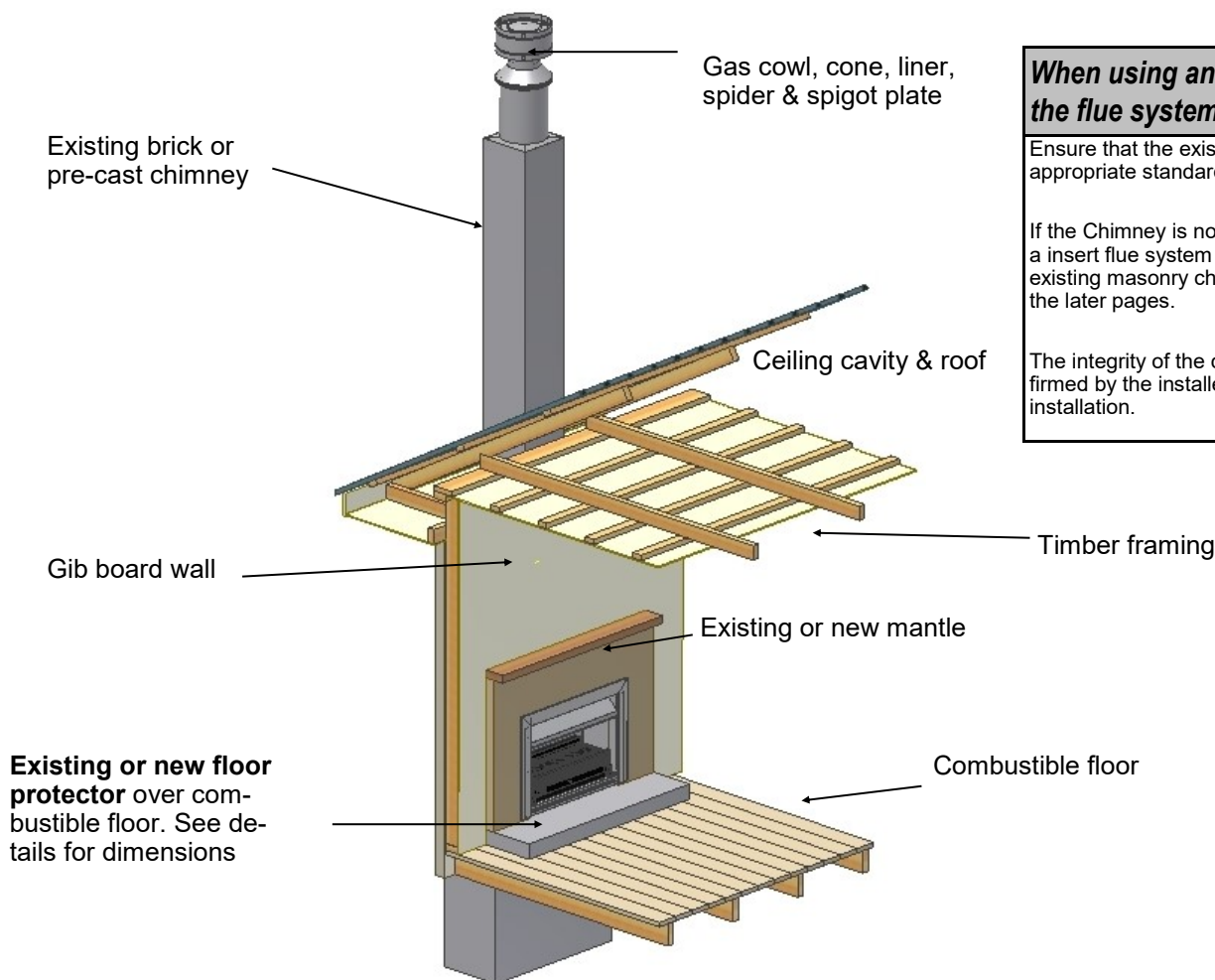


SG EG 600-700-780-900-1100

Retro Fitted Gas Open Fire Installation Instructions into Existing Brick / Pre Cast Chimney.

Option 1: Use existing chimney

Option 2: Use a flue-kit



When using an existing chimney as the flue system:

Ensure that the existing chimney comply to the appropriate standards & building codes.

If the Chimney is not sound or needs repair then a insert flue system may be required through the existing masonry chimney. See specifications in the later pages.

The integrity of the chimney needs to be confirmed by the installer or gas fitter at the time of installation.

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 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

POINTS TO CONSIDER PRIOR TO INSTALLATION

Location of the Fire. Open fires are better located at one end of a room or area, as they project the heat away from their opening.

The Topography of the land.

The slope and position of the land in relation to the home has a bearing on how the wind will interact with the fire and flue system. Care needs to be taken to ensure that the flue termination is in the correct position to maximise performance.

The Prevailing Wind.

Care needs to be taken to ensure that the flue termination is in the correct position as wind and gusts that hits the flue and cowl system may overcome the cowl and draft back down the flue into the home. This can be a combination of down draft and high pressure.

Hearth and Plinth:

The Height of the Hearth off the Floor. The Finishing that is to be used on the Hearth is to be allowed for at the design stage.

Note : Ensure Air Intake at Base of Firebox is not blocked or restricted .

Positioning of the Flue System:

There is a maximum distance that an offset flue can be Installed. Reference to relevant standards.

Flue And Fire Clearance:

To be maintained to the Manufactures Instructions &/or Comply with appropriate Standards & Building Codes .

Pressure Differential, Venting & External Air into the Building:

All fires need air to burn and draw correctly, Kitchen Fans, Air Conditioning units, High Wind Zones, Naturally forming Draft spaces, can all have an effect on the pressure difference from inside the building to the outside. A lower pressure in the building may induce a draft down the flue system and back into the building causing the fire to smoke or spill into the building. **Care needs to be taken at the design and installation stage to adequately vent the building, or some mechanical system to ensure that there is always a neutral or positive pressure at the fire-place and a negative pressure at the flue outlet.** This will ensure that the draft in the flue system is always to the outside.

“CAITEC AIR” the limits and requirements. See details in these Specifications.

Wind Noise:

You may encounter wind noise in some installations. It is recommended to use an enclosed chase with a chimney pot to help reduce noise. There will always be some noise from the flue systems of all fireplaces.

When using the Existing Chimney as the Flue System:

Ensure that the Existing Chimney Comply to the Appropriate Standards & Building Codes.

If the Chimney is not sound or needs repair then a Flue System may be required through the Existing Masonry Chimney. See later pages in this specification.

The Integrity of the Chimney needs to be confirmed by the Installer or Gas Fitter at the time of Installation.

INSTALLATION ORDER OF OPERATIONS

Prior to Construction and Installation

Important Notes:

Consult a licensed certified gas fitter for correct gas installation.

Install to current standards.

All New Installations require an Application for Local Council Permit/Consent No (Repairs on Fires NOT Included.)

For Special Requirements concerning materials (Timber Mantles and Surrounds) within close proximity of Warmington products, please contact your local Warmington Technical Consultant.

Install procedure to be carried out by a recommended ‘Warmington Installer’ only, or visit www.homeheat.co.nz, go to ‘Members’ & follow Instructions to find a Certified NZHHA SFAIT Installer.

Stage 1: Removing Existing Fire (Brick Fire, Register Fire or Inbuilt).

Important Note: Before removing the fire, check outside & inside of chimney chase for structural cracks etc. These will need to be repaired before installation.

Remove old Flue System if required & then remove existing Fire from chimney chase.

Sweep chimney & clean entire chase out thoroughly. If a ash pit exists at base of Fire, this will need to be sealed off or covered over.

A new plinth & hearth may need to be Installed if necessary.

The existing mantle opening may need to be cut out or closed down to accommodate the Warmington Firebox.

Stage 2: Installing Warmington Retro Firebox.

In most cases there will be a gap around the firebox once in place. Prior to installation, this needs to be filled in with a non-combustible material & with a 45 degree chamfer at the top of the firebox. See following pages.

Install Firebox into mantle opening ensuring Firebox flange ends up hard against mantle opening face to create a good seal.

Secure fire in place.

Stage 3: Installing Chimney Top Flashing System.

Remove any existing cowl or top to leave a flat clean surface.

Cut spigot plate flashing to suit size of chimney top & secure level & in place with 6mm dynabolts or equivalent. Use silicon to seal spigot plate. Note: The diameter of the spigot pipe should be equivalent to the flue size required for fire typ .

Mortar or concrete over spigot plate.

Install liner (cut to length), spider, gas cone, cowl.

NOTE: Clean and touch up paint on the fires and cover if necessary (installer and gas-fitter).

Maintenance.

IMPORTANT NOTES:

GAS SPECIFICATIONS

Tested to: AS 4558

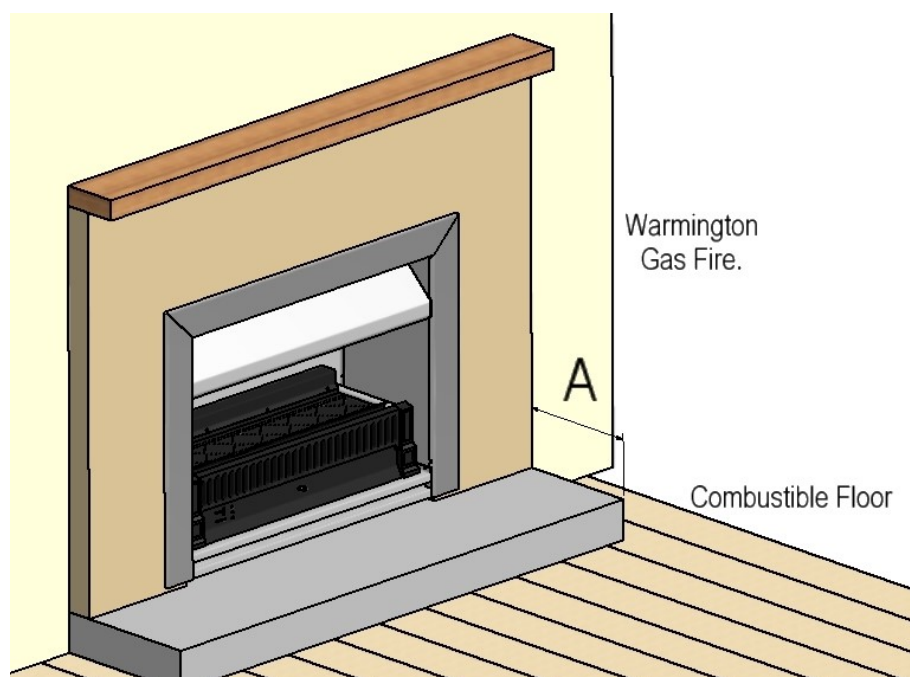
NOTE : All Test Pressures are tested by a Independent Test Lab

* Inlet Pressure not to exceed 4.0KPa

MODLE	SG-EG 600	SG-EG 700	SG-EG 780	SG-EG 900	SG-EG 1100
LPG					
Nominal Pressure kPa	2.75 kPa	2.75 kPa	2.75 kPa	2.75 kPa	2.75 kPa
Nominal Injector Size mm	2x 1.0 mm	2 X 1.1mm	2 X 1.2mm	2 X 1.3mm	2 X 1.4mm
Burner Pressure High kPa	2.50	2.5	2.5	2.5	2.5
Burner Pressure Low kPa	0.75	0.75	0.75	0.75	0.75
MJ/h	26	29	38	42	50
Flame Effect Output Only	Effect	Effect	Effect	Effect	Effect
Supply Pipe Size dia—min	3/8"	3/8"	3/8"	1/2"	1/2"
Natural Gas					
Nominal Pressure kPa	1.5kPa	1.5 kPa	1.5 kPa	1.5 kPa	1.5 kPa
Nominal Injector Size mm	2x1.6 mm	2 X 1.8mm	2 X 2mm	2 X 2.2mm	2 X 2.4mm
Burner Pressure High kPa	1	1	1	1	1
Burner Pressure Low kPa	0.3	0.3	0.3	0.3	0.3
MJ/h	27	35	41	48	60
Flame Effect Output Only	Effect	Effect	Effect	Effect	Effect
Supply Pipe Size dia—min	3/8"	3/8"	1/2"	1/2"	1/2"

Lab. Test No	CUB 008	GL 923	GL 900	GL 834	GL 876
Lab. Test Dates	13/08/2015	20/04/2010	26/02/10	26/06/09	24/12/09
ESS Declaration No:	n/a	1149420106	1149520106	1149720106	1149820106

RAISED HEARTH CLEARANCES



Note: for combustible floors

Minimum Hearth of 300mm (A) must be maintained at any given height.

SELECTION OF THE SIZE OF FIRE TO FIT THE EXISTING CHIMNEY

The size of the fire and the flue diameter needs to be balanced for the fire to operate correctly.

The size of the Warmington firebox that is to be fitted to an existing masonry fire place, is generally set by the opening of the masonry flue system x and y (see table below).

Remedial work may need to be carried out to physically fit the firebox into the masonry opening, however this may limit the size of the fire that can be fitted.

Firebox		SG/EG 600	SG/EG 700	SG/EG 780	SG/EG 900	SG/EG 1100
Flue	K	150	200	200	250	250
Flue Liner	L	200	250	250	300	300

Note:

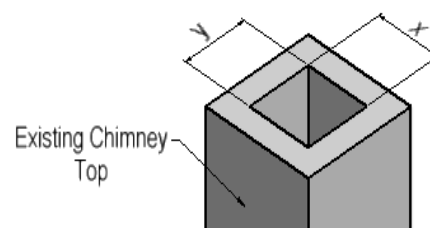
Firebox can also be custom built to suit (modification cost will be incurred).

FIREBOX SELECTION

Remedial work may be necessary to fit the firebox into the masonry cavity, BUT the flue diameter 'K' will determine the size of the firebox.

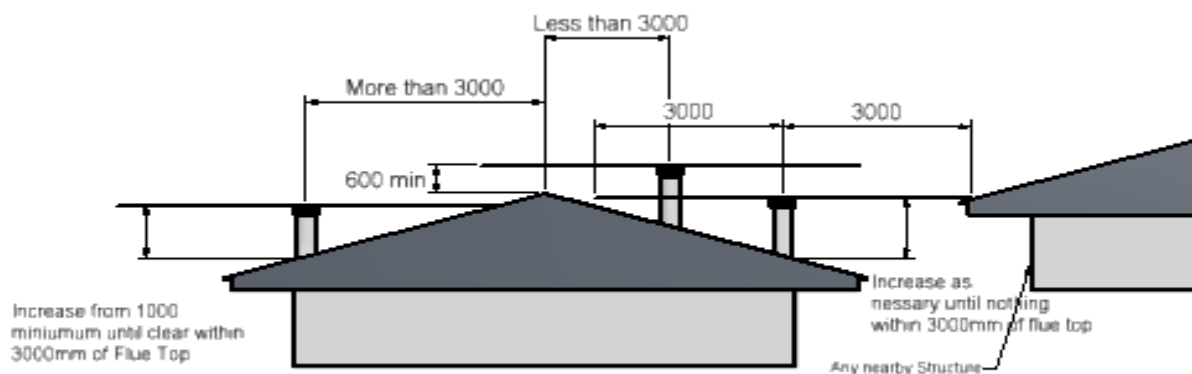
The selected Firebox flue - (diameter "K") MUST be able to pass through the masonry chimney whether the flue pipe is being used, or the existing chimney is being used.

Always consult your Technical Representative for advice.



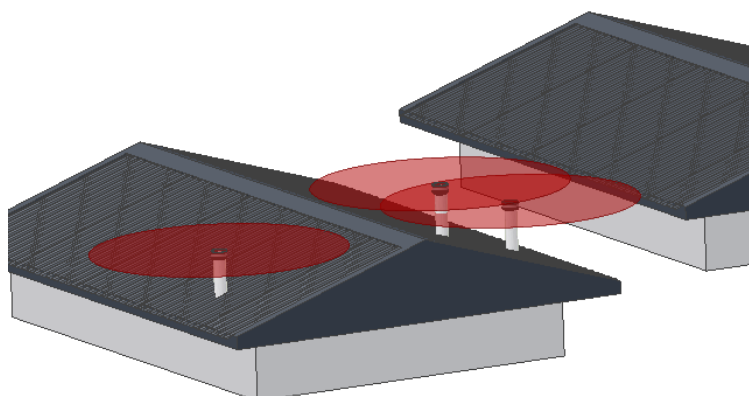
Existing chimney opening size must be larger than the required flue and liner size (see above table for K and L measurements).
The height of the masonry flue may need to be increased to obtain correction operation of the fire.

