



Installation and service must be performed by a qualified installer, service agency, or the gas supplier.



Installation Operation & Maintenance

C38-VF

Vent Free Gas Fireplace

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to page 3.

WARNING:

If the information in this manual is not following exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

FOR YOUR SAFETY:

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

- *Check local codes and read all instructions prior to installation.*
- *Leave this manual with the owner.*

What To Do If You Smell Gas:

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.



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Installation

CAUTIONS

Due to its high operating temperatures, the appliance should be located out of traffic & away from furniture and draperies.

- Children and adults should be alerted to the hazards of the high surface temperature, which could cause burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance.
- Clothing or other flammable materials should not be placed on or near the appliance.
- Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the heater.
- Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and air-circulating passageways of the appliance be kept clean.

Introduction

Thank You for choosing a Montigo C-Series Fireplace.

About the C38 Fireplace:

The C38-VF includes a 32,000 BTU dual burner and 1 piece ceramic fibre logset. The C38-VF is rated for Natural Gas at 32,000 BTU/H Input or Propane at 32,000 BTU/H Input.

Warranty and Installation Information:

The Montigo warranty will be voided by, and Montigo disclaims any responsibility for, the following actions:

- Modification of the fireplace and/or components including the firebox door.
- Use of any component part not manufactured or approved by Montigo in combination with this Montigo fireplace system.
- Installation other than as instructed in this manual.

Consult your local Gas Inspection Branch on installation requirements for factory-built gas fireplaces. Installation & repairs should be done by a qualified contractor.

Installations in the USA must conform to local codes, or in the absence of local codes to the National Fuel Gas Code, ANSI Z223.1-1988/NFPA54. If the optional air-circulating fan is installed, it must be grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70-1987.

WARNING:

Any modification to this heater or its controls can be dangerous.

Choosing a Location

The fireplace may be installed in a location that maintains proper clearances to air conditioning ducts, electrical wiring and plumbing. Safety, as well as efficiency of operation, must be considered when selecting the fireplace location. Try to select a location that does not interfere with room traffic and has adequate ventilation.

This fireplace **cannot be installed** in a bedroom or a bathroom.

The fireplace dimensions are shown below:

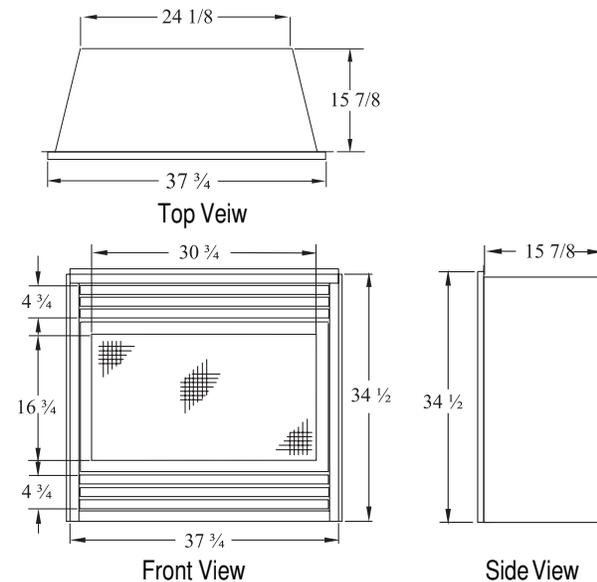
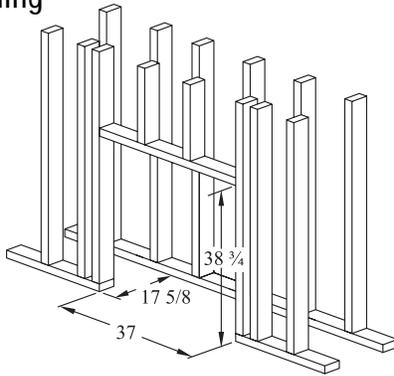


Figure 1. Fireplace dimensions.

Installation



Framing



* When sheetrock is not used behind the fireplace, framing depth may be reduced to 16 7/8"

Figure 2. Framing dimensions.

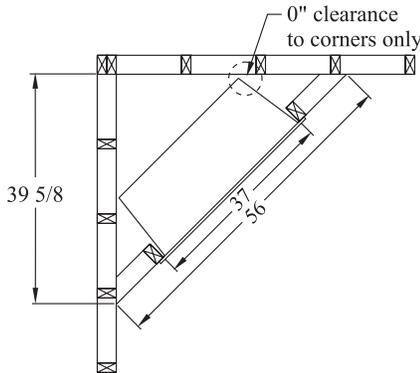


Figure 3. Corner framing dimensions.

