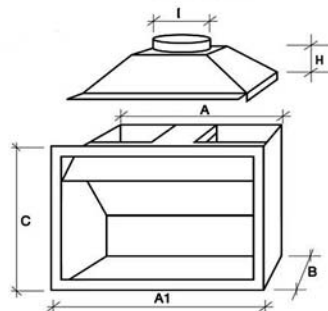


INSTALLATION INSTRUCTIONS FOR THE JETMASTER MARK 3 GAS COAL BURNER (TYPE 1).

Jetmaster mark 3 gas coal burners are a fuel effect appliances intended for use in a fireplace suitable for the burning of wood.

It is recommended that the Jetmaster gas coal be placed in a properly installed Jetmaster Convector firebox in order to ensure an adequate draught and greater efficiency.

The Jetmaster open fire is an approved open fire to burn wood. The following size fireboxes are available for the Type 1 burner to be inserted into. The firebox is able to be installed into an existing fireplace subject to the chimney being the appropriate size and in sound condition. The firebox can also be installed from new with a gasholder and a flue.



MODEL	440	500	600	700S	700D	850	1050
Height (H mm)	200	200	200	200	200	220	240
Flue Diam. (L mm)	200	200	200	200	225	250	300

Dimensions in mm

MODEL	A	A1	B	C
440	470	510	330	610
500	570	600	350	650
600*	670	700	350	650
700S*	770	800	350	650
700D	770	800	400	700
850	920	950	450	750
1050	1120	1150	500	800

Mark 3 600 Burner Suitable for model fireboxes 600 - 1050 see dimensions above.

Mark 3 700 Burner Suitable for model fireboxes 700 - 1050 see dimensions above.

IMPORTANT:

Installation of this appliance should only be carried out by an authorised person in accordance with the manufacturers instructions. All relevant codes and regulations laid down by the gas supply authorities, uniform building regulations and the requirements of local municipal Authorities must be observed.

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MODEL TYPE 1 DECORATIVE GAS COAL FIRE MARK 3 SERIES

600 gas coal mark 3	Width 590mm	Height 135mm	Depth 217mm
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700 gas coal mark 3	Width 690mm	Height 135mm	Depth 217mm
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DATA PLATE

Refer to data plate for information in respect of gas pressure and consumption. The data plate is attached to the base of the unit on a chain.

LOCATION REQUIREMENTS

1. The fireplace construction must be non-combustible and in accordance with the current Building Regulations for chimney and fireplace intended for solid fuel use.
2. The flue and/or chimney should be tested and proven to have an adequate updraft which shall be sufficient to remove all waste products of combustion. A minimum cross-sectional area of 40 000 sq mm is required with a minimum chimney flue height of 3.6 meters. The installer must satisfy himself that the fireplace is functioning properly and a smoke test is recommended. When using a Jetmaster firebox the appropriate diameter flue for the model fireplace should be used. (Note diagram Pg.1)
3. The appliance must comply with AG601 Gas Installation Code.
4. In cases where a twin walled metal flue is used and provided such flue shall comply with the clearances specified in AS2918 or manufacturers instructions in respect of clearance to combustibles.
5. In cases where a metal flue is used, such flue shall comply with the standards relating to grade, quality and thickness as are current.
6. An approved flue cowl with a minimum cross-sections of 40 000sq mm shall be affixed to the top of the flue or chimney.
7. The installer must remove or fix in an open position any damper which may be affixed to or contained in any fireplace.
8. It should be noted that the Code AS2286(Space heating appliances-secondary guards) requires a dress guard to be affixed to the appliance or fireplace.

9. Ventilation - Please see final page for specifications regarding ventilation. Note: The chimney in which the appliance is installed is not to be considered as a ventilation opening.
10. The appliance shall be installed into a fireplace with a minimum opening of 600 width and 217 mm depth and shall be no greater than 1050mm width and 400mm depth.
11. Combustible materials to be no closer than 100mm either side of fireplace opening and no closer than 150mm above the opening. The firebox should have a non combustible hearth in front of the firebox.