FLUE HEIGHT MINIMUM DETAILS



The flue penetration is to comply to relevant standards.

3D View



NOTE, IMPORTANT INFORMATION FROM THE STANDARD:

Installation to comply with current standards. When installing a fitted open gas fire with an existing chimney section 6.7.11 in NZS 5601 is particularly relevant, see quote below:

6.7.11 Use of existing flue or chimney

An existing chimney or *flue* shall be used for flueing a *gas appliance* only after examination and the correction of faults.

Note: Poor design of existing *flues* and chimneys can cause *combustion products* to enter into the room.

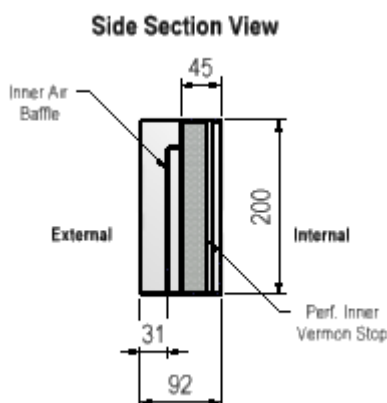
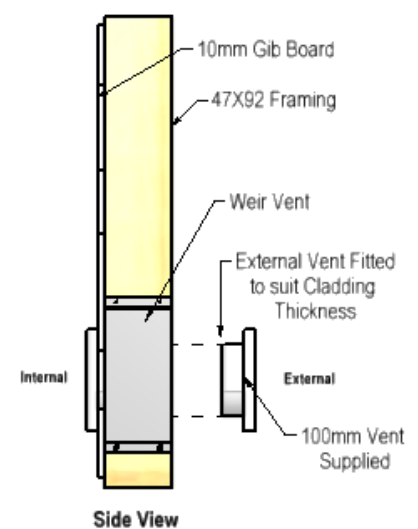
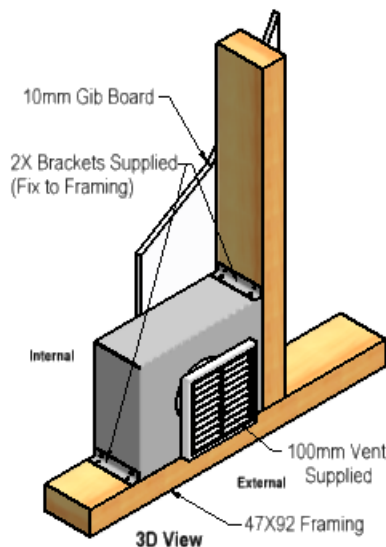
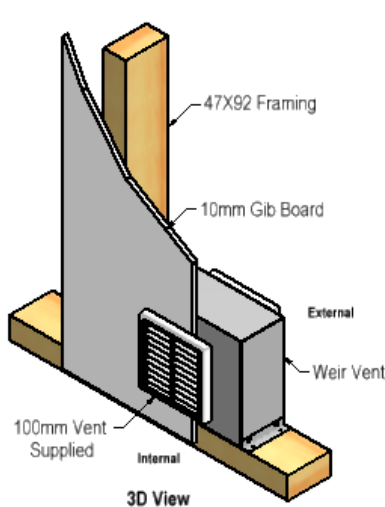
An existing chimney or *flue* that has been used for fuel other than *gas* shall be -

- Swept clear of soot and other loose materials;
- Checked for soundness of construction and freedom from leakage; and
- Checked for adequate size.

Any damper plate shall be removed or permanently fixed fully open, except where a damper is necessary and in accordance with the *manufacturer's relevant instructions*.

Firebox		SG 600	SG 700	SG 780	SG 900	SG 1100
Flue Diameter Min	J	150	200	200	250	250
Flue CSA mm	K	17 671	31 416	31 416	49 087	49 087

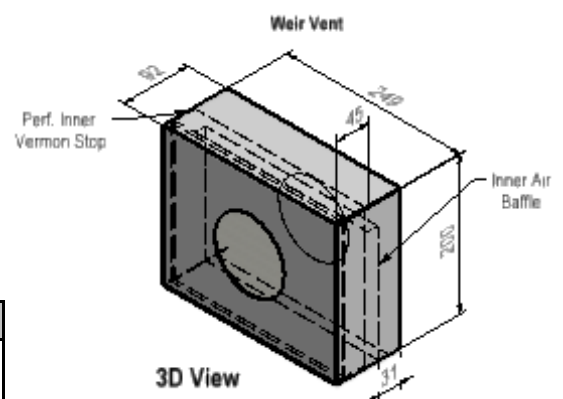
'Caitec' Weir Vent System (Concept Only)



Caitec draws air from an external air source to ensure that combustion air that the open fire uses is replaced, maintaining the home at a constant pressure equilibrium, reducing the risk of back drafting. Ensure that the home is vented to outside fresh air. 2 x 100mm Diameter vents are required (or equivalent)
Builder to supply external air to the Warmington fire (not supplied).

Important Note:

For optimum performance place 'Caitec' weir vent system as close to Fireplace as possible.



WARMINGTON FIREBOX DIMENSION

Firebox		SG / EG 600	SG / EG 700	SG / EG 780	SG / EG 900	SG / EG 1100
Firebox Width	A	590	710	790	905	1110
Firebox Height	B	600*	600*	600*	600*	600*
Firebox Depth	C	440	440	440	440	440
Flange Width	D	680	800	880	1000	1200
Flange Height	E	650	650	650	650	650
Alcove Width	F	690	810	890	1005	1210
Alcove Depth	G	490	490	490	490	490
Hearth Projection	H	300	300	300	300	300
Hearth Width	I	1000	1100	1180	1300	1500
Chimney Flue Size	J	150	200	200	250	250
Flue Liner	K	200	250	250	300	300
Fascia Width	L	740	860	940	1060	1260
Fascia Height	M	680	680	680	680	680
Fascia Section	N	80	80	80	80	80
Heat Output	kW					
Range**		4-5	6-7	7-8	8-9	9

* Dimension taken to the top of the firebox, NOT included the flue spigot. See NOTE on this page.

** Estimated unless stated otherwise.

Timber framing

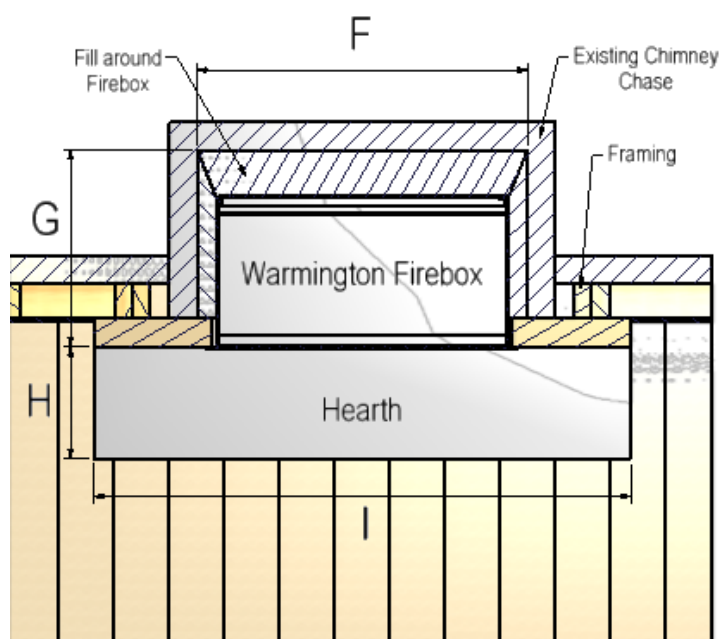
All combustible materials to be 50mm away from chimney structure (in accordance with appropriate Building Code).

Seismic Restraints:

Secure firebox in place with 2 x seismic restraints (not supplied). Can be drilled through Base of fire, using 2 x dynabolts to secure.

Minimum Flue Height

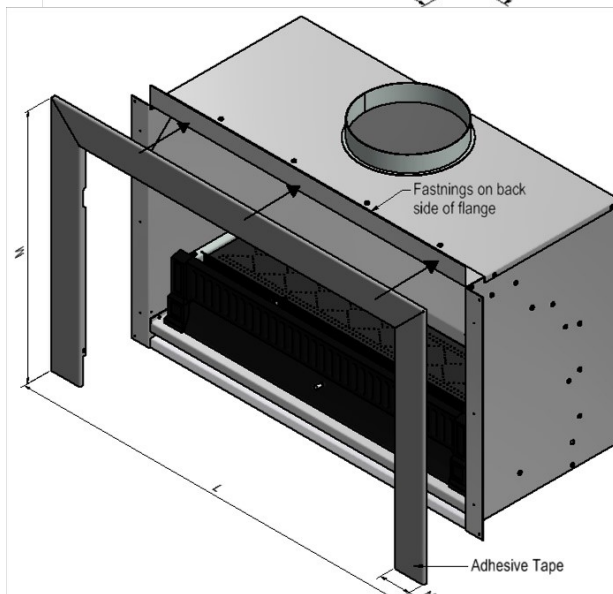
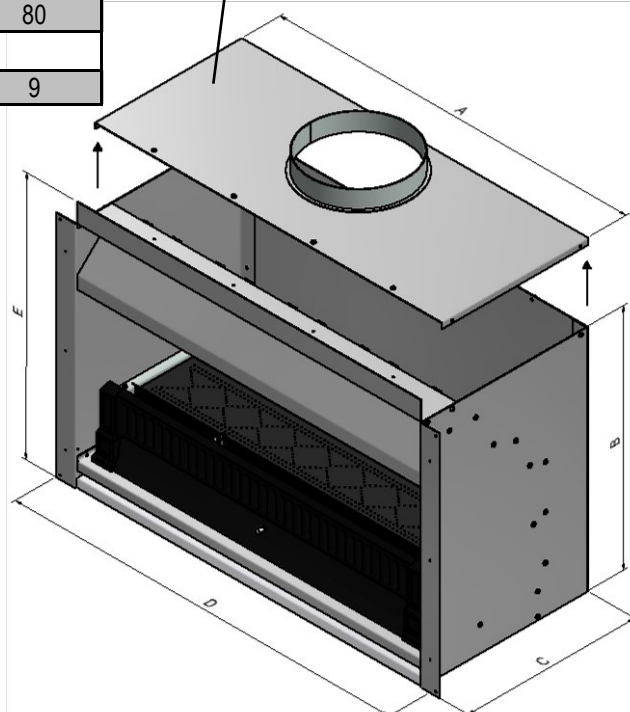
Top of hearth to the top of the cowl 4600 mm



Check List	Tick Box
Firebox	
Burner	
Grate	
Control Valve	
Badge	
Packed By	

NOTE:

The retro firebox can be ordered with or without the flue spigot and top plate, depending on if the installation is using an existing chimney or a new Warmington flue and/or liner.



FIREBOX INSTALLATION

This is a general Installation guide only – Contact a ‘NZHHA Installer’ for Installation Advice.

See: www.homeheat.co.nz, choose “members” & pick your Area & Fire type (wood / Gas etc) this will provide you with a NZHHA Certified Installer (use the SFAIT Installers Only).

When using the existing Chimney as the Flue System:

Ensure that the existing chimney complies to the Appropriate Standards & Building Codes.

If the Chimney is not sound or needs repair then a Flue System may be required through the existing masonry chimney.

The integrity of the chimney needs to be confirmed by the Installer or Gas Fitter at the time of Installation.

1. All the dimensions are millimetres.
2. Ensure that an Insulating Plinth is installed as per the Specifications. **Ensure that the plinth is elevated to allow for finishing on the Hearth. (See hearth and plinth details).**
3. Install Rockwool (Fire Resistant Insulation) or 75mm Hebel into cavity around firebox
4. Fit the firebox into the cavity, the flange should have a tight seal around opening of existing cavity. Bolt the Firebox to the plinth or through the floor. This may require drilling through Fire Base under the ashpan & bolting in place. (Seismic Restraints).
5. Install the Retro Flue/Cowl System. (see page 7).

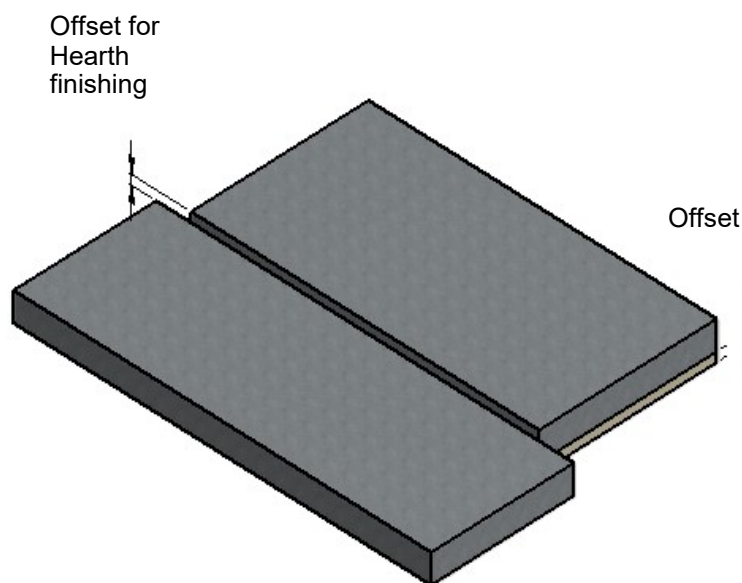
HEARTH & PLINTH CONSTRUCTION DETAILS

IMPORTANT NOTE:

Hearth and Plinth Construction.

For combustible flooring an insulating hearth and plinth of 75mm is required.

Plinth to be offset above Hearth for the Hearth finishing (eg: tiles/granite/plaster/etc).



***Note:** If Solid Plastering the Heat Cell Enclosure, it is recommended to use a Fibreglass Mesh with a Latex or Silicon Based Plaster to minimise the chance of the plaster cracking. (See your Solid Plasterer for correct materials and applications).

