

Professional 90

Dual Fuel

Service Instructions



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Servicing Notes

Fig.1

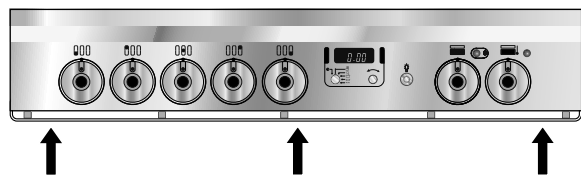


Fig.2

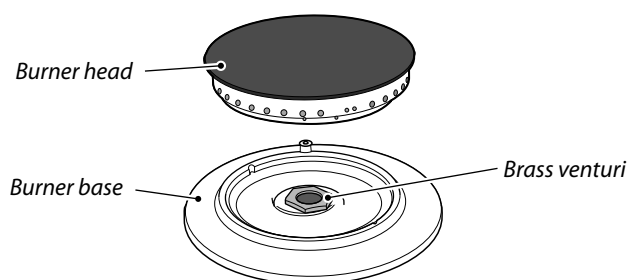
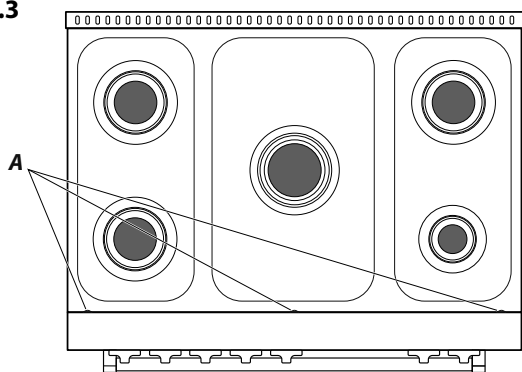


Fig.3



When servicing or replacing gas carrying components disconnect from gas before commencing operation and check appliance is gas sound after completion. When checking for gas leaks use a liquid leak detector at all joints and connections to check for leaks in the system. Use a product specifically manufactured for leak detection. Leak testing of the appliance shall be conducted in accordance to the manufacturer's instructions.

- ⚠ DO NOT use a flame to check for gas leaks.**
- ⚠ DO NOT use reconditioned or unauthorised gas controls.**
- ⚠ Disconnect from electricity supply before commencing servicing, particularly before removing any of the following: control panel, side panels, cooktop tray, or any of the electrical components or cover boxes. Before electrical reconnection make sure the range is electrically safe.**

1. Remove Control Panel

- ⚠ Disconnect from electricity supply**

Pull off the control knobs.

Open the oven door and remove the 3 fixing screws underneath the control panel (**Fig.1**).

Remove 3 screws from the upper rear of the control panel.

Pull the control panel forward and support so that the wires are not strained.

To gain access behind the control panel it is also necessary to remove the cooktop (see '2. Remove the Cooktop').

Reassemble in reverse order. When replacing leads refer to the wiring diagram. Check operation of timer, ignition, and oven light switches.

2. Remove the Cooktop

- ⚠ Disconnect from electricity supply**

Remove the grates and burner heads. If there are screws holding the cooktop burners to the cooktop, remove them (not the spark electrode fixing screws).

Remove the 22mm brass venturi and lift the burner base (**Fig.2**). Disconnect the HT leads.

Remove the 3 cooktop fixing screws (A) (**Fig.3**).

Remove the screws holding the flue grille stays and if the rear extension is fitted remove the screws holding that as well.

Lift the cooktop clear of the appliance.

Reassemble in reverse order ensuring that the leads are reconnected. When replacing the cooktop take care not to damage the ignition electrodes.

3. Remove a Side Panel

Disconnect from electricity supply

Remove control panel (see '1. Remove Control Panel'). Pull the cooker forward. Remove the 5 retaining screws for each panel (2 at the front (A) and 3 at the rear (B)) (**Fig.4**). The lower front retaining screws (one each side) are situated beneath the lower edge at the front corners of the side panels

Reassemble in reverse order.

