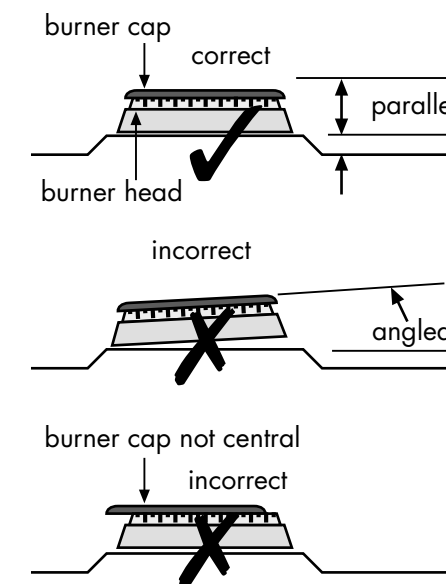
**Important:** Allow burners to cool before cleaning.

**Caution:** Hotplate burners can be damaged by soaking, automatic dishwashers (or dishwasher powders / liquids), caustic pastes, hard implements, coarse wire wool, and abrasive cleaning pastes.

Clean with a moist soapy pad - eg; "Brillo".

For the burners to work safely, the slots in the burner head where the flames burn need to be kept clear of deposit. Clean with a nylon brush, rinse, and dry thoroughly.

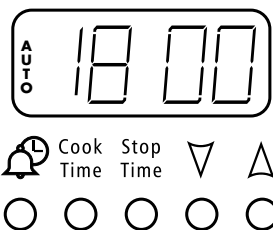
**Important:** The burner caps and heads must be repositioned correctly so that they sit squarely onto the hob as shown.



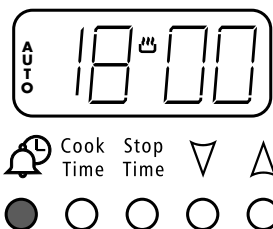
## PROGRAMMER / CLOCK

The oven will automatically switch off at 18.00 hours (6.00 pm) and the alarm will sound (9).

9. A (Auto) symbol will flash.



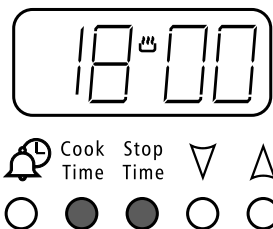
10.



To switch off the alarm press the *minute minder* button (10).

When the oven has switched off, return the oven control knob to the "off" position, and press the *cook time* and *ready time* buttons simultaneously (11).

11. A (Auto) symbol goes out.



If you wish to cancel the automatic setting before cooking has started, and return to manual operation, press the *cook time* and *ready time* buttons simultaneously (11).

To cancel any remaining cooking time left on the clock before the alarm sounds, press the *cook time* and *ready time* buttons simultaneously (11).

## USING THE TOP OVEN

### Top oven baking guide

#### Cooking times

These times are based on cooking in a preheated oven.

These cooking times are approximate, because the size and type of cooking dish will influence time as will personal preferences.

#### Shelf positions

As a general guide, when cooking frozen or chilled food, use the highest possible shelf position, while allowing some clearance between the food and the top element. Follow the instructions given on packaging.

### Cooking temperatures

The temperature settings and times given in the Baking Guides are based on dishes made with block margarine. If soft tub margarine is used, it may be necessary to reduce the temperature setting. If a recipe gives a different temperature setting to that shown in the guide, the recipe instruction should be followed.

Because the top oven is more compact, it may be necessary to reduce cooking temperatures specified in recipes by up to 20°C.

Use the baking guide as a reference for determining which temperatures to use.

