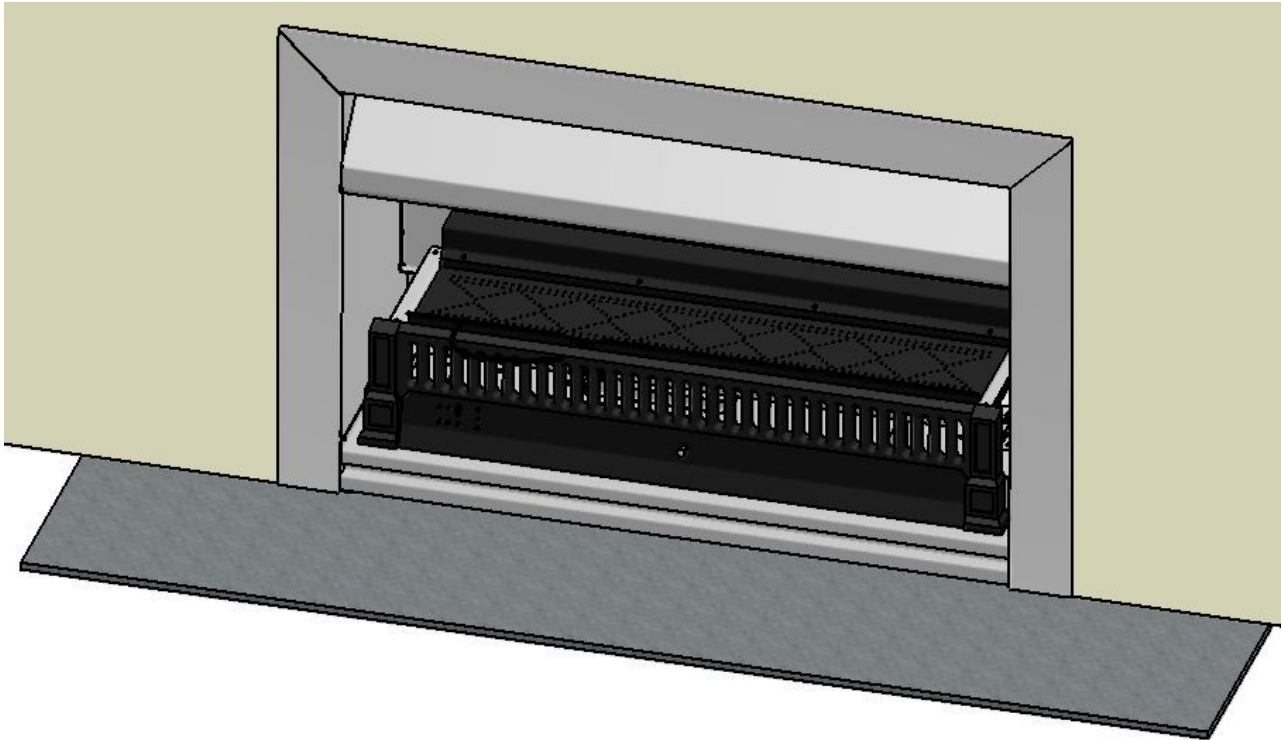


# *SG to EG Burner Change Over*

## **GAS OPEN FIRE'S SG to EG Burner Installation Guide Only**



### Related documents

**Fire and flue system installation, and instructions to comply with NZS 5601.1:2013, 3645.1(Int):2010, 3645.2(Int):2010, 5266:2014, 2918:2001.**

**The fireplace is constructed and tested to comply with NZS 4558(int):2013 “Decorative gas log and other fuel effect appliances”.**

Keep these instructions for further reference. Ensure that you have the correct and current installation details for the Warmington fireplace.

### Installation

The Warmington unit is to be installed by a certified Warmington installer or an approved NZHHA installation technician.

See [www.homeheat.co.nz/members](http://www.homeheat.co.nz/members) for a certified NZHHA SFAIT Installer in your area.

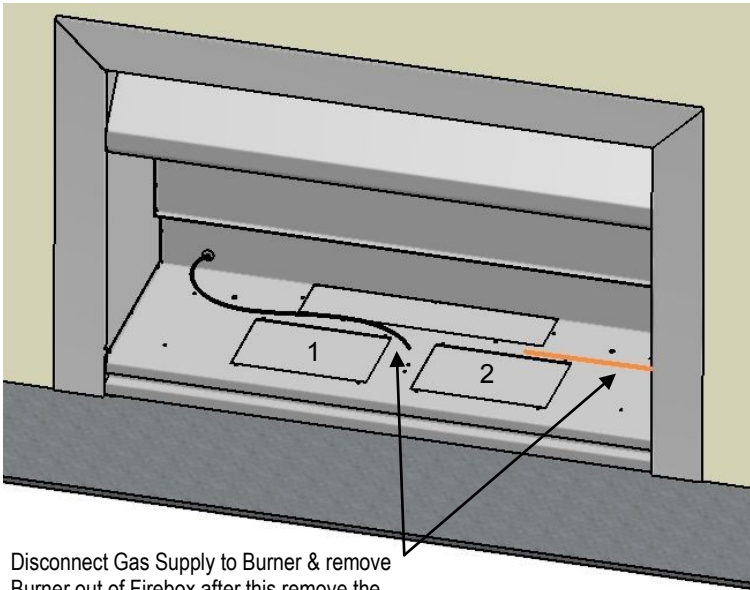
A licenced certified gas fitter and licenced electrician are required to run power and gas supplies as required to the unit and any commissioning as part of the installation process. The heater must be installed according to these instructions and in compliance with all relevant building, gas fitting, electrical and other statutory regulations.

### IMPORTANT

Read all the instructions carefully before commencing the Installation. Failure to follow these instructions may result in a fire hazard and void the warranty

**CHANGING OVER A SG BURNER TO A EG BURNER**

**STEP 1 : DISCONNECT & REMOVE FP SG BURNER FROM FIRE**



Disconnect Gas Supply to Burner & remove Burner out of Firebox after this remove the Fan Assembly & cut or disconnect 3 Core Power Cable to Fan .

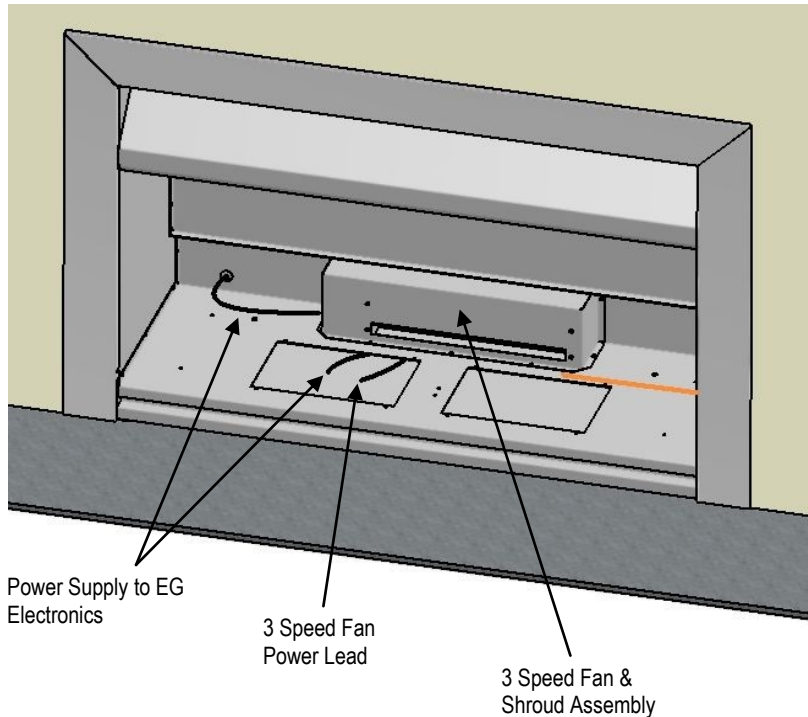
**STEP 1a : Remove Existing SG Burner & Fan Assembly .**

Ensure Gas & Power to the Appliance is turned off , remove Coals/Logs , Vermiculite , & Front Burner Grate , then disconnect Gas Supply to the Burner at the Manual Igniter Control . Remove the SG Burner from the Firebox & then remove the Fan Shroud Assembly , the power supply for the Fan will now become the Power Supply to the EG Burner Setup .

