Atra GZ 455 Westbrook
Gas Fireplace

Installation & Operation Manual
for the
Atra GZ 455 Westbrook Fireplace

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

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

- **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.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**
- **In the Commonwealth of Massachusetts, a carbon monoxide (CO) detector shall be installed in the same room as the appliance.**

This appliance may be installed in an aftermarket, permanently located, manufactured home or mobile home, where not prohibited by local codes.

This appliance is only for use with the types of gas indicated on the rating plate.

ATTENTION : CES INSTRUCTIONS DOIVENT DEMUERER AVEC LE PROPRIÉTERE D'UNE MAISON.

AVERTISSEMENT: Assurez-vous de bien suivreles instructions données dans cette notice pour réduire auninimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

- **Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.**

- **QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:**
  - **Ne pas tenter d'allumer l'appareil.**
  - **Ne touchez à aucum interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous trouvez.**
  - **Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.**
  - **Si vou ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.**
- **L'installatione l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.**

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

⚠ WARNING

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

⚠ AVERTISSEMENT

Une surface vitrée chaude peut causer des brûlures.

Laisser refroidir la surface vitrée avant d'y toucher.

Ne perettex jamais à unenfant de toucher la surface vitrée.

THIS OWNER'S MANUAL PROVIDES INFORMATION TO ENSURE SAFE INSTALLATION AND EFFICIENT, DEPENDABLE OPERATION OF YOUR FIREPLACE INSERT. PLEASE READ THESE INSTRUCTIONS IN THEIR ENTIRETY AND MAKE THEM AVAILABLE TO ANYONE USING OR SERVICING THIS GAS INSERT.

DO NOT ATTEMPT TO ALTER OR MODIFY THE CONSTRUCTION OF THIS APPLIANCE OR ITS COMPONENTS. ANY MODIFICATION OR ALTERATION WILL VOID THE WARRANTY, CERTIFICATION AND LISTING OF THIS APPLIANCE.

THIS HEATER MUST BE INSTALLED AND MAINTAINED BY A QUALIFIED SERVICE AGENCY.

Suggested Tools for Installation and Service

- External regulator (for Propane only)
- Piping which complies with local code
- Manual shut-off valve - T-Handle required in Massachusetts
- Sediment trap - if required by code
- Tee joint
- Pipe wrench
- Pipe sealant
- 10 mm open end wrench
- 1/2", 7/16" open end wrench
- Phillips head screwdriver
- Flat head screwdriver
- 1/4" nut driver
- Gloves
- Safety glasses
- Torx T-20 screwdriver
- Tin snips

Installation Requirements for the Commonwealth of Massachusetts

THIS PRODUCT MUST BE INSTALLED BY A LICENSED MASTER OR JOURNEYMAN PLUMBER OR GAS-FITTER WHEN INSTALLED IN THE COMMONWEALTH OF MASSACHUSETTS.

1. If there is not one already present, on each floor level where there are bedroom(s), a carbon monoxide detector and alarm shall be placed in the living area outside the bedroom(s). The carbon monoxide detector shall comply with NFPA 720 (2005 Edition).
2. A carbon monoxide detector shall:
   a) Be located in the room that houses the appliance or equipment;
   b) Be either hard-wired or battery powered or both; and
   c) Shall comply with NFPA 720 (2002 Edition).
3. A Product-approved vent terminal must be6used, and if applicable, a Product-approved air intake must be used. Installation shall be in strict compliance with the manufacturer's instructions. A copy of the installation instructions must remain with the appliance or equipment at the completion of the installation.

NATIONAL FIREPLACE INSTITUTE® NFI CERTIFIED www.nficertified.org

We recommend that our gas products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

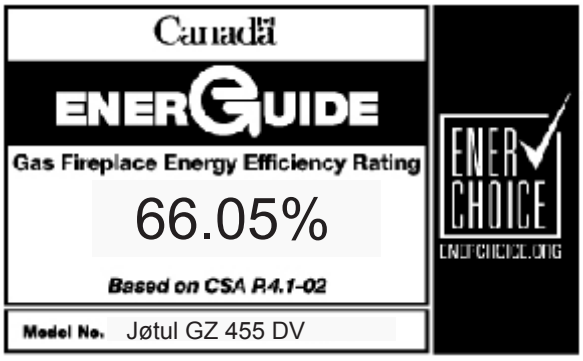


Table of Contents

Unpacking the Fireplace

1. **Inspect the fireplace for damage**. Immediately report any damage to your dealer.

2. **Confirm contents.**
   The Atra GZ 455 DV Fireplace includes the following items shipped inside the firebox and Miscellaneous Hardware bag:
   - Simpson Dura-Vent 5" x 8" to 4" x 6 5/8" Vent Reducer
   - 4 mm hex key
   - Remote Control Transmitter and Wall-mount Bracket
   - Non-metallic sheath cable clamp
   - Propane Fuel Conversion Kit

3. **Confirm Firebox Components.**

   The firebox accessories have been packed in separate boxes, and may include one or more of the following items:

   Face Plates: 37" x 23" (94 cm x 58.4 cm)
   - 157418 - Black Powder Coat
   - 157419 - Bronze Powder Coat
   - 157420 - Iron Age Powder Coat
   - 157421 - Stainless Steel

   Backer Plates: 43" x 30 3/8" (109.2 cm x 77.1 cm)
   - 157422 - Black Powder Coat
   - 157423 - Stainless Steel

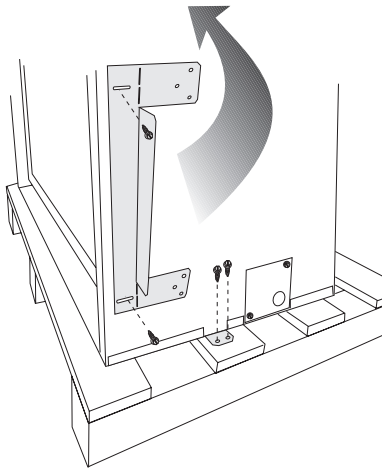
   Liner Treatments:
   - 157413 - Mirror Liner
   - 157414 - Black Reflective Liner
   - 157407 - Desert Sand Stucco Refractory Liner

   Burner Treatments:
   - 157415 - Clear Glass Embers
   - 157416 - Black Glass Embers
   - 157417 - Tumbled Stones / 125 pcs.