Item	Temperature °C	Shelf position	Approximate cooking time
Small cakes	180	2	15 - 20 mins
Victoria sandwich (2 x 180mm / 7")	160	2	20 - 25 mins
Swiss roll	200	2	8 - 12 mins
Semi rich fruit cake (180mm x 7")	140	1	2¼ - 2¾ hours
Scones	215	2	10 - 15 mins
Meringues	90 - 100	1	2 - 3 hours
Shortcrust pastry	200 - 210	2	Depends on size & type of cooking dish & also the filling
Puff / flaky pastry	200 - 210	2	
Choux pastry	200 - 210	2	
Biscuits	160 - 200	3	10 - 20 mins
Sponge pudding	150	2	30 - 45 mins
Milk pudding	140	1	2 - 2½ hours

## MAIN OVEN CONVERSION GUIDE

Note: this is a high efficiency oven, therefore some adjustment will have to be made to **conventional** cooking temperatures. The table below shows conventional cooking temperatures, 'A' efficiency temperatures and gas marks. For optimum results, conventional temperatures need to be converted to 'A' efficiency temperatures.

For example, an item which would normally cook at a conventional temperature of 180 °C, will now cook at the 'A' efficiency temperature of 160°C.

Conventional temperature (°C)	'A' Efficiency Oven (°C)	Gas Mark
100	100	1/4
110	110	1/4
130	120	1/2
140	130	1
150	140	2
160	150	3
180-190	160	4-5
200	170	6
220	180	7
230	190	8
250	200	9

## PROGRAMMER / CLOCK

### Fully automatic cooking (example)

For use when a delayed start time is required.

You want to set the length of cooking time, and the time for the oven to switch off. The programmer will automatically calculate the cooking start time.

Press the *cook time* button, then use the *plus* and *minus* buttons to set the display to show the length of cooking time required, eg; 2 hours as shown (5).

Press the *ready time* button, and the present ready time will be displayed. Using the *plus* and *minus* buttons you can set the display to show the actual time you want the oven to switch off, eg; 18.00 hours (6.00 pm) (6).

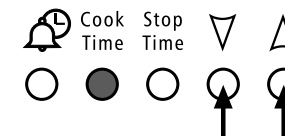
The display will revert to show time of day.

**After setting the programmer, turn the oven control to the required temperature.**

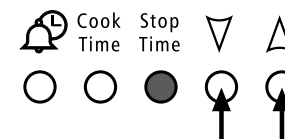
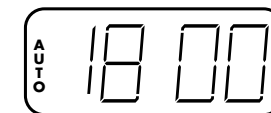
The oven will automatically switch on at the calculated start time of 16.00 hours (4.00 pm) (7).

A single press of the *cook time* button shows the cooking time remaining before the oven automatically switches off (8).

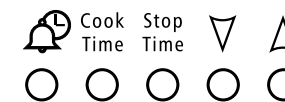
5. A (Auto) symbol appears.



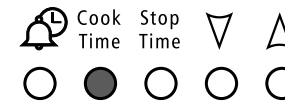
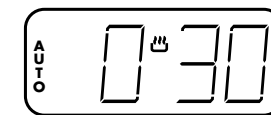
6. The cookpot symbol will disappear from display.



7. The cookpot symbol will appear on display.



8.



## PROGRAMMER / CLOCK

### Semi-automatic cooking (example)

You have started cooking a meal or dish in the oven, and want to set the time for the oven to switch off.

Press the *cook time* button, then use the *plus* and *minus* buttons to set the display to show the length of cooking time required, eg; 2 hours as shown **(1)**.

After setting, the display will revert to show the time of day, but you can press the *cook time* button and the display will show how much cooking time still remains on the clock.

Press the *ready time* button, and the display will show the actual time the oven is going to switch off, eg; 18.00 as shown **(2)**.

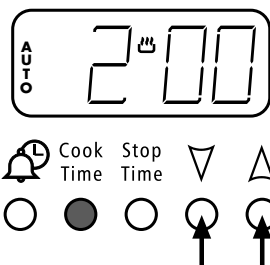
At the end of the cooking time, the alarm will sound, and the oven will automatically switch off.

To switch off the alarm, press the *minute minder* button **(3)**.

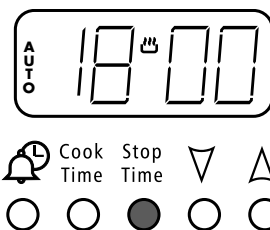
When the oven has switched off, **return the oven control knob to the "off" position**, and press the *cook time* and *ready time* buttons to return to manual operation **(4)**.

