



AGA DUAL CONTROL DC3G & DC5G (POWER FLUE)

Burner Assembly & Flue System Upgrade Instructions

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.

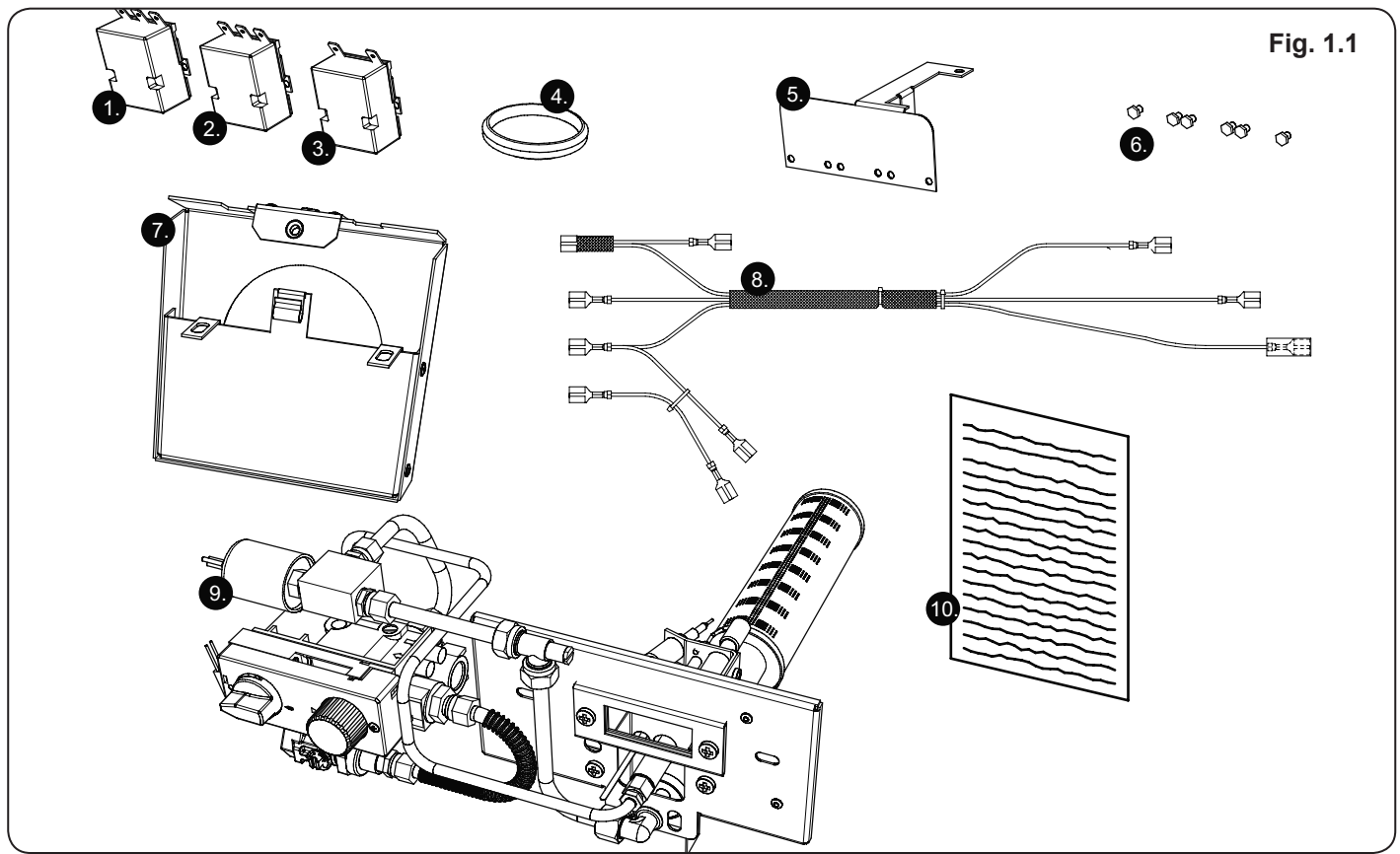
**PLEASE READ THESE INSTRUCTIONS BEFORE USING THIS APPLIANCE
AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.**