4. **Confirm Fuel Type.**
   This fireplace has been factory-configured to burn Natural Gas. Be sure that the correct fuel source is available for this appliance.

5. **Detach Pallet Brackets -** one at each side.

6. Detach the Stand-off Brackets from each side of the cabinet and re-install them oriented 180° with the nailer flange facing forward. Bend each flange 90° to the side. See also Fig. 4.3.



1.0 Specifications

1.1 Test Standards

This appliance complies with National Safety standards and is tested and listed by Intertek Testing Services of Middleton, Wisconsin.

In addition, the Atra GZ 455 DV has been tested and listed as a direct vent gas fireplace heater and listed to ANSI Z21.88-200 9, CSA 2.33-2009, and CAN/CGA 2.17-M91.

1.2 Rating Specifications

Input Rates

Natural Gas
- 26,000 BTU/hr. maximum input
- 17,000 BTU/hr. minimum input

Propane
- 25,000 BTU/hr. maximum input
- 20,000 BTU/hr. minimum input

Inlet Pressure:	**MIN.**	**MAX.**
Natural Gas:	5.0 WC (1.24 kPa)	7.0 WC (1.74 kPa)
Propane:	11.0 WC (2.74 kPa)	13.0 WC (3.24 kPa)

Manifold Pressure:	**MIN.**	**MAX.**
Natural Gas:	1.6 WC (0.40 kPa)	3.5 WC (0.87 kPa)
Propane:	6.4 WC (1.60 kPa)	10.0 WC (2.48 kPa)

- Steady State Efficiency: 74.5% NG / 76.7% LP
- AFUE Efficiency: 71.3% NG / 75.1% LP
- CSA P4. 1-02 Fireplace Efficiency: 66.05%
- Factory Air Shutter Settings: Closed, NG / 3/16" LP
- Intermittent Pilot Ignition (IPI)
- Continuous Pilot Ignition Mode (CPI or "standing pilot") may also be used
- Power Requirement: 120 VAC, 4 amps for Lamp, Burner Control Module, and optional Blower
- Remote Control Transmitter batteries pre-installed, 3, AAA - 1.5 v
- Remote Control Receiver batteries supplied: 4, AA
- Fan Control Module: 120V / 60 Hz

1.3 Accessories

Fuel Conversion Kit, NG	#157408
Fuel Conversion Kit, LP - supplied	#157409
High Altitude Adjustment Kit, LP	#157430
High Altitude Adjustment Kit, NG	#157431
Blower Kit	#157454

1.4 Finished Facing Dimensions

Front Face, All Colors:	37" x 23"	(940 x 584 mm)
Backer Plates:	43" x 30 3/8"	(1092 x 772 mm)

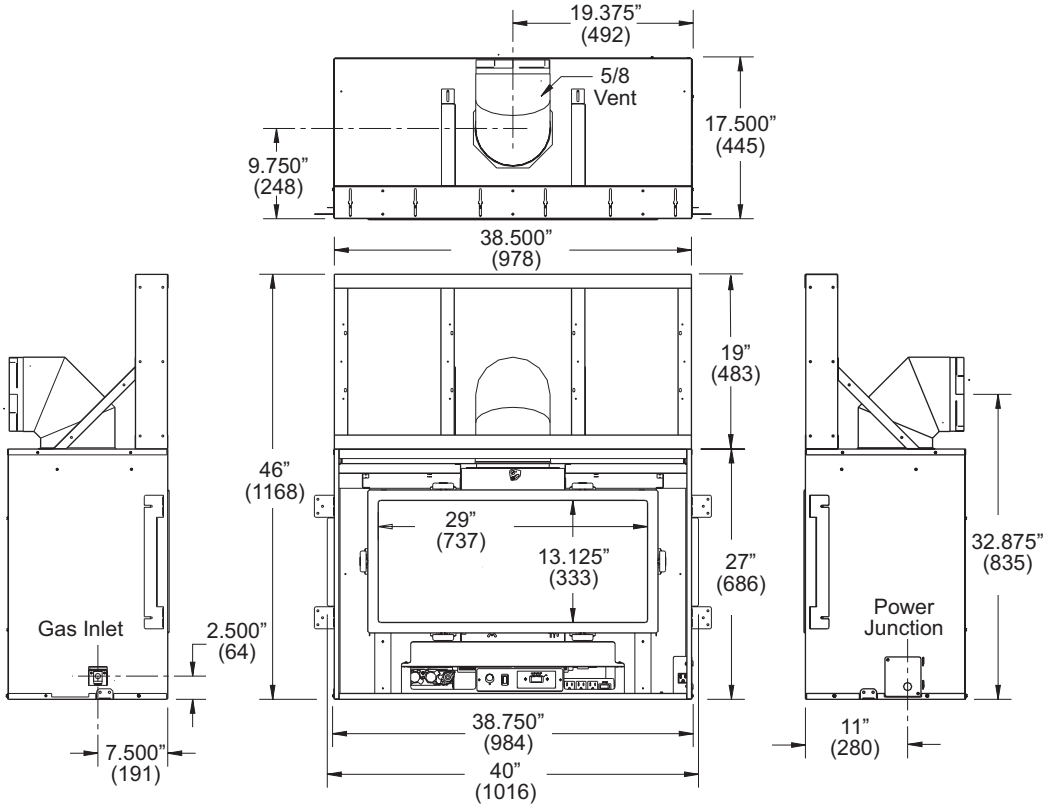


Figure 1.1. Overall dimensions

2.0 General Information

THIS APPLIANCE MUST BE INSTALLED AND MAINTAINED BY A QUALIFIED SERVICE AGENCY.