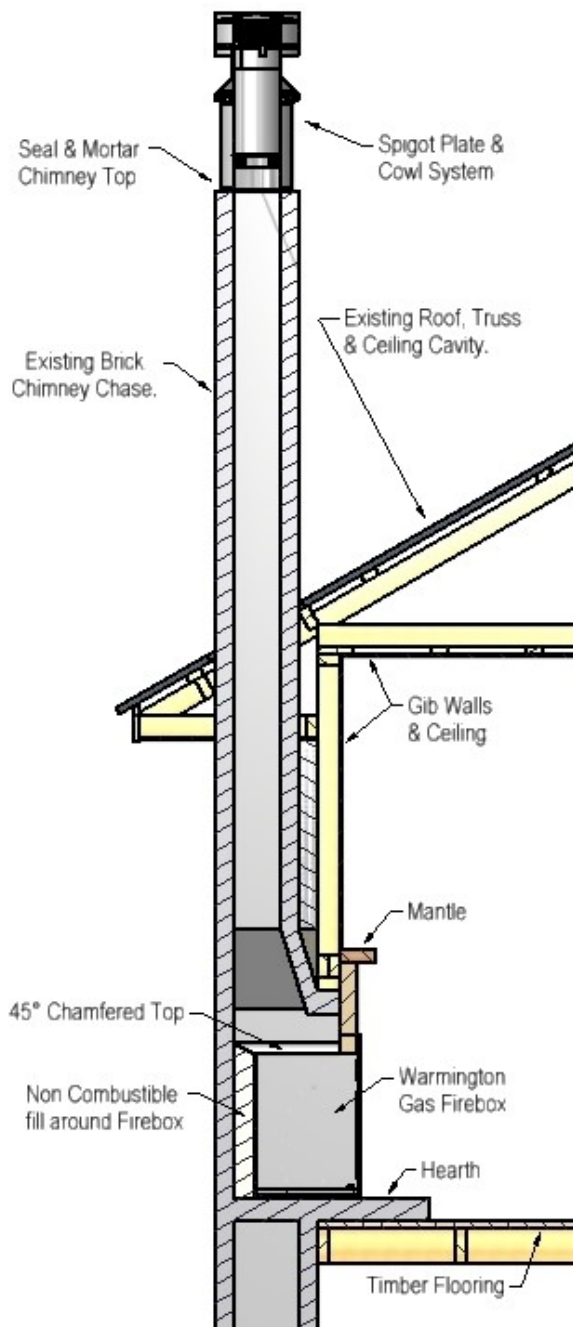
Visit the Warmington Web Site for ‘Hebel’ instruction (PDF Download). www.warmington.co.nz

OPTION 1: Using Existing Chimney as Flue

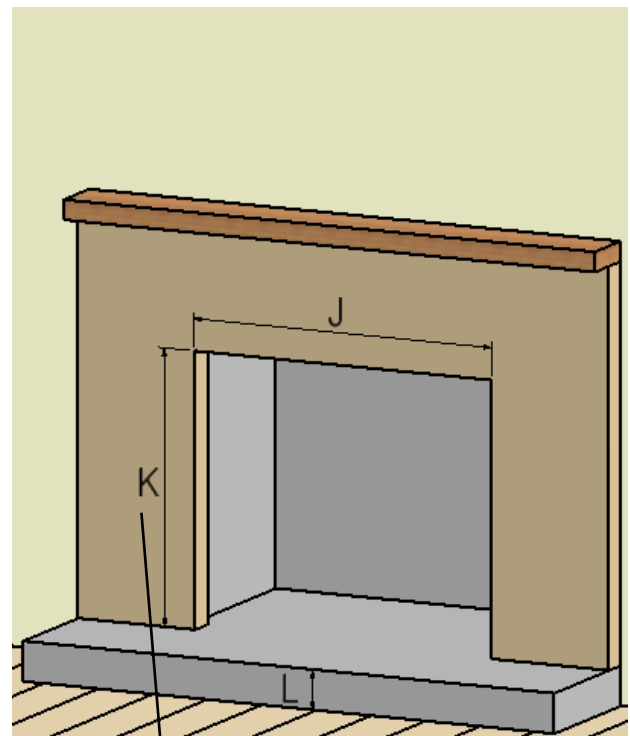
EXISTING FIREPLACE OPENING CLEARANCES

Firebox		SG/EG 600	SG/EG 700	SG/EG 780	SG/EG 900	SG/EG 1100
Window Width	J	600	720	800	915	1120
Window Height	K	610	610	610	610	610
Hearth Height	L	9	9	9	9	9

FIREBOX & CHIMNEY CHASE SECTION VIEW



EXISTING FIREPLACE OPENING CLEARANCES



NOTE:

The retro firebox can be ordered with or without the flue spigot and top plate, depending on if the installation is using an existing chimney or a new Warmington flue and/or liner. The K height might have to be larger if the flue spigot is supplied.

Note: Timber framing (to be confirmed by the Installer on site)

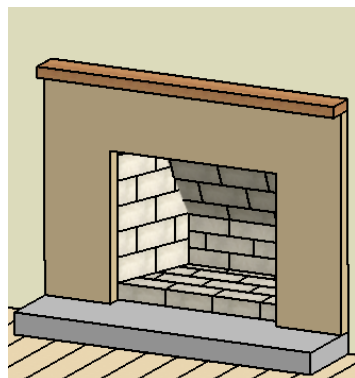
All combustible materials to be 50mm away from Chimney structure.

'CAITEC' AIR (Installer to check)

For fitment into Existing chimneys the 'CAITEC' is blanked off. This is due to the 'CAITEC' and the flue being in the same flue system.

Additional "CAITEC" Air can be provided by venting the home as close to the fireplace as possible. See concept of external air supply (not supplied).

STEP 1: REMOVE EXISTING FIREPLACE

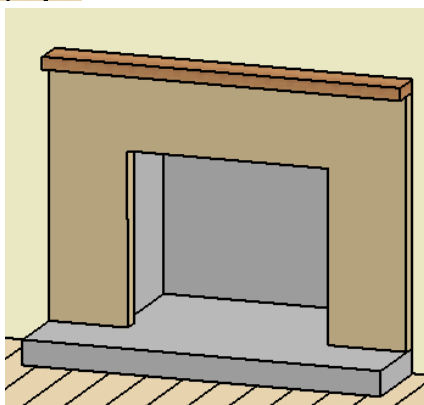


STEP 1a: Remove Fireplace

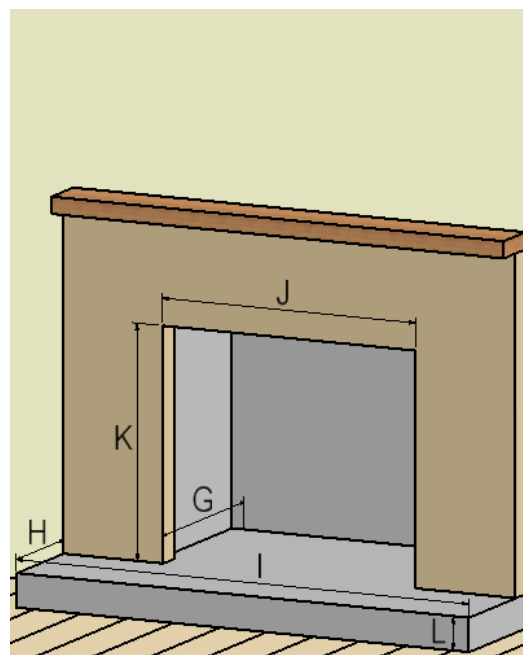
Once the main Chimney structure has been assessed & complies to C1 outbreak of fire, remove existing fireplace eg. brick or insert firebox.

STEP 1b: Clean out cavity

Once existing brick or insert Fireplace has been removed, Sweep out Chimney & remove all debris from Chimney cavity.



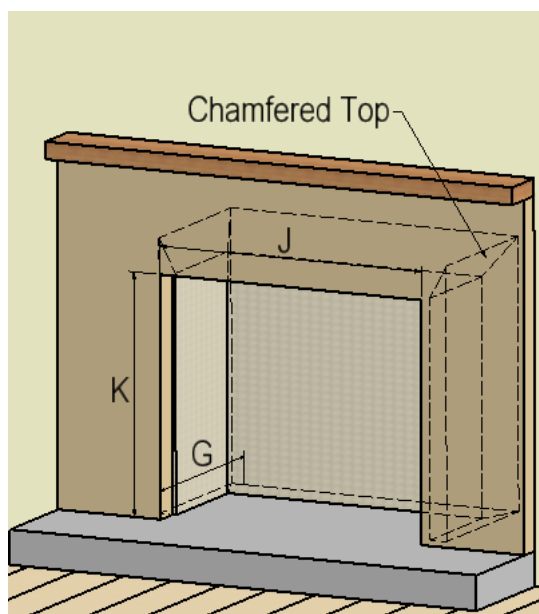
STEP 2: MEASURE ALCOVE & HEARTH



STEP 2: Check Cavity size

Check cavity sizes as above to suit firebox. In most cases reducing or enlarging these dimensions may be required to suit Firebox.

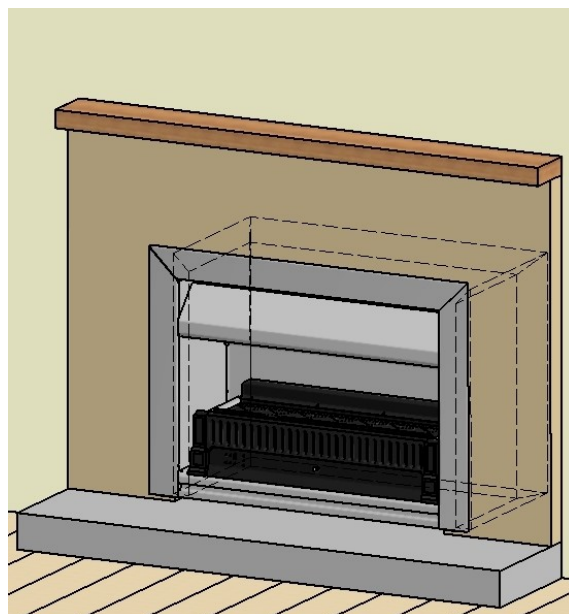
STEP 3 : FILL VOIDS AROUND FIREBOX



STEP 3: Fill Voids Around Firebox

Mark out firebox size on plinth & fill void around firebox with non combustible material eg: rockwool insulation or Hebel panels is recommended. Chamfer top of fill.

STEP 4 : INSTALL FIREPLACE & SEAL



STEP 4: Install Firebox in Place

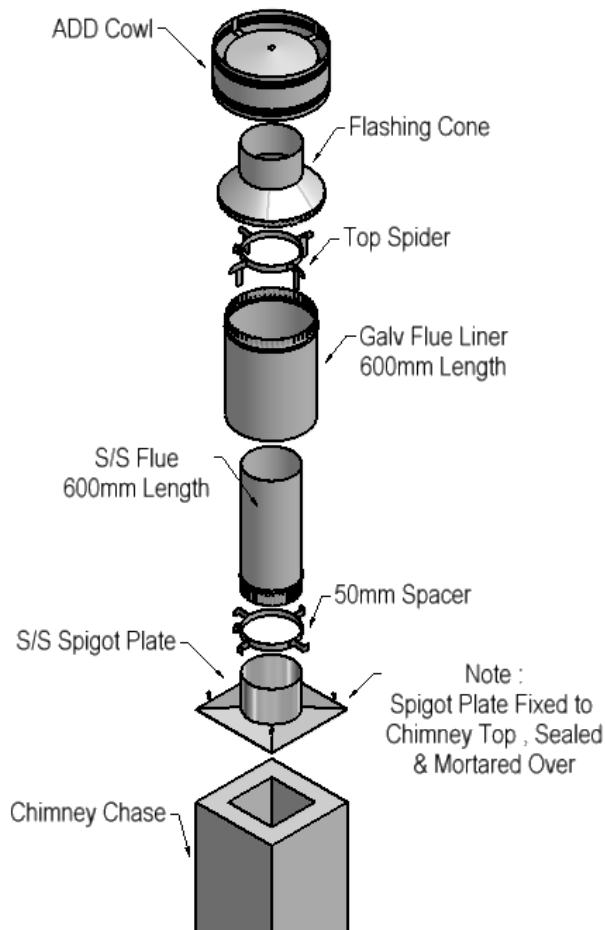
Slide firebox into place ensuring a tight seal is created on inside of firebox flange against mantel face. Heat resistant sealant may need to be used. Secure firebox in place. This can be done by drilling & bolting through base under gas burner. Drill to suit.

SUGGESTED CHIMNEY CHASE FLASHING DETAILS (using existing chimney as the flue)

Using the Existing Chimney as the flue system.

Ensure that the existing chimney complies to the Appropriate Standards & Building Codes.

Retro Fit Chimney Flashing Detail



NOTE :

Chimney top flashing must be installed in a weather proof manner. No water should be able to get down chimney chase at any time.

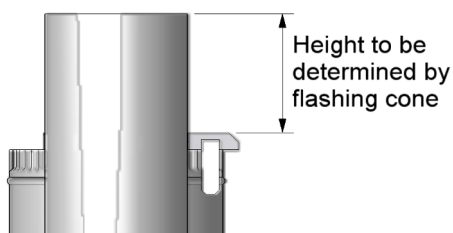
SUGGESTED FLASHING & COWL SYSTEM INSTALLATION

Suggested Installation Details:

1. Remove existing cowl system & clean/remove any debris at top of chimney chase.
2. Cut the spigot plate 20mm+ smaller than chimney top if necessary, & dynabolt or fix in place, centred on chimney top. Seal around spigot with sealant. Mortar plaster over the spigot plate & create runoff for water.
3. Rivet flue to spigot plate in place & install spacer near bottom of flue.
4. Cut liner down to suit cowl & cone system using the steps outlined below.
5. Bird protection by Installer if necessary.

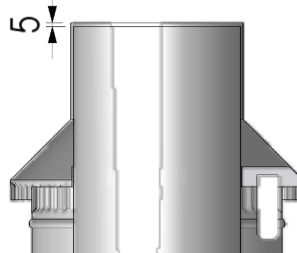
SETTING A.D.D COWL & FLASHING CONE HEIGHT

STEP 1



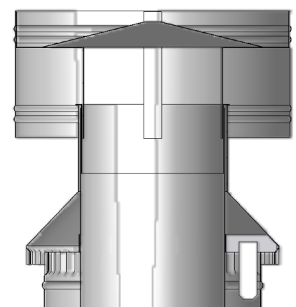
STEP 2

Flue 5mm Below Top Of Flashing Cone



STEP 3

ADD Cowl Sits on Top of Flashing Cone, screw to secure

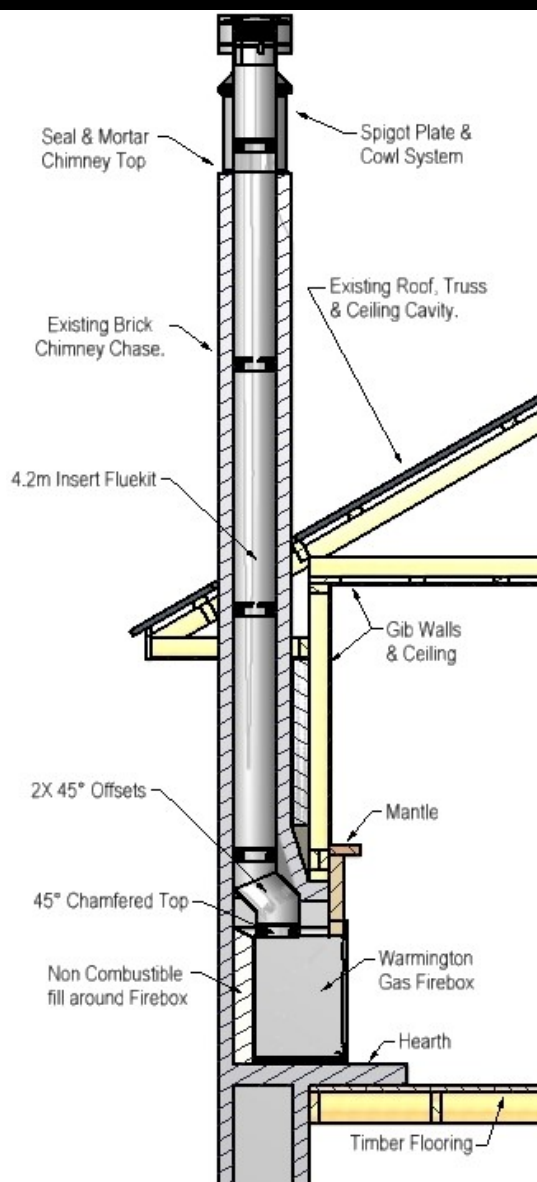


OPTION 2 : Using Offset Adaptor & Insert Fluekit

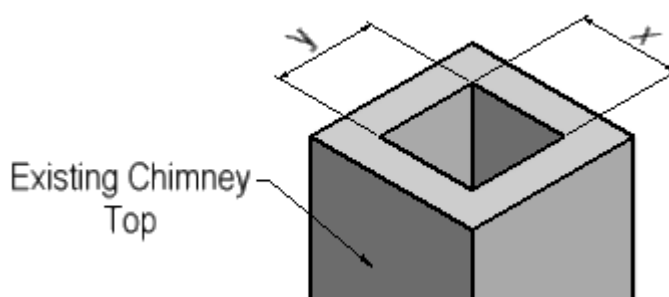
SUGGESTED CHIMNEY CHASE FLASHING DETAILS

Firebox		SG/EG 600	SG/EG 700	SG/EG 780	SG/EG 900	SG/EG 1100
Flue	K	150	200	200	250	250
Flue Liner	L	200	250	250	300	300

FIREBOX , OFFSET ADAPTOR & FLUE SYSTEM SECTION VIEW



FLUE SIZE REQUIREMENTS



Installing a Flue System into the Existing Chimney

x & y measurements must be larger than the required flue and liner size, i.e. K and L from above table.