**STEP 1b : Break Out 2 Front Breakout Panels .**

Break Out (1 & 2) Front Breakout Panels inside Firebox to accommodate the EG Burner Electronics supplied . The Back Fan Breakout Panel should already be removed , if this is not removed then break that panel out also .

**STEP 2 : FIT 3 SPEED FAN ASSEMBLY & WIRING IN FIREBOX**



Power Supply to EG Electronics

3 Speed Fan Power Lead

3 Speed Fan & Shroud Assembly

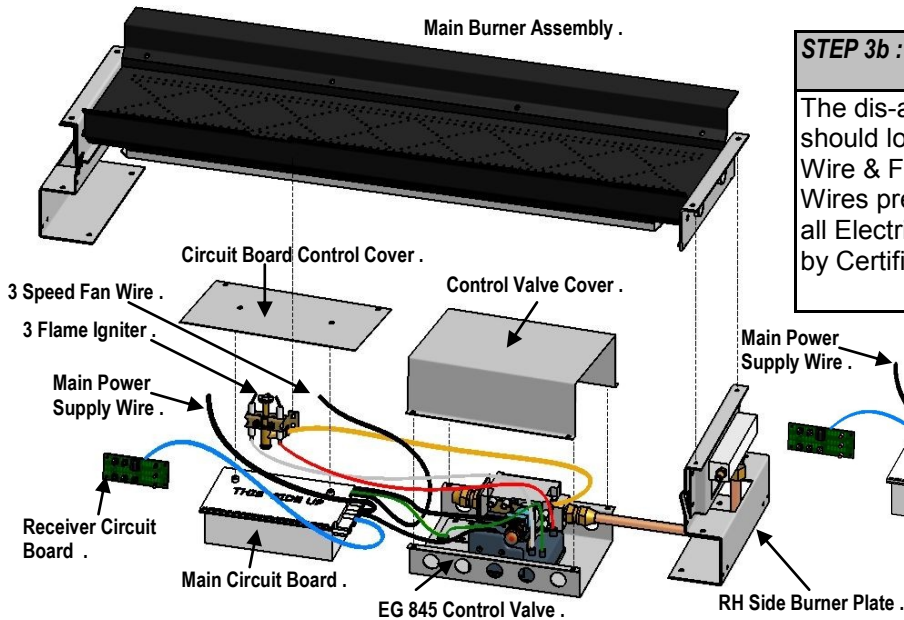
**STEP 2 : Fit 3 Speed Fan Assembly**

Before fitting the Fan Assembly you will need to disconnect it's lead from Circuit Board from it's packaging - take note where the connection's inside the Circuit Board is located before disconnecting & mark or memorise its location . Fit the Fan in place using self tapping screws supplied & ensure to run the Power Supply Cable & Fan Cable in & down underneath the Fan Shroud & under Breakout Panels as shown above , this will help with connection into the Circuit Board in the next few steps . There is also a Power Lead Supplied from the Circuit Board which can also be joined to existing Power Supply inside Firebox .

**STEP 3 : DIS-ASSEMBLE PACKAGED ELECTRONICS & BURNER**

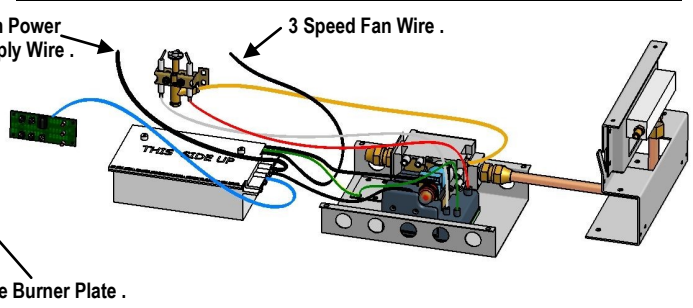
**STEP 3 a: Dis-assemble Packaged parts as shown .**

Dis-assemble Main Burner Assembly from RH Side Burner Plate then remove the EG 845 Control Valve Cover & EG Main Circuit Board Control Cover . Take care to avoid any kinking of the Copper Pipe work . You can also disconnect the Blue Cable from the Receiver Circuit Board at the back for ease of Installation

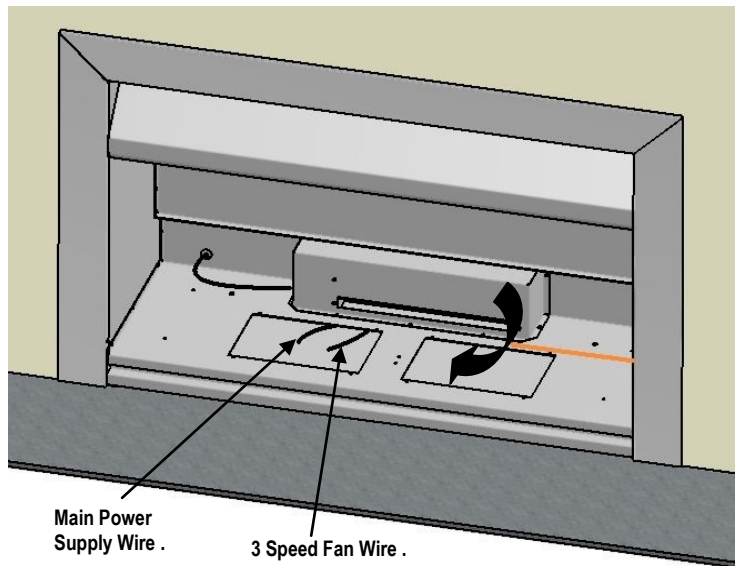
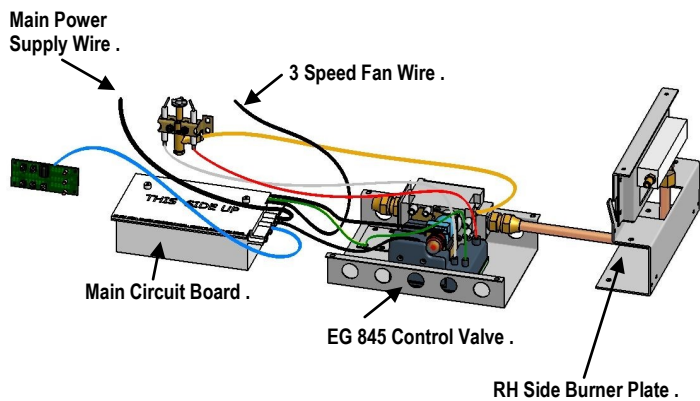


**STEP 3b : Dis-assembled Components ready for Installation .**

The dis-assembled Components ready for Installation should look as shown below . The Main Power Supply Wire & Fan Wire will need to be connected to the Wires previously located inside the Firebox in Step 2 , all Electrical & Gas Fitting work should be carried out by Certified Tradesman .