DO NOT ATTEMPT TO ALTER OR MODIFY THE CONSTRUCTION OF THIS APPLIANCE OR ITS COMPONENTS. ANY MODIFICATION OR ALTERATION WILL VOID THE WARRANTY, CERTIFICATION AND LISTING OF THIS APPLIANCE.

WARNING: FAILURE TO POSITION THE PARTS IN ACCORDANCE WITH THE DIAGRAMS HEREIN OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED WITH THIS APPLIANCE MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY.

IMPORTANT: SAVE THESE INSTRUCTIONS.

- The installation and repair of this appliance must be done by a qualified service person. Failure to properly install and maintain this heater could result in an unsafe or hazardous installation, which may result in a fire, explosion, property damage, personal injury or loss of life.
- This appliance should be inspected before use and at least annually. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

  `S'assurer que le bruleur et le compartiment des commandes sont propres. Voir les instructions d'installation et d'utilisation qui accompagnent l'appareil.
- This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes. This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

  Cetappareil peut être installé dans un maison préfabriquée (mobile) déjà installée à demeure si les règlements locaux le permettent.

  Cet appareil doit être utilisé uniquement avec les types de gas indiqués sur la plaque signalétique. Ne pas l'utiliser avec d'autres gas sauf si un kitde conversion certifié est installé.
- The installation must conform to local codes. Your local Atra authorized dealer can assist you in determining what is required in your area for a safe and legal installation. Some areas require a permit to install a gas burning appliance. Always consult your local building inspector or authority having jurisdiction to determine what regulations apply in your area.

  In the absence of local codes, the installation requirements must comply with the current National codes. In the U.S., these requirements are established in the National Fuel Code, ANSI Z223.1.(NFPA 54). In Canada, the codes have been established in CAN/CGA B149 Fuel Installation Code.

  Installer l'appareil selon les codes ou reglements locaux, ou, en l'absence de tels reglements, selon les Codes d'installation CAN/CGA-B149.
- Do not operate this fireplace if any part of it has been under water..

  Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.

  Ne pas se servir de cet appareil s'il a ete' plonge dans l'eau, completement ou en partie. Appeler un technicien qualifie pour inspecter l'appareil et remplacer toute partie du syste'me de controle et toute commande qui ont ete plonges dans l'eau.
- Do not operate the fireplace with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person. Only remove glass for routine service. Always handle glass carefully.

  Pour utilisation avec les portes en verre cerifiers aved l'appareil seulemend ou. Ne pas utiliser avec des portes on verre.
- Notify your insurance company before proceding with installation of this fireplace.

3.0 Safety Information

- **Due to the high operating temperatures this appliance should be located out of traffic and away from furniture, draperies, etc. Maintain proper clearance to combustible mantels and fireplace trim.**
- **Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.**
- **Enfants et adultes doivent être avertis des dangers des températures de surface élevées et devraient rester à l'écart pour éviter les brûlures ou l'inflammation des vêtements.**
- **Young children should be supervised while they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier, such as a child guard, is recommended to be used if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at-risk individuals out of the room and away from hot surfaces.**
- **Les jeunes enfants doivent être surveillés pendant qu'ils sont dans la même pièce que l'appareil. Les tout-petits, les jeunes enfants et d'autres peuvent être sensibles aux brûlures par contact accidentel. Une barrière physique, comme un garde de l'enfant, est recommandé pour être utilisé si il ya des personnes à risque dans la maison. Pour restreindre l'accès à une cheminée ou un poêle, installer une barrière de sécurité réglable pour garder les tout-petits, les jeunes enfants et autres personnes à risque à se sortir de la salle et à l'écart des surfaces chaudes.**
- **Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the appliance.**
- **Tout écran ou grille de protection pour l'entretien d'un appareil doit être remplacé avant de faire fonctionner l'appareil.**
- **Clothing or other flammable materials should not be placed on or near the fireplace.**
- **Surveiller les enfants. Garder les vêtements, les meubles, l'essence ou autres liquides à vapeur inflammables lin de l'appareil.**
- **Never allow anyone to use the fireplace if they are unfamiliar with its operation.**
- **NEVER store or use gasoline or any other flammable vapors or liquids in the vicinity of the fireplace.**
- **Never burn any solid materials (wood, cardboard, paper, coal, etc.) in this gas fireplace. Use with natural gas or propane fuel ONLY.**
- **Do not slam or strike the glass panel.**
- **This appliance is NOT for use with aftermarket glass doors. This appliance is approved for use only with the surround panel options listed on page 4 of this manual. Cet appareil ne sert pas avec des portes en verre de marché des accessoires. Cet appareil est approuvé pour l'usage seulement avec les revêtements de porte, entoure les options de panneau et en verre de panneau énumérées à la page 4 de ce manuel.**
- **Wear gloves and safety glasses while performing maintenance procedures.**

ELECTRICAL HAZARDS:

- **Be aware of electrical wiring locations when cutting holes in walls and ceilings for termination.**
- **The blower must be electrically grounded in accordance with local codes or, in the absence of local codes, with the current ANSI/NFPA 70, National Electrical Code or CSA C22.1-Canadian Electrical Code.**
- **The Blower is supplied with a three-prong (grounding) plug for protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THE PLUG.**
- **Always disconnect the power supply when performing routine service on the fireplace.**

WARNING!

Shock Hazard. Can cause severe injury or death. This appliance is powered by line voltage. Do not try to repair the components in this appliance. In no way are the component enclosures to be tampered with or opened. Turn off the main power supply at the FCM during installation or when performing any maintenance.

WARNING!

Always shut off the main gas supply to the appliance during inspection, maintenance, or cleaning.