INSTALLATION: FITTING THE GAS GRATE

1. Check unit is suitable for intended gas supply.
2. The position of the gas control and inlet is on the right hand side. A regulator is supplied when fitting to natural gas. A gas cock must be fitted prior to the burner to enable the unit to be removed for servicing (It is recommended that the fireplace and chimney be cleaned prior to fitting the gas unit.)
3. In an existing fireplace or Jetmaster firebox (if being used) drill a 15mm hole through the right hand side of the fireplace (as you face it) at a point of 85mm from the base and 85mm from the front face.
4. Cut and debur both ends of pipe. Fit the end to the gas supply point and turn on for approximately 5 seconds to clear the pipe of any dirt or grit. Fit the other end to the gas unit.
5. The regulator supplied and attached to the appliance is for natural gas.
6. Place the vermiculite in the burner tray spreading it evenly so that it is level with the sides of the burner tray. Never place the vermiculite any higher than the sides of the tray.
7. Turn on the gas and check all connections for leaks using soapy water or approved method. Fix any leaks.
8. This appliance is approved for use only on Natural Gas and must not be converted to any other gas.

ADJUSTING PRESSURE, PILOT AND LOW FIRE

- 1) All settings are set to operate at appropriate pressures (see data plate). Test point is located on gas valve.
- 2) Check low fire if adjusted correctly.

- 3) The pressure can be measured on the gas valve and the regulator and be adjusted by turning the screws on the gas valve located either side of the test pressure points (A) and (B) (see diagram gas valve pg. 6)

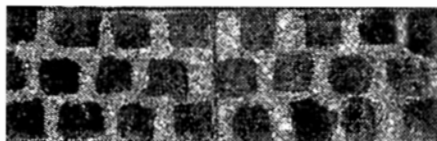
LAYING THE FIRE

Unpack the coals contained in a clear plastic bag and lay a row of coals on the vermiculite along the back of the burner tray leaving approximately 12-15mm between them. Leave spaces at the edges to allow free flow of gas. Place a further row of coals directly in front of the first row but staggered so that the second row of coals are behind the gaps of the first row leaving approximately 12-15mm between the rows of each coal. Lay further rows of staggered coals depending on the size of the basket grate. Once the bottom layer is completed, build up 2-3 tiers of coals in a honeycomb pattern to form an elongated pyramid. Lay the coals so that some irregularity to the pile through which the flames may lick, is created. Your aim is to build "windows" into the fire through which the radiant effect may show but at the same time, not leaving such large gaps between the coals that excessive air may enter and "damp down" the red glow.

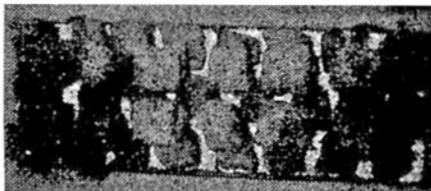
After the fire has been alight for 15 minutes, you may wish to add the odd coal or even relay the fire completely. Allow to cool before touching the coals. Experience will enable you to obtain a pleasing appearance with suitable heat output, but please bear in mind that it is important to maintain the general pattern described above and included in photographs.



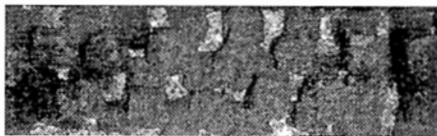
Model 600mk3. 1st layer
24 coals



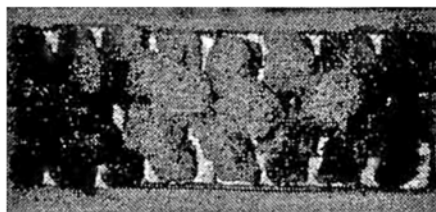
Model 700 Mk3 1st layer
24 coals



Model 600mk3. 2nd Layer
14 coals



Model 700 Mk3 2nd layer
15 coals



Model 600 mk3. 3rd Layer
4 coals



Model 700 Mk3 3rd layer
6 coals

NOTE:

Use coals supplied by the manufacturer as other coals may effect combustion performance.