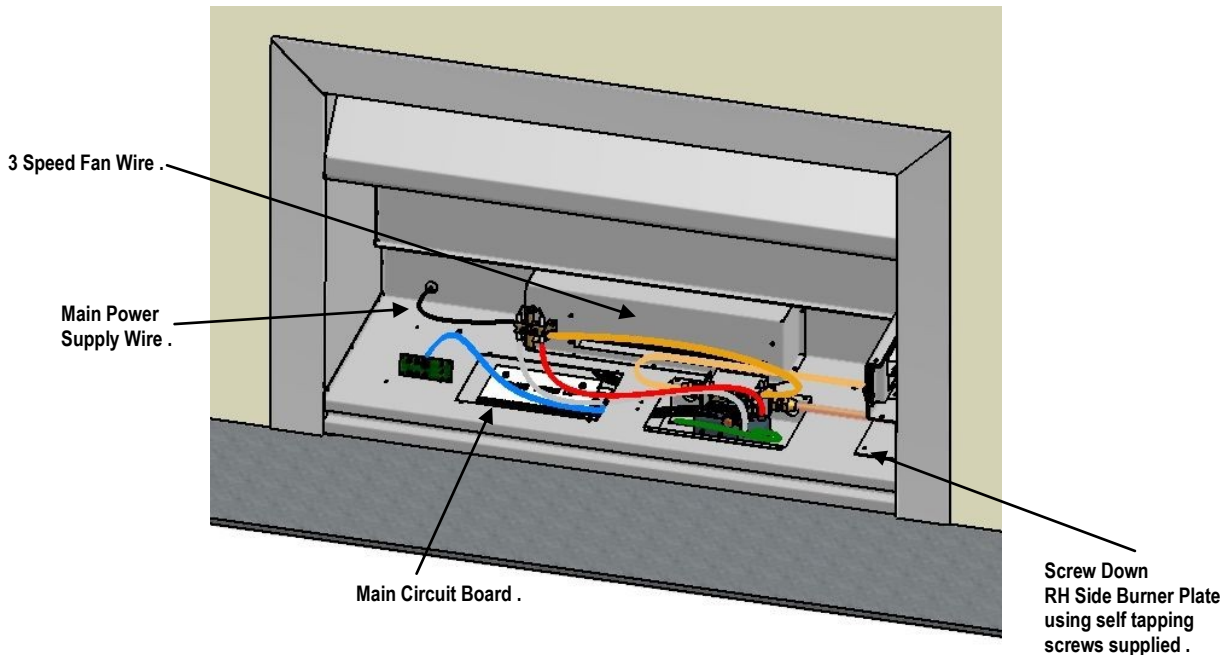
**STEP 4 : FIT EG ELECTRONICS ETC INTO FIREBOX**



**STEP 4 : Fit EG Electronics etc in position through RH Side Breakout Panel .**

Fit previously dis-assembled components as shown above into Firebox by feeding the Main Circuit Board in first through the RH Side Broken Out Panel as indicated above followed by the EG 845 Control Valve Assembly & RH Side Burner Plate . Once in position inside the Firebox ensure the Main Power Supply Wire & 3 Speed Fan Wire are accessible to be connected . Once connected push the wires back under the Broken Out Panel area to keep away from direct heat , also keep clear from the 3 Speed Fan area .

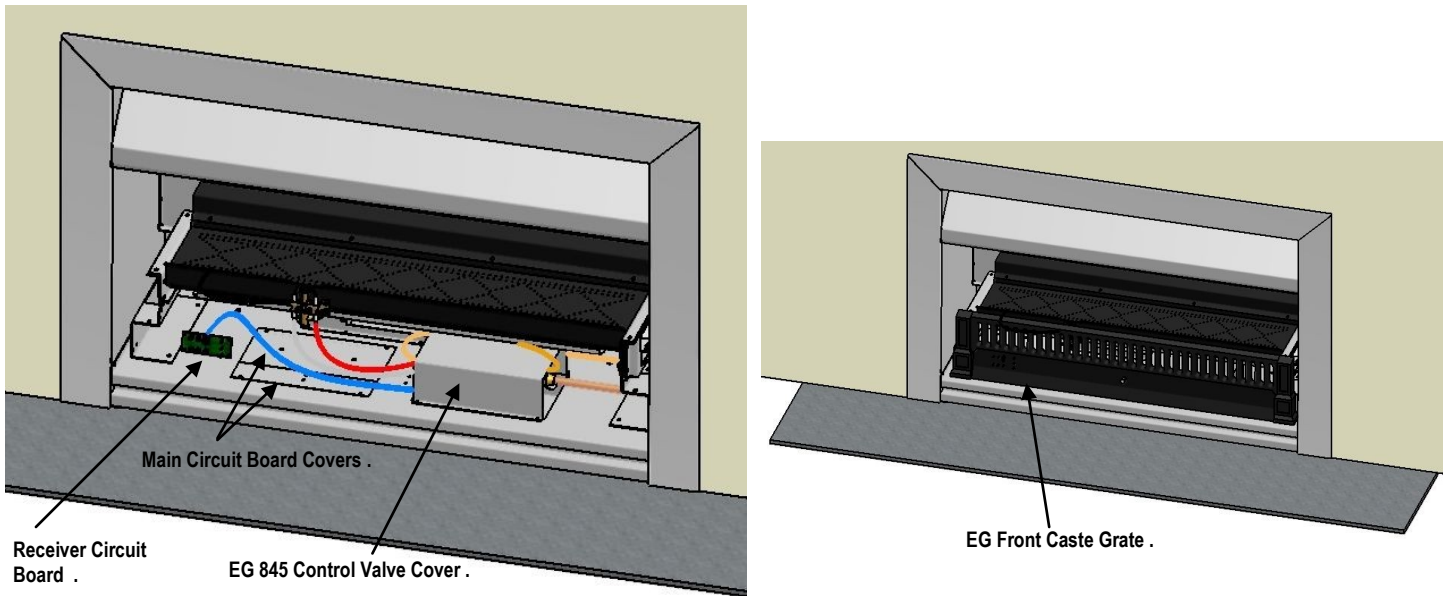
**STEP 5 : FIT EG ELECTRONICS ETC INTO FIREBOX**



**STEP 5 : Fit EG Electronics etc into Firebox .**

Once EG assembly is fitted in place as shown above , screw RH Side Burner Plate down using self tapping screws supplied . Do not screw down Control Valve & Circuit Board Assembly until Gas Fitting & any Electrical work has been carried , both Gas Fitting & Electrical work should be carried out at this stage .

**STEP 6 : RE-ASSEMBLE EG COMPONENTS COVERS & MAIN BURNER ASSEMBLY INTO FIREBOX**



**STEP 6 : Re-assemble Covers etc into Firebox**

First screw down Control Valve Cover & 2X Main Circuit Board Covers in place as shown above , then fit Main Burner Assembly onto the RH Burner Side Plate previously fitted in step 5 (take care to avoid damaging Gas Injector Jets on RH Burner Side Plate) . Once this is complete fit the Burner Front Caste Gate to the Main Burner Assembly with the locating pins on each side of the Gate , note that the Gate Door has holes punched in it where the Receiver Circuit Board attaches to , attach Receiver Circuit Board in place to complete the FP-SG to FP-EG burner change over . For Coal/Logs Setup , Testing & Commissioning see pages 5 to 14 .

## SG & EG Range: Gas Convection Fireplaces

**TO THE INSTALLER / GAS FITTER and ELECTRICIAN**

### NOTES:

- Service annually or more if required.
- Custom built to clients requirements to relevant and current standards.
- The appliance and flue system must be installed in accordance with the relevant and current standards and the appropriate building codes.
- The appliance and flue system must be tested in accordance with the relevant and current standards and the appropriate building codes.

**FLUED GAS APPLIANCES** All Gas Fires requiring Tested Flue Systems shall be Installed to the requirements of the current standards and shall be appropriately designed and constructed to permit safe and effective use. This Appliance must be flued to the outside atmosphere. All Warmington Fires must be Installed with a **minimum** of 3.6m of Approved Warmington Gas Flue and Liners .

**GAS TYPE** All Gas Fires shall operate safely on the Gas Type specified on the Appliance and shall comply with the requirements of The Gas Act 1992 .