4.0 Installation

4.1 Electrical Requirements

This appliance requires 120 VAC, 4 amps for operation of the Blower, Accent Lamp, and Remote Control functionality.

- **This appliance power supply must be electrically grounded in accordance with local codes or, in the absence of local codes, with the current ANSI/NFPA 70, National Electrical Code or CSA C22.1-Canadian Electrical Code.**
- **Do not disconnect the lamp and fan power cords from the appliance power supply (Fan Control Module). Use the rocker switch to control power to these parts.**
- **Always turn off the main power supply at the Fan Control Module when performing routine service on this appliance.**
- **NOTE: Fireplace control components may be adversely affected by other electrical controls that share the same circuit. If it is not practical to install a dedicated service line to the fireplace, we recommend use of a circuit that is free of dimmers and/or fan speed controls.**

4.2 Fireplace Location

In selecting a location for the fireplace, consider the following points:

1) Heat distribution
2) Vent termination requirements
3) Gas supply routing
4) Traffic areas, furniture, draperies, etc.
5) 120V electrical service availability.

This fireplace may be located on or near conventional construction materials, however, proper clearance to combustibles must be maintained in order to provide adequate air circulation around the appliance. Follow the framing and clearance specifications exactly.

The clearances specified in this manual are the minimum requirements established as a result of safety testing. A combustible material is anything that can burn; i.e. sheet rock , wall paper, wood, fabrics, etc. These surfaces are not limited to those that are visible and also include materials that may be located behind non-combustible materials.

If you are not sure of the combustible nature of a material, consult your local fire officials. "Fire-resistant" materials are considered to be combustible. They may be difficult to ignite, but will burn. "Fire-rated" sheet rock is also considered combustible.

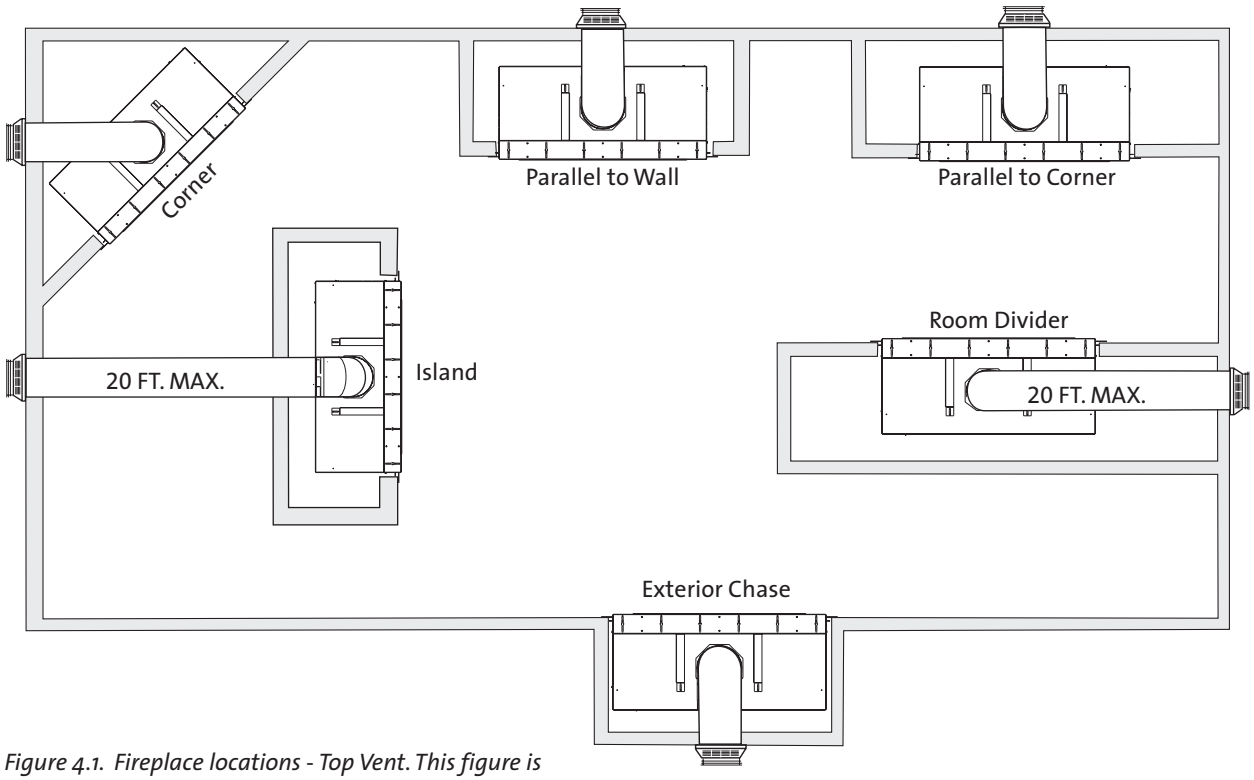


Figure 4.1. Fireplace locations - Top Vent. This figure is for illustrative purposes only. See pages 8 - 11 for specific clearance and venting requirements.

4.3 Framing Requirements

4.3.1 Header Stand-off Assembly

When installed, the Header Stand-off assembly will provide the required 46" combustible header height.

1. Detach the Header Stand-off assembly from its shipping position on the pallet.
2. Attach the Stand-off assembly upright to the front of the cabinet top using the four existing screws. Adjust the position of the Stand-off to accommodate the thickness of the non-combustible facing material. See Fig. 4.4.
3. Detach the Header Support Brackets from their shipping positions on the stand-off studs. Fig. 4.2. Attach the Support Brackets to the rear of the two center framing members using the sheet metal screws previously removed. Orient the brackets with the slotted ends attached to the top of the cabinet as shown.
5. Bend the nailing flanges on the two Side Stand-off Brackets out 90° from the flat shipping position and adjust each bracket as necessary to accommodate the thickness of the non-combustible face material. See Figs. 4.3. and 4.4.