'CAITEC' AIR (Optional - by Installer)

If an adaptor and a stainless steel flue system is fitted to the fire within the existing masonry chimney, then the 'CAITEC' Blanking Plate can be removed. The existing masonry fire place can be vented to an external air supply at the lowest level and the full advantages of: 'CAITEC' air will be provided.

Installing a Flue System into the Existing Chimney

Ensure that the existing chimney complies to the Appropriate Standards & Building Codes.

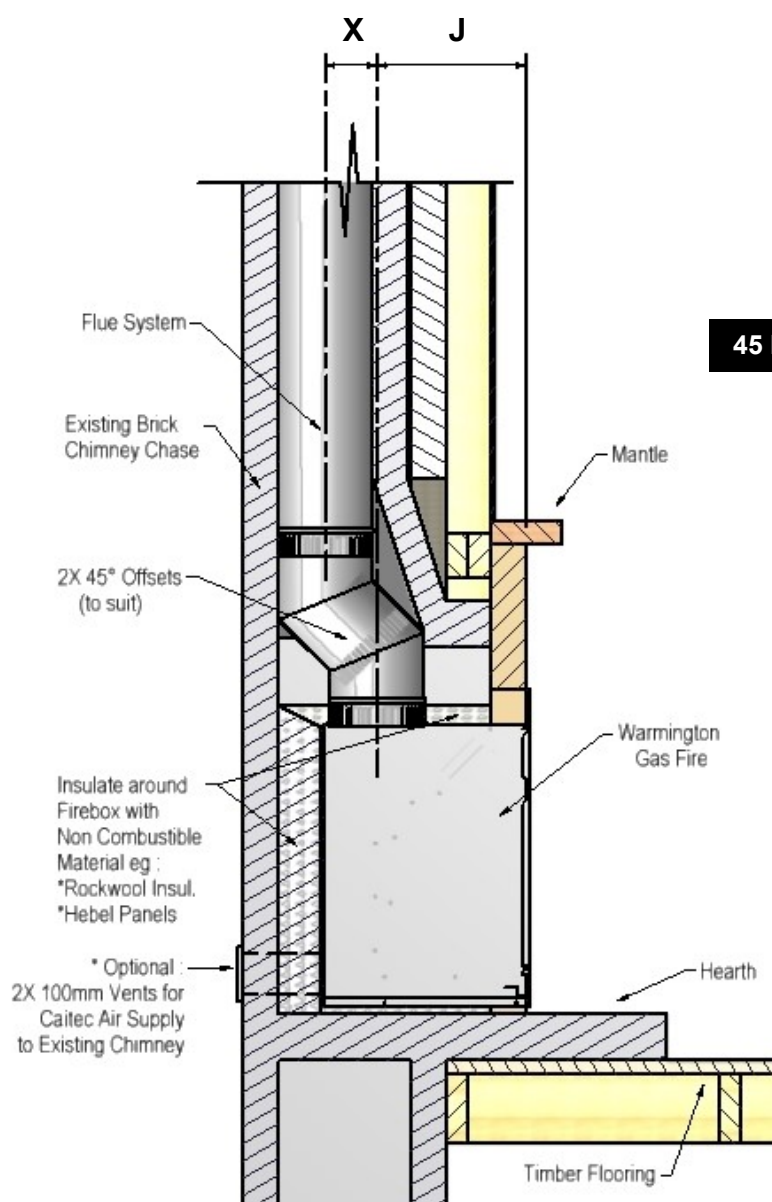
The integrity of the chimney need to be confirmed by the Installer at the time of Installation.

If the chimney is not sound or needs repair, a flue system may be required through the existing masonry chimney. Repair the chimney so that it is structurally sound and prepare the chimney for a flue system.

MEASURING FOR 45 DEGREE OFFSET

Firebox		SG/EG 700	SG/EG 700	SG/EG 780	SG/EG 900	SG/EG 1100
Centre of Flue	J	320	315	315	285	285
Flue	K	150	200	200	250	250
Flue Liner	L	200	250	250	300	300

45 DEGREE OFFSETS



45 DEGREE OFFSETS



TELESCOPIC OFFSETS



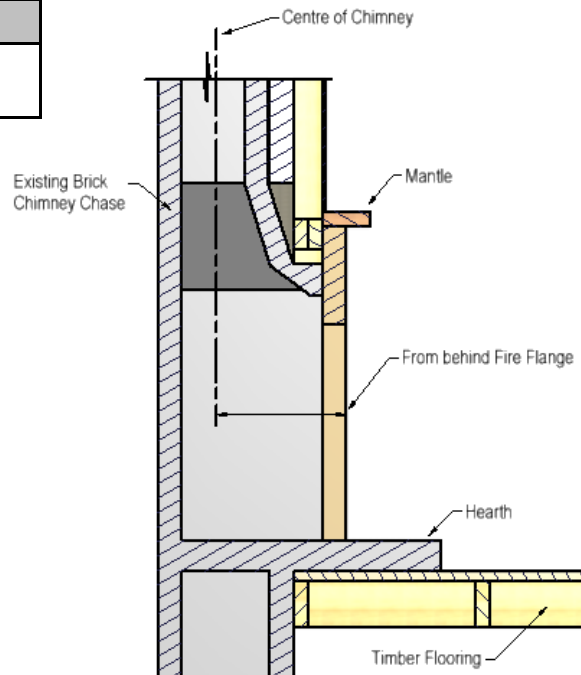
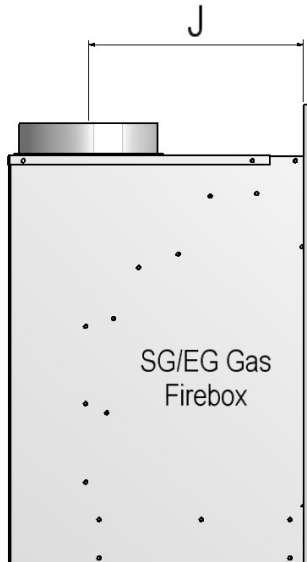
OFFSET DETAIL:

The measurement X is determined by the distance J & the centre of the existing Chimney Flue, once this is determined the offsets can be made to suit to required distance.

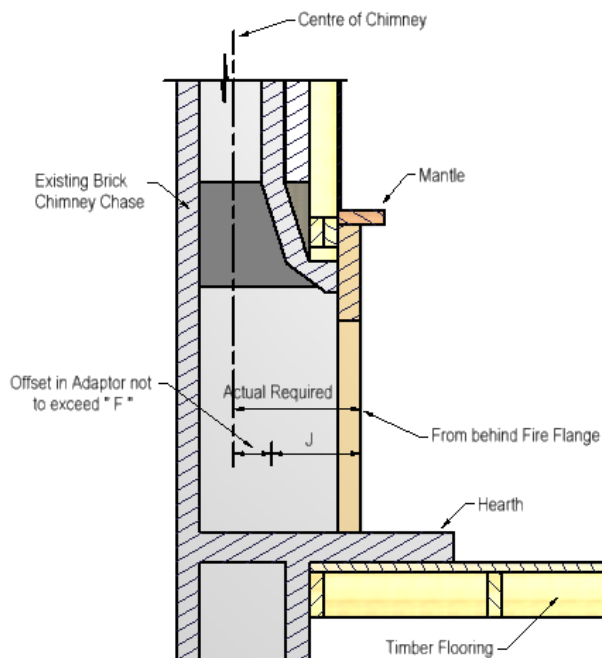
MEASURING FOR OFFSET ADAPTOR

Standard Flue Centre

Measurements for Standard Flue Centre "J" in the table below from Firebox (inside) Flange to Flue Spigot Centre.



Firebox		SG/EG 700	SG/EG 700	SG/EG 780	SG/EG 900	SG/EG 1100
Centre of Flue	J	320	315	315	285	285
Flue	K	150	200	200	250	250
Flue Liner	L	200	250	250	300	300



Chimney Chase Flue Centre

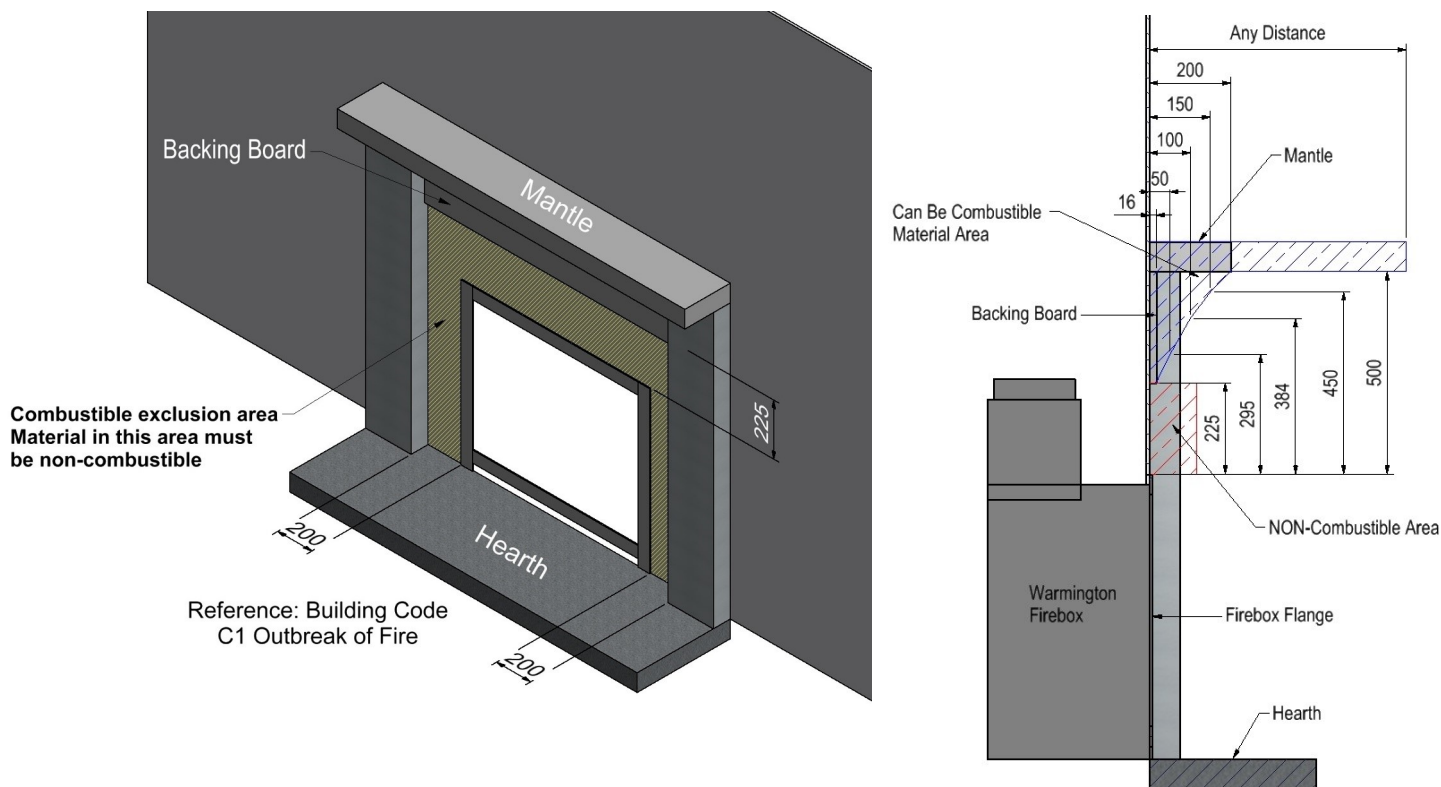
Measure flue centre from face of Mantle opening (inside of firebox flange) to the chimney chase flue centre.

NOTE: If the Warmington fire is not finishing up to the Mantel face, then the chimney flue centre is to be taken from behind the Warmington fire flange.

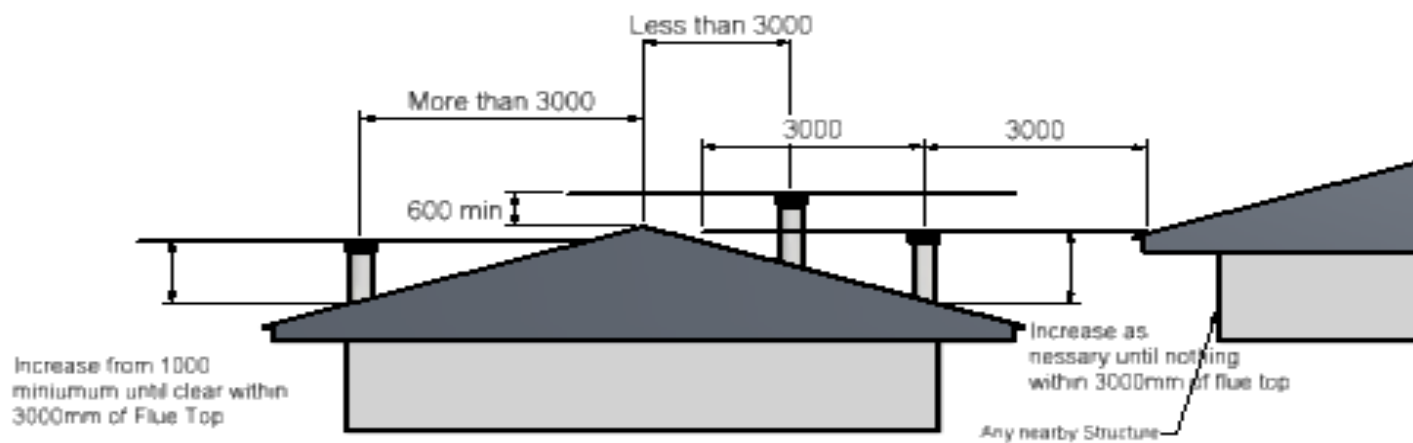
Offset Measurement Required

The distance required to make an offset is the difference between 'J' & the 'actual required' overall measurement.

COMBUSTIBLE MANTLE CLEARANCES

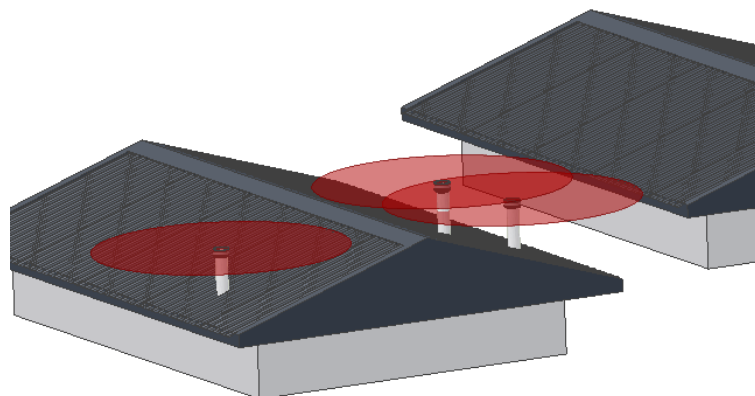


FLUE HEIGHT MINIMUM DETAILS

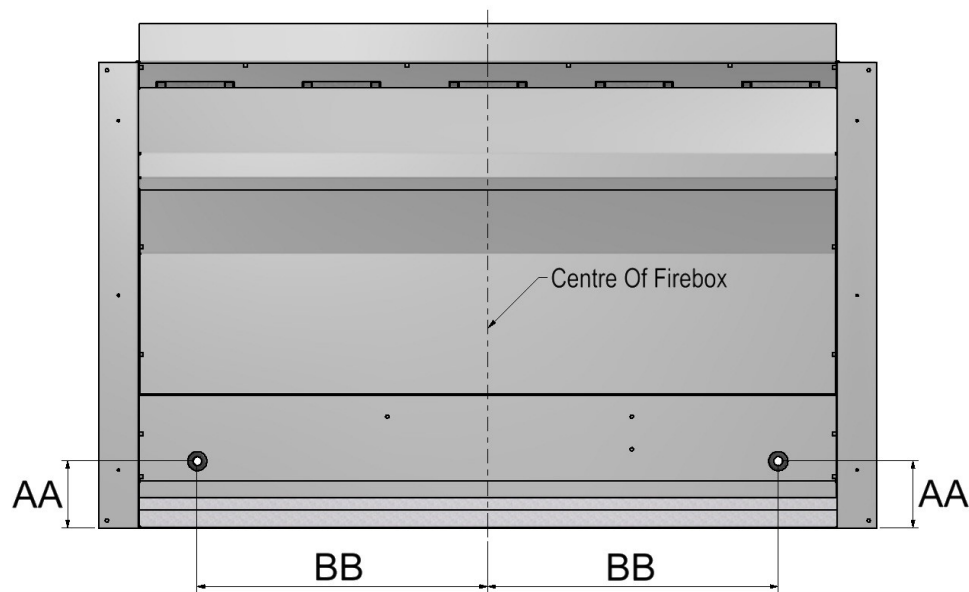


The flue penetration is to comply to relevant standards.