If you wish to cancel the automatic setting, or to cancel any remaining cooking time left on the clock before the alarm sounds, press the *cook time* and *ready time* buttons simultaneously. **(4)**.

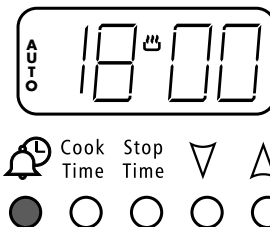
1. A (Auto) symbol appears.



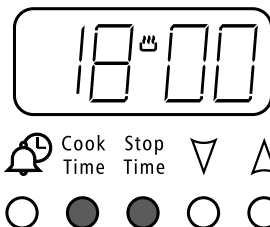
2.



3. A (Auto) symbol will flash.



4. A (Auto) symbol goes out.



## USING THE MAIN OVEN

**Caution: Accessible parts may be hot when the appliance is in use - keep children away from the vicinity of the oven.**

### To switch on the oven

Turn the oven control knob anti-clockwise to the required setting.

The red thermostat indicator (if fitted) will come on until the selected temperature is reached and then go off; it will turn on and off periodically as the thermostat operates to maintain the selected temperature.

To switch off, return the control knob to the "off" position.

### Manual operation

Set the programmer to manual operation. See 'Programmer / Clock' section.

Turn the selector control knob until the symbol for the desired oven function is showing in the window.

Turn the main oven control knob to the desired temperature.

The red thermostat indicator neon will come on and off until the selected temperature is reached and then go off; it will turn on and off periodically as the thermostat operates to maintain the selected temperature.

To switch off the main oven, return the main oven control knob to the "off" position.

### Automatic operation

See 'Programmer / Clock' section.

### Preheating

When cooking sensitive items such as scouffle's and Yorkshire puddings or, when cooking bread, we recommend that the oven is pre-heated until the neon switches off for the first time. For any other types of cooking, a pre-heat is not required.

### Notes:

As part of the cooking process, hot air is expelled through a vent at the rear of the oven(s). When opening the oven door, care should be taken to avoid any possible contact with potentially hot air, since this may cause discomfort to people with sensitive skin. We recommend that you hold the underneath of the oven door handle.

## USING THE MAIN OVEN

**As this is a high efficiency oven, you may notice the emission of steam from the oven when the door is opened. Please take care when opening the door**

### Cooking with a fanned oven

If you are used to cooking with a conventional oven you will find a number of differences to cooking with a fan oven which will require a different approach:

There are no zones of heat in a fan oven as the convection fan at the back of the oven ensures an *even temperature* throughout the oven. This makes it ideal for batch baking - eg; when planning a party or stocking the freezer - as all the items will be cooked within the same length of time.

Foods are cooked at a *lower temperature* than a conventional oven, so conventional recipe temperature may have to be reduced. Please refer to the conversion guide.

Preheating is generally not necessary as a fan oven warms up quickly.

There is no flavour transference in a fan oven, which means you can cook strong smelling foods such as fish at the same time as mild foods - eg; milk puddings.

When batch baking foods that will rise during cooking - eg; bread - always ensure that enough space has been left between the shelves to allow for the rise.

### **To help the air circulate freely**

Position the shelves evenly within the oven and maintain a clearance from the oven roof and base.




If more than one cooking dish or baking tray is to be used on a shelf, leave a gap of at least 25mm between the items themselves and the oven interior.

Allow enough space between shelves for food that will rise during cooking.

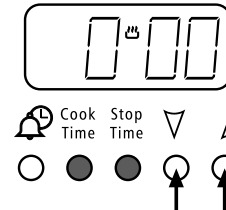
Do not place items on the oven base as this will prevent air circulating freely.

## PROGRAMMER / CLOCK

### The Programmer Buttons

-  Minute minder
-  Minus
-  Plus

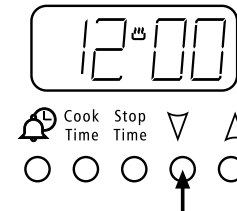
### **To set the "Time of Day"**



Press the *cook time* and *ready time* buttons simultaneously, and keep the buttons depressed. Use the *plus* and *minus* buttons to set the time of day, eg; 12.00.