NOTE: FINISHED WALL THICKNESS

The fireplace cabinet can accommodate finished wall material thickness up to a total of 31/4" by adjusting the surround support brackets to maximum extension. See Fig. 4.4.

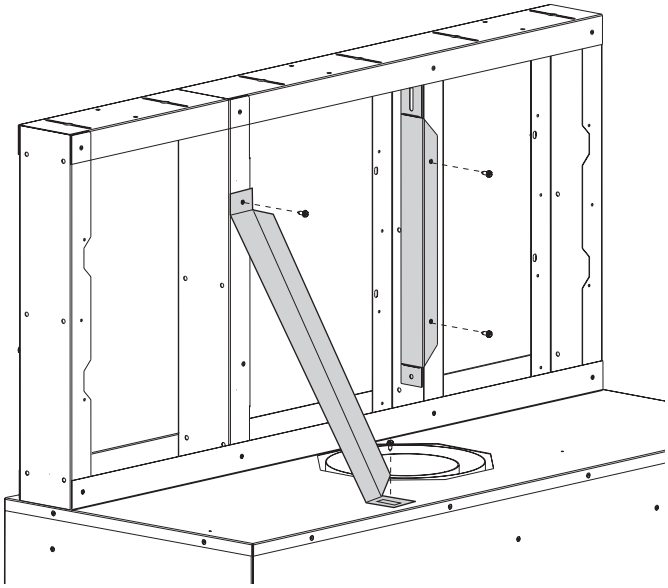


Figure 4.2.
Install Header Stand-off brackets.

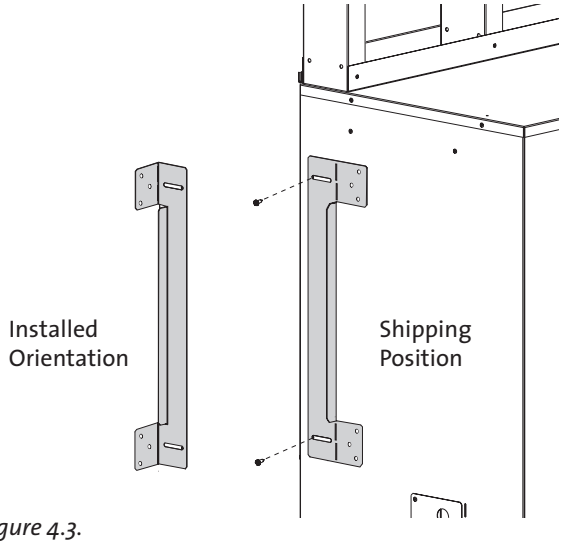


Figure 4.3.
Side stand-off orientation.

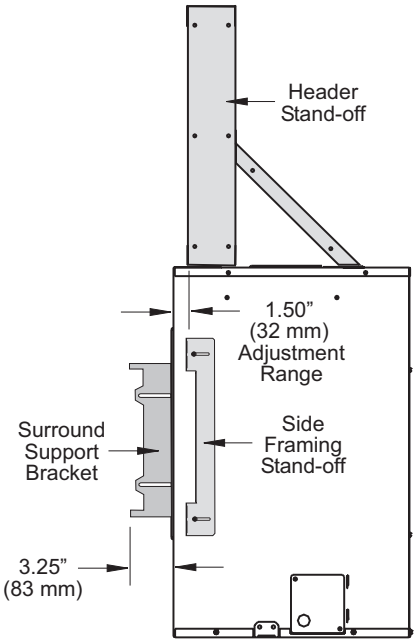


Figure 4.4.
Maximum framing stand-off and surround bracket adjustment.

4.3.2 Chase Framing

- The front header and chase ceiling framing will differ depending upon whether or not the fireplace is raised off of the floor. All height dimensions are based from the bottom of the fireplace cabinet, unless otherwise noted.
- Vertical vent runs require that 1 inch clearance to combustible framing members be maintained all around the vent.
- Insulated chase walls should be finished to ensure proper clearance is maintained between vent pipe and construction materials and also to prevent insulation from sagging.
- Use the included Simpson Dura-vent 5" x 8" to 4" x 6 5/8" Vent Reducer to transition to 4/6 vent pipe, if permitted. See Vent Table, fig. 5.5, pg. 16.