For use in GB & IE

09/16 LPRT 517434

1. Overview



Spare Upgrade Kit - AG9M996374 Power Flue Natural Gas Burner Assembly & Flue System Kit

1. 'Cold Start' Thermostat AG4M212636
2. Flue Thermostat AG4M212363
3. Solenoid Thermostat AG4M212364
4. Sealing Ring AG4M410180
5. Thermostat Mounting Bracket AG2M212341
6. M4 x 6 mm LG Hex Head (x6) KHEX500684
7. Spacer Box Assembly AG1M212439 c/w 3 off Spring Clips KCLP500683
8. Fan Wiring Harness AG4M212637
9. Burner Assembly AG1M212324
10. Instruction Sheet LPRT517434

Fig. 1.2

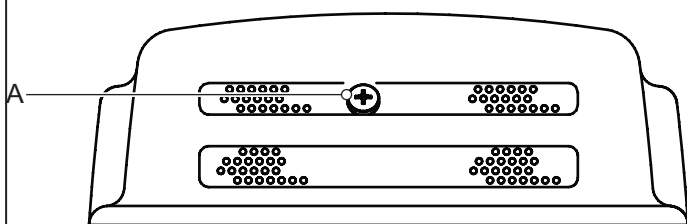


Fig. 1.3

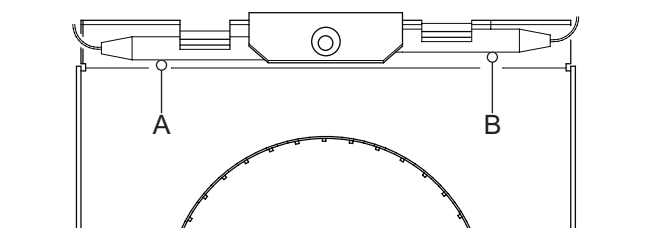


Fig. 1.4

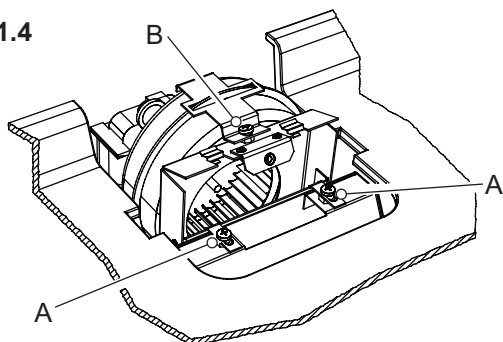


Fig. 1.5

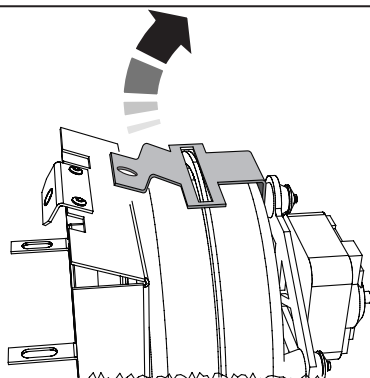
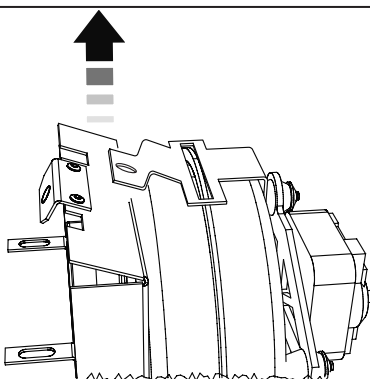


Fig. 1.6



⚠ Prior to installation ensure that power & gas supplies are isolated.

1. Remove fan shroud **Fig. 1.2**
 - i. Remove retaining screw located through top vent of fan shroud **Fig. 1.2**.
 - ii. Remove shroud.
2. Remove thermostat phials 'A' & 'B' from circlips located at top of spacer box **Fig. 1.3**

Remove spacer box

- i. Remove (2) screws 'A' fixing spacer box to flue nozzle **Fig. 1.4**.
- ii. Remove (1) screw 'B' fixing fan to spacer box **Fig. 1.4**.
- iii. Slightly bend fan fixing bracket in an upwardly direction to allow spacer box removal **Fig. 1.5**.
- iv. Slide the spacer box up to remove **Fig. 1.6**.