3D View

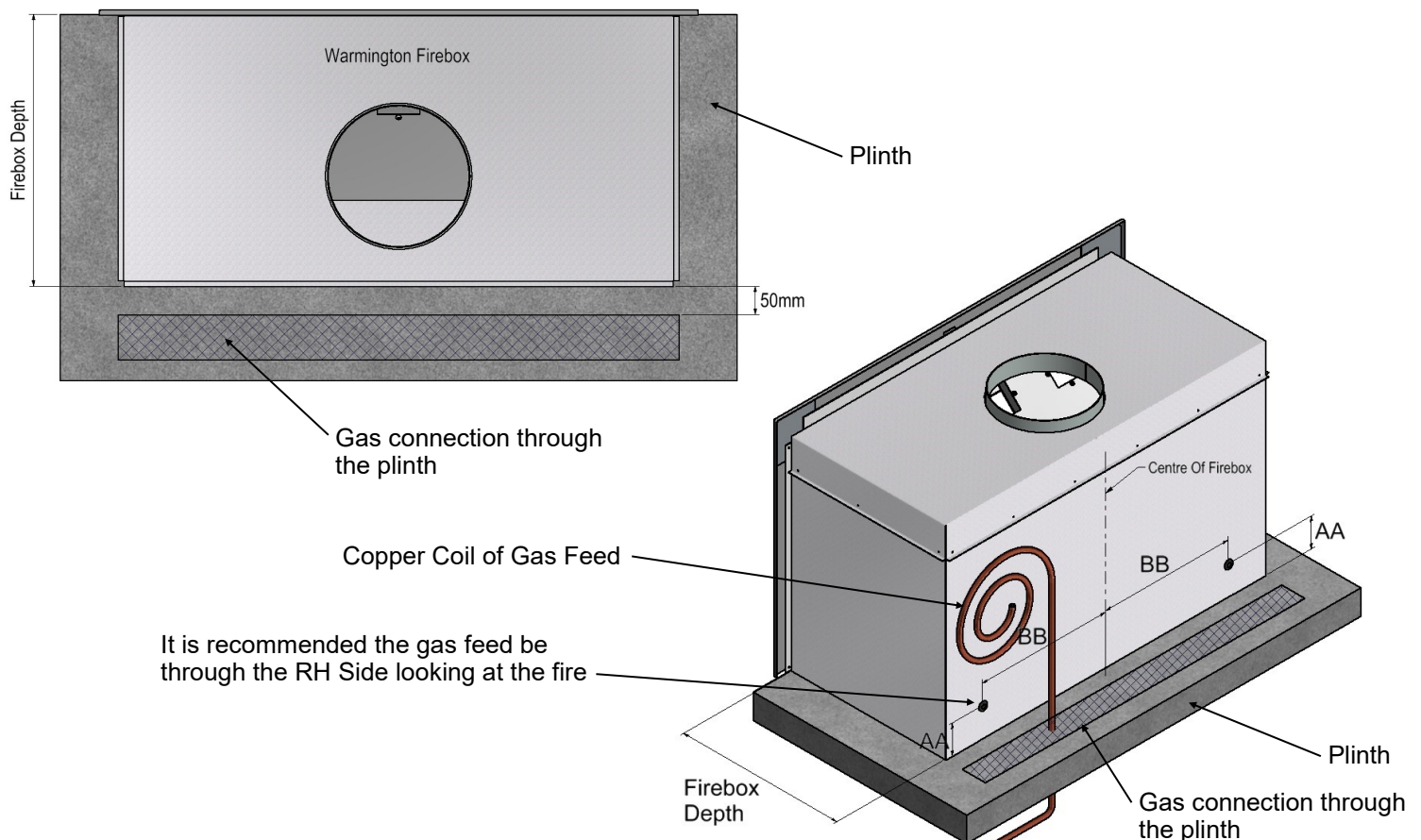


GAS SUPPLY & ELECTRONICS LOCATION



Firebox		SG / EG 600	SG / EG 700	SG / EG 780	SG / EG 900	SG / EG 1100
From Base Of Firebox	AA	86	86	86	86	86
From Centre Of Firebox	BB	215	275	315	375	475

CONCEPT THROUGH CONCRETE SLAB



Due to continued product improvement, Warmington Ind LTD reserves the right to change product specifications without prior notification.

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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 Warmington 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 current Electricity Act.

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

(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.

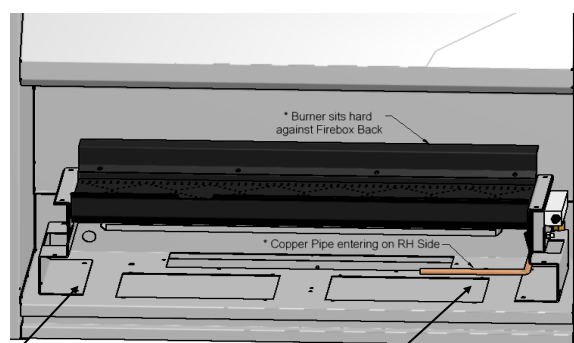
Extinguish appliance, remove test equipment and secure test nipple. Check for Gas Leaks.

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.
- Clean and or touch up paint of fire box and burner
- Hand over to client, tests and comply to relevant standards.

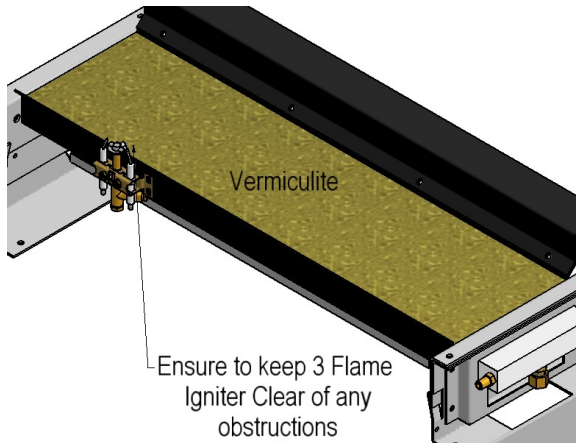
FITMENT OF BURNER



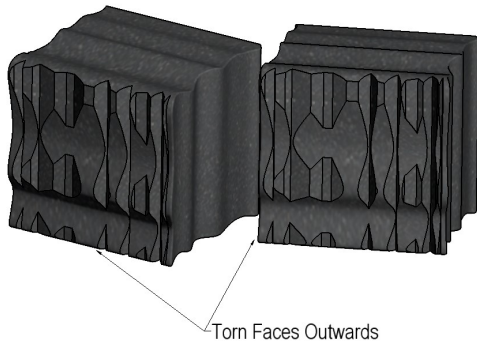
Burner may be Secured To the Firebox (Optional)

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

VERMICULITE (COARSE) - to be set by Gasfitter



General Coal orientation for optimum effect.



APPLYING THE VERMICULITE: (coarse - 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.

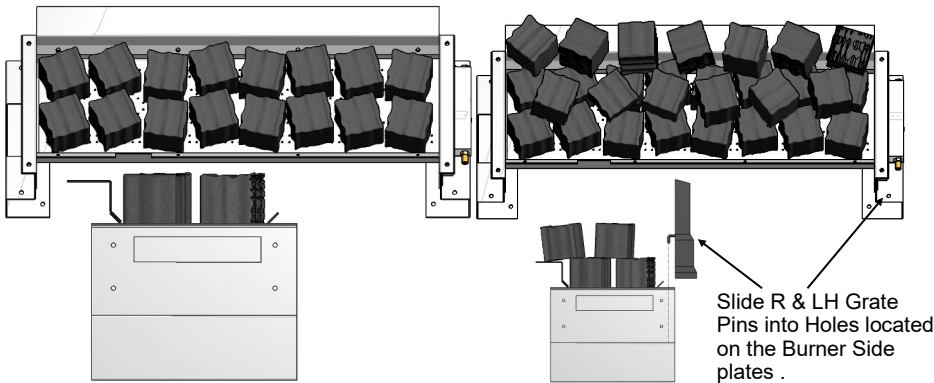
COALS AND LOGS - to be set by Gasfitter

Gloves should be worn when handling ceramic fibre Coals & Logs: as the carbon on the coals can stain the surroundings.

HELPFUL HINT: When use metal tongs when hot.

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

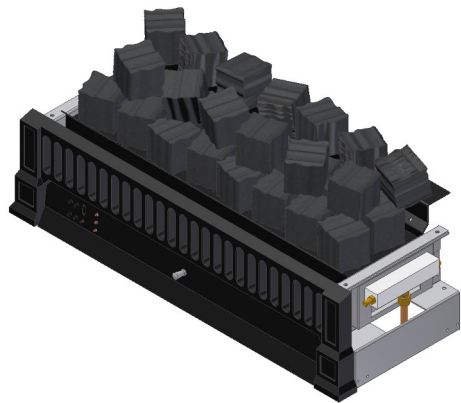
1: Bottom Row: Assemble 2 Bottom Rows of coals onto the Vermiculite Base. **2: Top Row:** Assemble 2 top rows of coals onto the bottom row.



1: bottom row

2: top row

Each coal randomly positioned with the torn (roughest) facing outward. **Ensure coal positioning does not directly block the 3 Flame Pilot .**



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

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 .

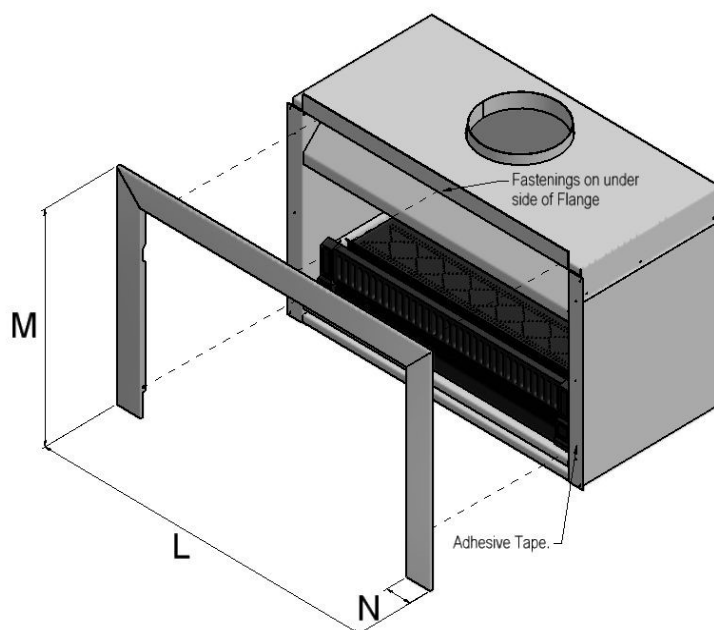
	Number of Coals per Row		Number of Rows		Total Coals
Model	Bottom	Top	Bottom	Top	Total
SG / EG 600	5	4	2	2	18
SG / EG 700	6	5	2	2	22
SG / EG 780	8	6	2	2	28
SG / EG 900	10	9	2	2	38
SG / EG 1100	11	10	2	2	42

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All Dimension are in mm.....Copyright ©

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 WARMINGTON GAS CONVECTION FIRE (SG ONLY)

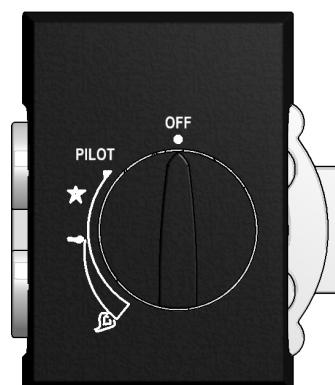
Your Fire must be Installed and tested by a suitably qualified Gasfitter prior to use.

To light:

- Open the front cover by pulling in outwards.
- Push in the ignition control switch and hold in the 'PILOT' position for 5-10 seconds until you can hear the gas come through the pipe – making sure the ignition switch is pressed in firmly.
- To strike the igniter, turn anti clockwise to the * **STAR** position (with the ignition switch still firmly pressed in) until you hear the pilot ignite with a 'click'. Repeat this process 2 or 3 times if necessary.
- Once the pilot flame is lit, hold this position for 3-5 seconds, then gently let the ignition switch out, and set the flame control to high. It may take a few seconds for the burner to light all the way across.
- Once the flame is established, adjust to the desired setting and close the cover.

To shut down:

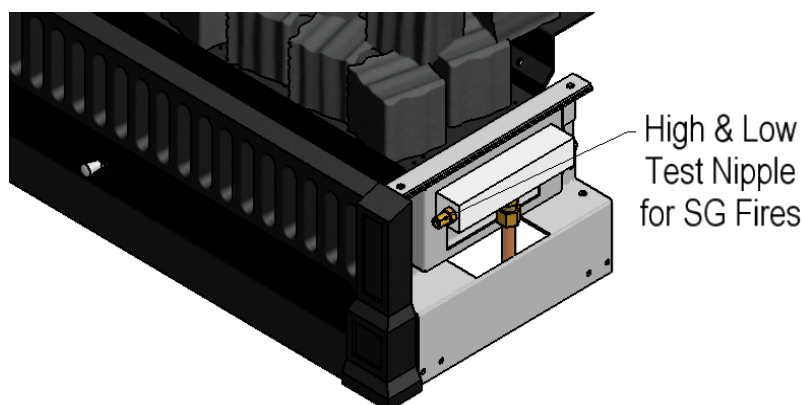
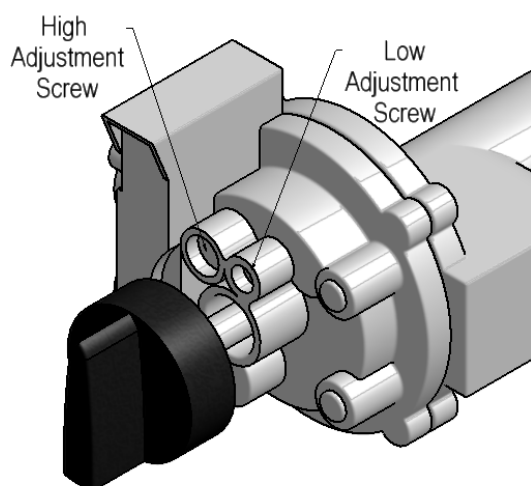
- Open the cover by pulling it outwards.
- Turn the control ignition switch to 'PILOT' and the flame bed will extinguish.
- Pilot light may be left on and the pilot flame will still burn.
- To fully extinguish, turn to the 'OFF' position before closing the cover.



ADJUSTMENT OF HI / LOW PRESSURE - SG ONLY
Adjusted by Gasfitter 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

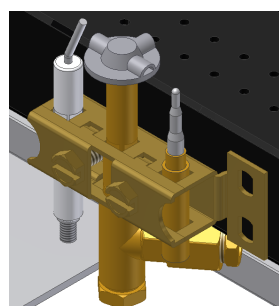
ADJUSTMENT OF THE PILOT - 3 FLAME for BOTH SG & EG
Adjusted by Gasfitter ONLY

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.

