

## Inbuilt Gas Fires



# OWNER'S MANUAL & INSTALLATION GUIDE

These gas appliances have been tested in accordance with AG 103, NZS 5262 and have been certified by the Australian Gas Association for installation and operation as described in these Installation and Operating Instructions. Your unit should be serviced annually by an authorised service person.

**WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information consult an authorised technician, or your Masport Gas Fire Dealer.

**FOR YOUR SAFETY:** Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this appliance. Installation and service must be performed by authorised personnel. Please keep these instructions for further reference.

### WHAT DO YOU DO IF YOU SMELL GAS

- Do not try to light any appliance
- Do not touch any electrical switch: do not use any phone in your building
- Immediately close the shut-off valve behind the heater or at the gas meter.
- Call the technician.

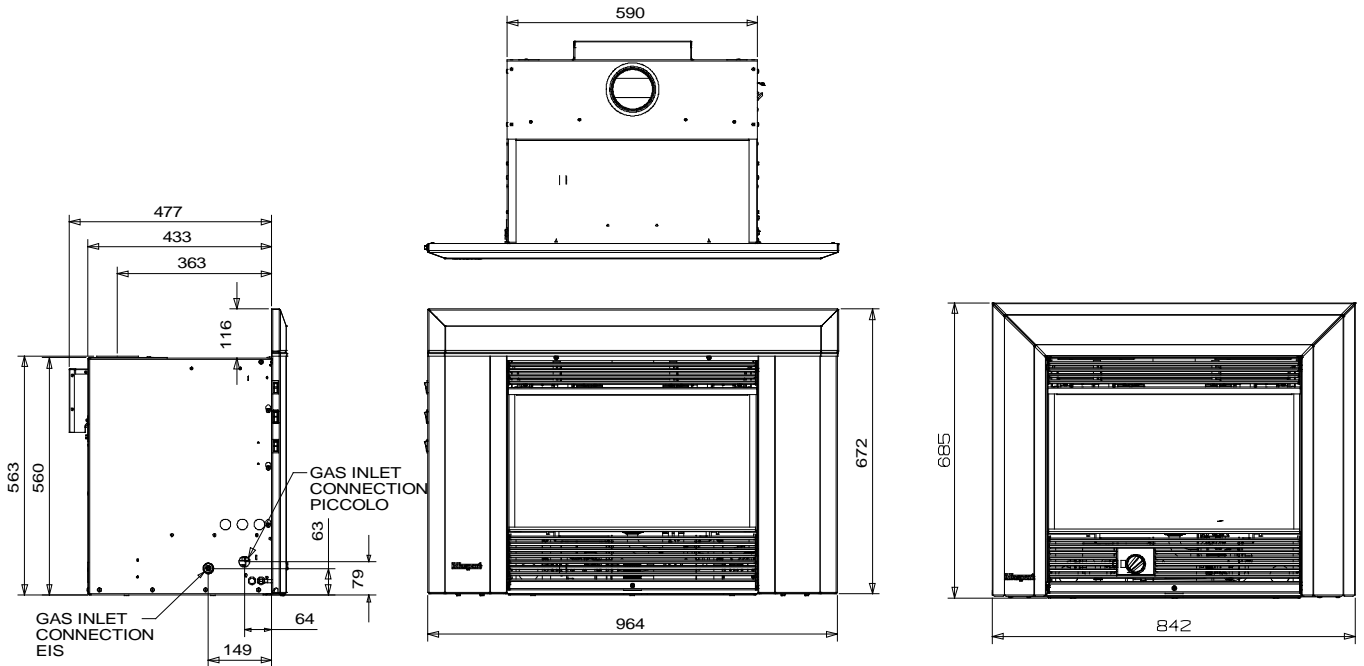
# MASPORT INBUILT GAS FIRE

## TO THE NEW OWNER

Congratulations! You are the owner of a state-of-the-art Gas Fire by Masport. The Masport Inbuilt Gas Fires have been approved by the Australian Gas Association for both safety and efficiency.

Please take time to acquaint yourself with these instructions and the many features of your Masport Fire.

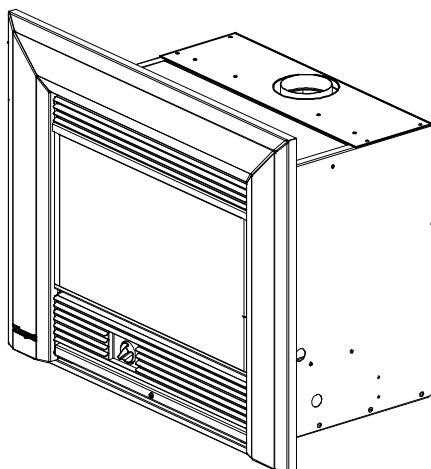
This book contains important information. Please keep it in a safe place for future reference.



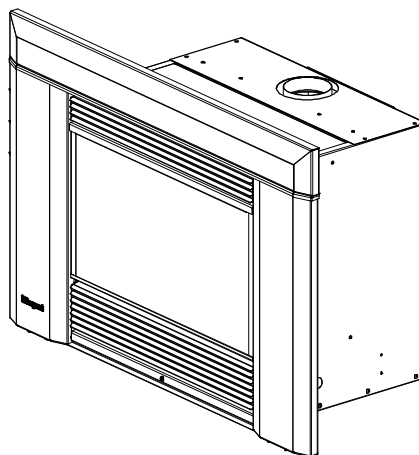
**Sofia/Madrid**

**Piccolo**

**THE INSTRUCTIONS IN THIS MANUAL APPLY TO;  
MASPORT INBUILT GAS FIRES- PICCOLO, SOFIA AND MADRID**



**Piccolo**



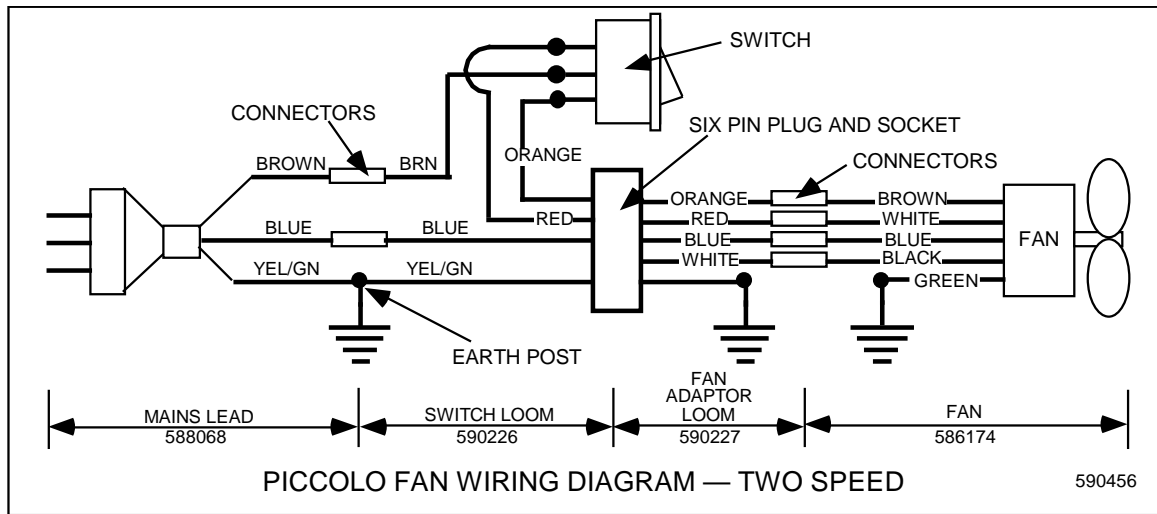
**Sofia & Madrid - EIS**

EIS => Electronic Ignition System.