A (Auto) symbol goes out, cookpot symbol comes on.

### **To select an alarm tone**

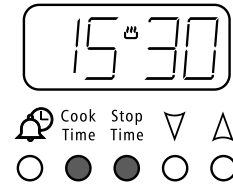


Press the *minus* button to listen to the first tone.

Release the *minus* button and press it again to listen to the second tone, etc.

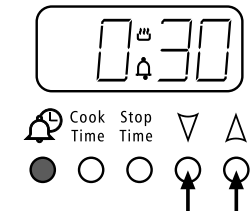
Releasing the *minus* button after the tone has sounded will automatically select that tone.

### **Manual operation**



To set the programmer to manual operation at any time (cancelling any automatic setting), press the *cook time* and *ready time* buttons simultaneously. The programmer must be set to manual before the appliance can be used manually.

### **Setting the minute minder**



Press the *minute minder* button, then use the *plus* and *minus* buttons to set the required time.

The minute minder (bell) symbol will appear on the display.

You can cancel the minute minder at any time by pressing the *minute minder* button and the *minus* button until the display returns to 0.00.

After setting, the display will revert to show the time of day, but you can press the *minute minder* button, and the display will show the minutes remaining.

The tone will sound at the end of the time set - to cancel the tone, press the minute minder button.

## USING THE OVENS

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### **Important:**

Food is more susceptible to the growth of food poisoning organisms in warm conditions. If the weather is hot, either take care to ensure that food is not left standing in a warm oven, or avoid using the automatic cooking facility.

### **Hints for automatic cooking**

- Food is placed in a cold oven so you will need to add about 10 - 15 minutes onto the cooking time to allow for the oven to reach the selected temperature.
- Wine or beer may ferment, and cream may curdle during the delay period, so it is best to add these ingredients just before serving.
- Potatoes should be parboiled or brushed with oil to prevent discolouration during the delay period.
- Meat can be brushed with oil to prevent it drying.
- Lemon juice can be added to certain fruit and vegetables such as apples, pears, turnips and parsnips to prevent discolouration during the delay period.

## USING THE MAIN OVEN

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### **Notes:**

When 2 or more shelves are being used, it may be necessary to increase the cooking time slightly.

Because the 2 oven shelves are wider than in many ovens, it is possible to cook 2 items per shelf - eg; 2 victoria sandwiches or 2 casseroles.

Although you need to keep in mind the points '*To help the air circulate freely*' with careful choice of dishes and tins, it is possible to cook a complete meal, and perhaps something else for the freezer, in the oven at the same time.

When roasting meats, you will notice that fat splashing is reduced, which is due in part to the lower oven temperatures, and will help keep cleaning of the oven to a minimum.

Because a fan oven has an even temperature throughout the oven, there is no need to worry about which shelf position to use as foods cook in the same way anywhere in the oven. There is no need to interchange dishes onto different shelves part way through cooking, as with a conventional oven.

### **Cooking times & temperatures**

The temperature settings and times given in the baking guide are based on dishes made with block margarine. If soft tub margarine is used it may be necessary to reduce the temperature setting.

### **Aluminium foil**

Use foil only to cover food or cooking dishes, using foil to cover the shelves or oven base creates a fire hazard

## USING THE OVENS

### Baking guide

Dish	Recommended temperature °C	Approximate cooking time (preheated oven)
Scones Meringues	180 110	8 - 15 2 - 3hrs
<b>Cakes</b> Small cakes Whisked sponge Swiss roll Victoria sandwich (2 x 180mm / 7") Genoise sponge Madeira (180mm / 7") Semi rich fruit cake (205mm / 8") Christmas cake (205mm / 8") Dundee cake (205mm / 8")	160 160 170 160  160 160 130  depending on recipe 130	15 - 25mins 15 - 20 mins 10 - 12 mins 20 - 30 mins  20 - 25 mins 1hr - 1¼ hrs 2½ - 3hrs  depending on recipe 2½ - 3hrs
<b>Pastry</b> Flaky / Puff Shortcrust Choux Plate tarts (2 x 180mm / 7")	180 170 170 170	depending on recipe and type of filling
<b>Biscuits</b> Shortbread rounds Nut brownies Brandy snaps Flapjacks Ginger nuts	160 170 160 160 160	20 - 25 mins 20 - 25 mins 10 - 12 mins 20 - 25 min 10 - 20 mins

## USING THE OVENS

### Automatic cooking (main oven)

The automatic cooking facility is controlled by the programmer (see 'Programmer / Clock' section) and allows complete meals or individual dishes to be cooked while you are out of the house, to be ready for when you return.