4. Remove the Oven Light Switch

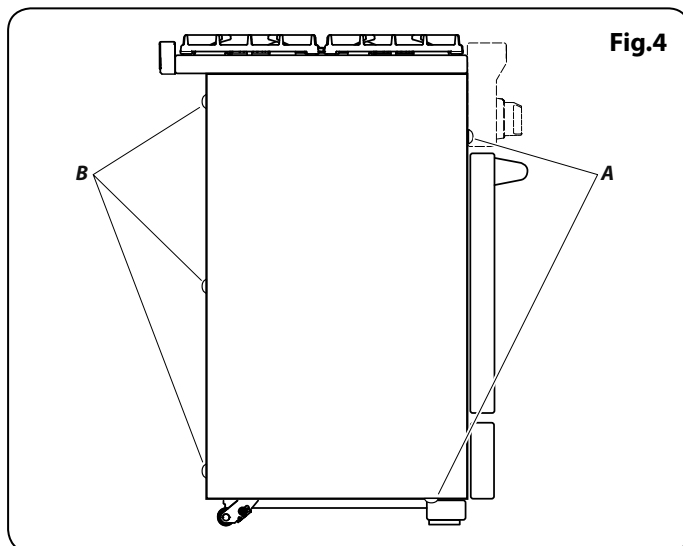
Remove control panel (see '1. Remove Control Panel').

NB. The old switch may be destroyed during removal.

Remove switch button and old switch from its bezel by gripping the switch body behind the control panel and twisting sharply.

The switch bezel can then be removed by folding back its locking wings and pushing forward. Fit the new bezel to the control panel by first lining up the raised key on its body with the cutout in the control panel and pushing it in from the front. Assemble the new switch to the bezel by lining up the key sections and pushing home. Fit the new button by pushing in from the front.

Replace control panel in reverse order and test for correct operation.



5. Remove Electronic Timer

Disconnect from electricity supply

Pull off the timer control buttons and remove the control panel (see '1. Remove Control Panel'). Remove the timer/mounting bracket assembly from the control panel by removing the two fixing screws. Remove the timer from its mounting bracket by depressing the plastic lugs on the timer case, at the same time pulling the unit forward.

Reassemble in reverse order. When replacing leads refer to the wiring diagram. Check operation of timer.

6. Remove a Thermostat

Remove control panel (see '1. Remove Control Panel') and cooktop (see '2. Remove the Cooktop'). Remove the rear cover panel and thermostat phial retaining plate.

Remove the thermostat from the rear of the appliance.

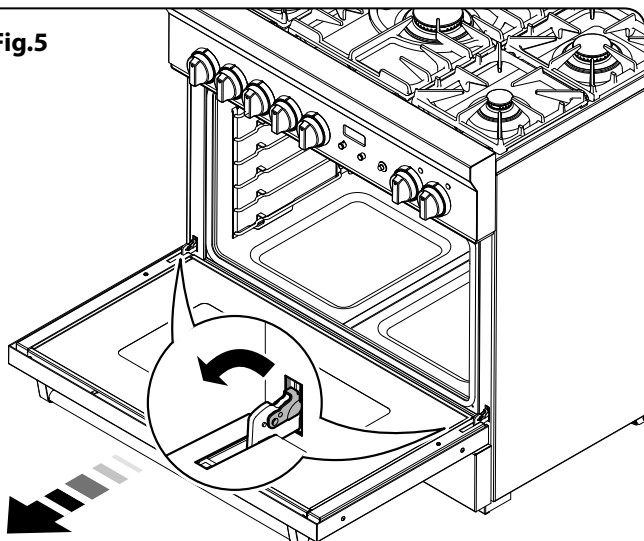
7. Change Cooktop Burner Electrode

See '2. Remove the Cooktop'.

Remove the screw holding the electrode. Pull electrode vertically up sufficiently to grip the lead between thumb and forefinger. Pull off the electrode, but keep hold of the lead. Fit new electrode to the lead. Fix electrode in burner with screw. Replace burner cap. Check the burner ignition. Replace grates.