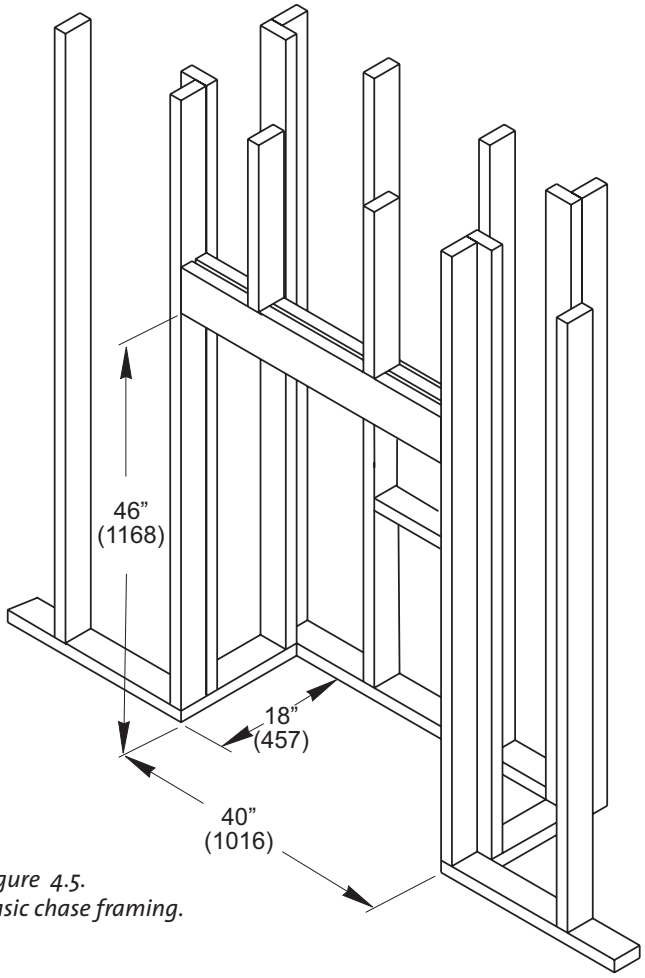
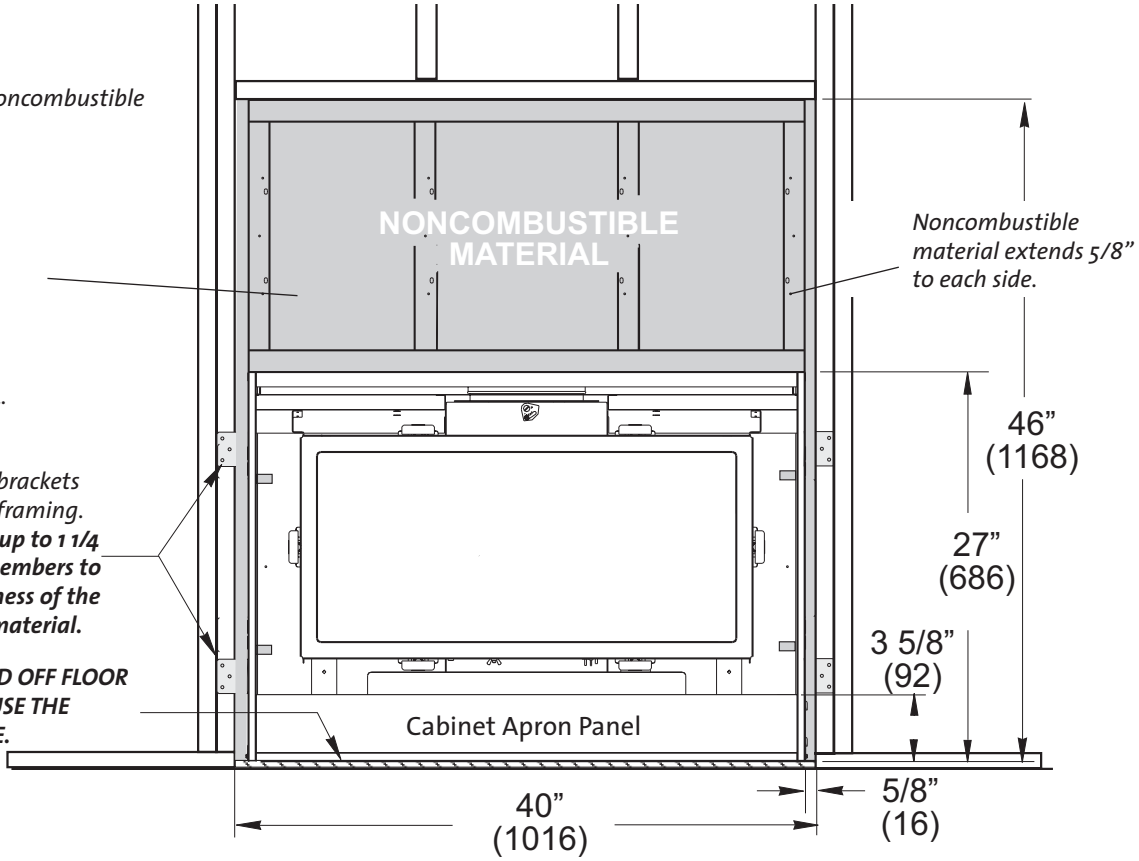


Figure 4.5.
Basic chase framing.

Figure 4.6.
Front face framing and noncombustible area.



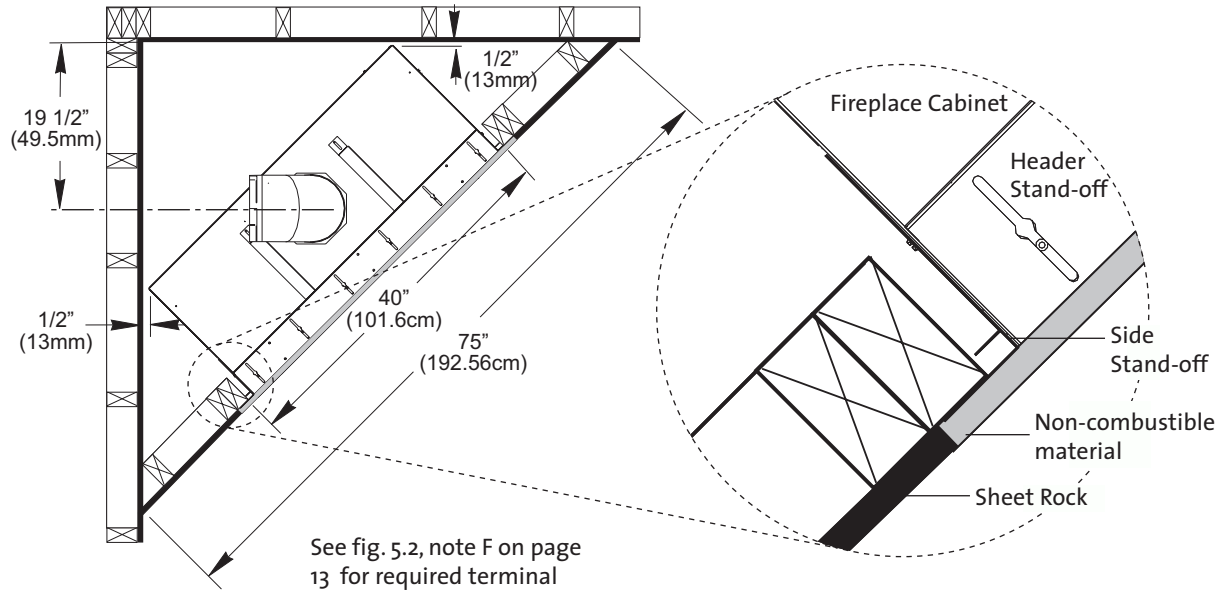


Figure 4.7.
Corner framing dimensions.