**APPLIANCE SAFETY** Any gas fire appliance shall comply with the safety requirements of the current standards listed under "Related documents" in this specification.

**ELECTRICAL REQUIREMENTS** All Gas Fire Appliances Installed with Mains Supplied Electrical components for associated use with these Appliances, must comply with The Electricity Regulations 1993.

**ELECTRONIC CONTROL SYSTEMS** Any Gas Fire Appliance Installed with Manual or Programmable Electronic Control System shall be tested and/or approved by a Recognised Person or Authority.

**SEISMIC RESTRAINTS** All Fires used for Domestic and Commercial Purposes shall be firmly secured (unless defined as portable or mobile) to prevent dislodgement from their point of fixture or Installation during Seismic Activity. Such Restraint must be of a reasonable expectation .

### GAS CONNECTION

A Gas Certificate must be obtained for the Installation and Commissioning of this Appliance and Flue System .

Check that the Gas Type Specified on the Data Plate is correct for the available supply (LPG or NG).

A Copper Gas supply capable of supplying the correct MJ/h , should be brought into the rear of the Installation Cavity through the hole provided . A Flare Nut is provided on the Burner for Gas Connection to the Appliance .

**COMMISSIONING AND TESTING OF FIREPLACE SQ BURNER ONLY (To be carried out by Gasfitter)**

**Read all the instructions before commissioning. Install coals and logs and burner before commission.**

Light appliance and check HIGH/LOW settings. Check operation of appliance and adjust to suit.

Adjust control valve setting if required. After a period of running (30min Plus) check the setting of the pilot and adjust if required. See Spec's for details.

Extinguish appliance, remove test equipment and secure test nipple. Check for Gas Leaks.

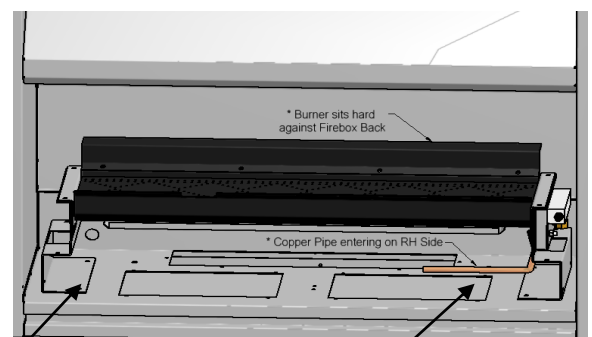
Note\* The Control Valves are factory set and should not require adjustment.

### GAS FITTER TO CARRY OUT STANDARD TESTING FOR COMMISSION:

- Spill test taken at top of opening with smoke or smoke match.
- Leak testing appliance and joints.
- Correct operation of the burner and coal and log lay out.
- Test gas pressures high and low, drop test on supply line.
- 5 second light time across burner, Other testing that may be required.
- Ventilation requirements to the standards.
- Hand over to client, tests and comply to relevant standards.

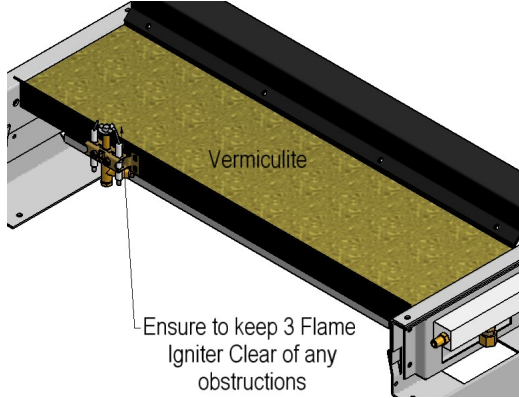
Burner may be Secured To the Firebox (Optional)

### FITMENT OF BURNER

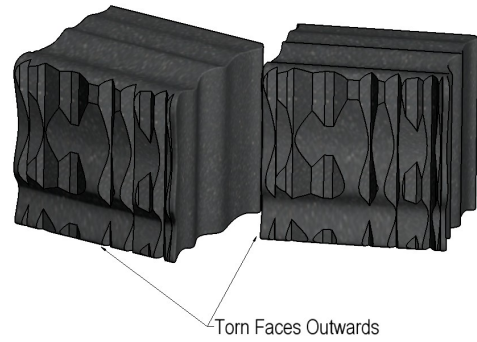


Gas Supply Pipe Into Fire , by Gasfitter . See Spec's for Pipe Size.

**VERMICULITE (COURSE) (To be set by Gasfitter)**



General Coal orientation fro optimum effect.



**APPLYING THE VERMICULITE :** (Course—must be larger than the burner plates holes so not to block them)

Apply with care a thin layer of Vermiculite over the Burner , just enough to cover the Burner Tray only .

NOTE: If the burner flame is uneven, the Vermiculite may need to be changed or sifted to remove the smaller pieces that can block the burners holes. The smaller pieces can ,cause uneven burn and the unit to run dirty.

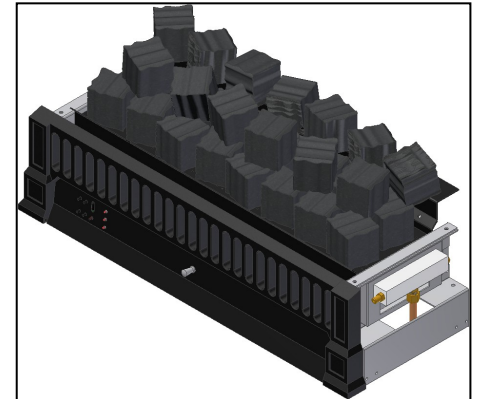
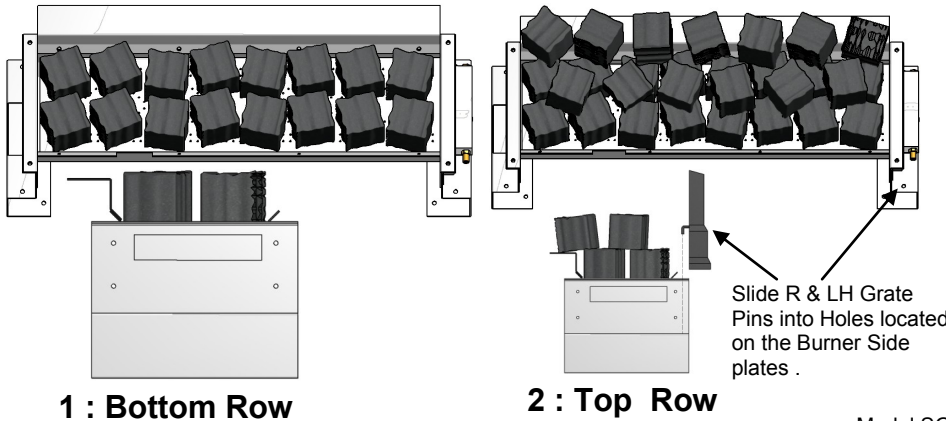
**COALS AND LOGS (To be set by Gasfitter)**

Gloves should be worn when handling Ceramic Fibre Coals & Logs : care needs to be taken when handling Coals & Logs , Due to the Carbon on the Coals can stain the surroundings.

**HELPFUL HINTS : When Hot use Metal Tongs.**

Apply a thin layer of Vermiculite over the Burner , just enough to cover the Burner Tray only as shown above.

**1 : Bottom Row :** Assemble 2 Bottom Rows of Coals onto the Vermiculite Base . **2 : Top Row :** Assemble 2 Top Rows of Coals onto the Bottom Row .



Model SG780 Shown: Total number of coals will vary per model.

Each Coal randomly positioned with the Torn (roughest) Face Outward . **Ensure Coal positioning does not directly block the 3 Flame Pilot .**

The placement of the Coals & Logs may vary to make an even Flame Pattern .