Vent fan removal

⚠ NOTE! Care must be taken when removing fan to ensure terminals on motor windings do not get damaged.

- i. Rotate fan back & forth, pulling upwardly to remove fan from flue elbow.
- ii. Disconnect all wiring from fan unit. Place fan aside.

Remove thermostat mounting bracket

- i. Remove (1) fixing screw 'A' securing bracket to chassis **Fig. 1.7**.
- ii. Remove bracket c/w thermostats.
- iii. Spacer box, thermostat brackets, stats & wiring harness can now be discarded.

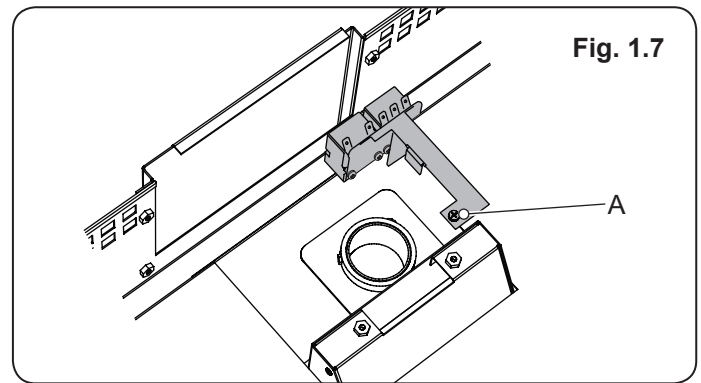
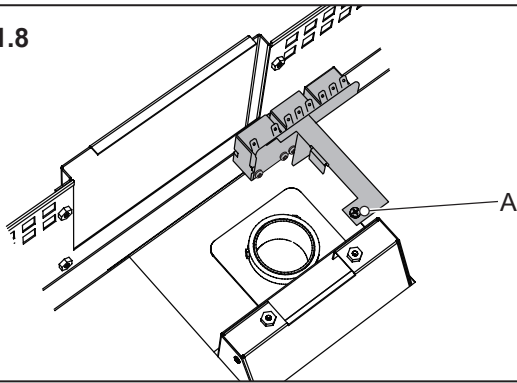


Fig. 1.8



Re-fit

1. Prior to fitting new thermostat mounting bracket pre-wire thermostats. Secure the new bracket **Fig. 1.1** in position using (1) fixing screw 'A' **Fig. 1.8**:

Route thermostat capillaries accordingly

- Cold start stat (blue capillary) to the right.
 - Flue fan stat to the right.
 - Solenoid stat to the left.
2. Prior to re-fitting fan remove earth wire from harness by cutting cable ties.
 2. Re-connect earth wire to earth terminal located at rear of chassis **Fig. 1.9**.
 3. Position fan locally to flue elbow. Re-wire following schematic wiring diagram **Fig. 1.9**.
 4. Remove the old 'O' ring from vent fan spigot, and replace with the new 'O' ring supplied with the kit.
 5. Re-fit fan to flue elbow.



CAUTION: Care must be taken when re-fitting fan to avoid damaging terminals on the motor windings.