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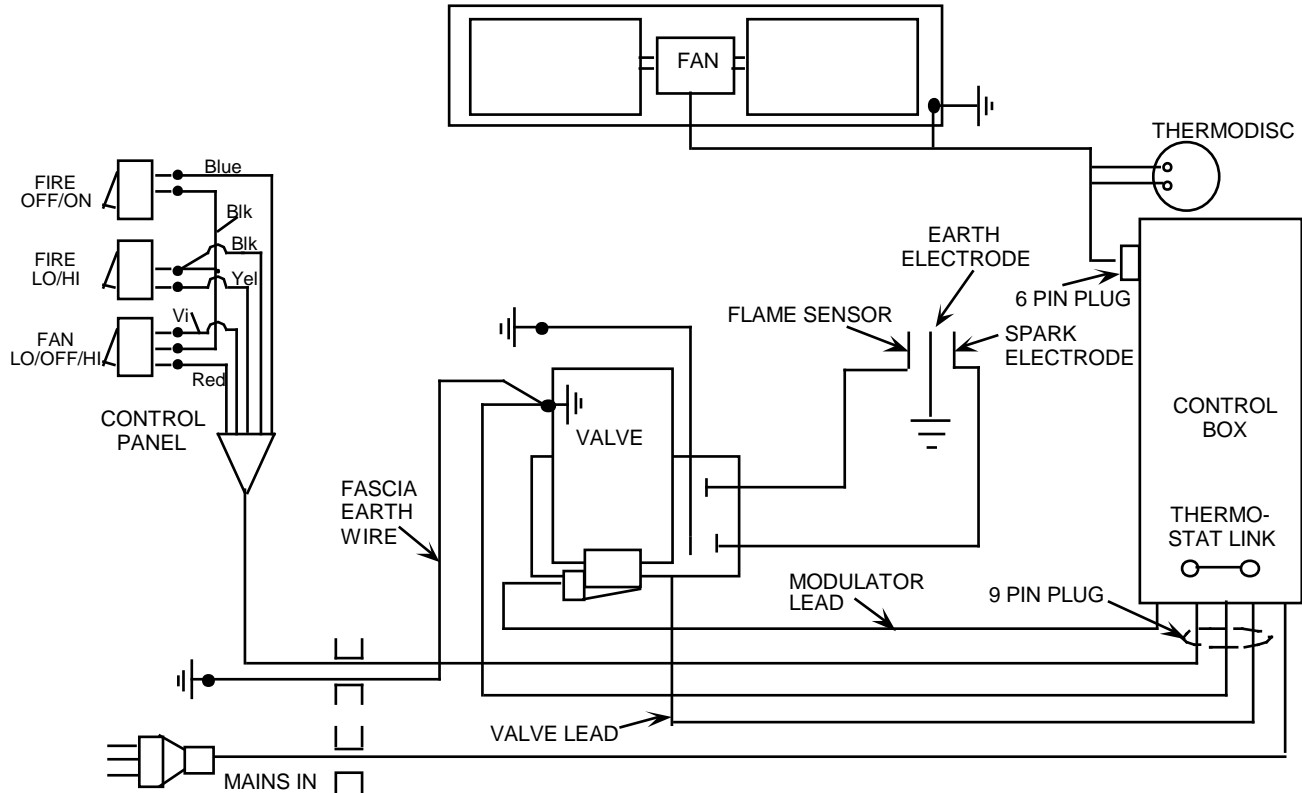
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## PICCOLO WIRING DIAGRAM



If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

## EIS WIRING DIAGRAM



If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

## **IMPORTANT: SAVE THESE INSTRUCTIONS**

The Masport Gas Fire must be installed in accordance with these instructions. Carefully read all the instructions in this manual first. Consult the "authority having jurisdiction" to determine the need for a permit prior to starting the installation.

**Note:** *Failure to follow these instructions could cause a malfunction of the heater, which could result in death, serious bodily injury, and/or property damage. Failure to follow these instructions may also void your fire insurance and/or warranty.*

### **WARNING.**

#### **Installation**

Installation *must* be carried out by a registered installer who, on completion of the installation, must issue a certificate of compliance, in accordance with national and/or local codes. If a certificate of compliance is not issued then the Masport warranty *may* be void.

#### **Warranty Repair & Annual Servicing**

Warranty repair work *must* be carried out by a recognised Masport gas fire Technician. It is *recommended* that recognised Masport gas fire Technicians are also used to carry out annual servicing requirements (particularly during the warranty period). For contact details of authorised Masport Technicians in your locality, please contact the retailer from whom the appliance was purchased.

The heater must be installed according to these instructions and in compliance with all relevant building, gas-fitting, electrical and other Statutory Regulations (eg. AS 5601 (AG-601), NZS 5261). Any shortcomings in the appliance and flue installation will be the responsibility of the installer, and Masport Ltd will not be accountable for any such failings or their consequences.

This appliance must not be installed in a mobile home.

The appliance must be checked and serviced yearly by an Authorised Technician.

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## **FOR YOUR SAFETY**

This appliance requires air for proper combustion. Always provide adequate combustion and ventilation air.

The guard is fitted to this appliance (Australia only) to reduce the risk of fire or injury from burns and no part of it should be permanently removed. For the

protection of young children or the infirm, a secondary guard is required.

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.

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## **GAS PIPE TESTING**

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve (not supplied with heater) during any pressure testing of the gas supply piping system at test pressures equal to or greater than 6 kPa.

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## **SPECIFICATIONS**

Gas Consumption: 35MJ/h

Fuel: Natural Gas or LPG  
Electrical: 230-250 volts AC system  
Fan: 2 speed  
Logs: Ceramic fibre, 6 per set

Before installation commences, check the data plate on the appliance to verify that it is the correct type to suit your gas and also that the gas consumption rate is correct for your application.

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## **IMPORTANT REQUIREMENTS**

Installation *must* be carried out by a registered installer who, on completion of the installation, must issue a certificate of compliance, in accordance with national and/or local codes. If a certificate of compliance is not issued then the Masport warranty *may* be void.

- 1) The appliance installation must conform with local codes or in the absence of local codes, to AG601, NZS5261.
- 2) The appliance must be inspected before use and at least annually by an authorised Technician. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance are kept clean and free from excessive lint.
- 3) See general construction and assembly instructions. This appliance may only be installed in a vented, non-combustible fireplace. The appliance flue should be enclosed when installed or passing through a living area, where children may come in contact with it.

- 4) Always connect this fireplace to a flue pipe terminating outside the building envelope. Never vent to another room. Make sure that the flue pipe is properly sized and is of adequate height to provide the proper draft. Use only the Masport approved flue kit.
- 5) Inspect the flue system annually for blockage and any signs of deterioration.
- 6) If the glass is removed for servicing it must be replaced prior to operating the appliance.
- 7) To prevent injury, do not allow anyone who is unfamiliar with its operation to use the fireplace.
- 8) Always turn off the gas valve before cleaning. For relighting, refer to lighting instructions. Keep the burner and control compartment clean by brushing and vacuuming at least once a year.
- 9) When cleaning the logs, use a soft clean paintbrush as the logs are fragile and easily damaged.
- 10) Clean the appliance with a damp cloth (never when unit is hot). Never use an abrasive cleaner. The glass should be cleaned with a gas fireplace glass cleaner.
- 11) Make a periodic check of the burner for proper position and condition. Visually check the flame of the burner periodically, making sure the flames are steady, not lifting or floating. If there is a problem call an authorised Technician.

## **ELECTRICAL REQUIREMENTS**

### Piccolo

No mains voltage electric power supply is required for the gas control to operate, but a 240-Volt AC supply is required for the fan. Plug the 3-pin plug and lead into a suitable receptacle. Do not cut the earth terminal off under any circumstances.

### Sofia & Madrid

Mains voltage electric power supply is required for the gas control to operate on these models. A 240-Volt AC power cord is connected to the control system. Plug the 3-pin plug into a suitable receptacle. Do not cut the earth terminal off under any circumstances.

When connected with 240 volts, all appliances must be electrically earthed in accordance with local codes.

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## **INSTALLATION SEQUENCE**

The Masport Gas Insert is installed in the steps as listed below. Detailed instructions follow.

- 1) Check the clearances to ensure that the fire will fit the fireplace recess and clearances to combustibles will be maintained. (Also check ventilation requirements.) See page 7.
- 2) Prepare the fireplace recess. The base of the fireplace **must** be levelled by for example grouting to prevent vibration from possible fan imbalance. The base of the gasfire must be sitting on this flat surface. See page 7.
- 3) Install the flue or flexi-liner in accordance with AG 601 or NZS 5261, refer to instructions provided with the Masport flue kit.
- 4) Install the gasfire into the fireplace recess and connect to the flue system. See page 8.
- 5) Make the gas connection (see page 8) and the electrical connection.
- 6) Assemble and install the fascia and switches (on the EIS models). See pages 9 & 10.
- 7) Remove the glass or window assembly and install the embers etc. See page 11 & 12.
- 8) Re-install the glass or window assembly. See pages 11 & 12.
- 9) Install louvres or grilles.
- 10) **Final check:** Before leaving this unit with the customer, the installer must ensure that the appliance is firing correctly. This includes:
  - a) Checking the injector pressure. See page 12.
  - b) Adjusting the primary air, if required, to ensure that the flame does not carbon on the components.
  - c) Ensuring that the flue is drawing correctly.
  - d) Instructing the customer in the correct operation of the appliance.
  - e) Leaving these instructions with the customer.
  - f) Issuing a certificate of compliance.