When installing a shelf over the top of the fireplace, the following guidelines must be adhered to: The minimum clearance from the top of the fireplace to a shelf is 5".

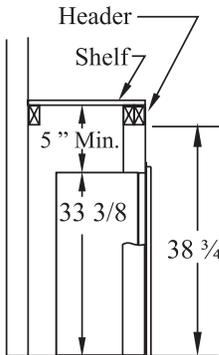


Figure 4. Framing for shelves over the fireplace.

WARNING:

When this appliance is installed directly on carpeting, tile or any combustible material other than wood flooring, it must be installed on a metal or wood panel extending the full width and depth of the appliance.

Clearances

These clearances apply to all dimensions *except the framed opening*, where the clearance to combustibles is 0". The C38-VF clearances to combustible materials are:

Top	5"
Back	0"
Sides	0"
Floor	0"
Mantle**	8"
Front	3'

* Clearance from the top of the fireplace to a combustible ceiling within the fireplace enclosure.

** Refer to page 5.

Unprotected combustible walls which are perpendicular to the fireplace opening, must fall within the limits outlined in Figure 7b.

For protection against freezing temperatures, it is recommended that outer walls of the chase be insulated with a vapour barrier. This will reduce the possibility of a cold-air convection current on the fireplace.

Space Requirements

This heater must not be installed in a confined space or unusually tight construction unless provisions are made for adequate combustion and ventilation air.

The National Fuel Gas Code, ANSI Z223.1, defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 BTU per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 BTU per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which all the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

Example:

If you are installing this fireplace in a rectangular room which measures 14' x 16' x 8' in height, that room will have a volume of 1792 cu. ft. (ft³). If there is no other appliances in the room which consume oxygen, then the maximum BTU fireplace which can be installed in such a room is 35,840 BTU (1792 ft³ ÷ 50 × 1000) The minimum volume of space in which this fireplace can be installed is equal to:

$$32,000 \text{ BTU's / hour} \div 1000 = 32 \text{ kBTU/h}$$

$$32 \text{ kBTU/h} \times 50 \text{ ft}^3 / \text{kBTU/h} = \boxed{1600 \text{ ft}^3}$$

Therefore this heater may be installed in the minimum space described above.

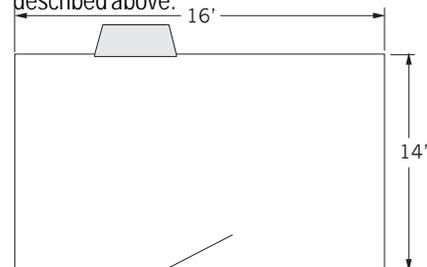


Figure 5. Dimensions of the room example.



Installation

WARNING:

If the area in which the heater may be operated is smaller than that defined as an unconfined space, or if the building is one of unusually tight construction, provide adequate combustion air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1, Section 5.3 or applicable local codes.

Unusually tight construction is defined as construction where:

- Walls and ceilings exposed to the outside atmosphere have a continuous water vapour retarder with a rating of 1 perm (6×10^{-11} kg per pa-sec- m^2) or less with openings gasketed or sealed, and
- Weather Stripping has been added on openable windows and doors, and
- Caulking or sealants are applied to areas such as joints around window doors and frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical and gas lines, and at other openings.

WARNING:

Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.

Keep appliance area clear and free from combustion materials, gasoline and other flammable vapors and liquids.

Installing The Gas Line

The gas line must be installed before finishing the C38-VF Fireplace. **Natural Gas** requires a minimum inlet gas supply pressure of 5.5" W.C. & a manifold pressure of 3.5" W.C. **Propane Gas** requires a minimum inlet gas supply pressure of 11" W.C. & a manifold pressure of 10" W.C. Provision must also be made for a 1/8" N.P.T. plugged tapping and be accessible for test gauge connection immediately upstream of the gas supply controls to the appliance. The fireplace gas connection and the main operating gas valve is located behind the removable brass trim at the bottom of the unit and need only be attached to the gas line with an approved fitting, as required by the **applicable installation codes**.