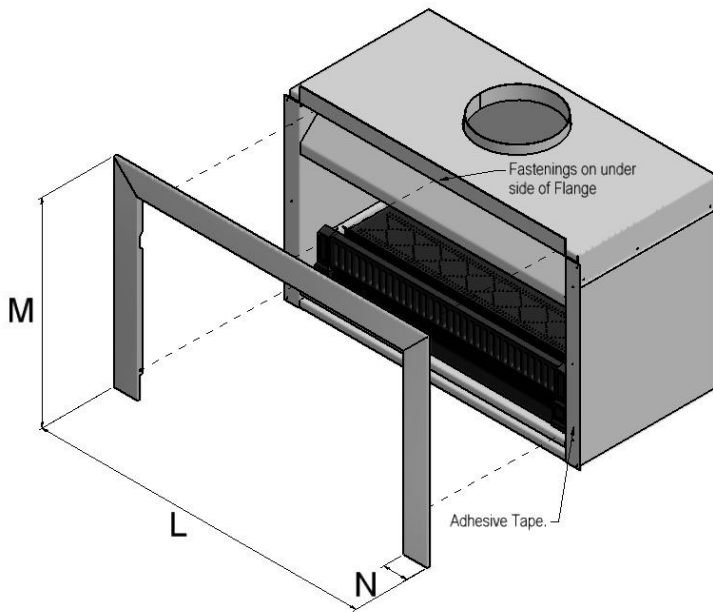
Logs and Twigs may be scattered to achieve best Visual Effect .

Fit Burner Grate by sliding R & L Side Metal Pins on Grate, into Holes Located on Burner Side Plates , as shown below .

Model	Number of Coals per Row		Number of Rows		Total Coals
	Bottom	Top	Bottom	Top	Total
SG EG 700	6	5	2	2	22
SG EG 780	8	6	2	2	28
SG EG 900	10	9	2	2	38
SG EG 1100	11	10	2	2	42

**FASCIA KIT** (Black or Stainless Steel)

- Locate the three self-tapping screws provided into the under-side of the top ledge of the firebox
  - Remove the backing tape from the adhesive Velcro pads at the bottom of each fascia side
  - Offer the fascia into position locating the three screws into their associated slots - tighten screws
  - Apply firm pressure to the bottom edges to bond the Velcro tape
  - The fascia may be removed at any time by loosening the screws and parting the Velcro
- Please refer to additional sheet for Burner Ratings and Frame-out details.*



**Note:**  
Fascia is Fitted at the end of the Installation process and may be after the wall and surroundings have been completed .

**OPERATION OF YOUR GAS CONVECTION FIRE (Manual ONLY)**

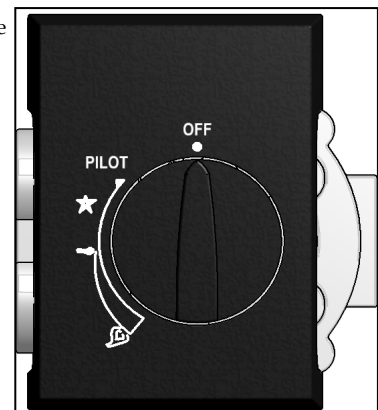
*Your Fire must be Installed and Tested by a suitably qualified Gasfitter prior to use.*

**To light :**

- Lower the control-cover by pulling it outwards .
- Depress the Ignition Switch and hold in the '**PILOT**' position for 3-5 seconds. (This may take some time for the Gas to come through to the Pilot-3 Flame)
- Strike the Igniter by turning to the '**STAR**' position , maintaining the Switch in a Depressed State ; (repeat steps 2 & 3 if necessary)
- Once the Pilot Flame is lit, hold this position for 3-5 seconds , release from the Depressed State before setting the Flame Control to Full , it may take 3-5 seconds for the Burner to Light .
- Once the Flame Bed is established, set the Flame Control to the desired level & close cover.

**To shut down :**

- Open control cover by pulling it outwards.
- Turn control switch to '**PILOT**'. Flame bed will extinguish.
- Pilot light may be left running or extinguished by switching to '**OFF**' before closing cover.



**ADJUSTMENT OF HI—LOW PRESSURE (SG FIRE ONLY) (Only to be Adjusted by Gasfitter)**

Adjustment of High & Low Settings Must be Carried out by a Certified Gas Fitter Only .

Note\* Control Valves are Factory Set but may require adjustment onsite .

Turn Appliance Off & Remove Front Plastic Cover on Igniter , Pull Cover to Slide off .

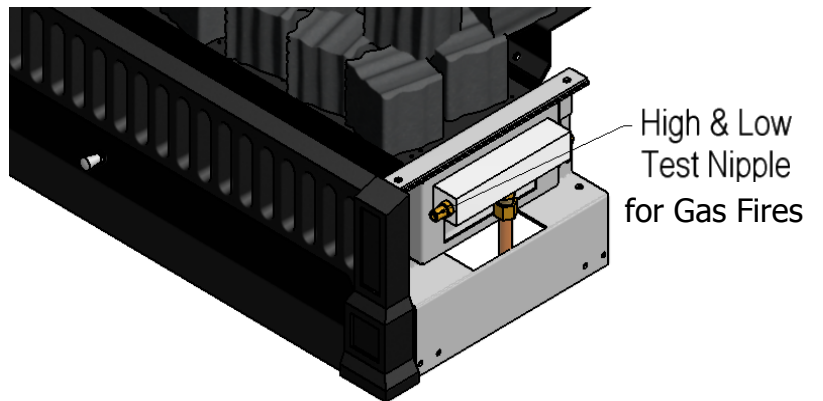
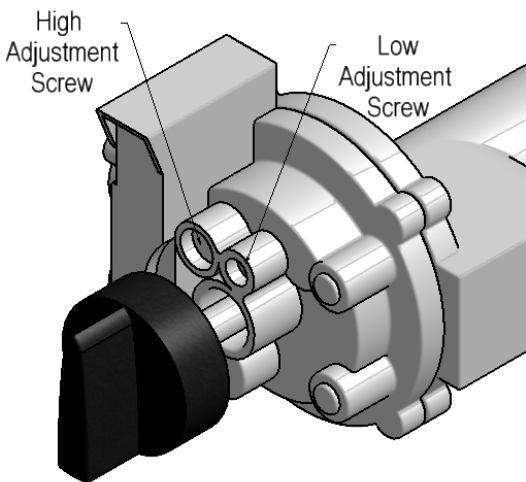
Unscrew Test Nipple on the Burner Manifold & fit the Test Gauge Securely - See Diagram

\* To Set the High : Light the Burner & turn to High - Then Adjust the High Screw to the Desired Pressure . See Spec's

\* To Set the Low : Light the Burner & turn to Low - Then Adjust the Low Screw to the Desired Pressure . See Spec's

Extinguish Appliance, remove Test Equipment and Secure Test Nipple .

\* Check Valve & Burner for Correct Operation & check Fire for Gas Leaks .



Note : Location of the Test Nipple - may vary from Model to Model

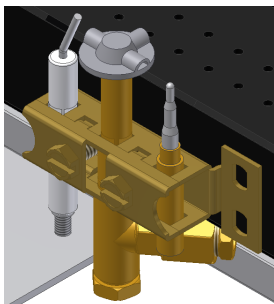
**ADJUSTMENT OF THE PILOT—3 FLAME (BOTH SG & EG) (Only to be Adjusted by Gasfitter)**

**Note:** When the Base screw is removed, gas will leak from the out let, ensure that the pilot is not adjusted or the screw is removed when the fire is burning.