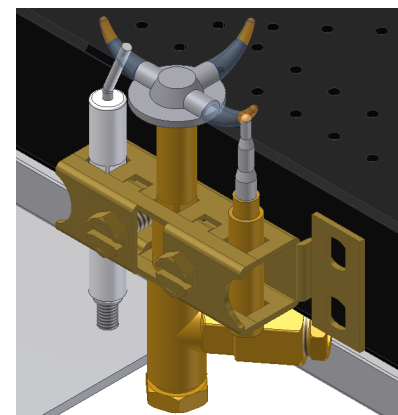
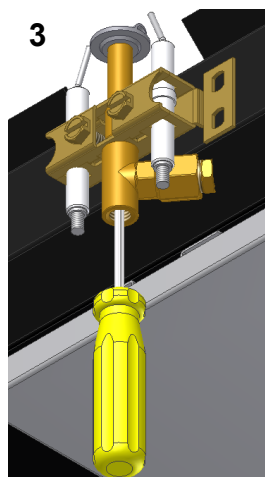
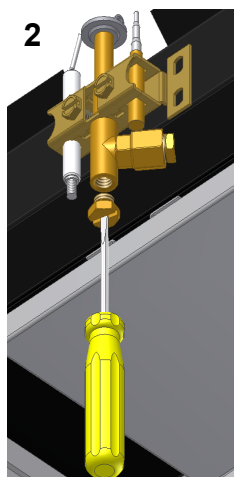
- Adjustment of Pilot - 3 Flame: Unscrew base screw as shown in Diagram 2.
- Insert a screwdriver as shown in Diagram 3 and adjust the adjustment screw up inside the 3 Flame Pilot to adjust the flame height.
- The flame must always be passing over the Electrodes &/or File Tube on either side.
- Replace the Base screw and check for leaks.

Note: to Gasfitters

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 from their point of fixture or installation during seismic activity.

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)
- Call your gas supplier/gasfitter or the Fire Service for further advice.

MAINTENANCE: All burner settings, coal placement and vermiculite is to be checked and set in accordance with this specification by the Service person/Gasfitter

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

Warmington Industries recommend annual servicing of your gas fire by an approved Warmington dealer Gasfitter.

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

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

The Warranty Covers:

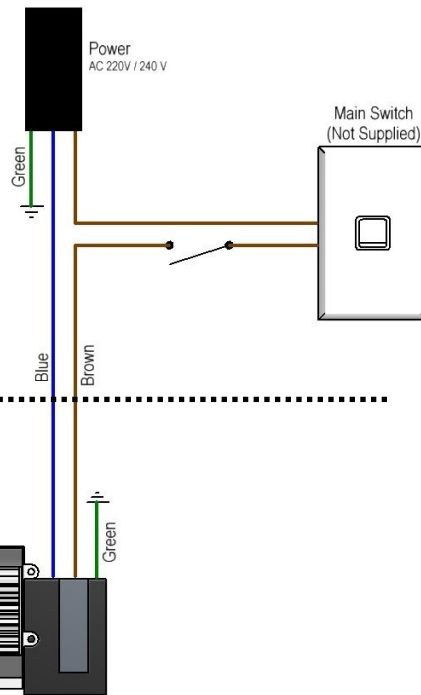
- Replacement Parts and Labour for Gas Control Components due to Manufacturing Defects Only.
- Repair or Replacement of the Burner or Firebox Components due to Manufacturing Defects Only.
- Warranty cover will be considered void if the product is subject to incorrect installation, failure to operate 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 Gasfitter.

Option 1:

Single speed fan as additional option, on SG units or EG units without remote controlled electronics (eg. units with on/off, hi/low switches on the wall).

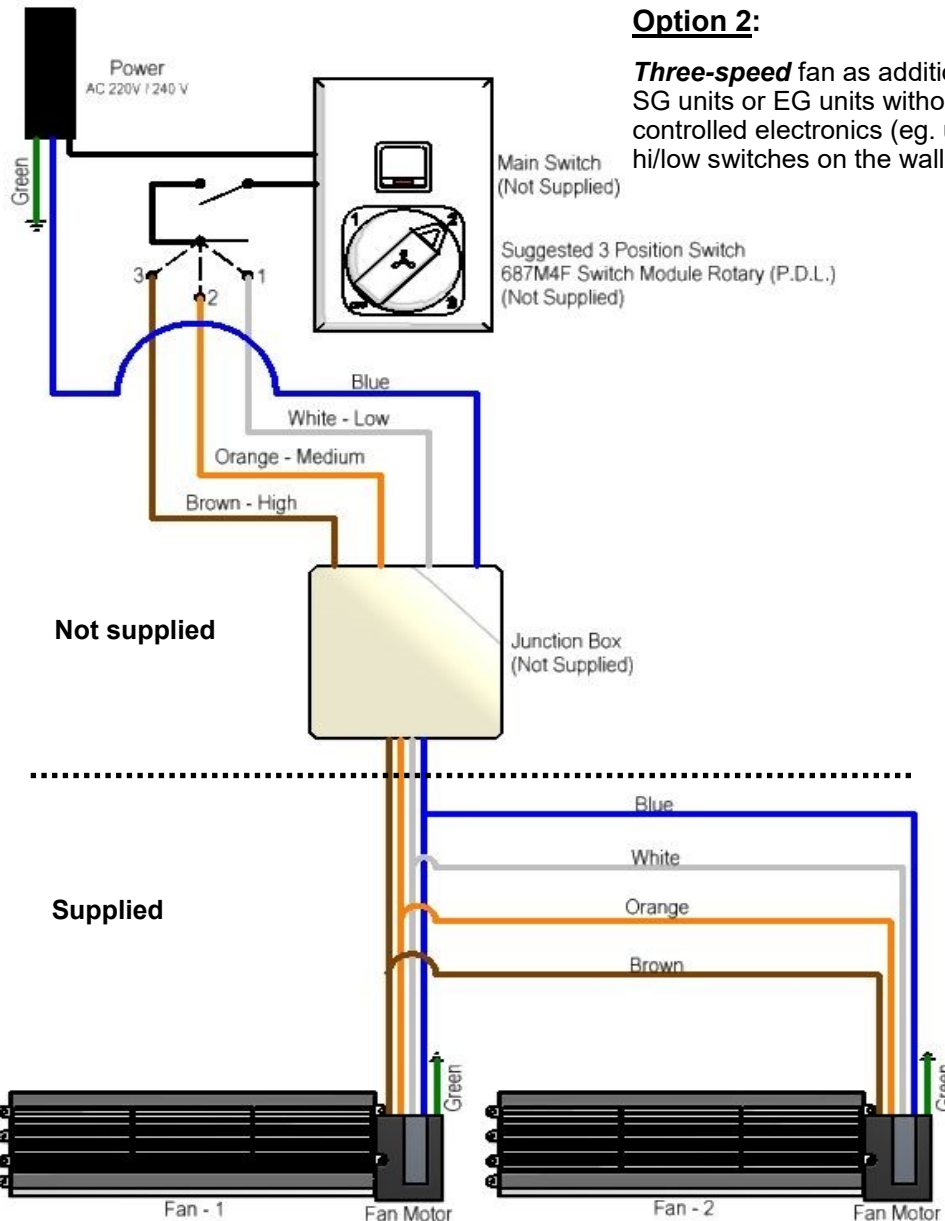
Not supplied

Supplied



Option 2:

Three-speed fan as additional option, on SG units or EG units without remote controlled electronics (eg. units with on/off, hi/low switches on the wall).



ON-OFF ELECTRONIC CONTROL VALVE

Note: Any alterations to pressure are to be carried out by a certified gasfitter

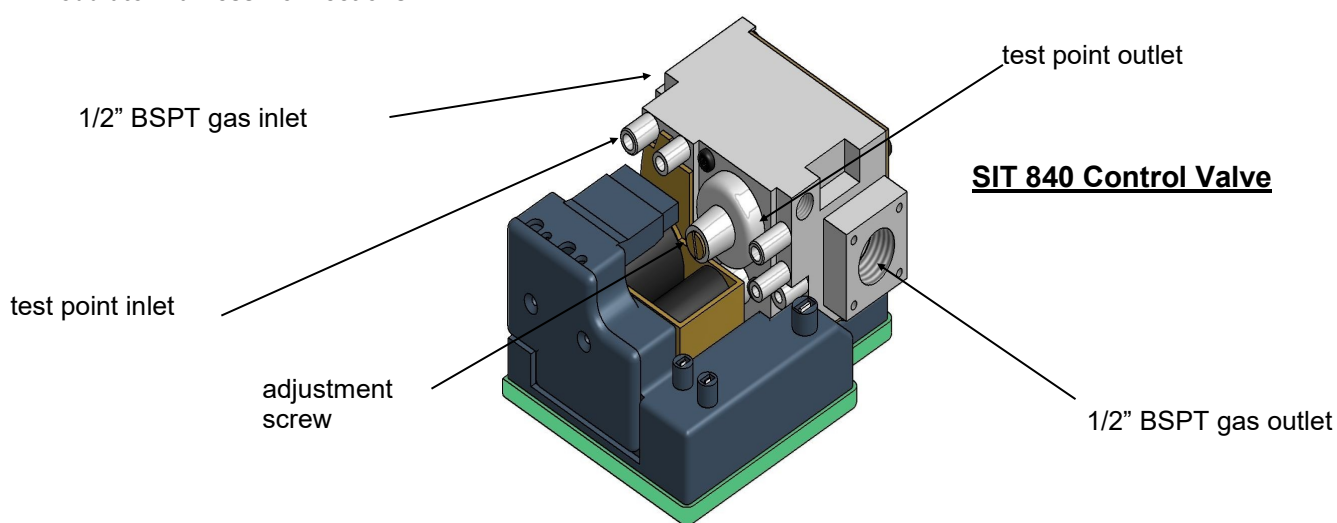
- Light appliance and check the pressure to the hi kPa value in the table for maximum output.
- If adjustments are necessary, remove the dust cap on the control valve. The pressure adjustment screw is on the front side of the gas control valve and is factory set.

WARNING: Ensure that the dust cap is replaced after adjustment.

Pressure Setting:

- Turn the burner on with the switch and wait for full ignition. Using a standard screwdriver, screw the adjusting screw clockwise to increase the outlet pressure, or screw counter clockwise to decrease the pressure to the desired settings.
- Set the pressure to the hi kPa value in the table for maximum output.

Modulator Harness Connections

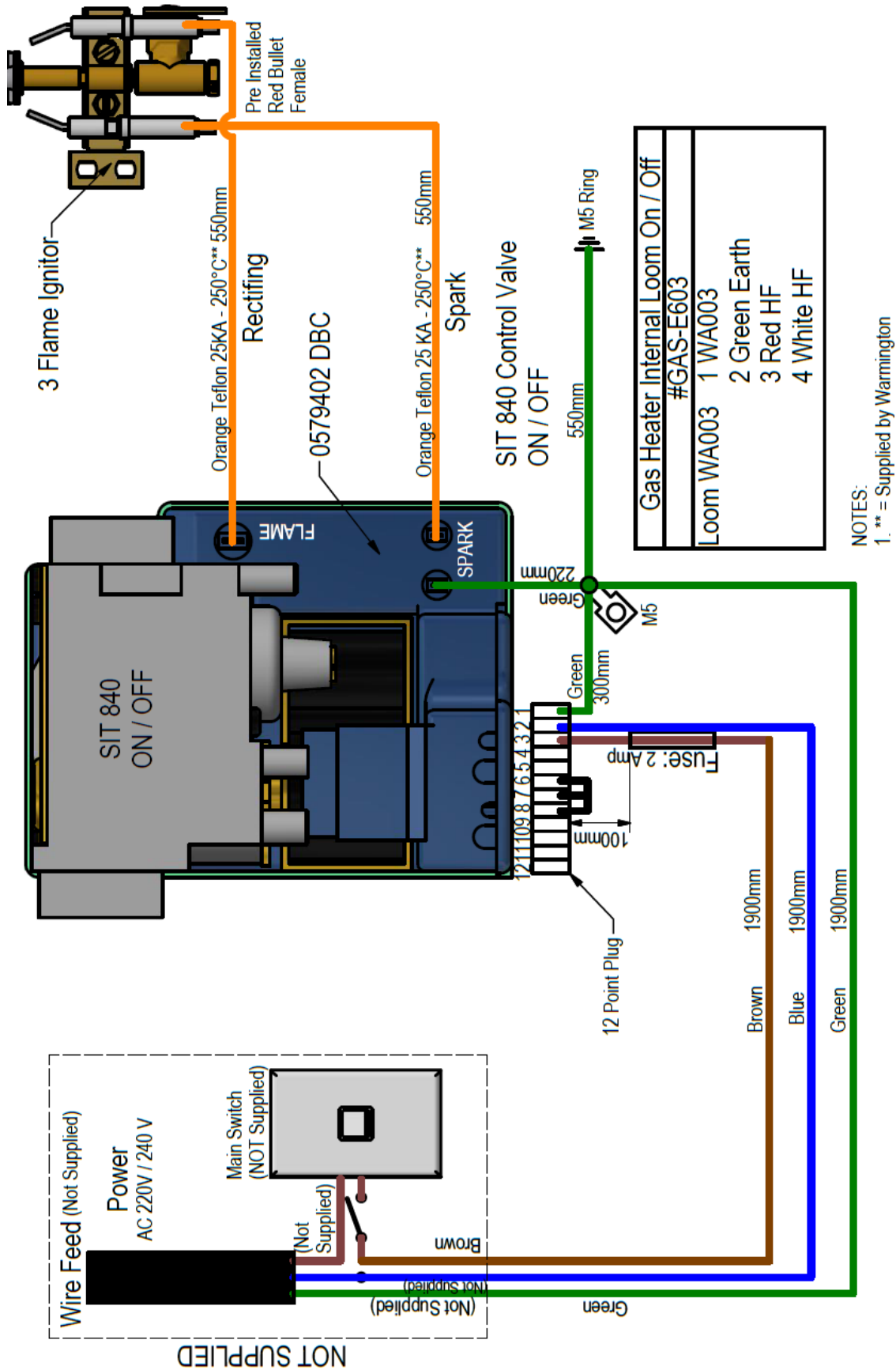


- After checking the pressure, turn the unit off, remove manometer from the test point and tighten the test point screw. Ensure to check for gas leaks.
- Turn the appliance on and off a few times to check ignition.
- When satisfied that the appliance is working correctly, fit the front panel assembly 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.
- 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 burn period, some smoke and smell may be experienced. Because of this, run the appliance on the high position in a well ventilated room until these dissipate.

ON/OFF SWITCH (SIT 840) - WIRING DIAGRAM



ON-OFF-HIGH-LOW ELECTRONIC CONTROL VALVE

Note: Any alterations to pressure is to be carried out by a Certified Gas Fitter.

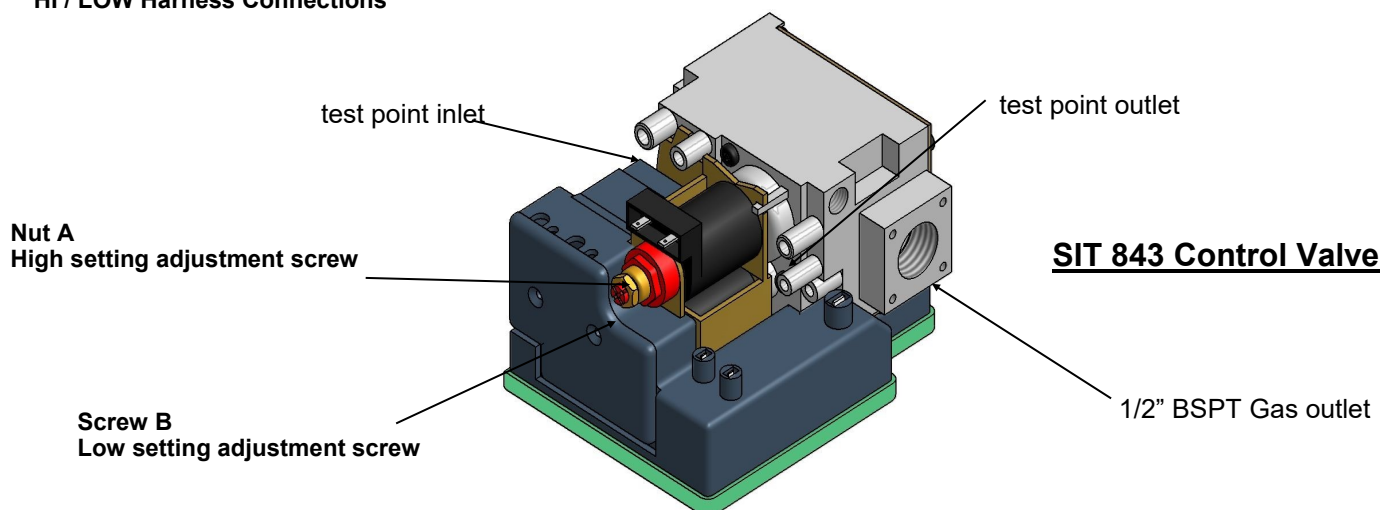
- Light appliance and check the pressure to the high and low kPa values in the gas specification table.
- If adjustments are necessary, remove the dust cap on the control valve. The pressure adjustment screw is on the front side of the gas control valve and is factory set.