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Fig.5



8. Remove an Oven Door

To remove the door, open the door fully. Swivel the locking 'U' clips forward to the locking position (**Fig.5**). Grip the sides of the door, lift upwards and then slide the door forwards (**Fig.6**) and remove.

9. Change an Oven Door Panel

Remove the 4 Hex headed screws (2 either side) of the door panel. Also remove the additional bolts located beneath the door panel (2, 3mm allen head bolts either side).

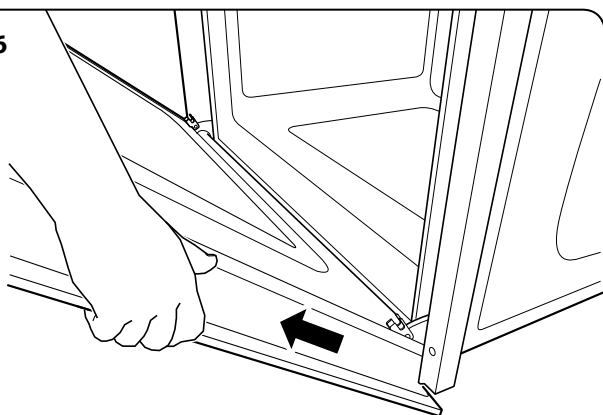
Remove the oven door panel.

10. Change Oven Door Seal

Open oven door. The seal is held in place by small hooks on the rear face. At the corner pull seal diagonally away from the door cavity until that hook is released. Proceed to the next hook and release it in a similar way, and so on (**Fig.7**).

When fitting the new seal, position the seal join at the bottom. Hook the new seal in one of the corner holes of the door, and proceed round the door snapping in each hook in turn.

Fig.6



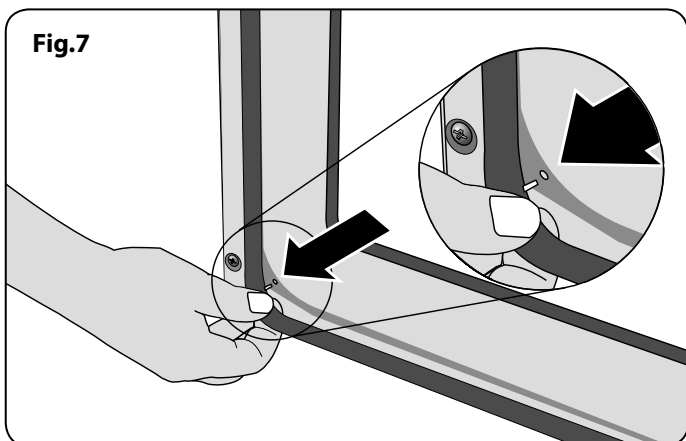
11. Change Ignition Generator

⚠ Disconnect from electricity supply

Pull the cooker forwards and follow the method '2. Remove the Cooktop'.

The generator is located in the rear channel support. Pull off all the leads to the generator, noting their positions. The generator can then be unclipped.

Fig.7



12. Remove Oven Inner Back

Open the oven door and remove oven furniture.

Remove the fixings that secure the inner back to the oven rear (**Fig.8**). Lift the removable panel away. Re-assemble in reverse order. Ensure that the retaining fixings are fully tightened.

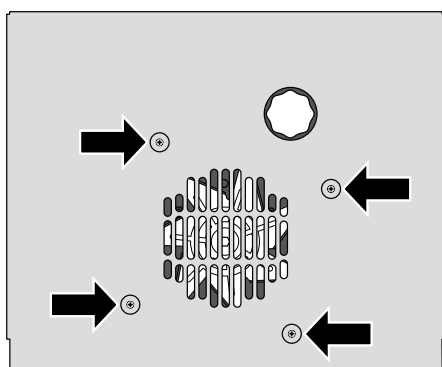
13. Replace the Cooling Fan

⚠ Disconnect from electricity supply

Pull cooker forward to gain access to the rear of the cooker.