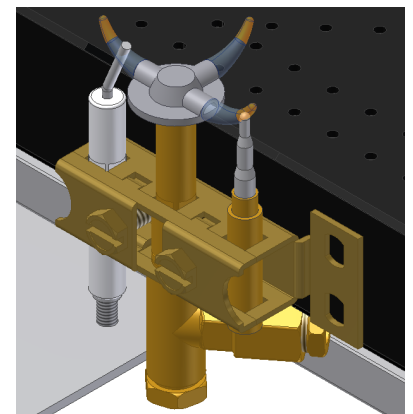
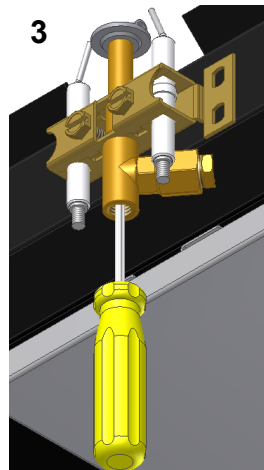
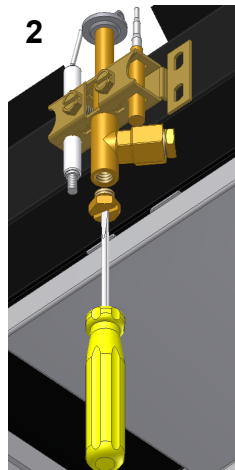
- Adjustment of Pilot - 3 Flame : Unscrew Base Screw as shown in Diagram 2 .
- Insert a Screw Driver as shown in Diagram 3 and adjust the Adjustment Screw up inside the 3 Flame Pilot to adjust the Flame Height .
- The Flame must always be passing over the Electrodes &/or File Tube on either side .

**Note: to Gas Fitters**

The 3 flame pilot may need adjustment after a period of running time on set up as the increase in heat in the fire will induce a higher draft in the fire, and may pull in flame away from the File Tube causing the fire to shut down.



3 Flame Pilot in Assembled State



Correct Operation of 3 Flame Pilot



## POINTS OF SAFETY—To the Customer /Home-Owner

Your Warmington Gas Decorative Fire operates on the principle of dual radiant and convected heat. Therefore it is important to observe the following precautions associated with any heating appliance or open fire.

- Do not cover or restrict the fireplace upper or lower vents in any way as this may result in a build-up of hazardous gases within the room.
- The fire is not intended for the drying of clothing, bedding etc.
- Avoid installing this appliance in high traffic areas, strong draughts or near drapes or furniture.
- The use of an approved fireguard is recommended for the protection of young children.
- Avoid using aerosols when the appliance is operating.
- Avoid anyone leaning against or lying directly in front of the fire while operating.
- Do not place anything objects into or against the gas fire at any stage.
- The fire may release a small amount of smoke on its first start up which may take 1or 2 hours to dissipate . This is part of the curing process so ensure there is adequate ventilation within the room.
- Always use a registered Gas Fitter or Electrician for installing and maintenance work
- Always use certified gas cylinders that have been tested and are safe to use.
- Never modify your gas appliance or its settings from those specified by the manufacturer.

**APPLIANCE SAFETY** Any gas fire appliance shall comply with the safety requirements of the current standards listed under "Related documents" in this specification.

**ELECTRONIC CONTROL SYSTEMS** Any gas fire appliance fitted with manual or programmable electronic control systems shall be tested and/or approved by a recognised person or authority.

**SEISMIC RESTRAINTS** All gas fires used for domestic and commercial purposes shall be firmly secured (unless defined as portable or mobile) to prevent dislodgement

## WHAT DO YOU DO IF YOU SMELL GAS

Open windows and doors

Do not light any gas appliance

Do not use any electrical appliance or switches

Do not use the telephone in your home

Leave the building; shut off the domestic gas supply valve (beside your meter)

**MAINTENANCE** : All burner setting, Coals placement, Vermiculite is to be checked and set in accordance with this specification by the service person/Gas fitter

*\*Lighting your gas fire using electronic or remote ignition systems may vary as per manufacturer instructions*

Warmington recommend annual servicing of your gas fire by an approved Warmington dealer Gas Fitter.

External surfaces should be dusted with a damp, lint-free cloth when the fire is cold.

Warmington provide 12 months warranty from the date of purchase, for domestic or commercial installations

### **This Warranty Covers :**

Replacement Parts and Labour for Gas Control Components due to Manufacturing Defects Only.

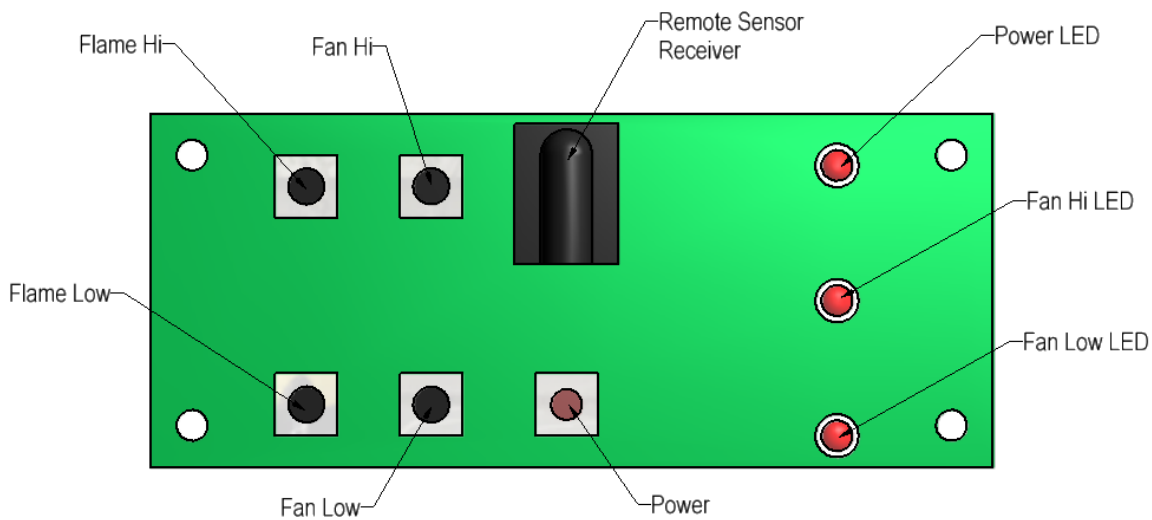
Repair or Replacement of the Burner or Firebox Components due to Manufacturing Defects Only.

Warranty cover will be considered void if the product is subject to incorrect installation, failure to operate the appliance in accordance with the supplied instructions and specifications or is subject to damage or misuse beyond the expected conditions of normal use.

All Installations and servicing must be carried out by and approved Warmington dealer or Gas Fitter.

**OPERATION OF YOUR E.G GAS BURNER IGNITER ONLY**

**FOR MANUAL OPERATION OF YOUR EG DECORATIVE FIRE**



**AS SHOWN FROM THE FRONT OF THE BURNER.**

This Control Panel is Located on the Bottom Left Hand Side of your decorative Gas Fire.

Press and Release the Power Button. This will Start the Electronic Spark and the Power LED will be on Permanently . The Pilot will Ignite First, once this is on, it will ignite the Main Burner. Pressing and Releasing the Power Button again will Switch Off the Appliance.

When the Appliance is Turned On again, the Gas Fire will resume the previous Flame and Fan settings , unless the Appliance was Switched Off due to Power Failure. In the circumstance of a Power Failure the Remote Control System will return to the default settings which is a Low Flame and the Fan Turned Off.

If the Gas Fails to light, the Appliance it will go into Lock Out Mode , after trying to ignite for 1 minute (approx.) . In Lock Out Mode the Power LED will remain illuminated. To start the Appliance again Press and Release the Power Button Twice after the Gas Supply Resumes.

**FLAME OPERATION**

Press and Hold the + button to Increase the Main Burner Flame . Press and Hold the - button to Decrease the Main Burner Flame. By holding the + or - Flame Button for up to 10-15 sec this will Increase or Decrease the Main Burner Flame to it's Max or Min .