See fig. 5.2, note F on page 13 for required terminal clearances to the outside corner of building.

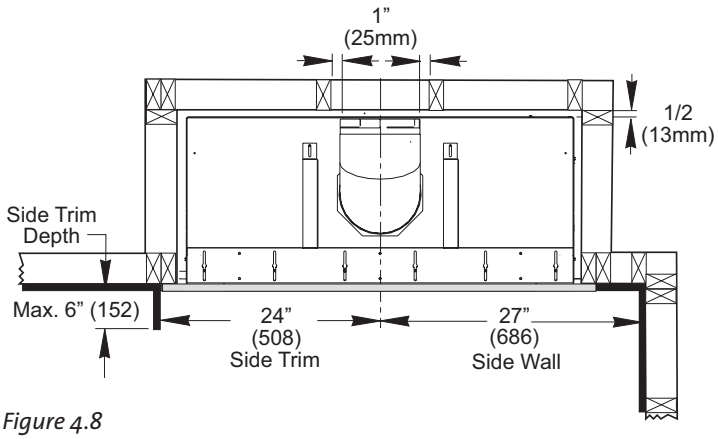


Figure 4.8
Parallel framing to side trim and wall.

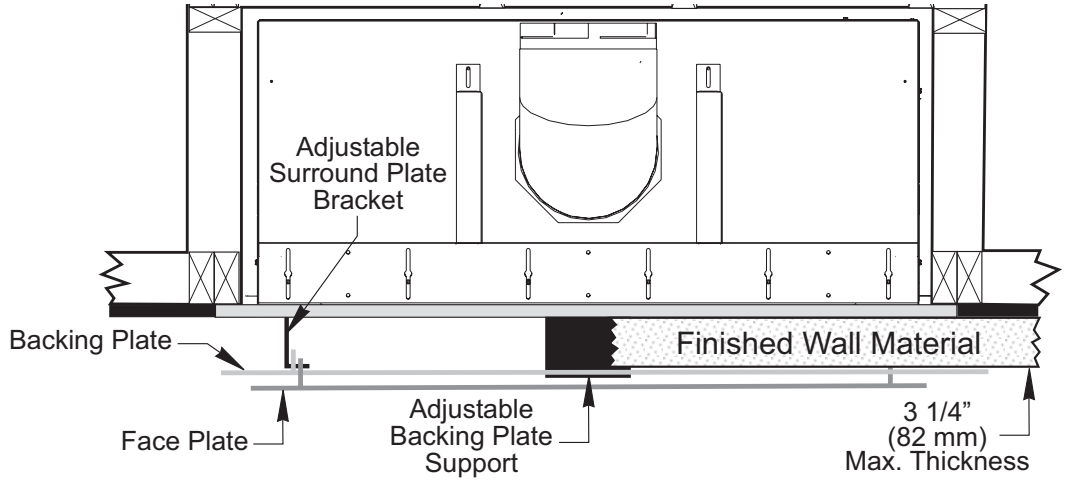


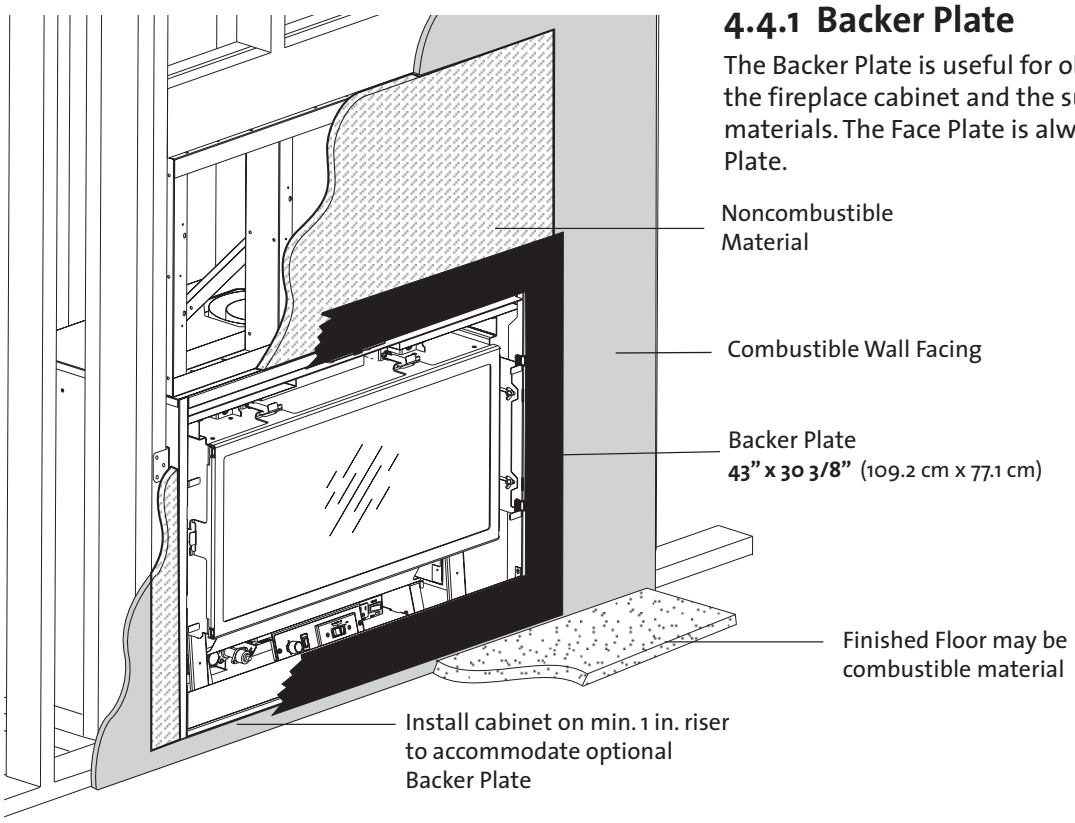
Figure 4.9.
Surround plates may be extended to accommodate finished wall facing material thickness.