Support the fan and remove the screws holding the cooling fan mounting bracket. Gently lift the fan and bracket away from the range taking care not to strain the electrical connection. Disconnect the leads from the fan noting the orientation. Remove the fan from the mounting bracket. Fit the new fan and reassemble in reverse order.

Fig.8



14. Replace an Oven Fan

⚠ Disconnect from electricity supply

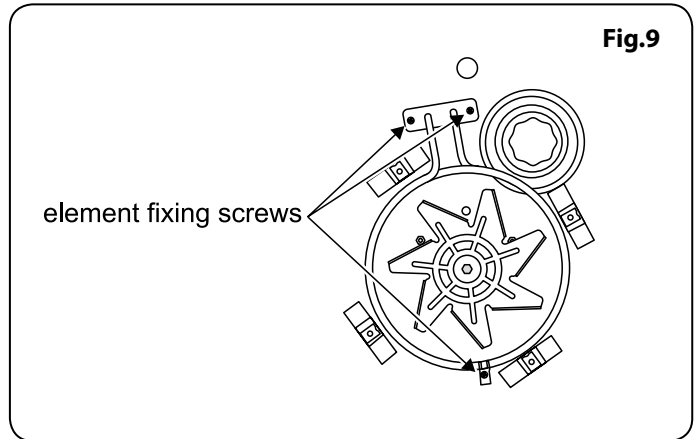
Pull the unit forward to access the cover boxes at the rear of the appliance.

Remove the fixings that secure the cover and lift it clear.

Remove the fan wiring, noting the connection positions.

Remove the inner back (see '12. Remove Oven Inner Back').

Hold the fan blades and undo the centre nut (LH thread), brass washers, fan blade and Circlip. Undo the fixings that retain the fan and remove it from the cavity rear. Fit the replacement and re-assemble parts in reverse order. Check that the oven operates satisfactorily.

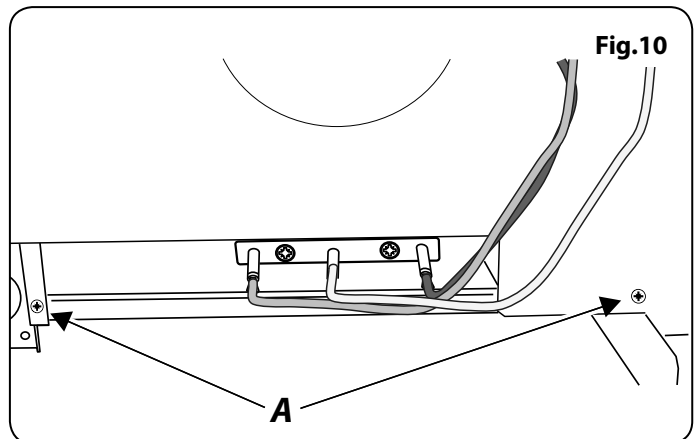


15. Replace an Oven Fan

⚠ Disconnect from electricity supply

Remove the inner back (see '12. Remove Oven Inner Back').

Remove the fixings that secure the element within the oven and lift the element away carefully (**Fig.9**). Disconnect the leads and connect to the replacement element and re-assemble parts in reverse order. Check that the oven operates correctly.



16. Remove Top and Bottom Elements

⚠ Disconnect from electricity supply

Bottom Element

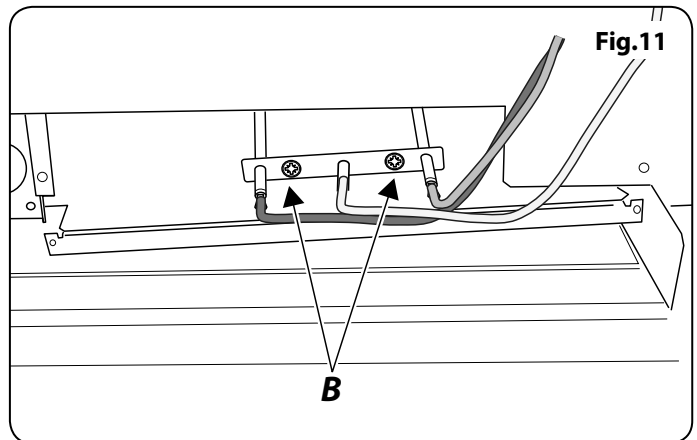
Pull the cooker forward to access the cover boxes at the rear of the unit. Remove the fixings that secure the cover and lift clear.

