



Nectre Big Bakers Oven

Operating Instructions



Keep these instructions for future reference



**Australian
Home Heating**
Association Inc.



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1. OPERATING

THE OPERATING INSTRUCTIONS IN THIS MANUAL APPLY TO THE NECTRE BIG BAKERS OVEN.

1.1. IMPORTANT INFORMATION

Before use of this appliance please read these instructions fully.

WARNING: ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED AS BREACHING AS/NZS 4013.

WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE.

WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHEN IT IS OPERATING.

WARNING: DO NOT STORE FUEL WITHIN HEATER INSTALLATION CLEARANCES.

WARNING: WHEN OPERATING THIS APPLIANCE AS AN OPEN FIRE USE A FIRE SCREEN.

WARNING: OPEN AIR CONTROL (AND DAMPER WHEN FITTED) BEFORE OPENING FIRING DOOR.

WARNING: DO NOT BURN WOOD THAT IS PAINTED; OR IS COATED WITH PLASTIC; OR HAS BEEN TREATED WITH ANY CHEMICAL.

CAUTION: THIS APPLIANCE SHOULD NOT BE OPERATED WITH A CRACKED GLASS.

CAUTION: THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.

The appliance or flue system should not be modified in any way without the written approval of the manufacturer.

Extractor fans or cooker hoods must not be placed in the same room or space as this can cause appliance to emit smoke into the room.

1.2. GENERAL OPERATION

Air Controls

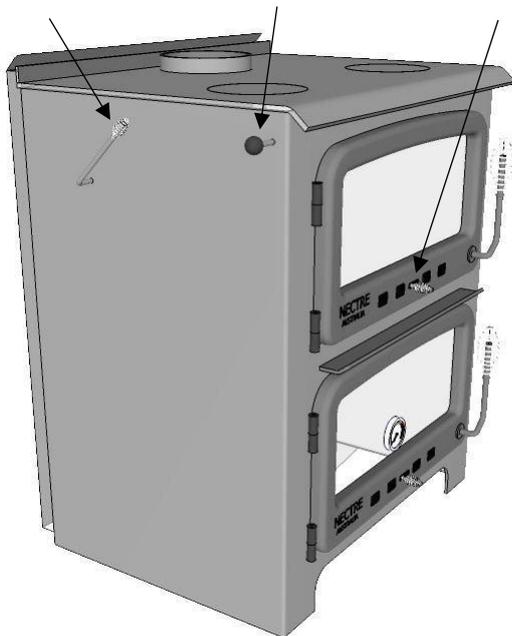
The Nectre Big Bakers Oven has two air controls and a bypass damper for controlling the fire.

The top air slide allows air to enter the firebox from above the door where it is then drawn down into the base of the fire while keeping the glass clean. Pull knob out to the left to open and push in to the right to close.

The bottom air slide allows air to enter directly into the base of the fire and is used as a boost especially when getting the fire up to temperature. Slide spring handle to the left to open and to the right to close.

The bypass damper is opened by pushing the handle towards the rear and closed by pulling the handle towards the front. In the open position, the flame path is diverted from the firebox directly up the flue. In the closed position, the flames are diverted down the sides of the heater, around the oven before travelling up the rear of the heater and up the flue.

Bypass Damper Top air slide Bottom air slide



Door Handle

Warning: The door handle may get hot if the appliance has been left in the high burn setting for an extended period. Use a protective glove to open.

Open the top air slide before opening the door to eliminate the chance of backdraft and smoke entering the room.

1.3. USING THE APPLIANCE FOR THE FIRST TIME

- For the first few times the appliance is lit, odorous fumes will be given off as the paint cures.
- Do not touch the paint work while it is curing otherwise it can leave a permanent mark on the appliance.
- Keep the room well ventilated until these fumes have cleared.
- Once the paint has cured, this will not re-occur.

1.4. RECOMMENDED FUELS

- Burn only seasoned hardwood timber with a moisture content of less than 20%.
- Newly cut wood should be split and allowed to dry/season for 12 to 18 months before use.
- Wood should be stored in an environment protected from the weather to minimise any potential moisture content.
- For best results, wood should not exceed $\frac{3}{4}$ of the firebox front to back dimension in length and 150mm in diameter. Any larger and appliance will not operate at its optimum. It is better to burn several smaller pieces of wood than one large piece at a time.
- Poor quality timber:
 - Causes low combustion efficiency.
 - Produces poor emissions (smoky).
 - Results in additional build-up of creosote (soot) in the flue which will then require regular cleaning and may result in a flue fire.
- Do not burn painted, impregnated/treated wood, manufactured board products or pallet wood.