WARNING: Ensure that the dust cap is replaced after adjustment.

Pressure Setting:

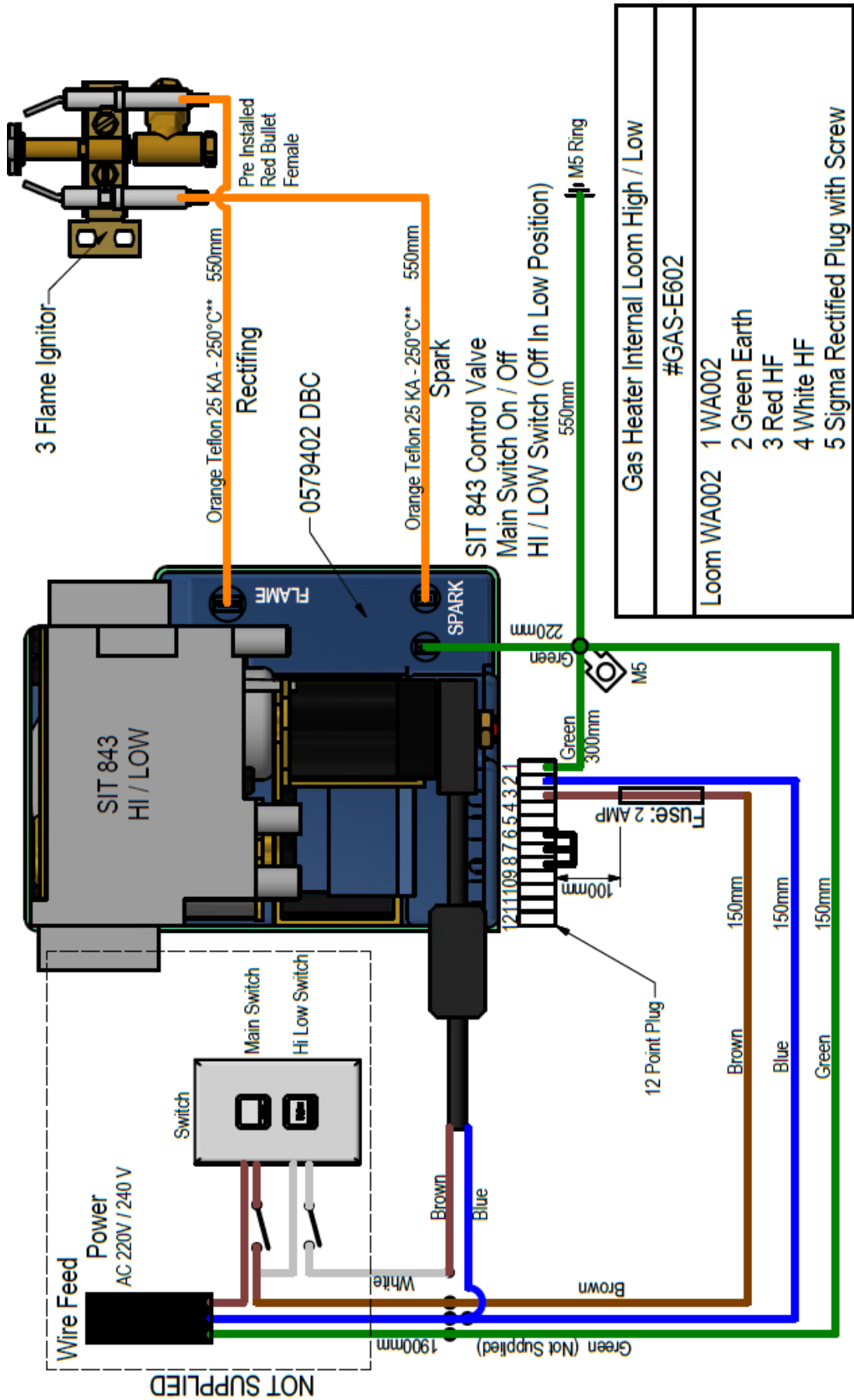
- Turn the burner on with the switch and wait for full ignition.
- If adjustments are necessary, remove the cap. The Pressure Adjustment Screw and Nut are on the Front Side of the Gas Control Valve (shown in diagram **below**) and are **Factory** set.
- **High Pressure Setting:** Set the Burner to High with the switch. 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:** Set the Burner to Low with the switch - (See Wiring Diagram) 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.
- Set the pressure to the hi kPa value in the table for maximum output. The burner will operate any pressure between the hi and the low pressures.

HI / LOW Harness Connections



- 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.
- Turn the appliance on and off a few times to check ignition.
- When 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.
- 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 burn period, some smoke and smell may be experienced. Because of this, run the appliance on the high position in a well ventilated room until fumes dissipate.

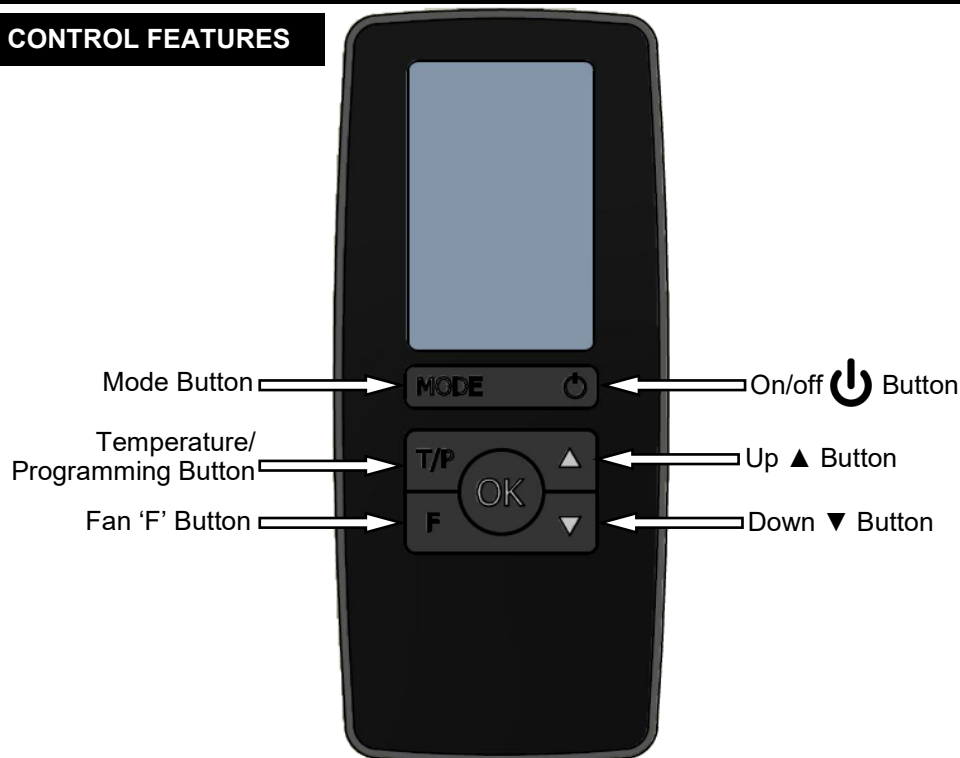
HIGH/LOW SWITCH (SIT 843) - WIRING DIAGRAM



NOTES:
1. ** = Supplied by Warmington

OPERATION OF YOUR REMOTE CONTROLLED EG GAS BURNER (SIT 845 valve)

REMOTE CONTROL FEATURES



Press and release the  button to turn the remote on and off.

SETTING THE DAY OF THE WEEK AND TIME

With the remote off, press and hold the 'T/P' button for 2 seconds or longer to initiate programming the time. The Time, Hour setting and AM/PM will flash.

Setting the hour function: Press and release the ▲ or ▼ button to increase or decrease the hour setting by 1 hour. Please ensure that AM/PM is set correctly. Press 'OK' to accept. The minute digits will begin to flash.

Setting the minute function: Press and release, the ▲ or ▼ button to increase or decrease the minute setting by 1 minute. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the minute setting by 1 minute every 0.5 seconds. Press 'OK' to accept. The days of the week will begin to flash.

Setting the day of the week function: Press and release the ▲ or ▼ button to change the day of the week to the following or previous day. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the day of the week by 1 day every 0.5 seconds. Press 'OK' to complete setting. The time and day of the week is now set.

USING THE VARIOUS MODES

While the remote is switched on, pressing and releasing the MODE button will cycle between all available modes. These are:

Manual Mode→Auto Mode→Flame Mode→Manual Mode

Manual mode

Manual mode does not require that the time and day of the week to be set. Press the ▲ or ▼ button to increase or decrease the temperature as desired. The Fan speed can be adjusted at any time by pressing the 'F' button. Pressing and releasing the 'F' button will cycle through fan speeds of 1, 2, 3 Off and back to 1.

Automatic mode

The automatic mode allows the temperature to be regulated according to a programmed level and time. At any time, the temperature may be adjusted up or down. However, whenever the remote changes to a new time period, the temperature will be set automatically according to that period's setting. The Fan speed can be adjusted at any time by pressing the 'F' button. Pressing and releasing the 'F' button will cycle through fan speeds of 1, 2, 3 Off and back to 1. Note, that the fan speed will not change automatically, but remain at the last selected speed.

Flame Mode

In Flame mode the flame level is selected as required, and remains at the selected level. A change in the temperature will not change the flame level. Press the ▲ or ▼ button to increase or decrease the Flame level desired. The Fan speed can be adjusted at any time by pressing the 'F' button. Pressing and releasing the 'F' button will cycle through fan speeds of 1, 2, 3, Off and back to 1.

Programming for Auto Mode

Each day of the week can be programmed individually for 4 periods P1, P2, P3 and P4, making a total of 28 programmed periods. Alternatively, a weekday program can be set, so the same program is used for Monday-Friday. Similarly, a weekend program can be set for Saturday-Sunday. The entire week can also have the same program. Alternatively, a weekday or weekend program can be set with individual programs for the remaining days.

The suggested period settings for each day/s are:

Period 1 - morning

Period 2 - daytime

Period 3 - evening

Period 4 - night-time

Entering programming mode:

With the remote off, Press and hold the 'T/P' button for 2 seconds or longer then release, followed by another press and release of the 'T/P' button. If successful, the LCD will display 'Pd' at the top, and the word PROG at the bottom. The time at which the remote is currently set, and MO will flash.

Select which day/s to program. You must choose which day/s of the week you wish to program. Press and release the ▲ or ▼ button to change the day of the week to the following or previous day. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the day of the week by 1 day every 0.5 seconds. The order that you can scroll through the days is as follows:

MO→TU→WE→TH→FR→ 'MO TU WE TH FR' → SA → SU → 'SU SA' → 'MO TU WE TH FR SA SU'

To accept the selected day/s of the week press 'OK'.

First period's start time. The display will indicate 'P1' on the top. The Hour and AM/PM settings will now flash.

To set the P1 starting time:

Press and release the ▲ or ▼ button to increase or decrease the hour setting. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the hour setting by 1 hour every 0.5 seconds. Please ensure that AM/PM is set correctly. Press 'OK' to accept. The Minute setting will now flash.

Adjust the minute setting:

Press and release the ▲ or ▼ buttons to increase or decrease the minute setting. Press 'OK' to accept. Setting the temperature. The Set Temperature setting will now flash.

Adjust the desired set temperature:

Press and release the ▲ or ▼ button to increase or decrease the temperature setting by 1 °C. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the temperature setting by 1°C every 0.5 seconds. Press 'OK' to accept. Period 1 is now set for the day/s of the week that you have chosen. The LCD will display 'P2' to indicate that Period 2 can now be set for the same day/s of the week. Repeat the programming process for periods 2, 3 and 4. After program 4 is set, press 'OK' and the program for the selected day/s will be set. Repeat the programming process for any other periods/days that are required.

Restore factory default settings

With the remote off, press the following sequence of buttons: 'F', 'T/P', 'T/P' again, ▼. If done correctly, the icon 'rE' will be indicated on the LCD.

Teaching RF remote ID code to control unit

CAUTION: The remote has already been programmed with a unique code. Do not attempt to teach the RF Remote ID code unless instructed by the manufacturer. With the remote off, press the following sequence of buttons: 'F', 'T/P', 'T/P' again, ▲. The LCD display will show 'LC' (Learn Code) for 2 seconds then return to the normal OFF state display. During this time a special code will be transmitted by the RF Remote to the Control Unit, causing the Control Unit to learn its ID.

APP OPERATION

The app can be used both on iOS and Android devices they can be downloaded here:

Apple Store: <https://apps.apple.com/jm/app/intelligy-thermostat-mkii/id1327577138>

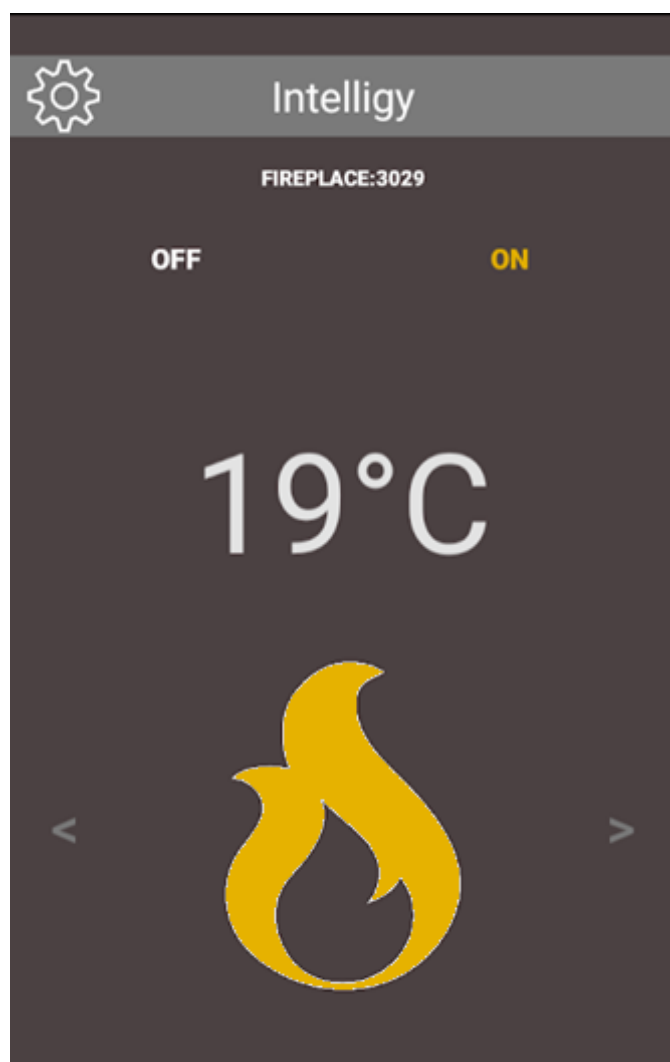
Google Play Store: <https://play.google.com/store/apps/details?id=com.millec.intelligythermostatmkii>

For instructions on how to push the appliance to your Wi-Fi, please go to the Warmington website and find details located under the 'Downloads' tab for your fireplace model.