Remove the 2 screws 'A' and allow the plate to drop down (**Fig.10**).

Remove the additional 2 screws 'B' or unclip the element from the sheet (**Fig.11**).

Disconnect the leads, noting their positions.

Withdraw bottom element. Fit the new element and re-assemble parts in reverse order.



17. Change Oven Light Bulb

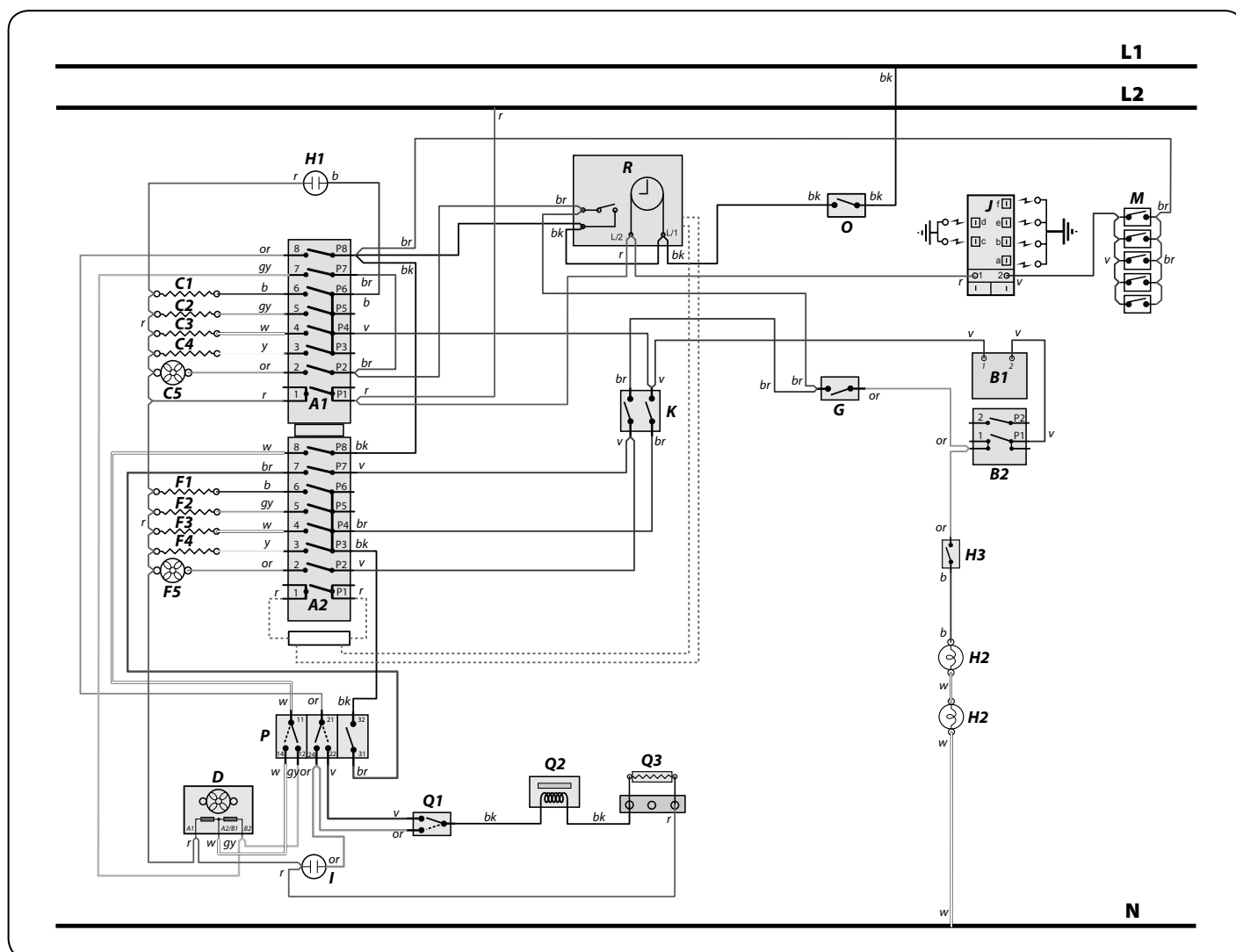
⚠ Disconnect from electricity supply

Remove the oven furniture. Unscrew the bulb.

Fit an Edison screw fitting 15w 125-130v lamp, FOR OVENS. It must be a special bulb, heat resistant to 300 °C.

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Circuit Diagram



Code	Description
A1	Multi-function oven master switch
A2	Multi-function oven drone switch
B1	Oven thermostat
B2	Oven front switch
C1	Right-hand oven base element
C2	Right-hand oven top outer element
C3	Right-hand oven top inner element
C4	Right-hand oven fan element
C5	Right-hand oven fan
D	Cooling fan (2 speed)
F1	Left-hand oven base element
F2	Left-hand oven top outer element
F3	Left-hand oven top inner element
F4	Left-hand oven fan element
F5	Left-hand oven fan

Code	Description
G	Oven protect thermostat
H1	Oven neon
H2	Oven light
H3	Oven light switch
I	Door lock neon
J	Ignition spark generator
K	Oven divider switch (In)
M	Ignition switches
O	Cooling fan fail cut-out
P	Pyrolytic thermostat
Q1	Lock cam switch
Q2	Lock motor
Q3	Lock motor resistor
R	Clock / oven timer

Code	Color
bl	Blue
br	Brown
bk	Black
or	Orange
r	Red
v	Violet
w	White
y	Yellow
gy	Green/yellow
gr	Grey
r(f)	Red (flag)

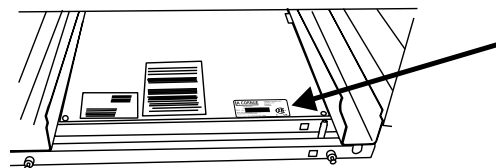