1.5. LIGHTING THE FIRE

- 1) Place firelighters or paper and dry kindling wood in the base of the firebox.
- 2) Fully open air controls (slide top and bottom air slides to the left, push bypass damper handle towards rear).
- 3) Light the paper or firelighters.
- 4) Once the fire has taken hold add larger pieces of wood. For optimal burn conditions, place the logs in a front to back orientation (right angles to the door opening). Too many logs may smother the fire.
- 5) Once the fire is established, close the bypass damper (pull to front) to increase heating efficiency.
- 6) Once the fire is established, close the bottom air slide (slide to the right). Leaving this open can risk over-firing and damaging the appliance.

Do not leave the appliance unattended while the door is open.

Do not leave fire unattended with bottom air control open as over-firing may occur.

1.6. RUNNING THE APPLIANCE

High Heat Output

This setting generates maximum heat output and high oven temperatures. It is not the most energy efficient as some heat is lost up the flue instead of being transferred into the room. However, once fire has established, particulate emissions will be very low (clean burning).

- After establishing the fire and loading it with larger pieces of wood, leave it running with the top air slide fully open to generate high heat output.
- Running the appliance with the door open will not produce maximum heating in the room as it will draw a lot of already warmed air out of the room.
- Similarly running the heater with the top air slide and the bottom air slide fully open will often not give the hottest fire as too much heat is lost up the flue and does not come into the room
- **Do not overload firebox with fuel.**

Low Heat Output

This setting will provide the best energy efficiency as the wood burns for longer. However, if not operated correctly may result in higher particulate emissions.

- The heat output on the appliance can be reduced by closing the air controls which will restrict the oxygen supplied to the fire and slow down the rate at which the wood burns.
- **Prior to closing the air slide**, ensure the fire is burning briskly. This may require opening the air slide fully for 5-10mins before shutting down.
- For the optimum between clean burning, and getting the best in efficiency, from the fully closed position, open the top air slide 4-5mm. The bottom air slide must be shut.
- The top air slide can be adjusted to any position so desired depending on wanted heat output versus burn time.

Reload with more wood

- 1) Open the top air slide before opening the door.
- 2) Rake / break up any existing coals.
- 3) Load wood with the length orientated front to back. Better results will be achieved by loading several smaller pieces of wood rather than one large piece.
- 4) Close the door with the top air slide fully open and leave for a minimum of 10 minutes to allow the fresh wood to catch.
- 5) After 10 or more minutes, the air slide can be adjusted to the desired heat output setting.

1.7. OPERATING THE OVEN

When using the oven ensure the bypass damper is in the closed position, and the bottom air slide in the oven door is closed.

To maintain a constant oven temperature, have the fire burning briskly using small pieces of wood that provide plenty of flames.

If the temperature in the oven gets too hot, reduce the amount of oxygen to the fire by partially closing the top air slide. Alternatively, open the bottom door slide control in the oven door.

If the temperature in the oven drops below that desired, open the top air slide and add some more pieces of wood if required.

The round hotplates in the top of the heater can be removed for cooking purposes allowing direct flame to a wok or frypan. A triangular-handled tool is provided for lifting out the round hotplates.

1.8. BURNING TIPS

Fuel Quality

Use wood with a moisture content of less than 20%. Logs should not feel moist or have moss and fungal growths.

Symptoms of burning wet wood:

- Difficulty starting and keeping a fire burning well
- Smoke and only small flames
- Dirty glass and/or fire bricks
- Rapid creosote build-up in the flue/chimney
- Low heat output
- Short burn times, and blue/grey smoke from the flue/chimney outlet

If on the rare occasion the wood is not ideally seasoned, still retaining some moisture, continue using the top air slide to determine the heat output and burn rate but also leave the bottom air slide open 3-4mm. This will allow some extra oxygen into the base of the fire allowing it to burn hotter.