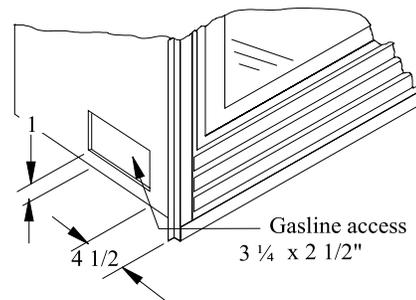


Figure 6. Gas line access.

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

Note: After gas line is connected, **each appliance connection, valve and valve train** must be checked while under normal operating pressure with either a liquid solution, or leak detection device, to locate any source of leak. Tighten any areas where bubbling appears or leak is detected until bubbling stops completely or leak is no longer detected. **DO NOT use a flame of any kind to test for leaks.**

Installing The Remote Switch

The C38-VF's gas valve, located behind the lower trim, may be connected to a wall switch. The valve generates its own power on a **millivolt circuit**. Use **only low voltage wire**, and **DO NOT** connect any external power to it.

Refer to Figure 13 for wiring requirements.

Note: The switch location must not exceed 30' from the fireplace.



Installation

Finishing Around the Fireplace

Combustible mantels and mouldings may be safely installed over the top and on the front of the fireplace provided that they do not project beyond shaded area shown in **Figure 7a**. Side wall clearances are 3". Combustible surrounds may be installed with 3" clearance to the side of the fireplace as shown in **Figure 7b**.

Fireplace Facing

When selecting the finish material for your fireplace, it is important to remember the following: **TRIMS MUST NOT BE OBSTRUCTED IN ANY WAY - to do so restricts the air supply for the control compartments and heat exchanger it also prevents access for servicing controls.**

The face of the fireplace may be painted to match the room decor, provided you use a heat-resistant paint. Decorative facing must not extend past the fireplace opening at all, because it will interfere with the access to retainers for removal of screen door.

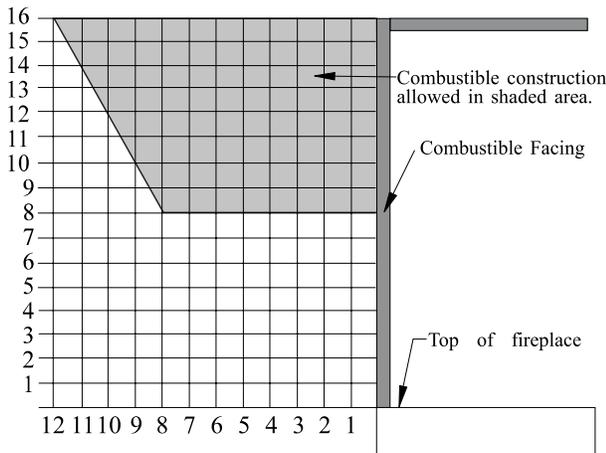


Figure 7a. Combustible mantles and facings.

Mantels & Surrounds

New technology, to meet consumer and government demands for the wise use of energy, has prompted us to manufacture many models of fireplaces which are hot, fuel and energy efficient.

Please be aware; temperatures over the mantel will rise above normal room temperature and walls above fireplace may be hot to touch.

We recommend careful consideration be given to the effects of elevated mantel temperatures which may be in excess of product design, for example: candles, plastic or pictures. This can cause melting, deformation, discoloration or premature failure of T.V. and radio components.

Painting:

Special care is recommended by the Master Painters and Decorators

Association, when painting the fireplace surrounds, to select and apply a quality *Alkyd sealer* prior to the applying of latex paints. This is to prevent leaching of water from evaporation and causing a brownish staining effect to paint over coats.

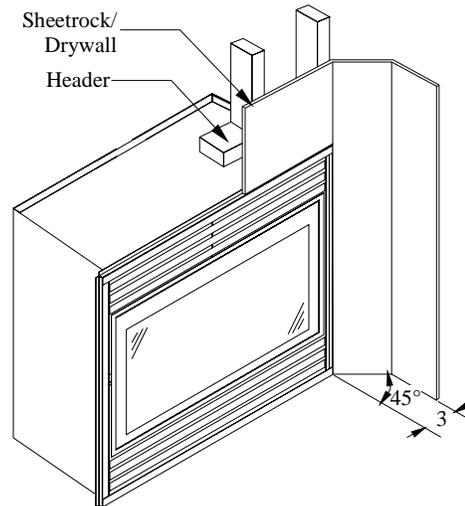


Figure 7b. Combustible surrounds.