LIGHTING INSTRUCTIONS: (SEE DIAGRAM)

A. Commissioning the Fire

The gas control knob is marked with positions for OFF ● PILOT MINIMUM ● MAXIMUM ● gas rate. The position selected should be placed opposite the indicating arrow. The gas control valve is fitted with a piezo spark ignition.

WARNING If the main burner or pilot is extinguished for any reason, you will not be able to relight the pilot for three minutes as there is a further safety feature built into the control valve. Do not force the control knob on the valve.

B. To Light the pilot

1. Ensure that the gas is turned on.
2. Ensure that the gas control knob is in the OFF POSITION (Fig.2A)
3. Slightly depress the gas control knob and turn anti-clockwise until the PILOT POSITION (Fig 2B) is opposite the indicating arrow.
4. Push the control knob fully in, and with it held in position, fully depress and push the end button on the piezo spark ignitor and the pilot should light. If the pilot has not lit, repeat the operation.
5. Once the pilot is lit, continue and hold in the gas control knob for a further 10-15 seconds to establish the pilot. If the pilot fails to remain alight repeat the procedure, but hold the gas control knob in for longer to allow the pilot to establish.

C. To Light the Fire

1. If the pilot is not already alight, light the pilot as described in B.

2. Slightly depress the gas control knob and turn anti-clockwise until the **MINIMUM FLAME POSITION** (Fig. 2C) is opposite the indicating arrow. The burner will then ignite.
3. Turn the control knob to **MAXIMUM FLAME POSITION** (Fig. 2D).
4. Check setting pressure on the inlet pressure test point at the maximum rate.
5. Depress and turn the gas control knob clockwise until the **PILOT POSITION** (Fig. 2B) is opposite the indicating arrow. The fire will go out and the pilot will remain lit. Remove the gauge from the pressure test point and refit the pressure test point sealing screw.
6. Turn the fire on and test for gas soundness.
7. Refit the dummy ashpan cover.

D. To Turn the Fire Off.

1. Remove the dummy ash pan cover.
2. Turn the gas control knob clockwise to the **MINIMUM GAS RATE** (Fig. 2C) position, slightly depress the knob and continue turning to the **PILOT POSITION** (Fig. 2B). The fire will go out and the pilot will remain lit and may be left on permanently.
3. Replace dummy ash pan cover

E. To Turn the Fire and Pilot Off

1. Remove the dummy ash pan cover
2. Turn the fire off as described in 1-3 D. Depress the control knob.
3. Turn to the **OFF POSITION** (Fig. 2A) and the pilot will go out.
4. Replace the dummy ash pan cover.

Safety Feature: If the pilot is turned off you will not be able to re-ignite the pilot for a minimum of 30 seconds.

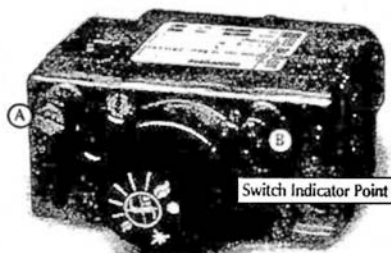


Figure 1: A: OUTLET PRESSURE TEST POINT
B: INLET PRESSURE TEST POINT



Figure 2A
OFF



Figure 2B
PILOT



Figure 2C
MINIMUM



Figure 2D
MAXIMUM

COMMISSIONING PROCEDURE.

Installed correctly the burner should not emit any fumes into the room. The following procedures should be undertaken to test that the unit is operating correctly.

- 1) After unit has been operating for a short period a smoke match, smoke tube, carbon dioxide analyser or similar should be directed at the top opening of the unit.
- 2) This procedure should be undertaken with the following conditions in the room:
 - *Open or closed windows
 - *Operation of extraction/exhaust fans, range hoods etc.
 - *Operation of other gas appliances.
 - *Operation of optional appliance fan at any speed.
- 3) Should any spillage be detected the cause must be rectified before allowing commissioning of unit.