Run appliance at high heat output for a short period each day to avoid large build-up of tars and creosote within the appliance and flue.

Flue Draught

The flue has two main functions:

- 1) To safely remove smoke, gases and fumes from the appliance.
- 2) To provide sufficient draught (suction) in the appliance to ensure the fire keeps burning.

Draught is caused by the rising hot air in the flue when the fire has been lit.

The position, height and size of the flue can affect the performance of the flue draught. Refer to installation guide for details on flue installation.

Factors affecting the flue draught include:

- Insufficient flue height
- Trees or other buildings nearby causing turbulence
- High and gusty winds
- Outside temperature and weather conditions
- Blocked flue

For advice on the correction of persistent flue problems consult your supplier/installer for more detail.

1.9. ASH REMOVAL

Depending on the type of wood burnt and frequency, the ashes will need removing every 2 to 6 weeks.

Leave a 10mm layer of ash to insulate the firebox bottom.

Excess ashes should be removed when necessary, placed in a non-combustible container with a tightly fitting lid and moved outdoors immediately to a location clear of combustible materials.

1.10. FLUE/CHIMNEY FIRE

If a flue/chimney fire occurs:

- Shut air controls fully to smother the fire.
- Do not use the appliance after a flue fire until an accredited installer has assessed the cause and any resultant damage.

1.11. CLEANING PAINT WORK AND GLASS

- The appliance, when cool, can be cleaned with a damp cloth.
- Over the years, the black paint will fade and can be touched up with Stove Bright metallic black paint.
- To clean the glass, we recommend using a household window cleaner or general purpose cleaner with a soft cloth.

Do not use abrasive cleaner or scourer pads.

1.12. CLEANING THE FLUE

Check inside of flue prior to each season for any build-up of creosote (wood tar).

To check the flue:

- 1) Remove the baffle plate (refer to 'Replacing the Baffle Plate' under Maintenance & Servicing).
- 2) Hold a small mirror on an angle below the flue, with a torch shining towards it, and look for black creosote build-up. It is normal to see a fine black powdery layer, but if built up layers of creosote can be seen, the flue requires cleaning.
- 3) If no cleaning is required, re-fit the baffle plate.

To clean the flue:

- 1) A flue cleaning brush can be purchased from most wood heater retail outlets or large hardware stores. Alternatively, hire a flue cleaning service to do the job for you (it's a dirty job).
- 2) With the baffle plates removed, tie a rope to one end of the brush, and drop the rope down the flue (from outside on top of the roof).
- 3) Grab the end of the rope from inside the firebox and pull the brush down through the flue.
- 4) Check the inside of the flue with the mirror and torch.
- 5) Repeat cleaning process if necessary.
- 6) Once the flue is clean, remove any excess creosote from the firebox.
- 7) Replace the baffle plate.

Only pull brush downwards through flue, as pulling upwards may separate the flue sections at their joins.

1.13. TROUBLESHOOTING TIPS

Glass in door blackening

This can have several possible causes:

- Burning unseasoned wood — If the wood is too wet, it will cause the glass to blacken.
- Appliance operated at low temperature — After an overnight burn where the air control has been fully closed, the glass may have blackened. When the fire is re-stoked and burning on the high heat setting, the blackened glass should self-clean.
- Problems with the flue — Insufficient flue draught can cause the glass to blacken. If the flue is too short, not properly insulated, or in a position that results in a downdraught, then there will be insufficient flue draught. Contact the installer should this happen.

Trouble starting the fire

When cleaning, it is best to retain some ash in the base of the firebox. A layer of ash insulates the base, helping to maintain a high temperature for combustion. Also, if all the ash has been removed from the firebox, it can affect the supply of air to the base of the fire.