Installation

Removing and Installing the Door

Removing the Door:

Remove the trim (as described on the next page) to access the door latches. Open the latches by pulling Part A upwards and towards you to disengage Part B from the door. Lift Part B clear of the door. Repeat for all three latches. Be sure to hold the door carefully so it does not fall. (See figure 8a.)

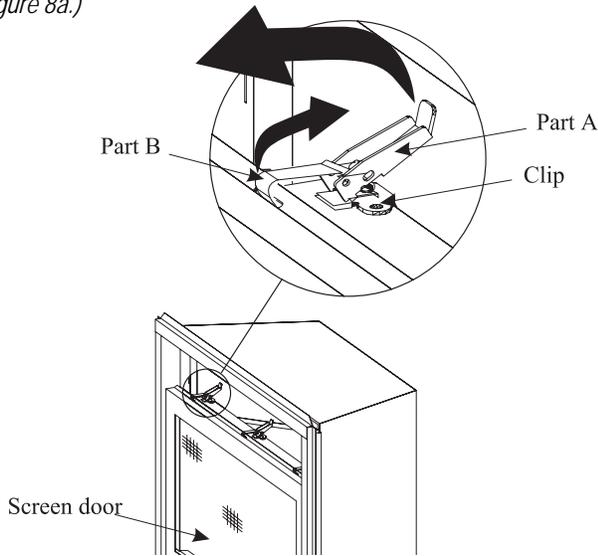


Figure 8a. Operating the door latches.

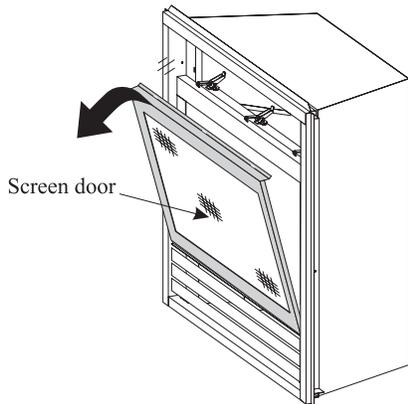


Figure 8b. Removing the door.

Once the three latches are unhinged, tilt the top of the door forward and lift it out of the slots. See figures 8b and 8c.

Caution:

- The screen door must be replaced prior to operating the heater.

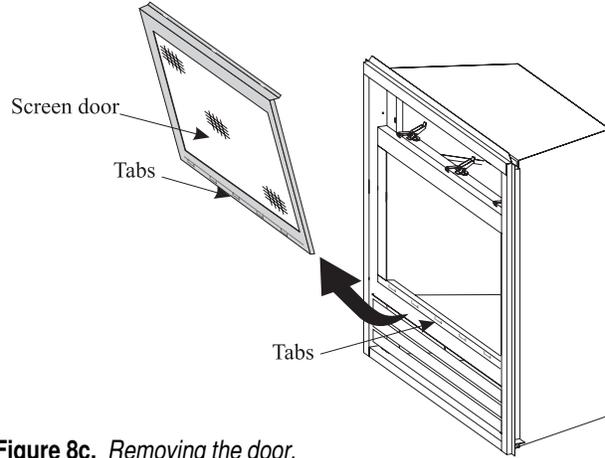


Figure 8c. Removing the door.

Re-installing the door:

To re-install the door, tilt the top edge towards you and line up the tabs of the bottom of the door with the slots on the fireplace. Place the tabs into the slots, and tilt the top of the door back towards the fireplace as far as it will go. Close the latches by hooking Part B onto the groove at the top of the door and pushing Part A down completely.

Installing the Logset

Installing the Logs:

The C38-VF is supplied with a single-piece, moulded design, fibre logset. The logset is very fragile and must be handled very carefully.

1. Remove the door as shown in Figures 8a-8c.
2. To install the logs, align the pins on the bottom of the log rest with the holes in the bottom of the logset.
3. Re-install the screen door before operating the fireplace.

Removing the Logs:

Remove the door and carefully lift the logset off the two guide pins. Handle the logs very carefully.