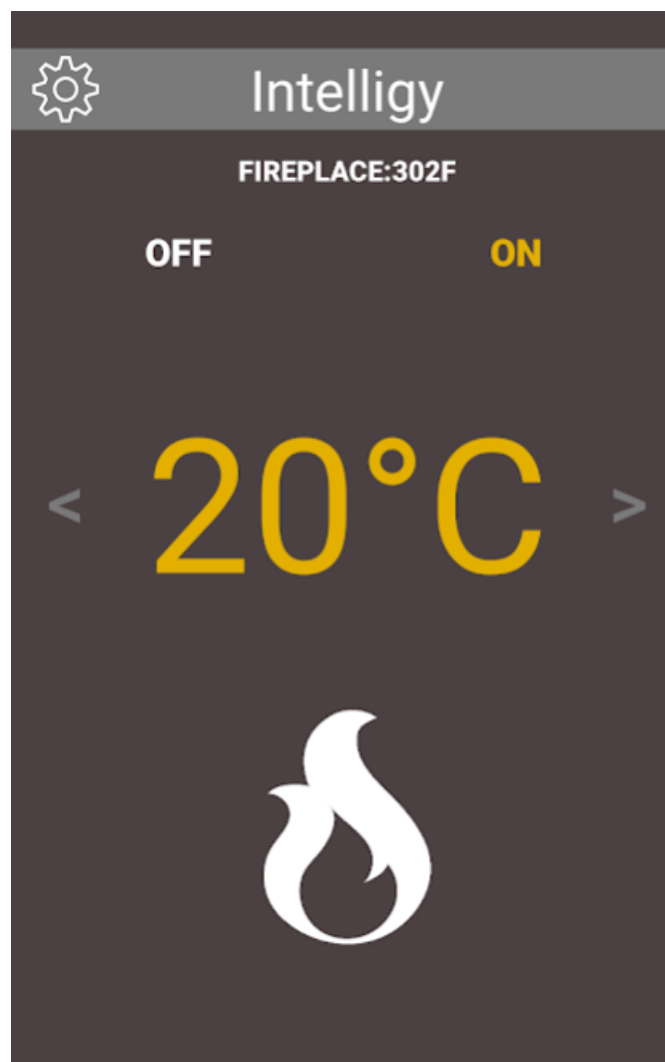
The app has both manual control and automatic controls.

In manual control you can adjust the flame height by touching the < and > symbols next to the flame icon.

In automatic control you can adjust the desired room temperature by touching the < and > symbols next to the temperature.

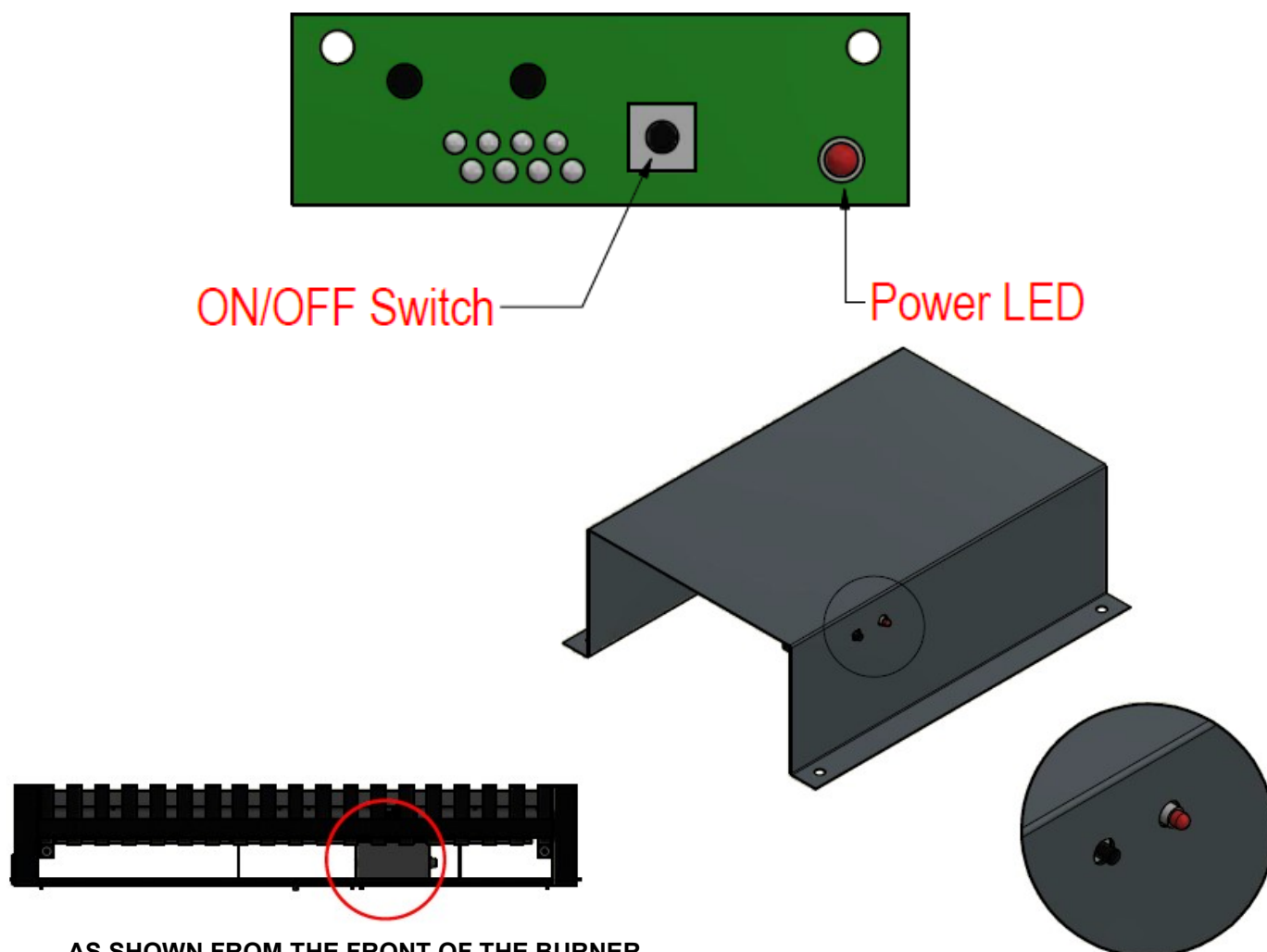


Manual



Automatic

MANUAL ON/OFF SWITCH



AS SHOWN FROM THE FRONT OF THE BURNER

The switch is located behind the grate on the control valve heat shield as shown above.

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 and 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, the gas fire will be set to medium flame and fan setting.

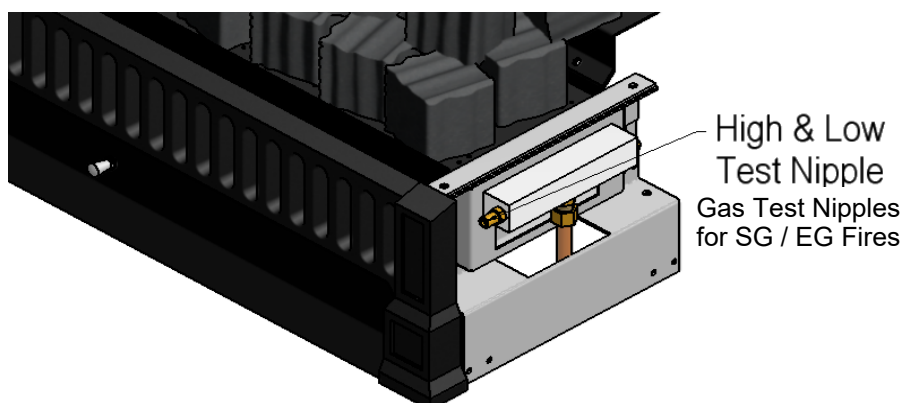
If the gas fails to light, the appliance will go into lock out mode. To start the appliance again turn appliance off and wait 3 minutes before turning it on.

Please note that the power button is for use when the remote controller is lost or damaged and can't be used. This controller can not adjust flame height or fan speed, hence is supplied for emergency use, if remote and phone App is not able to be used.

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.
- 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: Any alterations to pressure is to be carried out by a Certified Gasfitter

- 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.

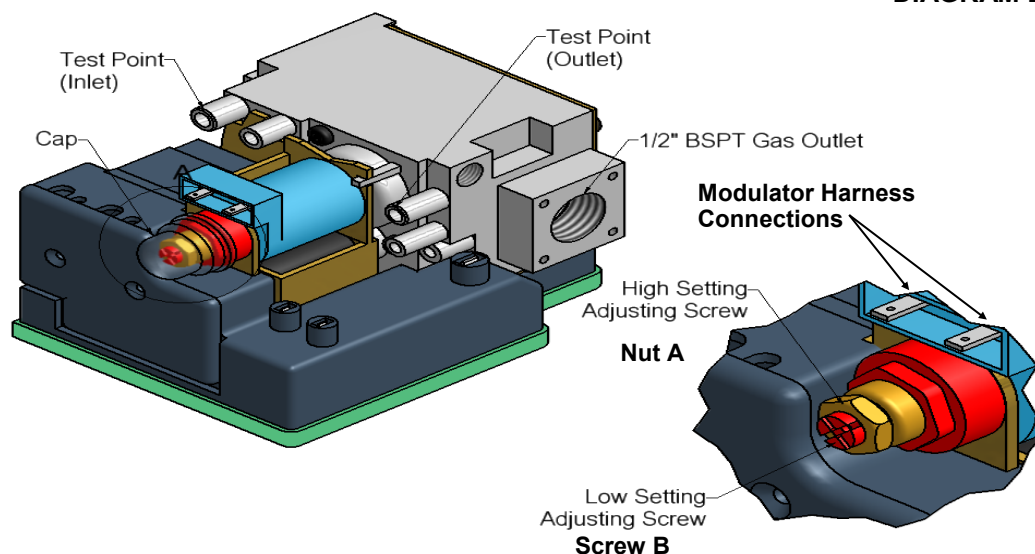
Low Pressure Setting: Turn off the power to the modulator (by disconnecting the modulator harness connection at the valve - see wiring) and keep nut A stationary. Use a screwdriver to screw in **Screw B** to increase the pressure and screw it out to decrease the pressure. Carefully replace the modulator plastic cap.

WARNING: To ensure the correct operation of the modulator it is necessary that the plastic cap is returned to its original location.

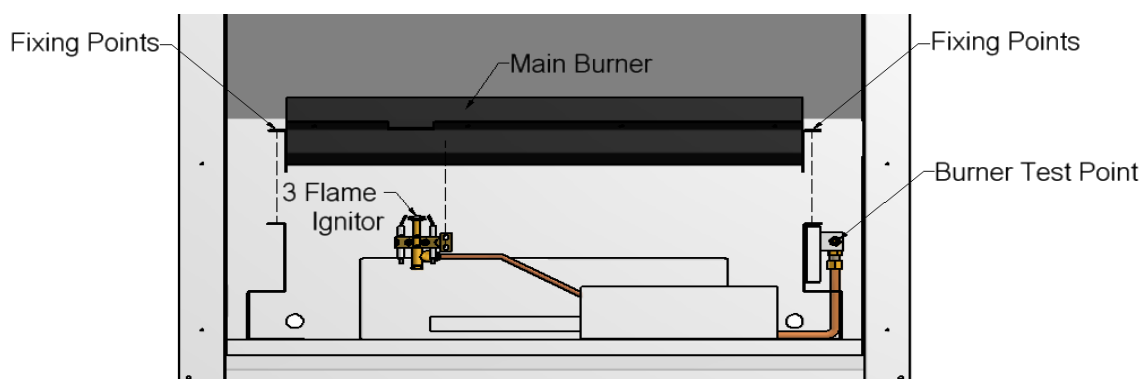
DIAGRAM B (SHOWING CONTROL VALVE WITH TEST POINTS AND ADJUSTING SCREW)

Modulator Harness Connections

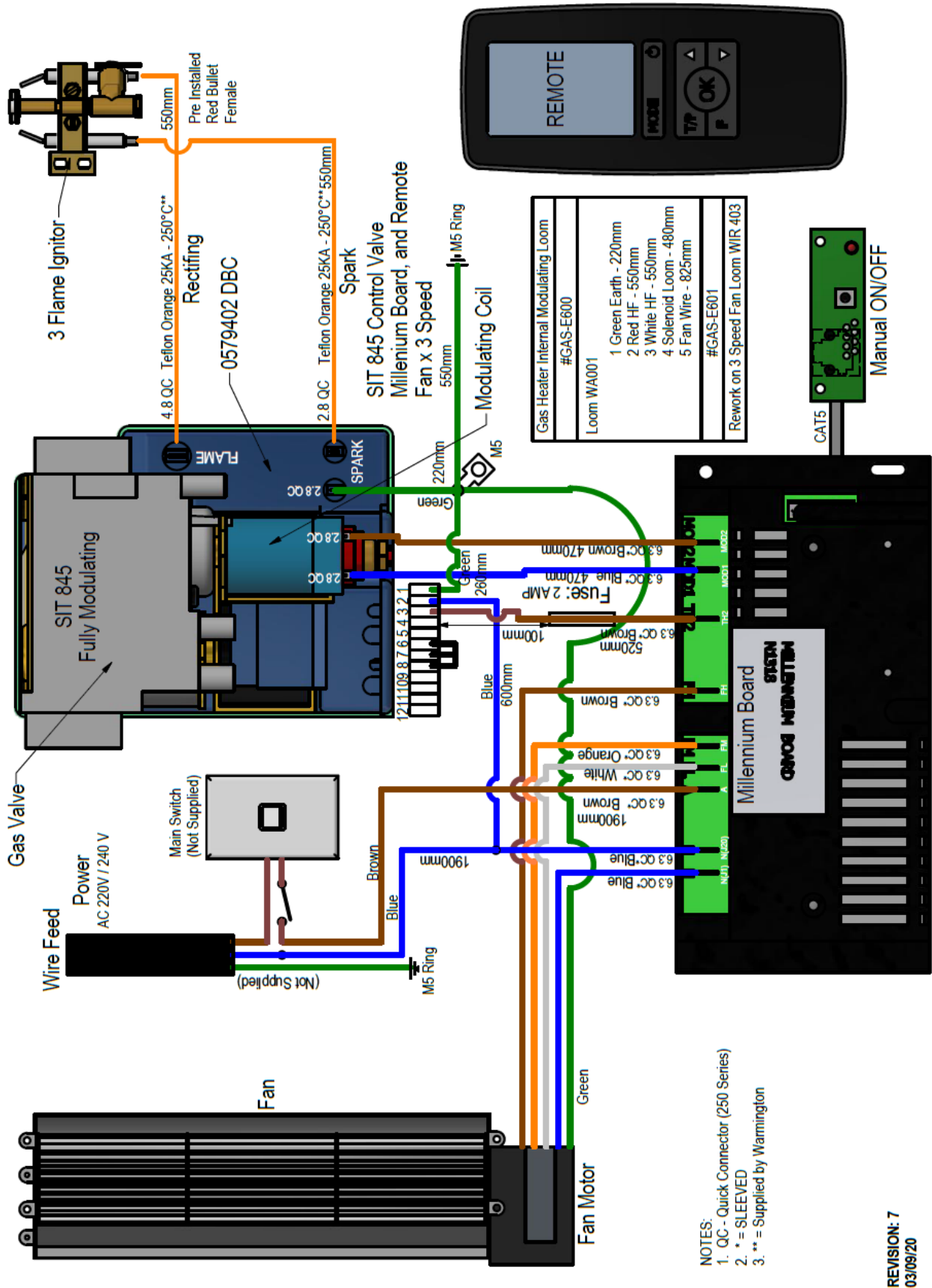
DIAGRAM B



- 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.
- 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 Burn period, some smoke and smell may be experienced. Because of this, run the appliance on the high position in a well ventilated room until the fumes dissipate .



FULLY MODULATING (SIT 845) - WIRING DIAGRAM



REVISION: 7
03/09/20

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.
- Warranty - for full details on product warranties, contact your local Authorised Warmington Retailer.
- Correct installation, operation and maintenance must be maintained 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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