# INSTALLATION PROCEDURE

For safe installation the following matters must be attended to;

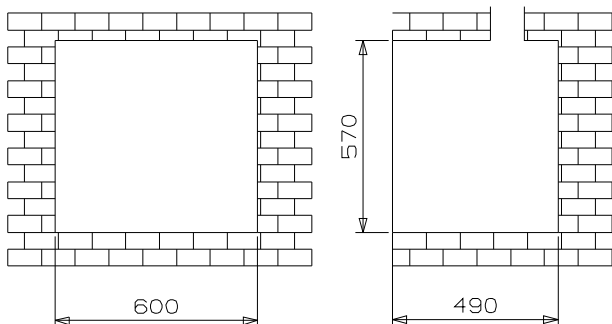
- The fireplace and chimney must be thoroughly cleaned and checked for soundness.
- The chimney must not connect to a solid fuel-burning appliance.
- The fireplace recess must have a non-metallic heat resistant surround (eg. masonry) extending at least 520mm each side of the recess centerline and up at least to the mantel above the fireplace recess.
- A flue pipe or flexiliner must be fitted right up the chimney and exit at the top and be terminated with an approved gas cowl.

## **CLEARANCES**

**All Masport heaters are tested to New Zealand and Australian standards. Clearances are for fire hazard only. For durability of finishes and surfaces you should contact the relevant manufacturer for their specification. Masport accepts no responsibility for the deterioration of surfaces or finishes.**

The minimum fireplace recess for the Masport Inbuilt Gasfires is shown in the following diagram:

### **Masonry fireplaces**



Measure the fireplace recess and remove bricks as necessary to accept the firebox outer case. Clear away any loose rubble and inspect before installing the fireplace.

For shallow fireplace recesses an optional deep fascia is available which reduces the 490mm to 390mm.

### **NON MASONRY FIREPLACE RECESS (ZERO CLEARANCE INSTALLATION)**

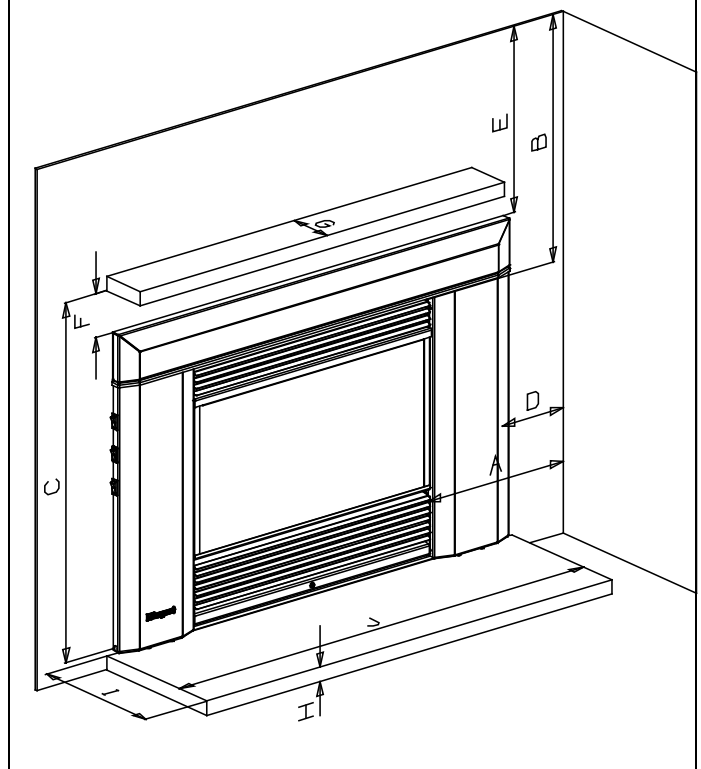
A Zero Clearance Kit is available which allows installation when no masonry fireplace is available.

### **Minimum Clearances to Combustibles (mm)**

Fascia Type;	EIS (Shown)	Piccolo
<b>(From Unit)</b>		
<b>Sides A</b>	225	225
<b>Ceiling B</b>	1400	1400
<b>Mantel C</b>	1000	1000
<b>(From Fascia)</b>		
	<b>(672 x 964)</b>	<b>(685 x 842)</b>
<b>Sides D</b>	37	99
<b>Ceiling E</b>	1288	1275
<b>Mantel F</b>	328	315

The following are for both Fascia options;

<b>Maximum Mantel Depth</b>	<b>G</b>	305
<b>Minimum Hearth Height</b>	<b>H</b>	0
<b>Minimum Hearth Depth</b>	<b>I</b>	300
<b>Minimum Hearth Width</b>	<b>J</b>	965



*NOTE: Mantel clearances and hearth requirements for Installation into a Zero Clearance Kit are different from those listed here for masonry recess installation. Please refer to the Zero Clearance Kit Manual for details.*

## FLUE SYSTEM

**THE APPLIANCE MUST NOT BE CONNECTED TO A CHIMNEY SERVING A SEPARATE SOLID FUEL BURNING APPLIANCE.**

This appliance is designed to attach to a 100mm diameter type B-Vent or approved flexi-liner or listed gas fuel type flue liner running the full length of the chimney. A minimum flue height of 3.6m is recommended and it may be necessary to extend beyond this. B-Vent flue must be supported by a flue support - supplied by flue manufacturer. The Masport Insert incorporates its own internal draft hood, so no additional external draft hood is required.

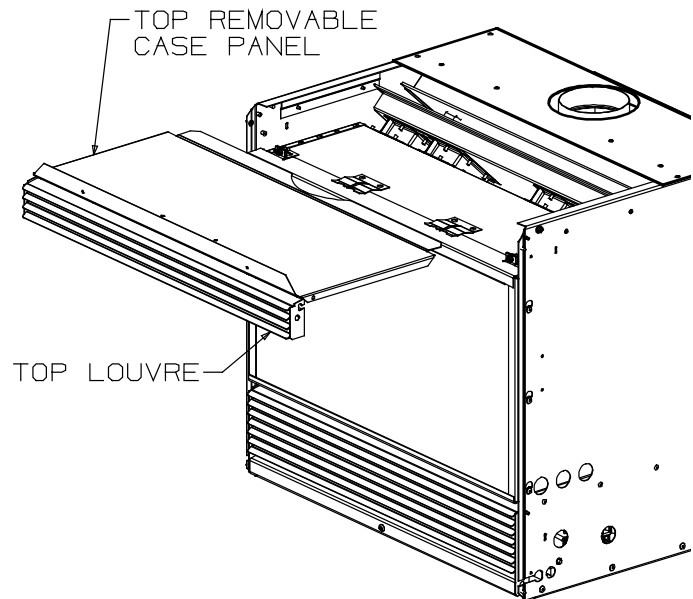
Periodically check that the flue is unrestricted and an adequate draft is present when the unit is in operation.

Install to AG 601, NZS 5261 or local codes.

### **Fire Installation**

- 1) Remove the top and bottom louvres or grilles. These lift up and then out. The bottom one has a centre retaining screw, which must be turned 90° anticlockwise first. (When refitting, simply press the screw in to secure the louvre or grille).
- 2) Slide the fireplace into the recess and adjust the case position so that it is level and its front top flange is in line with the face of the fireplace surround. Where seismic restraint is necessary, screw the bottom of the case to the base of the fireplace recess. The base of the fireplace **must** be levelled by for example grouting to prevent vibration from possible fan imbalance.
- 3) If space above the case for positioning and fixing the flue is limited, greater access can be provided by first removing the top louvre or grille by lifting it upwards and outwards.
- 4) Then remove the 2 screws holding the top sliding panel, one is located at each side of the fire. The top front section of the case can now slide out as illustrated to increase access.
- 5) Attach the flue to the flue spigot. The flue spigot of the appliance will fit inside a standard flue and may be fastened directly to the flue by sheet metal screw or a B-Vent, single wall flue connector (not available from Masport).
- 6) Once the flue is connected, reassemble the fire.

**Note: Final gas connection should be after unit is in place to avoid damage to line when pushing the unit into position.**



### **Combustion and Ventilation Air**

**WARNING: This appliance needs fresh air for safe operation and must be installed with provisions for adequate combustion and ventilation air available to the room in which it is to be operating.**

Air for combustion is drawn in through the front of the unit; therefore, this area must be kept clear of any obstructions.

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## **GAS CONNECTION**

### **GAS CONNECTION WARNING:**

Installation *must* be carried out by a registered installer who, on completion of the installation, must issue a certificate of compliance, in accordance with national and/or local codes. If a certificate of compliance is not issued then the Masport warranty *may* be void..