The 'READY TIME' should be set as close as possible to, or just after, your anticipated return, so food is not left standing in a warm oven.

### Do

- Select foods which are as fresh as possible, and as cold as possible - ie; preferably straight from the refrigerator.
- Choose foods which are suitable for cooking from a cold start, as some dishes will be affected by being left uncooked, at room temperature, perhaps for several hours - eg; a wet filling on a pastry base.
- Make sure that meat and poultry are thoroughly thawed (but still cold from the refrigerator) before placing them in the oven, and avoid using rolled joints of meat, which can be more susceptible to the growth of food poisoning organisms.
- Cover dishes with lids or foil to keep the food moist, and protect from possible contamination; the food can be uncovered towards the end of cooking to crisp and brown.

### Do not

- Warm food should never be placed in the oven if there is a delay period.
- Stews prepared by frying the meat and vegetables first should be cooked as soon as possible, or cooled and refrigerated prior to placing in the oven.
- Some dishes are not suitable for cooking on automatic - eg; dishes containing left over meat or poultry, dishes containing eggs, cooked rice, or seafood.
- Do not put food items (intended for automatic cooking) into a warm oven. Allow the oven to cool before setting for automatic cooking.
- Do not over-fill dishes containing liquids, as they might boil over.
- Never leave food in the oven to cool slowly after cooking; serve immediately or cool and refrigerate.
- Never use the automatic facility to reheat 'cook chill' foods, as they should go straight from the refrigerator into a preheated oven.



## USING THE OVENS

### Traditional fruit cakes

It should be remembered that ovens can vary over time, therefore cooking times can vary, making it difficult to be precise when baking fruit cakes.

It is necessary therefore, to test the cake before removal from the oven. Use a fine warmed skewer inserted into the centre of the cake. If the skewer comes out clean, then the cake is cooked.

- Follow the temperatures recommended in the recipe and then adjust accordingly to the conversion table on page 11.
- Do not attempt to make Christmas cakes larger than the oven can cope with, you should allow at least 25mm (1 inch) space between the oven walls and the tin.
- To protect a very rich fruit cake during cooking, tie 2 layers of brown paper around the tin.
- We recommend that the cake tin is not stood on layers of brown paper, as this can hinder effective circulation of air.
- Do not use soft tub margarine for rich fruit cakes, unless specified in the recipe.
- Always use the correct size and shape of tin for the recipe quantities.

### Roast turkey

Roasting turkey involves cooking two different types of meat - the delicate light breast meat, which must not be allowed to dry out, and the darker leg meat, which takes longer to cook.

The turkey must be roasted long enough for the legs to cook, so frequent basting is necessary. The breast meat can be covered once browned.

- Always make sure that the turkey is completely thawed and that the giblets are removed before cooking.
- Turkey should be roasted at 150°C - 160°C (fanned) or 150°C - 160°C (conventional) for 20 minutes per 1lb, plus 20 minutes, unless packaging advises otherwise.
- The turkey can be open roasted, breast side down, for half of the cook time, and then turned over for the remainder of the cooking time.
- If the turkey is stuffed, add 5 minutes per 1lb to cook time.
- If roasting turkey covered with foil, add 5 minutes per 1lb to cook time.

To test if the turkey is cooked, push a fine skewer into the thickest part of the thigh. If the juices run clear, the turkey is cooked. If the juices are still pink, the turkey will need longer cooking.

## USING THE MAIN OVEN

### Cooling and defrosting in the main oven

To **cool** foods after cooking prior to refrigerating or freezing, turn the oven control to the defrost position, and **open** the door.