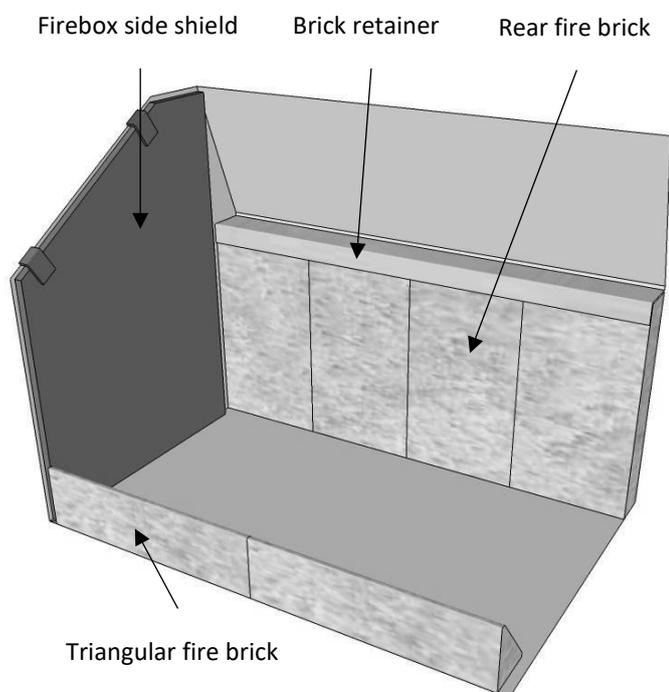
2. MAINTENANCE AND SERVICING

2.1. REPLACING THE FIRE BRICKS

The firebox needs fire bricks to increase the thermal mass and guarantee the longevity of the steel firebox. Over time the firebricks may become cracked and crumble away. At this point they should be replaced.

To replace the firebricks:

- 1) Remove the firebox side shields.
- 2) Remove the brick retainer.
- 3) Remove bricks and ash from the fire box.
- 4) Replace with new bricks and reposition the brick retainer over the bricks.
- 5) Refit the side shields.



2.2. REPLACING THE FIREBOX SIDE SHIELDS

The heater comes with two 8mm thick sacrificial shields fitted to the sides of the firebox to protect the walls of the firebox.

Lugs on the shields allow them to hang over the angled cutout on the sides of the firebox along the top.

To remove the shields, raise until the support hooks are clear of the triangular cut-out on the side of the heater and remove.

To fit new side shields, simply hang them on the diagonal edge of the triangular cut-out on each side of the firebox.

The side shields come as a left and a right, they are not interchangeable.

2.3. REPLACING THE BAFFLE PLATE

The baffle plate helps to retain the heat in the firebox by lengthening the path of the flame before it goes up the flue.

Over time, the baffle plate will begin to sag a little due to the excessive heat. This will not affect the way the fire burns.

Eventually the baffle plate will burn through (5+ years) and must be replaced.

To remove the baffle plate:

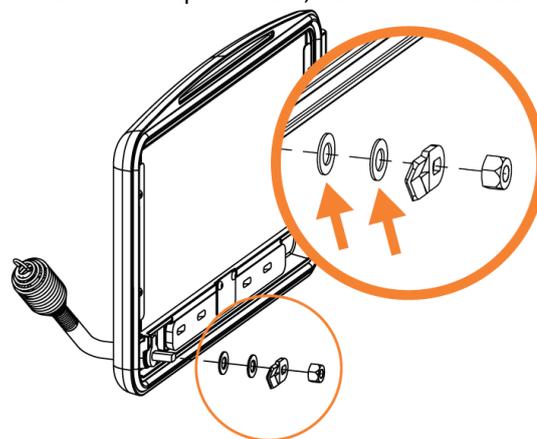
- 1) Slide the baffle plate forward until the rear edge is clear of the brick retainer.
- 2) Lowering the rear of the baffle will allow the front to slide past the front support pins.
- 3) Once the baffle has cleared the front support pins, it can be removed from the firebox.
- 4) Repeat steps 1) to 3) in reverse to fit the new baffle plate.

2.4. ADJUSTING THE DOOR

If the door does not close firmly, the latch can be adjusted.

The latch is fastened onto the door with two removable washers. Use a socket wrench to undo the M12 nut, then remove one of the washers directly beneath the nut. Securely fasten latch assembly again.

Close the door with the door handle to test for any improvement. If no improvement, remove second washer.



2.5. CHECK CREOSOTE BUILD UP

Over time creosote and ash can build up in the bottom of the heater. If not checked and cleaned annually it can result in a blockage stopping the flames and smoke from exiting up the flue when the by-pass damper is closed.