Aga
DC3 Gas
Power Flue
Cold Start

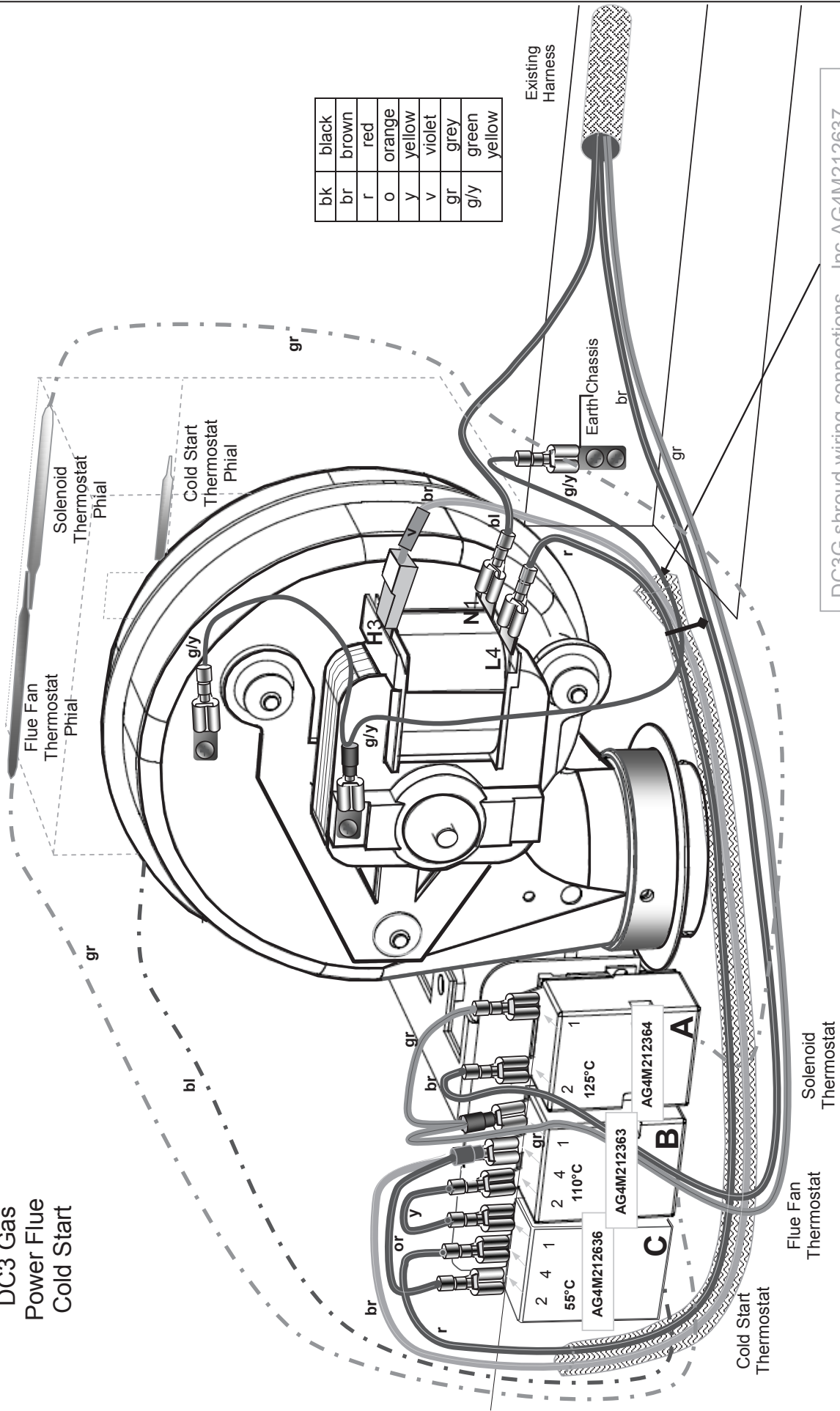
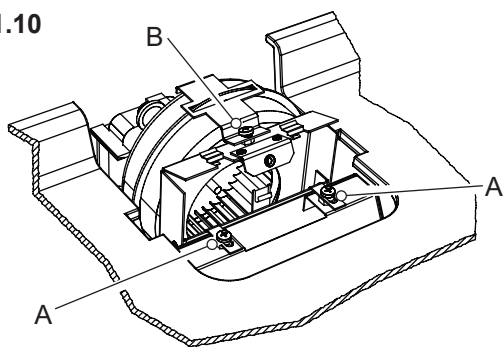


Fig. 1.9

Fig. 1.10



Spacer box

1. Slide spacer box into position, secure in position (2) screws 'A' **Fig. 1.10**.

Reposition fan securing bracket, secure to spacer box top (1) screw 'B' **Fig. 1.10**.

2. Thermostat phials **Fig. 1.11**

i. Fit (3) thermostat phials as follows :

ii. Solenoid stat 'A' to top left-hand side of spacer box

iii. Fan stat 'B' to top right-hand side of spacer box.

iv. Cold start stat 'C' to front centre of spacer box.

Route stat capillaries to sides of spacer box, ensuring fan shroud will fit without clashing.

