

SINCE 1980

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CHIPPENDALE RESTORATIONS

26 Parsons St Rozelle

NSW 2039 Australia

WONDERFIRE

USER INSTRUCTIONS

AF18 OF: MANUAL VALVE



LEADER IN RESTORATION BUILDING SUPPLIES

WONDERFIRE

AF18 OF: MANUAL VALVE

USER INSTRUCTIONS

DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE
DO NOT USE OR STORE FLAMMABLE MATERIALS NEAR THIS APPLIANCE
DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILST IT IS IN OPERATION
ALWAYS USE A FIREGUARD WHEN OPERATING THE FIRE IN THE PRESENCE OF CHILDREN OR THE INFIRM
ENSURE THAT CURTAINS CANNOT BLOW ACROSS THE FIRE OPENING
ENSURE THAT THE CHIMNEY OR FLUE IS NOT BLOCKED
WASH HANDS AFTER HANDLING COALS OR LOGS AND ENSURE CHILDREN DO NOT HANDLE THEM AS THE COLOURING MAY CONTAIN TOXIC DYES
PRIMARILY A DECORATIVE APPLIANCE – NOT CERTIFIED AS A SPACE HEATER

GAS FITTING REGULATIONS

The installation of gas appliances is covered by gas fitting regulations in most States which specify that any gas appliance shall only be installed by authorised personnel. Installation by an unauthorised person is an offence under these regulations and could lead to cutting off of gas supply and prosecution.

LIGHTING

Please read carefully before attempting to light your fire for the first time.

Your fire is fitted with a safety gas tap, Pizzo igniter, pilot, flame failure and oxygen depletion device. To turn the fire on, ensure that the gas supply is on, turn the gas knob to (*), depress the gas knob and while still depressing the knob, push the Pizzo igniter button until the pilot is alight. Keep the gas knob depressed for 20 seconds after the pilot has lit. (The first time that the unit is used it may take longer for the pilot to light as you will have to wait for gas to fill the line). Release the gas knob and check that the pilot stays alight. If it does not, repeat the above procedure. If the pilot does not stay alight contact the supplier. Once the pilot is alight you may turn the gas control knob to the high setting (7). The fire will ignite from the pilot. If required you may now turn the gas control knob back to the pilot setting (*). The fire will extinguish leaving only the pilot on. Take care not to turn the pilot off as well. A slight resistance is felt before the fully off position. If the pilot is turned off do not try to light it for about a minute as a safety interlock times until unit has cooled down.

It is advisable that if the fire is to be left for extended periods, the gas control knob should be turned back to the off setting. To relight, follow the procedure from the beginning.

PLEASE NOTE: do not operate your fire at the maximum setting for more than a few minutes in the first eight hours following installation. This will avoid thermal shock to the coals and burner surface. The new coals may give off a burnt odour during this period. Any minor surface cracking of the burner or the coals is normal and is not a cause for concern. If you think that the burner may have been damaged by misuse or accident at any time, please call your supplier/installer for service. Before removal of any part of the fire, ensure that the fire is cold.

SERVICE

The appliance should require little maintenance. Periodically check that the chimney is drawing properly and that no debris has fallen into the appliance. If the flames are very small or the pilot not functioning, it may be due to dirt in the lines, but this must be serviced by an authorised gas fitter.



INSTALLATION INSTRUCTIONS

PRELIMINARY

- This appliance must be installed by an Authorised person.
- This appliance must be installed in accordance with the Gas Installation Code AS5601 Clauses 5.12.13.2 to 5.12.13.5.
- Installation must be in accordance with municipal Building codes, any other relevant statutory regulations as well as these instructions
- The Wonderfire Gas Log Fire is only to be used with Natural Gas.
- It is recommended that a secondary guard complying with AS 2286 be installed.
- Ensure that loose fabrics such as curtains and furniture cannot touch the appliance. It is recommended that a fire guard be used with the appliance.
- The overall dimensions of the fire is 465mm wide (front), 325mm wide (rear) x 240mm Deep x 320mm high. (See below for minimum fire place dimensions).
- The appliance may be installed in an existing open fireplace (as a Type 1 appliance), in an existing fireplace with the Wonderfire FFB fan assisted convector box (as a Type 1 appliance) or in a purpose built enclosure with the Wonderfire FFB fan assisted convector (zero clearance) box (as Type 2 appliance).
- If fitting the Wonderfire with the FFB firebox, please also refer to the Instructions for the "Wonderfire FFB"
- There must be a minimum of 50mm gap between the gasketer and any combustible materials if FFB firebox is used.