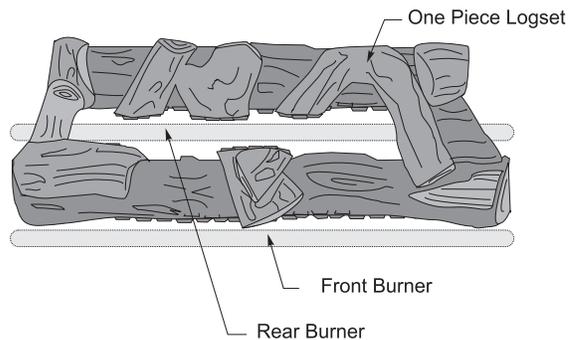


Figure 9a. Positioning for the logset.

Cautions:

- If logs are not placed properly, excessive sooting will result.
- The surface of the logs will crack due to the heat from the flames. This is a normal occurrence.
- The use of ember material is strictly prohibited.

Operating Instructions



For Your Safety - READ BEFORE LIGHTING:

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

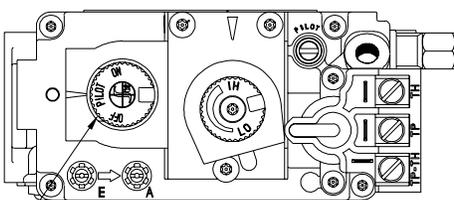
- A. This appliance has a pilot which must be lit by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

What To Do If You Smell Gas:

 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the Fire Department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempt to repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system, and any gas control which has been under water.

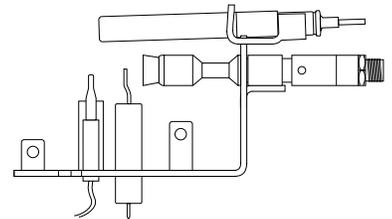
Lighting Instructions:

1. **STOP!** Read the safety information above on this label.
2. Flip down the lower trims.
3. Push in gas control knob and turn clockwise ↻ to "OFF."
4. Wait five (5) minutes to clear out any gas. Smell for gas, including near the floor. If you then smell gas, **STOP!** Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
5. Locate pilot burner (*See illustration at right.*) and follow steps below.
6. Turn knob on gas control counterclockwise ↻ to "PILOT."
7. Push in gas control knob completely and hold. Light with Piezo Igniter button. Continue to hold the control knob in for about (1) minute after the pilot is lit. Release the knob and it will pop back up. Pilot should remain lit. If it goes out repeat steps 3 through 8.
 - If knob does not pop up when released. Stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
8. Push in gas control knob and turn counterclockwise ↻ to "ON."
9. Flip up the lower trim.
10. Turn on remote switch to ignite fire.



Gas Control Knob (Shown in "Pilot" position.)

NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.



To Turn Off Gas To Appliance:

1. Turn off remote switch.
2. Flip down the lower trim.
3. Push in gas control knob slightly and turn ↻ clockwise to "Off". Do not force.
4. Flip up the lower trim.

Operating Instruction

Lighting Instructions

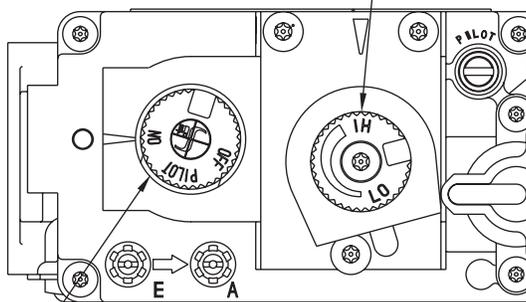
See page 7.

Burner Adjustment

The C38-VF is equipped with an adjustable burner, allowing you to raise or lower the flames. To adjust the flames, locate the black knob marked 'Hi-Lo', in the centre of the gas control valve (See Figure 10). The front burners are not adjustable.

- To raise the flame height, turn the black knob (located behind the lower trim) **counterclockwise**.
- To lower the flame height, turn **clockwise**.

Hi-low adjustment knob



Gas Control Knob
(Shown in "On" position.)

Figure 10. 'Hi-Lo' Adjustment on the C38-VF's gas valve.

Maintenance

CAUTIONS

- Fireplace gas control must be in the "OFF" position and pilot and main burners extinguished when cleaning appliance with a vacuum.
- Doors and logs can get very hot. Handle only when cool.