USER INSTRUCTIONS:

1.WARNING NOTE:

Properly installed and operated this appliance will not leak gases. Persistent fume emission must not be tolerated. If fume emission does exist, then the following immediate action should be taken:

- A. Open doors and windows to ventilate room.
- B. Turn the fire off.
- C. Check for flue blockage and clear if necessary.
- D. Do not attempt to relight the burner until the cause of the emission has been identified and rectified. Should assistance or advice be required contact nearest agent or Jetmaster.
- E. The gas grate is recommended for use in a Jetmaster firebox which has been designed to ensure a proper draw and to eliminate emission spillage.
2. Initially the Jetmaster coal fire may burn with a slightly blue flame. After approximately 20 minutes the fire will settle down and burn with a yellow flame.
3. As with all gas appliances your gas coal fire should be regularly serviced. We recommend once each year. Contact your nearest Jetmaster authorised agent to provide service. The routine for an Authorised person to follow has been set out in an attached leaflet.
4. PLEASE NOTE: Only coals provided by Jetmaster should be used with this appliance.

5. "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 WHILE IT IS IN OPERATION."

PRIMARILY A DECORATIVE APPLIANCE NOT CERTIFIED AS A SPACE HEATER.

6. The appliance is a live fuel effect product designed to operate with luminous flames and may exhibit slight carbon deposition.

WARRANTY

Provided the appliance has been correctly installed according to instructions, Jetmaster guarantee the cost of replacing parts and the labour in connection therewith for a period of 12 months from date of installation. Should the appliance be subject to a service contract the replacement of the parts and the service involved in such replacement shall be at no charge to the owner and the Warranty shall be extended to 3 years (provided of course the appliance had been continuously serviced by an approved Jetmaster agent.)

Address for servicing or nearest local agent:

Jetmaster Australia Pty Ltd
10 Martin Ave.
Arncliffe 2205
Sydney

Phone: 02 95977222

Fax: 02 95977622

SPECIFICATIONS

NAME OF APPLIANCE: JETMASTER GAS COAL MARK3

MANUFACTURED BY: JETMASTER FIREPLACES AUSTRALIA PTY LTD.

CERTIFICATE NO. 4958

DATE: MAY 2001

The gas fire is a Type 1 Decorative gas coal fire with imitation coals placed over a bed of vermiculite contained within a metal tray. It is designed to fit into an existing masonry fireplace or equivalent approved open fireplace. The gas fire consists of a front grate which clips onto the front of the mild steel burner tray. A front plate is provided to cover controls.

CAPACITY

Model	Gas Type	Gas Cons MJ/H Min/Max	Injector	T.P.P.Kpa
600MK3	NG	Min54/.4kpa Max72/.7kpa	2x3.1mm	0.70
700MK3	NG	Min54/.4kpa Max72/.7kpa	2x3.1mm	0.70

OVERALL DIMENSIONS: See drawings supplied

	600MK3	700MK3
Width	590	690
Height	135	135
Depth	217	217

Weight 15kg 18kg
Front grate available for 700 MK3 at a width of 850mm

MARKING

Data plate will be affixed to the left hand side attached by a chain to leg of burner. Other details i.e. name plates, lighting instructions and temporary labels will be affixed to the inside of the front cover plate.

CONSTRUCTION

GENERAL:

The gas fire consists of a 30mm x 5mm mild steel support frame welded to two 2mm gauge folded mild steel trays which forms the burner. Two mild steel bars are welded to the front underside of the tray to allow control to be housed under the burner.

Two cast iron venturi tapered mixing tubes are welded to the base of the two trays through which gas is introduced. (see drawings for size) Gas is dispersed evenly around the burner by means of a 2mm gauge mild deflector plate. Four bolt heads are welded to the base of each tray. The plate with four 10mm holes is inserted in to the upturned bolts and secured to the base with the nuts. Clearance from base to deflector plate is 5mm.

GAS SYSTEM

Gas inlet connection: Flared $\frac{1}{2}$ " inlet and is located on the right hand side of the gas grate.