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Technical Data

INSTALLER: Please leave these instructions with the user.

RATING PLATE LOCATION: Inside base drawer of cavity. Remove the drawer (see 'Overview' > 'Storage' for details).

COUNTRY OF DESTINATION: USA, Canada.



Connections

Electric	240V 60 Hz
Gas	½" NPT at rear left-hand side

Dimensions

Overall height	minimum 37 ³ / ₈ " (95 cm)	maximum 38 ³ / ₈ " (97.5 cm)
Overall width	35 ⁷ / ₁₆ " (90 cm); see 'Positioning of Range'.	
Overall depth	28 ¹ / ₈ " (714 mm)	
Minimum space for cooktop	31½" (800 mm)	

Oven Ratings

Fan element (x2)	1.8 kW each
Top element (x2)	0.75 kW each
Browning element (x2)	1.15 kW each
Bottom element (x2)	0.75 kW each

Gas Hob	Bypass Screw*	Natural gas 4" WC		Propane gas 10" WC	
		Input	Orifice	Input	Orifice
Large burner	49	17,500 btu/hr	205	17,500 btu/hr	118
Medium burner	38	12,000 btu/hr	150	12,000 btu/hr	99
Small burner	31	6,000 btu/hr	112	6,000 btu/hr	68

* The valves in this range are fitted with adjustable bypass screws. The range is supplied with the bypass screws set for Natural gas. For LPG conversion the bypass screws must be screwed all the way down.

Oven Efficiencies

Energy consumption based on standard load	0.99 kWh
Usable volume (cubic feet)	3.8
Size	Large
Time to cook standard load	44 minutes

Maximum total electric load 240V: (including oven fans, lights, etc.) 3.85 kW, 16 A

Note: The maximum input at any time is given as the convection broil, which is all top elements and the fan.

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