General

- Have the fireplace installation inspected yearly, including a visual check of the burner and the pilot flame. For your convenience a 1/8" manifold pressure tap is supplied on the gas valve for a test gauge connection. See Figure 11.
- For **Natural Gas** this appliance requires a minimum inlet pressure of 5.5" W.C. and a manifold pressure of 3.5" W.C.
- For **Propane Gas** this appliance requires a minimum inlet pressure of 11" W.C. and a manifold pressure of 10" W.C.
- Always keep the fireplace area clear and free of combustible materials, as well as gasoline and other flammable vapours and liquids.
- Do not use this appliance if *any part has been under water*. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

Cleaning

When the fireplace is first activated, there may be some smoking. This is a normal condition, and is the result of burning of protective coatings on new metal.

- Silicone seals on inner door during initial firing will "off gas", leaving a visual deposit of a white substance on combustion chamber walls. This can easily be removed using normal household products.
- Use a vacuum cleaner or whisk broom to keep the control compartment, burner, and firebox free from dust and lint.
- Logs may be cleaned periodically with a vacuum to remove soot or other contaminants.

WARNING:

Do not attempt to clean the fireplace when hot.



Maintenance

Gas Control Valve

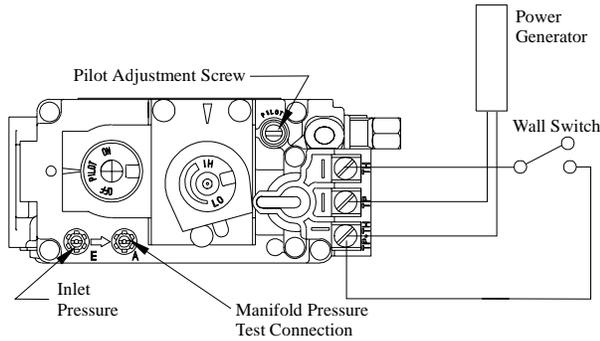


Figure 11. SIT NOVA 820.637 for NG, SIT NOVA 820.636 for LP.

Pilot Burner Adjustment

1. Locate Pilot Adjustment Screw. (See figure 11.)
2. Adjust pilot screw to provide properly sized flame as shown in figure 12).
3. After installing or servicing, leak test with a soap solution with main burner on. Coat pipe and tubing joints, gasket etc. with soap solution. Bubbles indicate leaks. Tighten any areas where the bubbles appear until the bubbling stops completely.

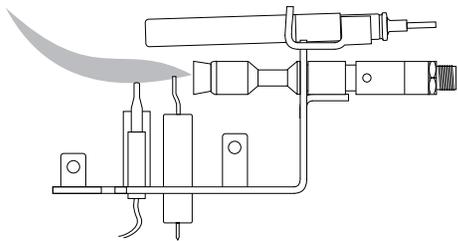


Figure 12. Pilot Burner

Troubleshooting

The following is a troubleshooting chart of possible problems:

PROBLEM	CORRECTIVE ACTION
Noisy Pilot Flame	Locate pilot adjustment screw on gas control valve. Flame is decreased by turning adjustment screw clockwise.
Pilot won't ignite	Disconnect remote wires and try to light pilot. If pilot now works, remote connections are faulty. Check wiring diagram figure 11.
Main burner will not light	1. Check wiring (see figure 11). 2. Check wall switch for proper connection.

Wiring for the optional Fan Kit

All C38-VF fireplaces may be equipped with an optional fan kit (Part no. RFK1002 or RFK1003) for circulating heat into the living space. Kits are available with manual or heat-activated control.

Installations which employ the fans must be grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70-1987.

For more information see the **Fan Kit Installation Guide** included with the fan kit.

NOTE: If any of the original wire as supplied with the appliance must be replaced, it must be replaced with a wire of at least a 60^o temperature rating.

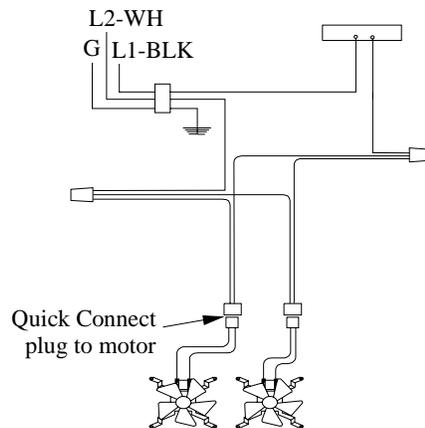


Figure 13a. Wiring for optional air circulating fan kit.