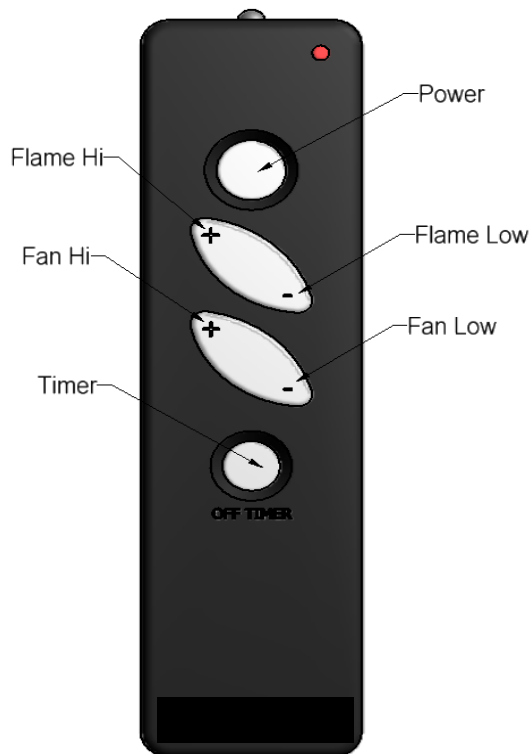
**FAN OPERATION**

This Decorative Gas Fire has a 3 Speed Fan and its operated independent from the Main Burner.

This is done by pressing and releasing the fan + or – button will Increase or Decrease the Fan Speed. The LED on the Front Panel will indicate the Fan Settings at Low, Medium, or High Speed.

Pressing and Releasing of the button will Lower the Speed until the Fan is Turned Off .

**REMOTE CONTROL FEATURES**



Your Remote Control has all the features of the Control Receiver situated on the Front Panel of the Burner .

By pressing Timer Button , the Power LED will start flashing and after 30 minutes the appliance will Shut Off Automatically .

By pressing the Timer Button again within the 30 minute period, this will reset the Timer and the power LED will Stop Flashing .

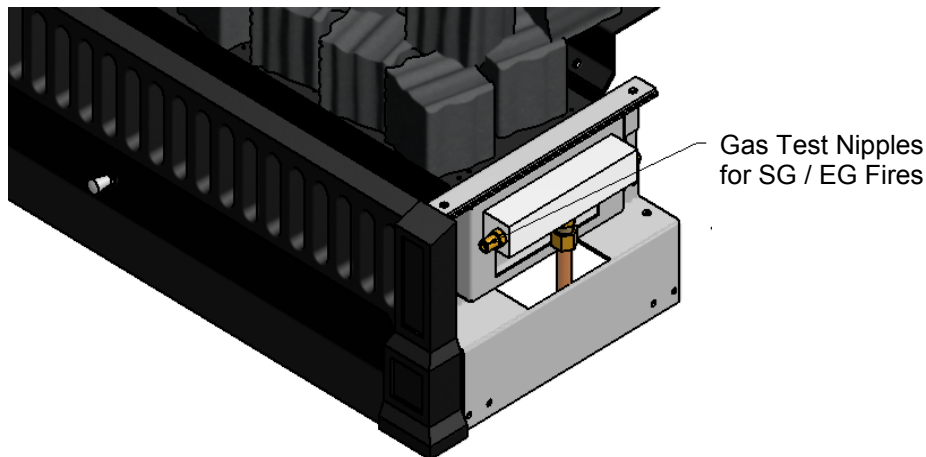
**IMPORTANT NOTE ABOUT YOUR DECORATIVE FIRE**

Warranty Cover will be considered void if failure to operate the appliance in accordance with the supplied Instructions and Specifications, or is subject to damage or misuse beyond the expected conditions of normal use which could result in injury or property damage .

**PROCEDURE FOR THE TEST AND COMMISSIONING OF YOUR DECORATIVE FIRE.**

**Ensure Gas Supply and the Power Supply (caution 240V) to the Unit.**

- Refer to Data Plate on this Specification for settings. The Data Plate is attached to the under carriage of the Burner .
- Remove Front Grate ensure the CAT5 cable to the Control Receiver is still connected.
- Loosen the Jet Test point and attach manometer (Digital is preferred). The Test Point is on the Right Hand Side of the Gas Burner , as Shown Below .



Note : Location of the Test Nipple - may vary from Model to Model

- Light Appliance, adjust to High Flame setting and check pressure, adjust to Low Flame and check pressure.

**NOTE : If setting the Pressure is required it is to be carried out by a Certified Gas Fitter.**

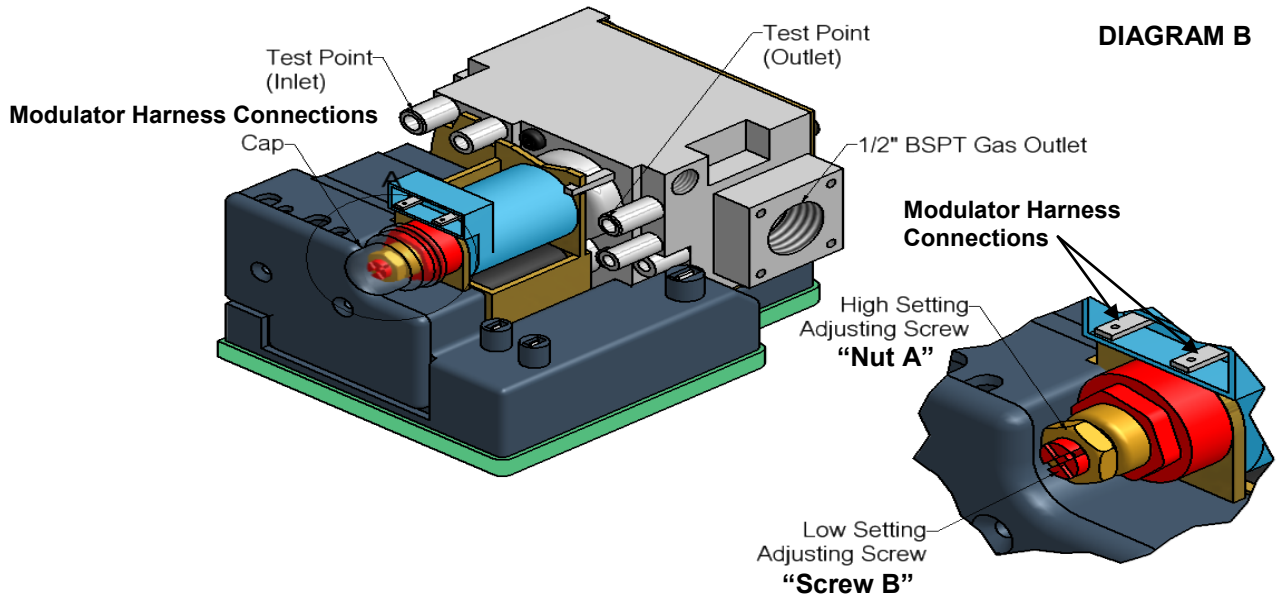
- If adjustments are necessary, remove the cap . The Pressure Adjustment Screw and Nut are on the Front Side of the Gas Control Valve (shown in Diagram **B** in this specification) and are **Factory** set.

**High Pressure Setting:** Set the modulator to Maximum Condition. Screw in "Nut A" to Increase the Outlet Pressure then screw "Nut A" out to Decrease the Pressure to the desired settings . Use 10mm spanner.