The gas connections are a 3/8" flare for New Zealand & 1/2" flare for Australia.

When connecting the gas, ensure that the control valve or pressure regulator is not twisted during this procedure (such damage is not covered by Masport warranty).



# FASCIA INSTALLATION

## Sofia & Madrid EIS Models

- 1) Lay the fascia panels face down on something soft to prevent them from being marked.
- 2) Align the bottom flange of each side panel with the corresponding end of the bottom rail. Using the self-tapping screws provided, attach the bottom rail to the bottom flanges of the side panels. Tighten the screws only loosely at this stage. See Fig 1.

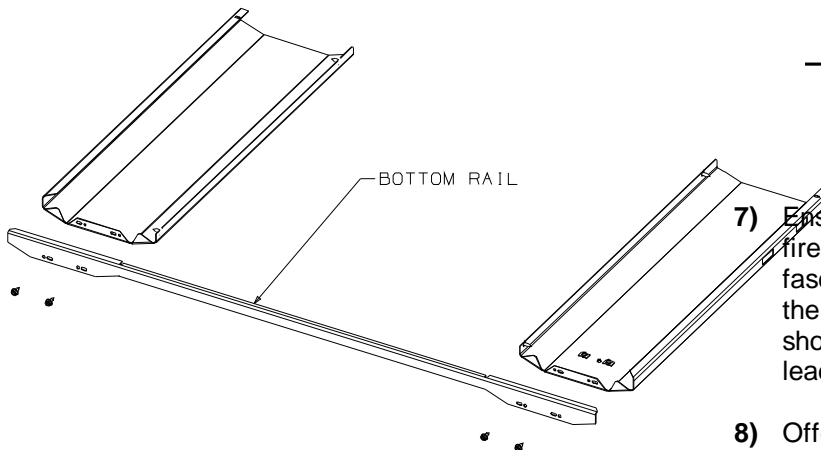


Fig 1.

- 3) There are three switches supplied with the fascia. If they have not already been assembled, insert them in the rectangular holes in the left side of the left fascia panel. The FAN switch (three terminals) goes in the bottom hole either way up, the burner HI/LO switch (two terminals with no printing on the rocker) goes in the centre hole with the two terminals at the bottom, while the ON/OFF switch (two terminals) fits in the top hole with the terminals at the top. (See Fig. 2).

- 4) Connect the fan wires, red, violet and black, to the bottom fan switch, in the following positions. (See Fig. 2).

- Black wire to centre terminal,
- Red wire to bottom terminal,
- Violet wire to top terminal.

- 5) Connect the burner HI/LO wires, yellow and black, to the centre switch in the following positions. (See Fig. 2).

- Black wire to top/centre terminal,
- Yellow wire to bottom terminal.

- 6) Connect the burner ON/OFF wires, blue and black, to the top switch in the following positions. (See Fig. 2).

- Blue wire to upper terminal,
- Black wire to lower terminal.

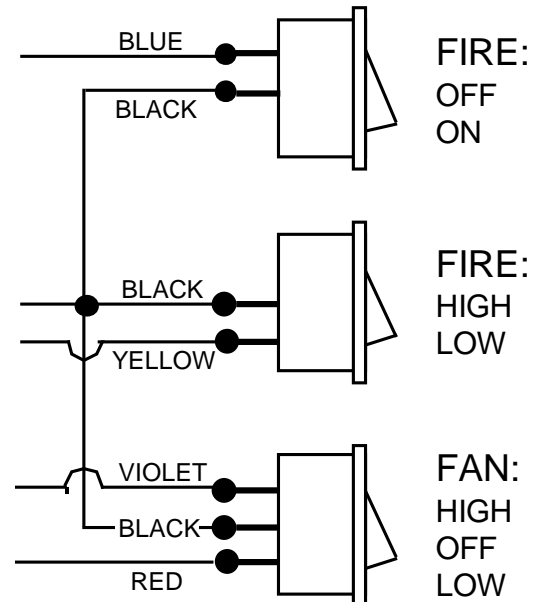


Fig 2.

- 7) Ensure that the wires are away from the side of the fireplace. The power cord should be run behind the fascia panel and out through the slot in the side of the fascia. The rubber grommet on the power cord should be inserted into the slot to protect the mains lead against possible damage.

- 8) Offer the fascia assembly up to the case to obtain the correct width for the side panel spacing keeping the inside flanges of each panel on the inner side of the mounting flange of the fireplace. Carefully remove the assembly and tighten the screws fastening the bottom rail to the side panels.

- 9) Offer the fascia assembly up to the case once more and connect the green earth wire to the tab on the control valve then secure the fascia through the two holes on the inner edges of each fascia side panel using the self tapping screws provided. See Fig 3.

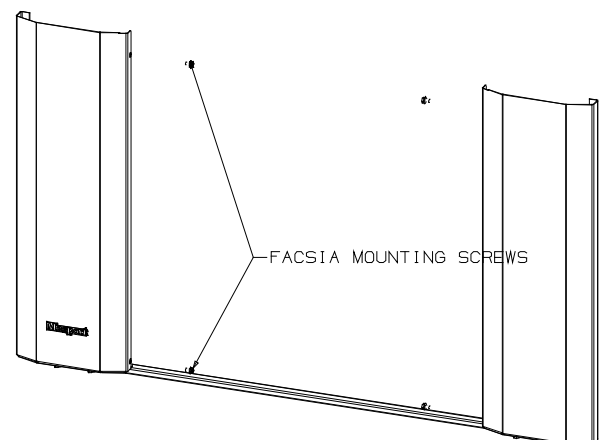


Fig 3.

- 10) Lower the top panel assembly into place with the locating prongs pointing down so that they fit inside the top edges of each side panel. Fasten the top

panel to the case through the two holes in the lower flange of the top panel assembly. See Fig 4.

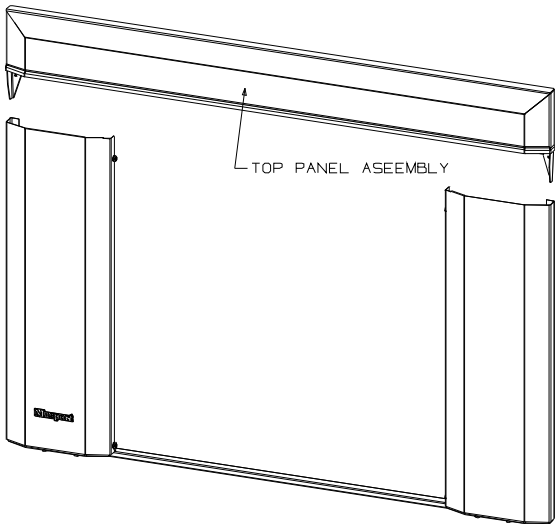
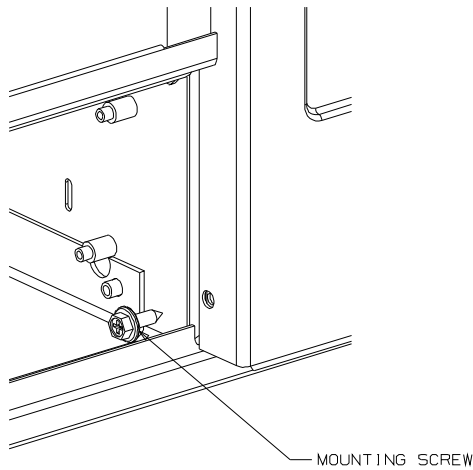


Fig 4.



## Piccolo Fascia

- 1) Lay the fascia panels face down on something soft so they don't scratch.
- 2) Take the top panel and align the holes at its ends with the holes in the side panels. Using the flat head screws provided, attach the side panels to the top panel (the holes in the top panel are slotted to provide fascia width adjustment). See Diagram 1.

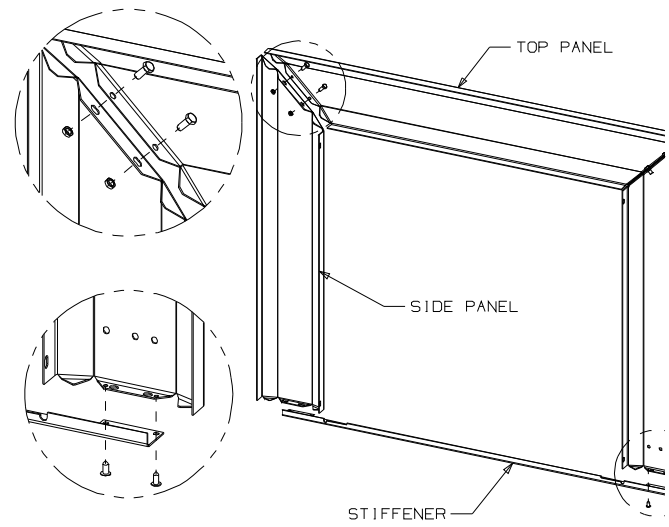


Diagram 1  
Rear View

Do NOT tighten the screws completely at this point.