To **defrost** frozen foods, turn the oven control to the defrost position, place the food in the centre of the oven and **close** the door.

### Defrosting times

Small or thin pieces of frozen fish or meat - eg; fish fillets, prawns, and mince will take approximately 1 - 2 hours. Placing the food in a single layer will reduce the thawing time.

A medium sized casserole or stew will take approximately 3 - 4 hours.

A 1½kg / 3lb oven ready chicken will take approximately 5 hours, remove the giblets as soon as possible.

Always check foods are thoroughly defrosted before cooking.

### Be safe

- Do not defrost stuffed poultry using this method.
- Do not defrost larger joints of meat and poultry over 2kg / 4lb using this method.
- Never place uncooked food for defrosting next to cooked food which is to be cooled, as this can lead to cross contamination.

- Defrosting meat, poultry and fish can be accelerated using this method, but make sure they are completely thawed before cooking thoroughly.

Place meat and poultry on a trivet in a meat tin, to catch the juices from the defrosting process.

### Slow cooking

- Make sure that frozen foods are thoroughly thawed before cooking.
- Do not slow cook joints of meat or poultry weighing more than 2¼kg / 4½lb.
- For roasting joints of meat or poultry and for pot roasts preheat the oven to 160°C - 200°C and cook for 30 minutes, then adjust the oven control to 110°C for the remainder of the cooking time.
- Slow cooking times will be about three times as long as conventional cooking.

## USING THE OVENS

### Baking tray and roasting tins

For best cooked results and even browning, the maximum size baking trays and roasting tins that should be used are as follows;

Baking tray 350mm x 280mm

This size of baking tray will hold up to 20 small cakes.

Roasting tin 370mm x 320mm

We recommend that you use good quality cookware. Poor quality trays and tins may warp when heated, leading to uneven baking results.

### Oven shelves

The oven shelf must be positioned at the rear of the oven, with the upstand facing upwards.

Position baking trays and roasting tins on the middle of the shelves, and leave one clear shelf position between shelves, to allow for circulation of heat.

Never put items directly on the base of the ovens or cover the oven base with foil, as this can cause the base element to overheat.

## USING THE OVENS

### Roasting guide

The times given in the roasting guide are only approximate, because the size and age of the bird will influence cooking times as will the shape of a joint and the proportion of the bone.

Frozen meat should be thoroughly thawed before cooking. For large joints it is advisable to thaw overnight.

Frozen poultry should be thoroughly thawed before cooking. The time required depends on the size of the bird - eg; a large turkey may take up to 48 hours to thaw.

Use of a trivet with a roasting tin will reduce fat splashing and will help to keep the oven interior clean. Alternatively, to help reduce fat splashing, potatoes or other vegetables can be roasted around the meat / poultry.

### Notes:

- When cooking stuffed meat or poultry calculate the cooking time from the total weight of the meat plus the stuffing.
- For joints cooked in foil or covered roasters, and for lidded casseroles, add 5 minutes per 450g (1lb) to the calculated cooking time.
- Smaller joints weighing less than 1.25kg (2½lb) may require 5 minutes per 450g (1lb) extra cooking time.
- Position the oven shelf so that the meat or poultry will be in the centre of the oven.
- It is recommended that the oven is cleaned after open roasting.

<b>Cook in oven at:</b> <b>160C - Main Oven</b> (Fanned) <b>180°C - Top Oven</b> (Conventional)		<b>Approximate Cooking Time</b> (preheated oven)
<b>Beef</b>	Rare Medium Well done	20 minutes per 450g (1lb), plus 20 minutes 25 minutes per 450g (1lb), plus 20 minutes 30 minutes per 450g (1lb), plus 30 minutes
<b>Lamb</b>	Medium Well done	25 minutes per 450g (1lb), plus 25 minutes 30 minutes per 450g (1lb), plus 30 minutes
<b>Pork</b>		35 minutes per 450g (1lb), plus 35 minutes
<b>Poultry</b>		20 minutes per 450g (1lb), plus 20 minutes