3. Re-fit shroud and secure in position **Fig. 1.12**.

Fig. 1.11

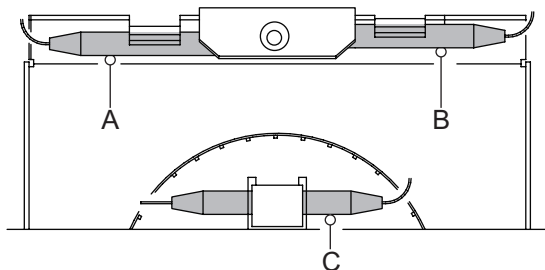
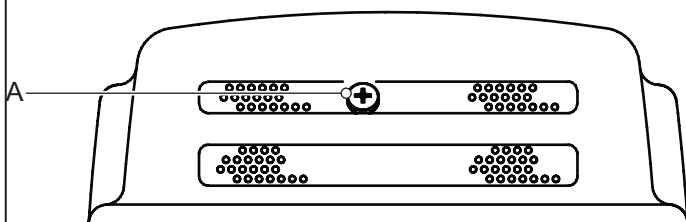


Fig. 1.12



2. Burner assembly upgrade

1. Isolate mains gas & electricity supplies.
2. Remove fascia panel (4 mirror caps, 4 screws)
3. Turn gas cock to 'OFF' position.
4. Disconnect union joint to gas cock.
5. Disconnect wiring in left-hand side of burner housing (2 off male/female molex connectors A & B) & earth wire (C) located above control valve **Fig. 2.1**.
6. From inside top of roast oven remove phial mounting plate & unclip phials from circlips.
7. Remove thermodial mounting bracket (2 screws) c/w thermodial attached, taking care not to damage capillary.
8. Withdraw thermodial & control valve capillaries through guide tube into burner housing. Place thermodial & bracket aside.
9. Remove 4 screws securing burner assembly to housing, and withdraw burner assembly from burner chamber.
10. Fit new burner assembly. Re-connect 'Molex' connectors & earth wire to earth tag. Ensure wiring is tucked behind front plate to LH side to prevent entrapment of wires when re-fitting fascia panel. Also ensure control valve capillary is routed to RH side of burner housing as shown in care notice.
11. Re-fit thermodial & control valve capillaries through guide tube into roast oven. Re-fit to phial mounting plate as shown in **Fig. 2.2**.
12. Re-fit thermodial mounting bracket to housing (2 screws).
13. Turn gas cock to 'ON' position.
14. Restore gas & electric supply to appliance.
15. Check for gas tightness. Refer to page 25 installation instructions for inlet & burner pressure testing.
16. Re-commission cooker. Refer to installation instructions EINS516845.

NOTE! Vent fan will run at high speed from cold start for approx 20 minutes.