- 3) Next the Fascia stiffener is attached to the Fascia using the screws provided. See Diagram 1.
- 4) If not already fitted push the Masport logo badge into the holes in the bottom left corner of the fascia and attach it using the clips provided. See diagram 2.

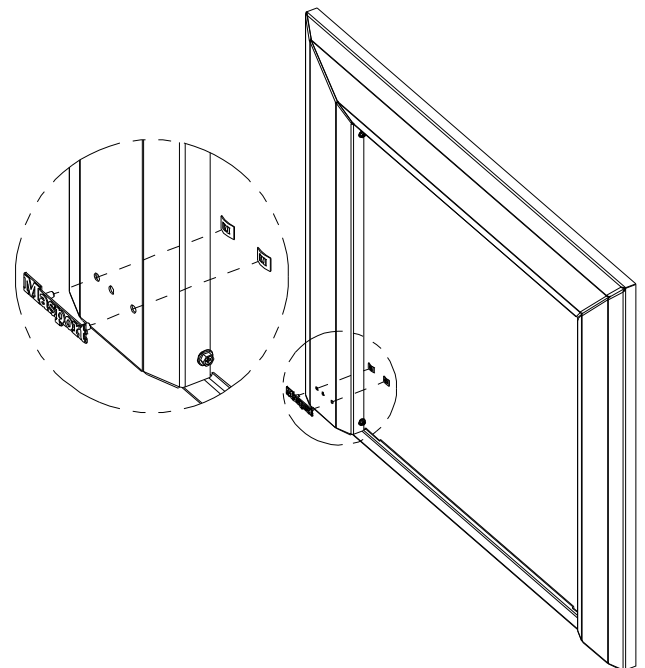
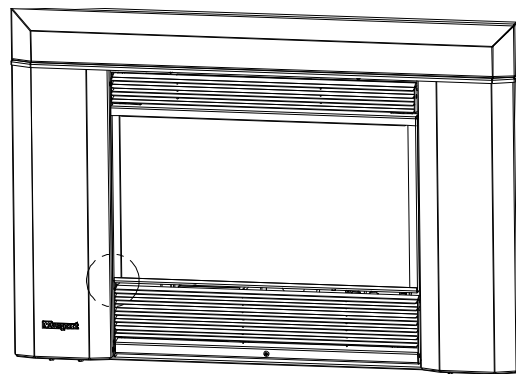


Diagram 2

- 5) Offer the fascia into position on the unit and adjust until it fits correctly. Remove the fascia carefully and tighten all the screws
- 6) The power cord should be run behind the fascia panel and out through the slot in the bottom of the fascia. The rubber grommet on the power cord should be inserted into the slot to protect the mains lead against possible damage.

**Note:** There is no fan switch on the Piccolo as it is a single speed fan.

- 7) Attach the assembled fascia to the case using the 4 remaining screws.



INSERT SCREWDRIVER TO LIFT TRIM.

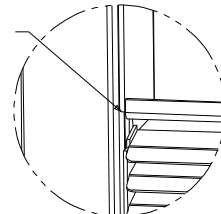
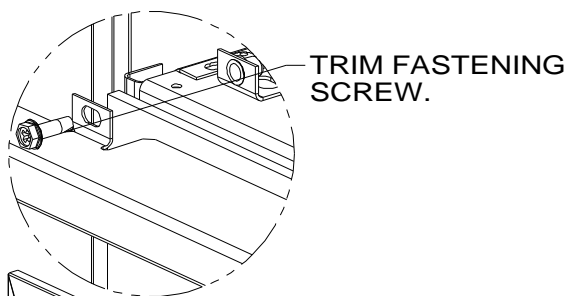


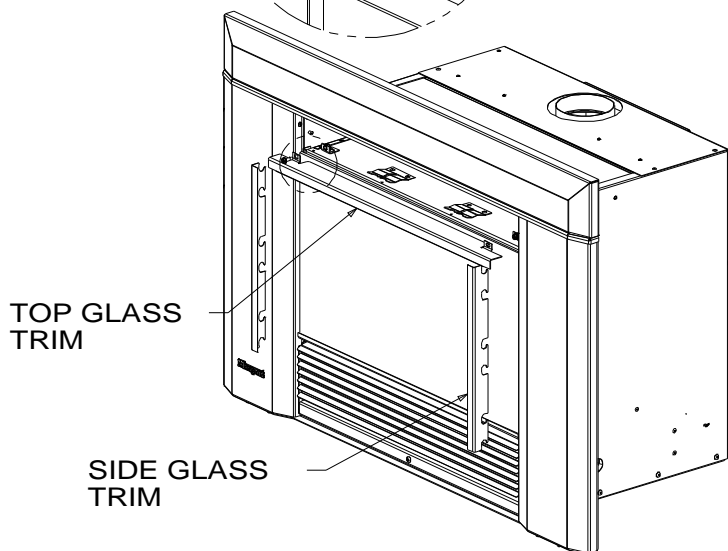
Diagram 2

## FLUSH FRONT GLASS REMOVAL

- 1) Remove the top louvre by lifting it upwards and outwards to clear the retaining pins.
- 2) Remove the two trim fastening screws, one at each end of the top trim as per the diagram below and remove the top glass trim.



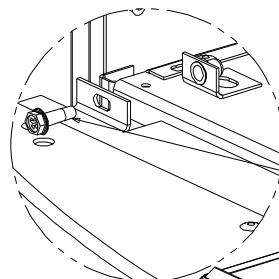
TRIM FASTENING SCREW.



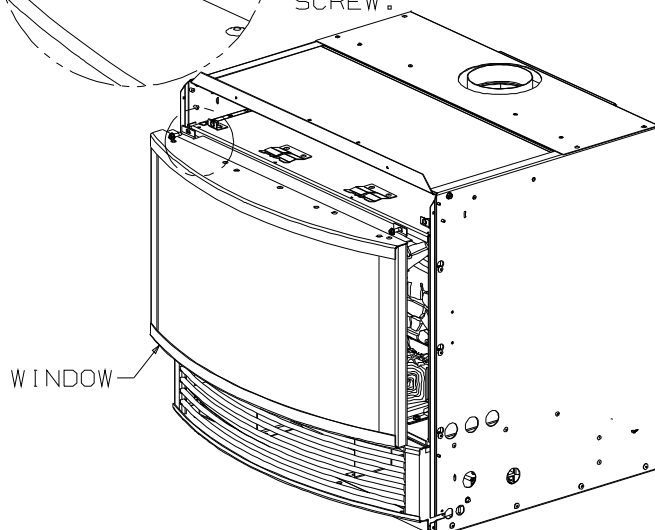
- 3) Remove the 2 black cover trims one at each side of the glass by lifting them upwards and then out. Refer to diagram 2. Pull the top of the trim forward before the bottom.
- 4) This will now free the glass for removal from the fire and give access to the logs, burner etc.

## BAY FRONT REMOVAL

- 1) Remove the top grille by lifting it upwards and outwards to clear the retaining pins.
- 2) Release the bottom grille retaining screw one quarter turn anticlockwise and remove the bottom grille by lifting it upwards and outwards to clear the retaining pins.
- 3) Remove the two window fastening screws, one at either end of the window as per the diagram below.



TRIM FASTENING SCREW.



- 4) This will now free the window for removal from the fire by swinging the top outwards slightly and lifting the bottom edge clear of its retaining channel. This will give access to the logs, burner etc.