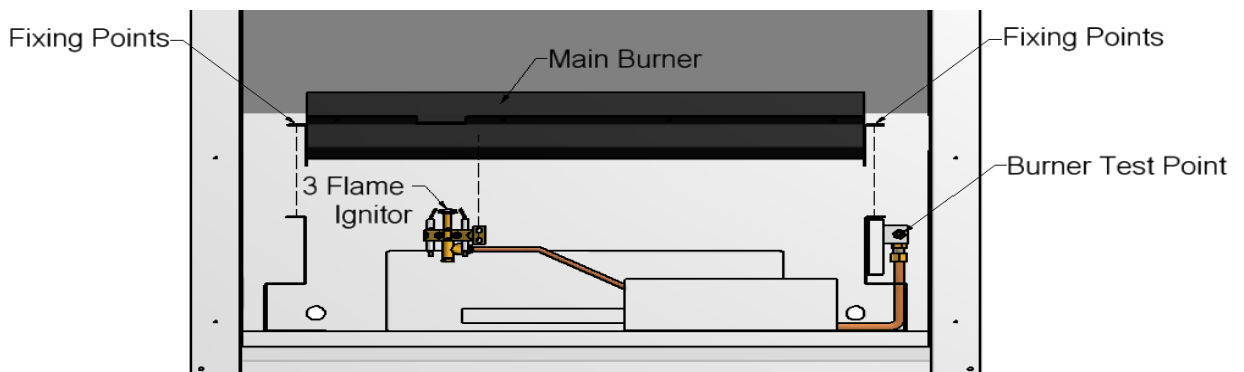
**Low Pressure Setting:** Turn Off the Power to the Modulator (by disconnecting the Modulator Harness Connection at the Valve - See Wiring Diagram in Page 17 .) and, keep Nut A stationary . Use a screwdriver to screw in "Screw B" to Increase the Pressure and Screw it Out to Decrease the Pressure . Carefully replace the Modulator Plastic Cap .

**WARNING:** To ensure the Correct Operation of the Modulator it is necessary that the Plastic Cap is returned to its original location .

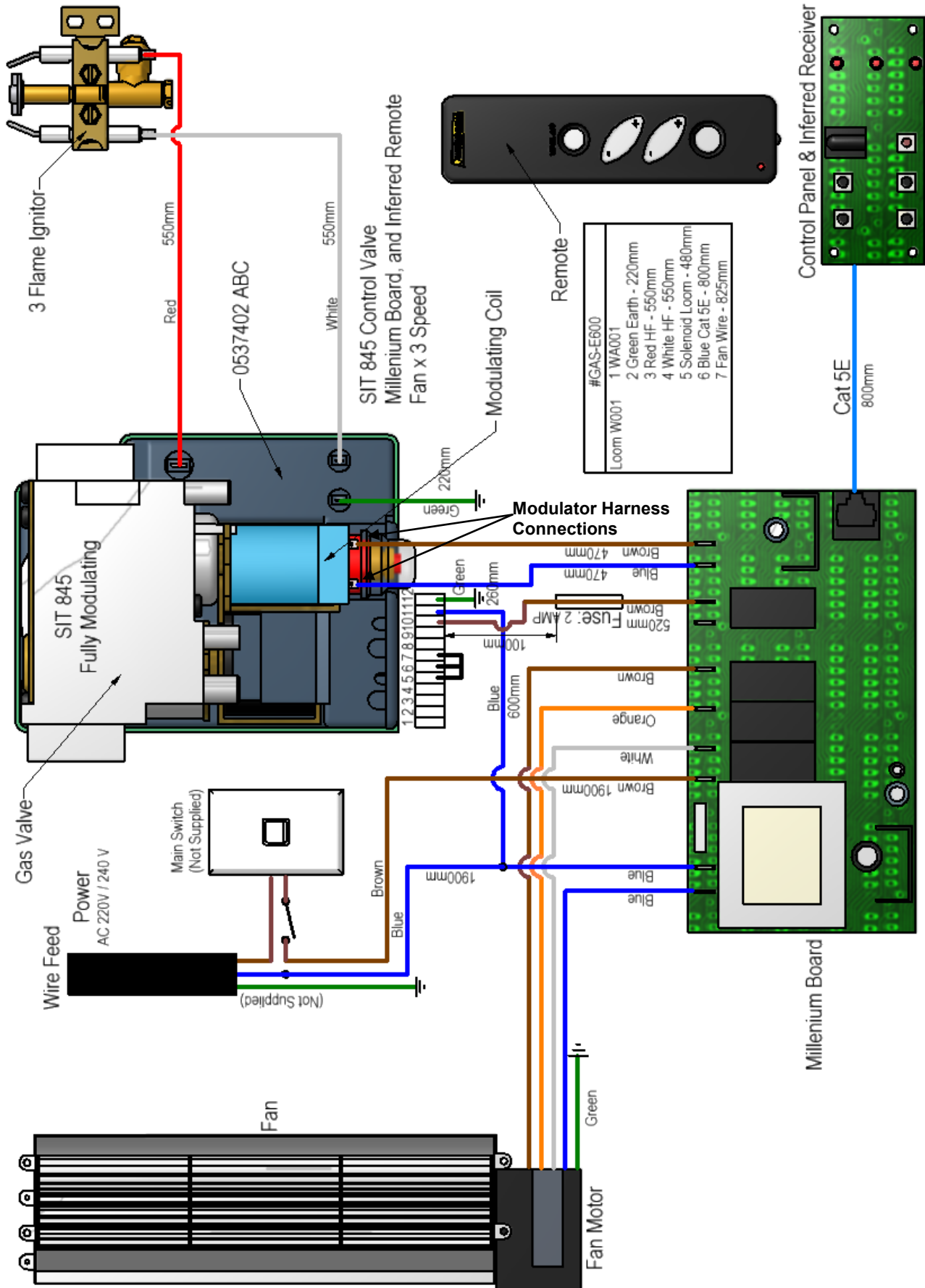
**DIAGRAM B (SHOWING CONTROL VALVE WITH TEST POINTS AND ADJUSTING SCREW).**



- After checking the pressure, turn the unit off, remove Manometer from the Test Point and Tighten the Test Point Screw. Ensure to check for gas leaks.
- Ensure Power is Off & Reconnect Modulator Harness Connection in the Main Harness. See Diagram B Above .
- Turn the Appliance On and Off a few times to check ignition.
- When you are satisfied that the Appliance is working correctly , fit the Front Panel Assembly back to the Gas Burner.
- NOTE : Ensure you peel the Protective Plastic Coating from any Stainless Steel components if fitted.
- All Burner Aerations are Factory Preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to troubleshooting before contacting your Local Service Contact as listed.
- It may take approximately 2 hours of operation for the coals/Logs or river rocks to achieve their full flame pattern and glow.
- During the Initial Burning in period, some smoke and smell may be experienced , the appliance should be run on the high position in a well ventilated room until these dissipate .



REMOTE IGNITION EG GAS FIRE WIRING DIAGRAM



**GENERAL NOTES****NOTES:**

- These installation and operating instructions should be kept in a safe place. Should you require another copy, download from the **Warmington** website [www.warmington.co.nz](http://www.warmington.co.nz)
- This appliance must be installed in accordance with the manufacturer's written instructions to comply with the **Warmington** warranty.
- The appliance and flue system must be installed in accordance with relevant standards and the appropriate building codes.
- This appliance must be serviced annually and any service operation must be carried out by a qualified service person.

**WARNINGS:**

- **WARNING; ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED A BREACH OF NZ STANDARDS.**
- **WARNING; DO NOT USE OR STORE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILST IN OPERATION.**
- **WARNING; DO NOT PLACE FLAMMABLE MATERIALS ON OR AGAINST THIS APPLIANCE.**
- **CAUTION:** THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.
- **CAUTION:** ALL SERVICING MUST BE CARRIED OUT BY AN AUTHORISED SERVICE TECHNICIAN.
- **CAUTION:** MAKE SURE THE USE OF CORRECT FUEL TYPE WITH THIS APPLIANCE.

**NOTE: Keep a copy of these instructions for operating and maintenance guidelines.**



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