FITTING TO AN EXISTING OPEN FIREPLACE

Before installing in an existing open fireplace:

- The Wonderfire (type 1) must be installed in a fire resistive fire place with a proved draught.
- The chimney must be swept and inspected to see that it is in sound condition.
- The chimney must be a minimum size of 150x150mm if masonry or 150mm diameter if round metal flue).
- An AGA approved 150mm diameter Gas Cowl must be fitted.
- The flue or chimney of an open gas fire must be kept clear at all times. Devices which close or temporarily close the flue or chimney are not permitted. (e.g. a damper must be removed or securely disabled in the fully open position.)
- If these conditions are met the chimney should usually provide satisfactory draw. In any event, the chimney and final installation must be tested for spillage into the room. This can be done by lighting a paper fire in the fireplace (before the appliance is installed) and holding a smoking twist of paper or a smoking match by the front of the fireplace. Air conditioning vents near the fireplace may also cause spillage.
- The fireplace must be at least 470mm wide (front), 325mm wide (rear) x 250mm Deep x 400mm high to suit the Type 1 burner.
- The room must have total fixed ventilation equal to the chimney / flue area.
- Refer also to "Wonderfire FFB Convector Box" instructions if fitting a Convector Box.



Fitting the unit

- The unit should be fixed to the base of the fireplace with a screw to each front corner of the burner.

Gas

- Gas connection is to a ½" BSP male fitting connected to the RHS of the valve. It is located
- 100mm from front, 45mm up from floor and 170mm in from front RH corner of the appliance
- Thoroughly blow out the supply pipe to clear any dust and debris.
- Ensure all connections are gas tight.
- Note: Do not bring the gas supply down the active chimney.

Logs/coals

The WONDERFIRE has ceramic logs/coals and a burner designed to appear like a wood/coal fire.

- The unit is supplied with the ceramics assembled ready for operation.
- When the unit is unpacked check that no damage has occurred in transport.
- Carefully place the ceramic log/coal assembly on top of the burner making sure that it sits in place correctly.
- No other logs or coals should be added as this will adversely affect the performance of the fire.
- Wash hands after handling the ceramic base or log/coal assembly.

Commissioning

- Once the fire is fitted and connected to the gas, test the unit's operation.
- After 10 minutes operation from cold, test for fireplace spillage, i.e. all products of combustion are entering the flue, by traversing the perimeter of the opening or canopy, using a smoke generator (E.g. a smoking twist of paper or smoke match).

SERVICING DETAILS

- The following notes are to assist a serviceman in the event of a malfunction.
- **Servicing must only be carried out by authorised personnel.**
- Spare parts and advice are available from PECAN Engineering Ph 08 8349 8332.
- See also the Fault Finding chart.

To Check Burner Pressure

- Gas consumption is 35 MJ/hr - Natural Gas ONLY.
- Appliance Test point pressures:
High: Natural Gas 0.50 kPa
- The burner pressure test point is on the valve to the left. The rear test point is the supply or inlet pressure and the front point is the appliance test point.
- Remove test point plug and connect manometer. Switch the gas and appliance on. Take pressure reading once the unit is running and it should be within tolerance. Turn the unit and gas off, disconnect the manometer and replace the test point plug.
- The pilot runs off the inlet pressure and needs a minimum of 1.135 Kpa to stay alight.



To Make Pressure Adjustments

- The regulator adjusts the burner pressure. The adjusting screw is on the right hand side of the valve under the plastic front cover

GAS CONTROL

- The SIT gas control and valve is situated under the burner tray. To access; remove the logs/coals and disconnect the gas supply. Remove the burner and place upside down on a flat surface covered with old newspaper.

BURNER

- To access the burner remove the log/coals. The burner is glued in to the burner tray. Examine it for any damage and check the venturi at the rear for lint and dust. Carefully clean as required.
- Ensure that the main injector is located centrally with respect to the venturi.
- Minor cracking of the ceramics is normal and will not affect the operation of the appliance.

FAN (if the appliance is fitted in a FFB convector box)

- To remove the fan, ensure that the fan has been unplugged from the power supply, unscrew the 4 screws holding the fan to the front of the fire box. Carefully lift the fan assembly forward.
- The fan's wiring diagram is located next to the terminal block. The fuse is a 1 amp fuse.

WARNING

Improper use of this gas fire could be hazardous to health. This fire is to be used either in a WONDERFIRE FFB convector box properly installed and flued in accordance with its instructions, or a non-combustible fireplace with the chimney or flue free of any obstruction or damper.

The fireplace, hearth, chimney, flue, canopy or any other part associated with the fireplace must conform with the relevant building regulations for domestic type solid fuel burning appliances.

We strongly recommend the use of an approved fireguard whenever young children or the infirm are in the presence of a working fire.

FAULT FINDING CHART

Igniter Sparks but no Ignition	No Gas	Check supply Purge lines
Gas Ignites but goes out	Thermocouple cable loose	Tighten at rear of valve
	Thermocouple Faulty	Replace Oxypilot
	Oxypilot Air inlet blocked	Blow/clean out
	Gas pressure too low	Pilot runs off mains pressure which must be at least 1.135 Kpa
Gas will not ignite After turning off	Time safety lock in operation	Wait over a minute and retry
Flame Abnormality	Incorrect Pressure Dirt in jets or burner	Check and reset pressures Clean Jet and Burner
Low Flame	Incorrect pressure	Check and reset pressures