## LOG & EMBER PLACEMENT

- 1) Once either the flush or bay windows are removed as per the above instructions the embers can be placed in the fire.
- 2) Inspect the logs before ember installation. If the logs are broken, do not use the fire until they are replaced. Broken logs can interfere with the pilot operation, combustion, etc.
- 3) LOG IDENTIFICATION
  - 790338 - Rear log, mounting centres - 340 mm
  - 990339 - Left Centre log, mtg. centres - 115 mm
  - 790356 - Left Front log, mtg. centres - 93 mm
  - 790341 - Right Lower log, mtg. centres - 122 mm
  - 790342 - Right Upper log, length - 245 mm
  - 790343 - Centre log, length - 255 mm

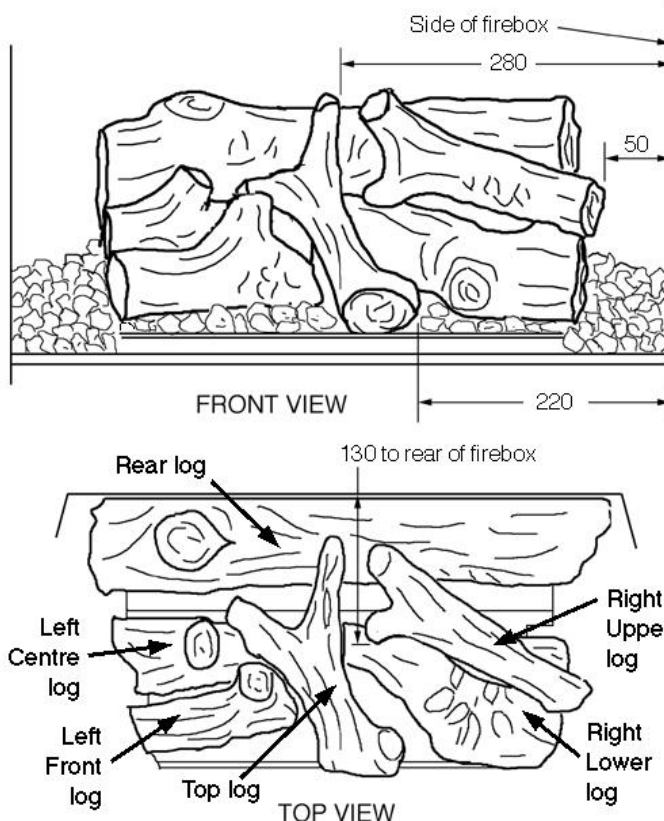
Fit the first four logs on their mounting posts on the gas burner in the following order:-

1. The Rear log
2. The Left Centre log
3. The Left Front log
4. The Right Lower log

Place the right Upper log on top of the hollow in the right Lower log as illustrated, maintaining the 130 dimension shown to the rear of the firebox.

Place the Top log, positioned as shown with its butt end sitting against the raised front lip of the burner. Verify the correct distances to the right side of the firebox.5.

### LOG POSITIONS



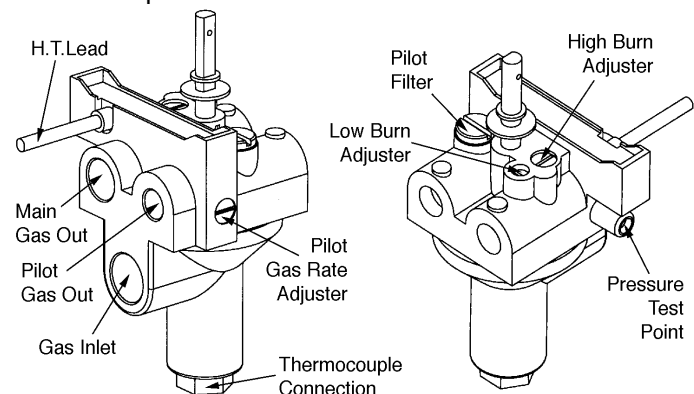
- 4) Spread embers between and under the logs no further than 50 mm back from front lip of burner and also on the floor of the firebox at each side of the burner. **Do NOT block the ventilation slots in the burner.** Embers can be placed down the sides to hide the black steelwork etc.
- 5) Re-install the flush or bay window. Do not operate the appliance with the window removed.

## GAS PRESSURE TEST

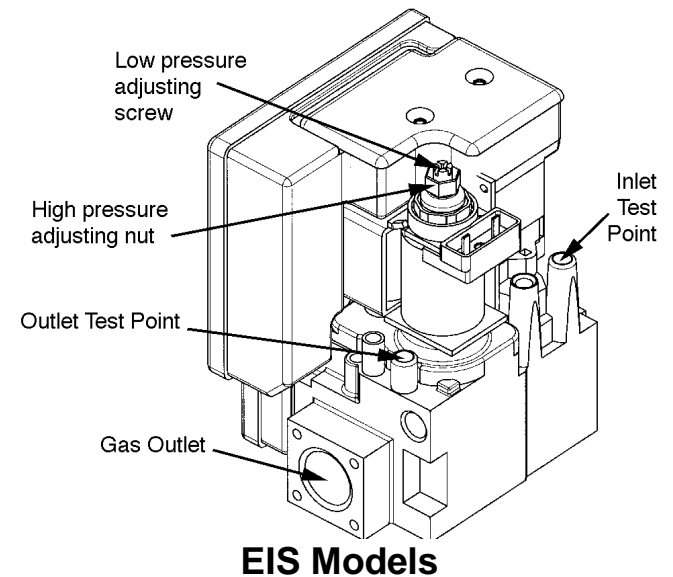
The unit is preset to give the correct gas input at the specified injector pressures shown on the label. The maximum injector pressure is:

Gas Type	Piccolo		EIS	
	Low	High	Low	High
Natural Gas	0.30kPa	0.75kPa	0.35kPa	0.82kPa
Propane	0.90kPa	2.10kPa	1.00kPa	2.30kPa

The injector pressure is controlled by a regulator built into the gas valve on EIS models. The Piccolo has a pressure regulator separate from the valve. In **all** cases, when adjusting the pressure, check it at the outlet pressure test point **on the valve**. The pressure check should be carried out with the unit burning and the correct pressures are shown above.



### Piccolo



### EIS Models

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## OPTIONAL WALL THERMOSTAT INSTALLATION (EIS Models only)

A wall thermostat may be installed if desired.

Note: It is preferable that the thermostat be installed on an interior wall.

Use an approved thermostat, rated for use with 24V systems. Connect the thermostat to the terminals at the front of the control box (behind the bottom louvre or grille) in place of the jumper wire already installed there.

Masport Part Number  
791360 Programmable/Digital Wall Thermostat

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## OPTIONAL REMOTE CONTROL INSTALLATION (EIS Models Only)

Use the Optional Masport Remote Control Kit approved for this unit. Use of other systems may void your warranty.

The remote control kit comes with a hand held transmitter, a receiver and a wall mounting plate.

- 1) Choose a convenient location on the wall to install the receiver and the receptacle box (protection from extreme heat is very important). Run wires from the appliance to that location. (Do **NOT** install the receiver install behind the louvres or grille).
- 2) Connect the two wires to the terminals at the front of the control box (behind the bottom louvre or grille) in place of the jumper wire already installed there. (Refer to instructions supplied with the remote control for detailed installation instructions)

Masport Part Number  
791397 Remote Control Thermostat (RF)

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## OPERATING INSTRUCTIONS

Before operating this appliance, proceed through the following checklist.

- 1) Read and understand these instructions before **operating** this appliance.
- 2) Check to see that all wiring is correct and enclosed to prevent possible shock.
- 3) Check to ensure there are no gas leaks.
- 4) Never operate the appliance with the glass removed.

- 5) Verify that the flue and the flue cap are unobstructed.
- 6) Verify log placement. If the pilot or ignition electrodes cannot be seen when lighting the unit - the logs or the embers have been incorrectly positioned.
- 7) The unit should never be turned off and on again without a minimum of a 60-second wait.
- 8) Each time the appliance is lit, condensation will fog the glass. This condensation is normal and will disappear in a few minutes as the glass heats up.

DO NOT USE THE HEATER WITH THE GLASS  
ASSEMBLY REMOVED.

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## LIGHTING PROCEDURE

### Piccolo

**IMPORTANT: The gas control knob cannot be turned from "PILOT" to "OFF" unless it is partially depressed.**

- 1) If the control knob is in the "OFF" position proceed to Step 4.
- 2) Push in gas control knob and turn clockwise to "OFF". Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in. Do not force.
- 3) Wait five minutes to allow gas that may have accumulated in the main burner compartment, to escape. If you do smell gas, follow the instructions on the front of this manual. If you don't smell gas continue on to the next step.
- 4) Push in and turn the gas control counter clockwise to "IGN".
- 5) The piezo igniter will click as a spark jumps across the terminals at the pilot. It may be necessary to repeat this several times before the pilot ignites if there is air in the pilot light pipeline. The pilot is located at the right, inside the firebox behind the front log. When the pilot lights continue to hold the control knob in for approximately 15 seconds, then release it. The pilot flame should continue to burn. If the pilot does not remain lit, repeat this operation, allowing a longer period before releasing the gas control knob.
- 6) With the pilot flame established, turn the gas control knob fully anticlockwise to ignite the burner. The flame height can then be adjusted as required by turning the knob clockwise.