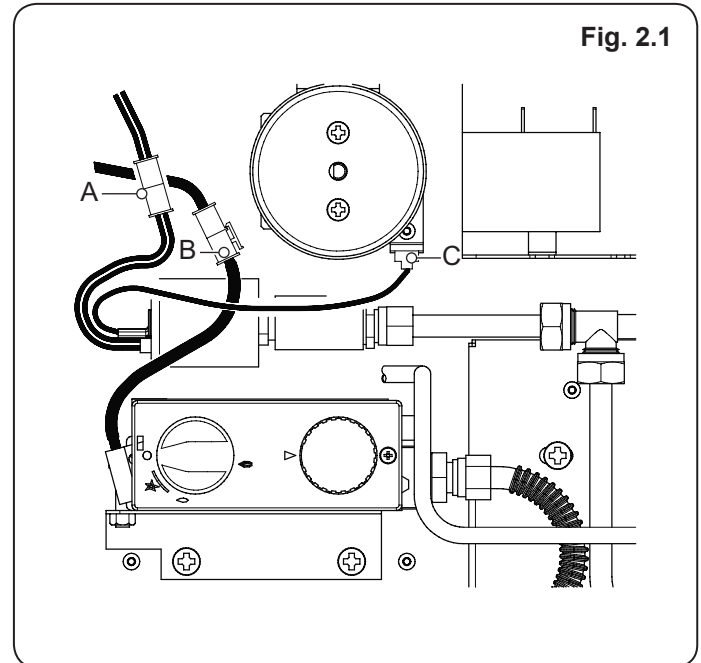


Fig. 2.1

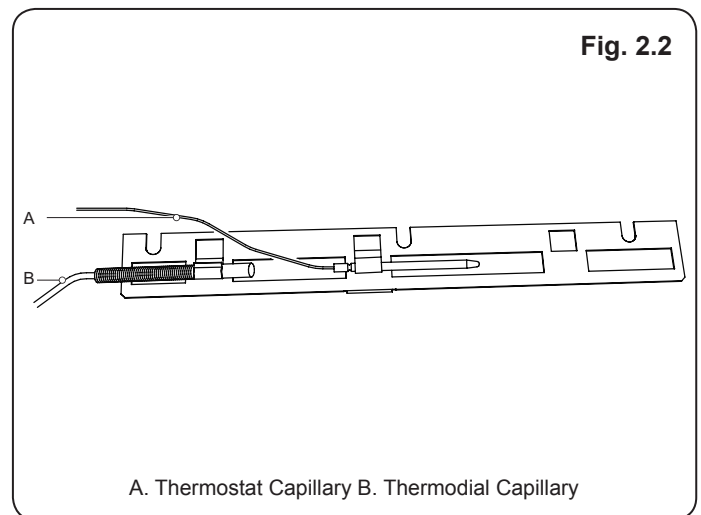


Fig. 2.2

A. Thermostat Capillary B. Thermodial Capillary

3. Care Notice

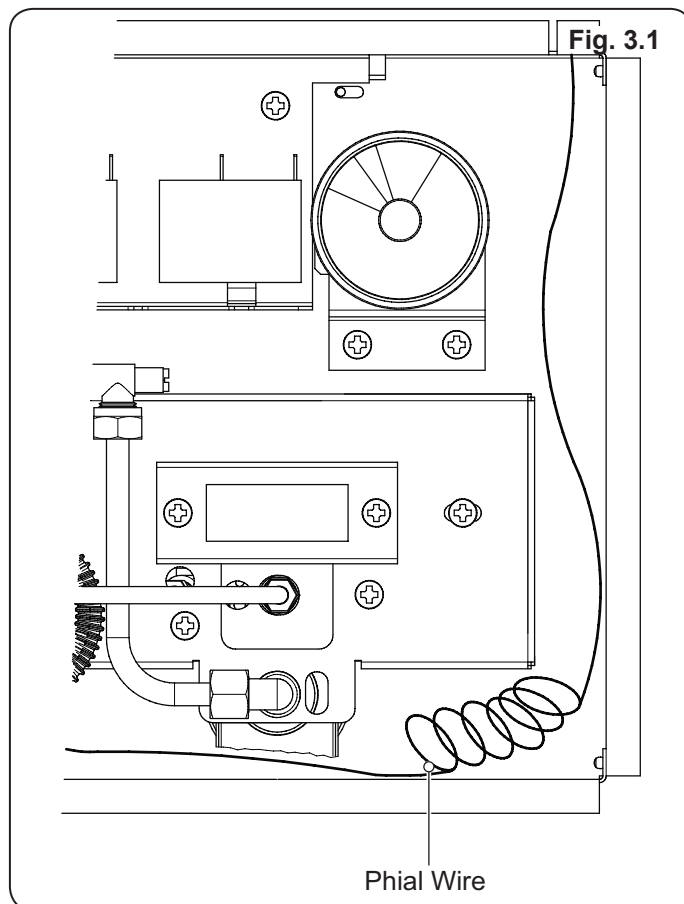
Gas valve oven thermostat phial wire

Fig. 3.1

Following assembly of gas valve thermostat phial into oven cavity, excess wire may cause an 'Electrical Shorting' problem across simmering plate thermostat terminals if routed loosely behind thermostat inside the controls assembly.

To avoid this, phial wire should be routed towards the right-hand side of the controls housing. Excess wire can then be 'coiled' and positioned toward the bottom right-hand corner of controls housing.

Similarly, the braided wire from the thermostat should also be routed toward the right-hand side of controls housing to prevent similar problems occurring.



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

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



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