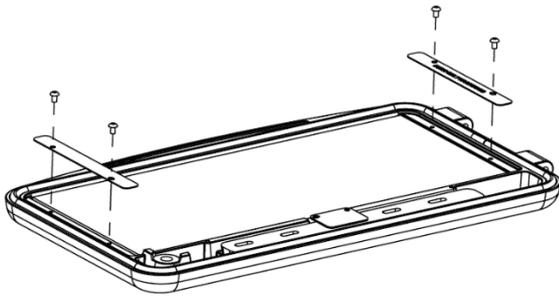
The plate in the bottom of the oven can be lifted from the front where there is a raised edge. With a dust pan brush, go through the square access hole and brush along the sides and rear of the heater bringing any creosote build-up into the centre so can be removed with the dust pan.

2.6. REPLACING DOOR GLASS

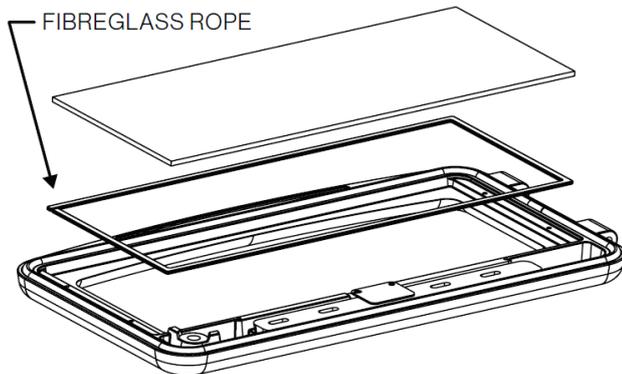
This task may be easier with the door removed from the appliance and laid horizontally on a work-bench.

To replace the door glass:

- 1) Two stainless steel strips hold the glass in place. Remove the four screws from the stainless steel strips with a 3mm hex key.



- 2) Take out the glass, and check if the grey rope beneath needs replacing. If so, replace this rope as well.



- 3) Position the new glass on top of the grey rope and re-fit the stainless steel strips and screws.
- 4) Take extra care not to over-tighten the screws, otherwise the glass will crack when the heater gets hot and the door expands.
- 5) Dispose of the old glass in a responsible manner.

2.7. REPLACING THE DOOR SEAL

This task may be easier with the door removed from the appliance and laid horizontally on a work-bench.

- 1) Remove any remains of the old seal from the door.
- 2) Clean out the groove in the door that the seal was bedded in, using a flat head screw driver or equivalent.
- 3) Run a thin bead of clear roof and gutter silicone along the groove.
- 4) Starting at one end, press the new door seal into the groove on the door.
- 5) Refit the door if it has been removed.



2.8. REPLACEMENT SPARE PARTS LIST

Firebricks

- 4 Rectangular @ 230mm x 115mm x 38mm
- 2 Triangular @ 50mm x 70mm x 250mm

Brick Retainer

Stainless steel 495mm x 48mm x 25mm

Baffle Plate

Steel 248mm x 463mm x 6mm

Side Shields

Left and right pair @ 370mm x 255mm x 8mm

Door Seal

1610mm x 13mm round braided ceramic rope

Glass Seal

1360mm x 8mm x 3mm flat adhesive back

Door Glass

476mm x 200mm x 5mm pyro ceramic

3. WARRANTY

Glen Dimplex Australia Pty. Ltd. warrants this stove to be able to operate under normal use and service and within 10 years from the date of the original purchase on the terms herein shall repair or replace without cost to the original customer any part thereof which shall be returned to our factory, transportation charges prepaid and which our inspection shows would prevent operation.

This warranty does not apply to firebricks, brick retainer, baffle, door seal, glass, any electrical components, nor discolouration of the surface or tarnishing of chrome fittings all of which require normal service to maintain them.

Under the terms of this warranty, Glen Dimplex Australia Pty. Ltd. assumes no responsibility for the labour costs involved in removing or replacing the stove. Nor shall Glen Dimplex Australia Pty. Ltd. be liable for any injury, loss, or damage (direct, indirect or consequential) arising out of the use or inability to use the product, or its removal and replacement. All other stove warranties, expressed or implied are excluded to the extent possible to law. Any claims against Glen Dimplex Australia Pty. Ltd. must be brought within Australian Jurisdiction.

The Retailer does not have the authority to alter this warranty.



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