## **EIS Models**

Assuming that there is a gas supply to the valve and that the mains power is switched ON, the operating sequence is as follows:-

- 1) The on/off switch on the LH side of the fascia is switched to the "ON" position. This is the top switch.
- 2) If the thermostat loop is in place across the thermostat terminals, a 24 V signal will go to the relay, which closes and sends a mains signal to the igniter module to initiate the ignition sequence.
- 3) About 3 seconds after the ignition module is activated, there will be a continuous spark at the ignition electrodes.
- 4) If there is no spark, the On/Off switch needs to be cycled to reset the ignition module at which time it will repeat the ignition cycle.
- 5) If the spark stops before the burner ignites, again the On/Off switch needs to be cycled to reset the ignition module at which time it will repeat the ignition cycle. Sometimes, with a new installation, it will take several attempts to give sufficient time to bleed air out of the pipeline.
- 6) As soon as the burner lights, the flame sensor will signal the high-tension spark to stop.
- 7) The flame height can be controlled with the middle rocker switch on the LH side of the fascia. Note that flame size only changes between high and low.
- 8) While the fan speed can be pre-selected at this time, using the lower rocker switch, the fan will not start until the firebox has reached a reasonable working temperature. The fan will start automatically once this has been attained. (Usually about 10 minutes, depending on the flame height).

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## **SHUTDOWN PROCEDURE**

### **Piccolo**

- 1) Push the knob in momentarily and rotate clockwise to the pilot position. To extinguish the pilot, push the knob in and turn clockwise to the "OFF" position. Do not force.
- 2) Disconnect all electric power and gas to the appliance if service is to be performed.

### **EIS**

- 1) Use the top rocker switch to turn off the main burner.

- 2) Use the bottom rocker switch, if desired to turn off the fan immediately. If not manually switched off the fan will automatically turn off once the appliance has cooled to a point where no more useful heat can be produced.
- 3) Disconnect all electric power and gas to the appliance if service is to be performed.

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## **THE FIRST FEW FIRES**

The first few fires in your stove are part of the curing process. When first operated, the unit will release an odour and the flames will appear orange caused by the curing of the paint, the burning off of the starch in the gas logs and the oils on the metal.

After several fires the starch in the logs may show as a deposit inside the glass. If this film is not removed it will bake on and may become very difficult to remove. When the glass is cold, remove it (see page 11) and clean the inside with a non-abrasive cleaner.

**DO NOT ATTEMPT TO CLEAN THE GLASS WHILE IT IS HOT. NEVER OPERATE THE UNIT WITH THE GLASS REMOVED.**

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## **FAN OPERATION**

Note: It is possible to use the fire with the fan not going although for better air circulation and heat discharge area temperature reduction using the fan is recommended.

### **Piccolo**

The fan operates by using the rocker switch on the left-hand side of the fascia. To adjust the desired fan speed, operate the rocker switch. The fan has 2 speeds, a high speed for more rapid air movement and a low speed. The fan should not be used until the fire is up to operating temperature, approximately 10mins. The fan can be left running after the fire has been shut down until it is circulating no more useful heat.

### **EIS Models**

The fan operates by using the bottom of the 3 rocker switches on the left-hand side of the fascia. To adjust the desired fan speed, operate the rocker switch. The fan has 2 speeds, a high speed for more rapid air movement and a low speed.

NOTE: EIS models are fitted with a thermodisc fan control. This means the fan will operate only when the heater is up to operating temperature (approximately 10 minutes from start on high burn) and will stop automatically once the heater has cooled down. This is particularly useful when a thermostat is fitted, as the fan will not be running unnecessarily. Because the

thermodisc is fitted, it is not necessary to operate the switch on the fascia. It can be kept permanently on at the desired speed setting. The fascia switch overrides the thermodisc if it is set in the central "off" position.

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## NORMAL OPERATING SOUNDS OF GAS APPLIANCES

It is possible that you will hear some sounds from your gas appliance. This is perfectly normal due to the fact that there are various gauges and types of steel used within your appliance. Listed below are some examples, all are **normal operating sounds** and these should not be considered as defects in your appliance.

### Fan:

Masport gas appliances use high tech blowers to push heated air further into the room. It is not unusual for the fan to make a "whirring" sound when ON. This sound will increase or decrease in volume depending on the speed setting of your fan.

### Burner Tray:

The burner tray is positioned directly under the burner and logs and is made of a different gauge material from the rest of the firebox and body. Therefore, the varying thicknesses of steel will expand and contract at slightly different rates, which can cause "ticking" and "cracking" sounds. You should also be aware that as there are temperature changes within the unit these sounds would likely re-occur, again, this is normal for steel fireboxes.

### Pilot Flame (Piccolo Only):

While the pilot flame is on it can make a very slight "whisper" sound.

### Gas Control Valve:

As the gas control valve turns ON and OFF, a dull clicking sound may be audible, this is normal operation of a gas regulator or valve.

### Unit Body/Firebox:

Different types and thicknesses of steel will expand and contract at different rates resulting in some "cracking" and "ticking" sounds being heard throughout the cycling process.

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## GENERAL MAINTENANCE INSTRUCTIONS

1) Keep the burner and control compartment clean by brushing and vacuuming at least once a year. Always turn the gas valve to OFF before cleaning. When cleaning the logs, use a clean soft paintbrush, as the logs are fragile and easily damaged.

- 2) Clean the appliance, glass and louvres with a damp cloth only when it is cold. Never use an abrasive cleaner. The gold louvres will be scratched if abrasives are used to clean them. The heater is finished in a heat resistant paint and should only be refinished with heat resistant paint (not with wall paint).
- 3) Keep the area near the appliance clear and free from combustible materials, petrol and other flammable vapours and liquids.

**WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURE AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.**

**CAUTION: ANY SAFETY SCREEN OR GUARD REMOVED FOR SERVICING AN APPLIANCE MUST BE REPLACED PRIOR TO OPERATING THE APPLIANCE. (Australia only)**

**CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLIANCE.**

- 4) Periodically check the pilot flames (Piccolo only), there should be three strong flames (approx. 19 mm long) - 1 flame to the rear burner, 1 to the ignition electrode and 1 to the thermocouple.

If you have an incorrect flame pattern, contact your Masport dealer.

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## SERVICING INSTRUCTIONS

**(Routine maintenance schedule)**

**Servicing must be carried out only by authorised personnel.**

Your Masport heater must be checked yearly by an authorised Technician. This periodic maintenance should cover the following points:-

- 1) Keep the burner and control compartment and any air entry points clean by brushing and vacuuming. Always turn the gas valve to OFF before cleaning. When cleaning the logs, use a clean soft paintbrush, as the logs are fragile and easily damaged.
- 2) Make a periodic check of burner for proper log position and condition. Visually check the flame pattern of the burner periodically, making sure the flames are steady, not lifting or floating.
- 3) The appliance and flue system must be inspected before use and thereafter annually to ensure that the flow of combustion and ventilation air is not

obstructed. During the annual service call, the burner should be removed from the burner tray and cleaned. Replace the embers but do not block the air slots.

- 4) Clean the fan of any lint or foreign matter.
- 5) After the above steps, check the pilot flames (Piccolo only), there should be three strong flames approx. 19 mm long - 1 flame to the rear burner, 1 to the ignition electrode and 1 to the thermocouple.
- 6) Check the operation of the thermostat (if fitted) by turning its control point above and below ambient room temperature and checking the response of the fire.

Other points to be checked after completing the above:-

Thermocouple generation

Gas consumption rate

Carbon dioxide content in the combustion products

Flue operation.

## Log Replacement

The unit should never be used with broken logs. Turn off the gas valve and allow the unit to cool before removing the glass to carefully remove the logs. The pilot light generates enough heat to burn someone. If for any reason a log should need replacement, you must use the proper replacement log. The position of these logs must be as shown in the diagram on page 12.

**Note: Improper positioning of logs may create carbon build-up and will alter the unit's performance. Malfunctioning due to improper log placement is not covered under warranty.**

## Glass Gasket

If the glass gasket requires replacement use 25mm flat glass gasket for the Flush Front, Masport part number 786774 or 10mm flat glass tape for the curved window Masport part number 790229.

## Gold-Plated Trim

The 24-carat gold plated finish on the trim requires little maintenance, needing only be cleaned with a damp cloth. DO NOT use abrasive materials or chemical cleaners, as they will harm the finish and void the warranty. **Clean any fingerprints off before turning the unit on. If the top louvres start to discolour, check the glass gasket seal and replace if necessary.**

## Glass Replacement

Your Masport stove is supplied with high temperature, 5 mm Neoceram ceramic glass that will withstand the highest heat that your unit will produce. In the event that you break your glass by impact, purchase your replacement from an authorised Masport dealer only, and follow our step-by-step instructions for replacement.