Regulator: Beckley Type A.G.A. App. No. 4688(Natural Gas)
 Bromic Type BMWF1A A.G.A. App. No.5149 Nat

Piping: 5/16" aluminium tube with flared fittings.
 Thickness of pipework is 19 gauge.
 Pilot is $\frac{1}{4}$ " aluminium 19 gauge.

Gas control:	Baby SIT manual control valve.A.G.A.Approval No.3528
Burner:	Two folded mild steel trays with deflector plates. Two cast iron venturi tapered mixing tubes are welded to the base through which gas is introduced.Wire mesh is placed over the base of the fire over the opening of the venturi.
Pilot:	S.I.T. pilot assembly Oxypilot N.G.No.9418.Oxypilot. $\frac{1}{4}$ " B.S.P. connection. Thickness of pipe is 19 guage $\frac{1}{4}$ " aluminium.Pilot located on right hand side.
Pilot Turn off Value:	Intergral with Baby Sit manual control valve.
Pressure Test Point:	$\frac{1}{4}$ " diameter nipple located on the control valve.
Injector:	Details - Section drawing.

HEATING SYSTEM.

Vermiculite:	Is varied in size. (grade 4) Average size is approximately 3-5mm in diameter.
Coals:	Coals are ceramic fibre coated with a glaze and silicate. Refer to attached drawing.
Coals measure approximately 50mm cubed.	
The coals number 45 for the 700 model and 42 coals for the 600 model.	
Arrangement of coals is in a pyramid fashion. See photographs supplied.	

Service Instructions for Mark 3

To be carried out only by an authorised person.

Symptom	Possible Cause	Corrective Action
Gas odour in room	1) Flue Blockage	1) Remove object obstructing flue.
	2) Flue height not sufficient.	2) Extend existing flue
	3) Flue diameter not sufficient	3) A 400cm sq opening is required to obtain draft.
	4) Downdraft	4) Check that an approved gas cowl has been installed.
	5) Dimension of existing fire place are not in correct proportion.	5) Insert Jetmaster firebox which has been designed to draw properly.
Gas odour in room with Jetmaster box	1) 1-4 above. If none of these.	1) Do not turn on gas fire and call Jetmaster service Department.
Gas Pilot will not light.	1) Gas cock not in open Position.	1) Turn gas cock to open
	2) Check for piezo spark	2) Make sure piezo is connected to pilot assembly.
	3) No gas	3) Check meter and regulator for gas supply.
	4) Low gas pressure	4) Check gas pressure on regulator and valve.
	5) Blocked pilot	5) Adjust pilot screw and clean.

Symptom	Possible Cause	Corrective Action
Gas fire does not turn on With pilot alight	1) Blocked injectors	1) unscrew injectors in venturi and elbow and Clean.
	2) Faulty valve	2) Replace valve
	3) Thermocouple faulty	3) Replace Thermocouple
Frequent pilot outage	1) Pilot flame may be too low	1) Clean and adjust pilot flame for max. flame impingement on thermocouple.
	2) Thermocouple faulty	2) Replace thermocouple
Flame pattern too blue	1) Unit has not been operated for long enough.	1) Operate unit for 15-20 Minutes and check.
	2) Coal lay	2) Follow coal layout in photographs. Allow greater gaps for flame impingement.
Flame on burner too low	1) Blocked injectors	1) Check injectors and clean Debris.
	2) Insufficient gas pressure	2) Check pressure at regulator and valve. Incorrect gas line size.

Address for servicing or nearest local agent contact:

Jetmaster Fireplaces Australia Pty Ltd.
 10 Martin Ave.
 Arncliffe 2205
 Sydney
 Phone: 02 9597 7222
 Fax: 02 95977622

OPEN GAS FIRES

ROOMS WITH GAS OPEN FIRES REQUIRE FRESH AIR VENTS AS PER GAS REGULATIONS

Rooms with gas open fires require fresh
air vents as per **Clause 6.10.9.5** in
AS/NZS5601.1: 2013

One or more ventilation openings with a combined
free ventilation area of not less than the equivalent
cross sectional area of the flue cowl shall be provided
for each decorative flame effect fire, and circulations
based on clause 6.4.4.