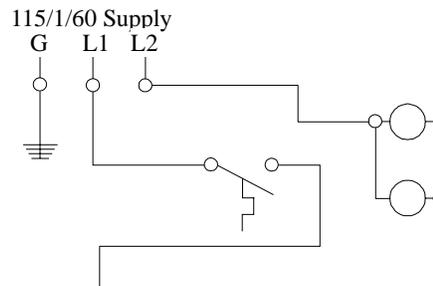


Figure 13b. Wiring schematic for optional fan kit.

WARNING:

Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.
Do not use a blower insert, heat exchanger insert or other accessories not approved for use with this heater.

Warranty

The Warranty

Montigo DelRay Corp. warrants the Montigo Gas Appliance to be free from defects in materials and workmanship at the time of manufacture. On the Montigo, there is a ten-year warranty on the firebox and its components, a five-year warranty on the main burner and pilot burner, and a one-year warranty on the gas control valve and fibre logs. Screen, plated/painted finishes, and refractory lining are exempt.

Remedy And Exclusions

The coverage of this Warranty is limited to all components of the Gas Appliance manufactured by Montigo DelRay Corp..

This Warranty only covers Montigo Gas Appliances installed in the United States.

If the components of the Gas Appliance covered by this Warranty are found to be defective within the time frame stated (see Montigo DelRay Corp. right of investigation outlined below), Montigo DelRay Corp. will, at its option, replace or repair defective components of the Gas Appliance manufactured by Montigo DelRay Corp. at no charge, and will also pay for reasonable labour costs incurred in replacing or repairing components. If repair or replacement is not commercially practical, Montigo DelRay Corp. will, at its option, refund the purchase price of the Montigo Gas Appliance.

This Warranty covers only parts and labour as provided above. In no case shall Montigo DelRay Corp. be responsible for materials, components, or construction which are not manufactured or supplied by Montigo DelRay Corp., or for the labour necessary to install, repair or remove such materials, components or construction. All replacement or repair components will be shipped F.O.B. the nearest Montigo DelRay Corp. factory.

Qualifications To The Warranty

The Gas Appliance Warranty outlined above is further subject to the following qualifications:

- (1) The Gas Appliance must be installed in accordance with Montigo DelRay Corp. installation instructions and local building codes. The Warranty on this Montigo Gas Appliance covers only the component parts manufactured by Montigo DelRay Corp.. The use of components manufactured by others with this Montigo Gas Appliance could create serious safety hazards, may result in the denial of certification by recognized national safety agencies, and could be in violation of local building codes. This warranty does not cover any damages occurring from the use of any components not manufactured or supplied by Montigo DelRay Corp.
- (2) The Montigo Gas Appliance must be subjected to normal use. The Gas Appliances are designed to burn gas only. Burning conventional fireplace fuels such as wood, coal or any other solid fuel will cause damage to the Gas Appliance, will produce excessive temperatures and will result in a fire hazard.

Limitations On Liability

It is expressly agreed and understood that Montigo DelRay Corp. sole obligation, and purchaser's exclusive remedy under this Warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above.

In no event shall Montigo DelRay Corp. be responsible for any incidental or consequential damages caused by defects in its products, whether such damage occurs or is discovered before or after replacement or repair, and whether or not such damage is caused by Montigo DelRay Corp. negligence. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. The duration of any implied warranty with respect to this Montigo Gas Appliance is limited to the duration of the foregoing warranty. Some states do not allow limitation on how long an implied warranty lasts, so the above may not apply to you.

Investigation Of Claims Against Warranty

Montigo DelRay Corp. reserves the right to investigate any and all claims against this Warranty and to decide upon method of settlement.

Montigo DelRay Corp. Are Not Responsible For Work Done Without Written Consent

Montigo DelRay Corp. shall in no event be responsible for any warranty work done without first obtaining Montigo DelRay Corp. written consent.

Dealers Have No Authority To Alter This Warranty

Montigo DelRay Corp. employees and dealers have no authority to make any warranties nor to authorize any remedies in addition to or inconsistent with those stated above.

How To Register A Claim Against Warranty

In order for any claim under this Warranty to be valid, Montigo DelRay Corp. must be notified of the claimed defect in writing or by telephone, as soon as reasonably possible after the defect is discovered. Claims against this Warranty in writing should include the date of installation, and a description of the defect.

Other Rights

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Montigo DelRay Corp. reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products.

Notes





Installed and Serviced by:

Montigo Del Ray Corp.

6955 Salashan Parkway
Ferndale, WA 98248

27342 Gloucester Way,
Langley, BC