### Bay Glass Removal

- 1) Remove the window from the unit (refer to removal instructions on page 10) and place on a soft surface to prevent scratching.
- 2) Remove the nuts holding the glass retainers in place.
- 3) Remove the glass retainers.
- 4) Replace the glass.
- 5) Reverse the previous steps, replace the retainers and fasten with the nuts but do not over tighten, as this can break the glass.
- 6) Refit the window to the fire and check the seal.

### Flush Glass Replacement

Remove the glass by following the instructions on page 11. Fit the new glass, replacing the gaskets if necessary.

## Fan Maintenance

If your fan requires maintenance or replacement, access to the fan is through the plate on the rear wall of the firebox.

**Note: The unit MUST NOT be operated without the fan access panel securely in place.**

### To remove fan:

- 1) Turn the unit and/or pilot off and allow it to cool to room temperature.
- 2) Unplug or disconnect the power source to the fire.
- 3) Remove glass front (see page 11).
- 4) Remove logs and embers (see page 12).
- 5) Remove the burner (2 screws at the front, refer to diagram over page).
- 6) Loosen the screws securing the rear fan access panel in place. Lift and withdraw the panel passing the keyhole slots over the screw heads.
- 7) Remove the fan-shipping nuts.

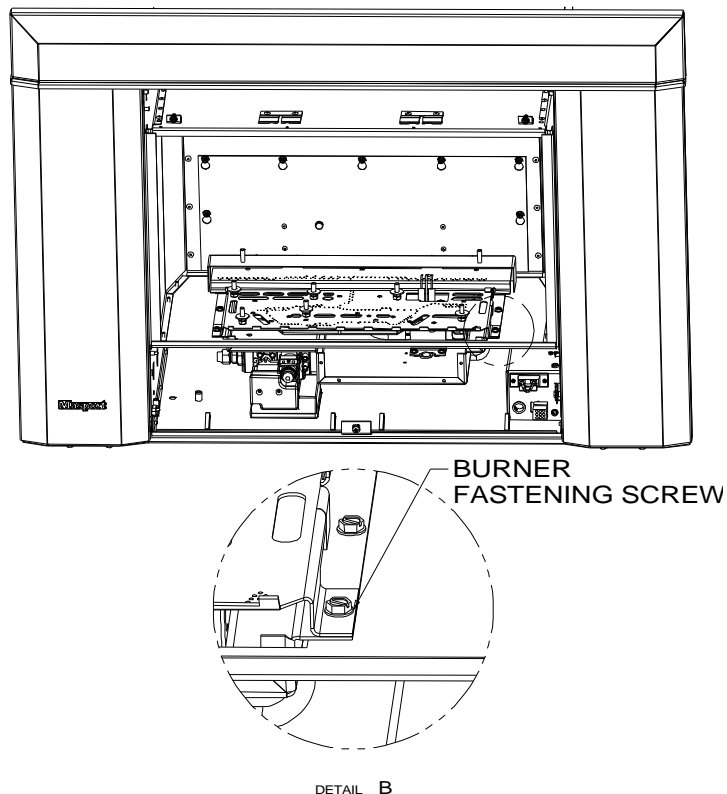


- 8) Unplug the fan lead from the plug on the control box (EIS models). On Piccolo models the mains lead will need withdrawing with the fan or unplug the individual wires.
- 9) On EIS models remove the screws holding the thermodisc bracket or disconnect the two push on connectors at the thermodisc.
- 10) On Piccolo models, disconnect the wires at the earthing post on the rear wall just above the fan motor.
- 11) Lift and withdraw the fan assembly from its mounting pins on the base of the fire. The fan will come out through the access panel.
- 12) Reassemble in the reverse order.

### NG to LP Conversion (EIS Models):

**This conversion must be carried out by a qualified Technician. If in doubt do not attempt this conversion!**

- 1) Turn the unit off.
- 2) Unplug or disconnect the power source to the fire.
- 3) Remove the glass front (see page 11).
- 4) Remove the logs (see page 12).
- 5) Remove the 2 screws holding the burner assembly to the burner tray as below. Push the burner to the left and lift out.
- 6) Access is now available to the brass main injector. A 13mm spanner will be required to remove the injector, the elbow behind the injector will also need to be held to avoid twisting the pipe work. Remove the main injector and discard.
- 7) Reinstall the new LP injector marked "1.7" and tighten. Again avoid twisting the pipe work.
- 8) Reinstall the burner. Ensure that the aeration shutter on the burner is fully open.
- 9) Reverse steps 4), 3) & 2).
- 10) Check for gas leaks.
- 11) Reset high and low pressures refer to page 12.
- 12) Check operation at high and low settings.



### CLEANING INSTRUCTIONS

The outside of the fascia and glass should need no more than an occasional wipe with a damp cloth to remove any dust which may have settled.

All gas appliances incorporating a live fuel effect and designed to operate with luminous flames may exhibit carbon deposition, particularly if the combustion air entry slots under the heater are obstructed or the aeration air inlets are clogged with lint. Any other lifting, floating or lighting back should be checked by a recognised Masport gas fire Technician.

After a period of time the inside of the glass may require cleaning. To do this, carefully remove the glass (See Glass Removal and Assembly, page 11), and clean the inside surface with a non-abrasive cloth and a non-scratching type household cleaning liquid.

Replace the parts as detailed on page 11, keeping fingerprints off the inside glass surfaces. No other user maintenance should be necessary. If you require any other service or adjustments, contact your Technician or Dealer.

## TROUBLE - SHOOTING

The following table lists possible problems and their likely causes. Most of these will require a professional serviceman and we recommend that this work be performed by an Authorised Installer. If a problem cannot be solved after referring to this table, please call your Masport gas fire Dealer for help.

PROBLEM	POSSIBLE CAUSE(S)	SOLUTION
Pilot will not light, and Piezo igniter does not give a strong blue spark.	Faulty electrode wire connection(s).	Make sure connections are firm, check wire.
Pilot will not light even though there is a strong blue spark.	Incorrect lighting procedure.	Follow the instructions in this manual.
	No gas supply at heater.	Check for closed gas valve(s) or faulty gas supply lines.
	Pilot filter or jet blocked.	Replace filter in control valve - clean jet.
	No fuel in LPG system.	Replenish LPG supply.
Burner will not light (EIS models).	Thermostat (if fitted) is switched to OFF or set to a low temperature.	Check thermostat setting. Switch to ON or turn to a higher temperature.
	Thermostat defective, or thermostat wiring to heater is faulty.	If wiring is undamaged and the connections are sound at each end, thermostat may need replacing.
Smell of flue gas in the room.	Flue gas spilling from the draught diverter at the rear of the heater.	Check for flue blockage, negative air pressure in the room or circumstances causing down draught.
Smell of gas in the room.	Pipe fittings may be leaking.	Check all joints for leaks, including the gas supply system, the pilot light supply tube, the main burner supply tube and all connections to the control valve and pressure reducing valve (Piccolo models). Use ONLY a proper leak check solution. NEVER USE AN OPEN FLAME TO CHECK FOR LEAKS

PROBLEM	POSSIBLE CAUSE(S)	SOLUTION
A thin coating of black soot forms inside the glass.	Combustion air supply restricted.  Over-supply of gas.  Logs or embers out of position.	Clean all primary and secondary air passageways. Adjust gas delivery pressure at test point. Arrange logs/embers correctly.
A white coating forms inside the glass.	Residues in new logs being burned off.	Follow glass cleaning directions under Cleaning Instructions.
Fan hums but there is poor air circulation.	Dirty fan impeller	Disconnect electrical power. Remove and clean fan impeller.
Fan will not run.	No power to fan.	Make sure fan plug is firmly home and that fan switch is not in the OFF position. Check that the power socket works with another appliance.
	Thermodisc not activated (EIS models)	Wait until heater achieves working temperature.
Ignition spark continues after the fire has lit. (EIS models only)	Phase and Neutral connections reversed in the house power supply.	Get a qualified person to correct the house wiring.

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## ANNUAL SERVICE RECORD

DATE	SERVICE DETAILS	SERVICED BY

**INSTALLED BY:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**Masport Gasfires are manufactured in New Zealand by  
MASPORT LTD. 1/37 MT WELLINGTON HIGHWAY.  
P.O. Box 14-349 Panmure, Auckland New Zealand.  
A.G.A. Approvals:  
Piccolo, Sofia & Madrid - All Certificate No 6361.**