4.4 Surround Treatments

4.4.1 Backer Plate

The Backer Plate is useful for obscuring seams between the fireplace cabinet and the surrounding wall facing materials. The Face Plate is always used with the Backer Plate.

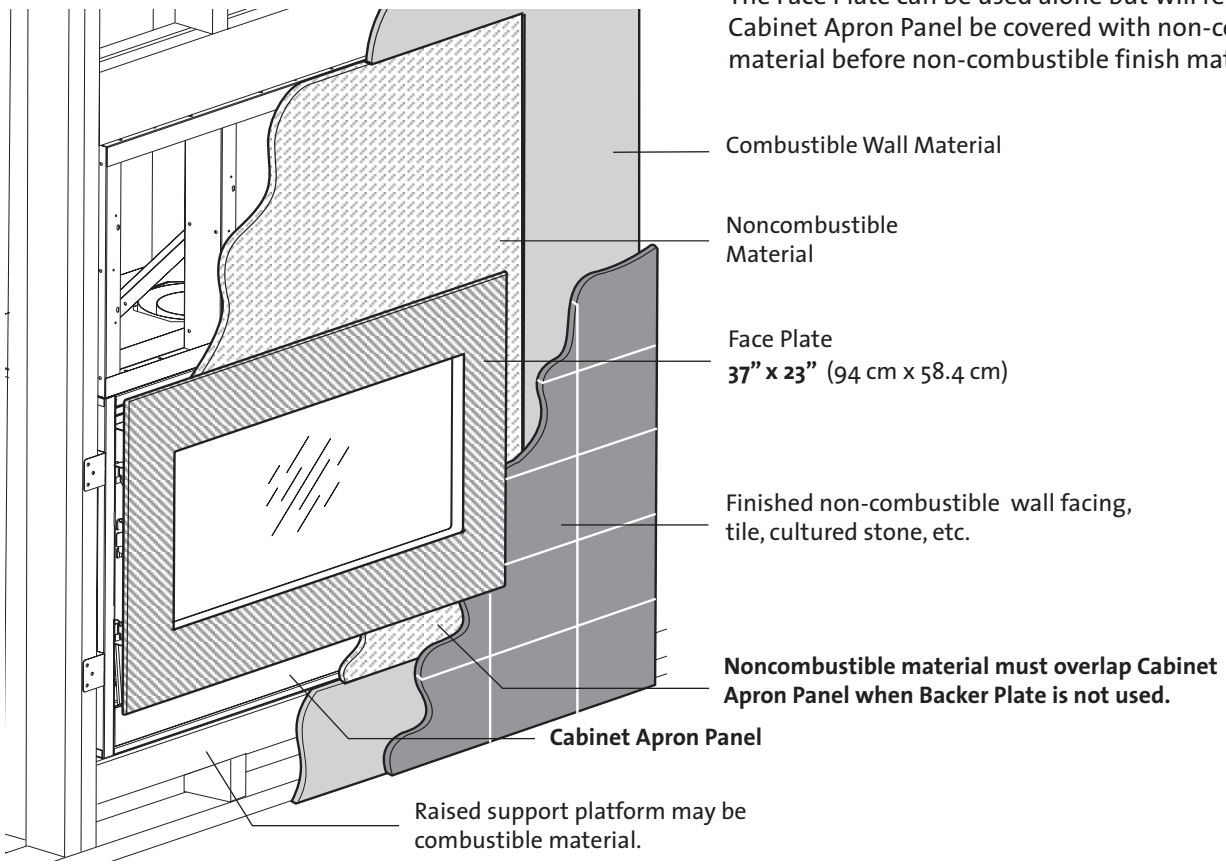
Figure 4.10.
Wall materials with Backer Plate installation, cut-away view.



4.4.2 Face Plate

The Face Plate can be used alone but will require that the Cabinet Apron Panel be covered with non-combustible material before non-combustible finish material is applied.

Figure 4.11.
Wall materials without Backer Plate, cut-away view.



4.5 Vent Framing Clearances

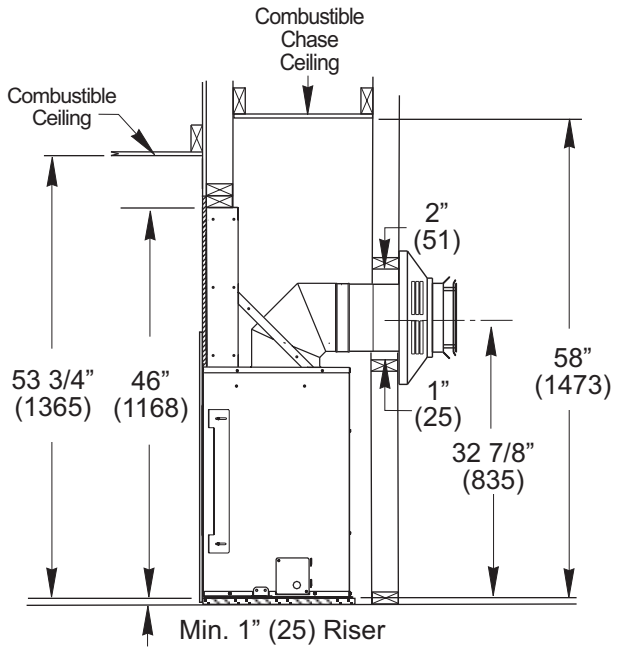


Figure 4.12.
5/8 Horizontal termination with minimum vertical rise. Note minimum riser required to install Backer Plate.

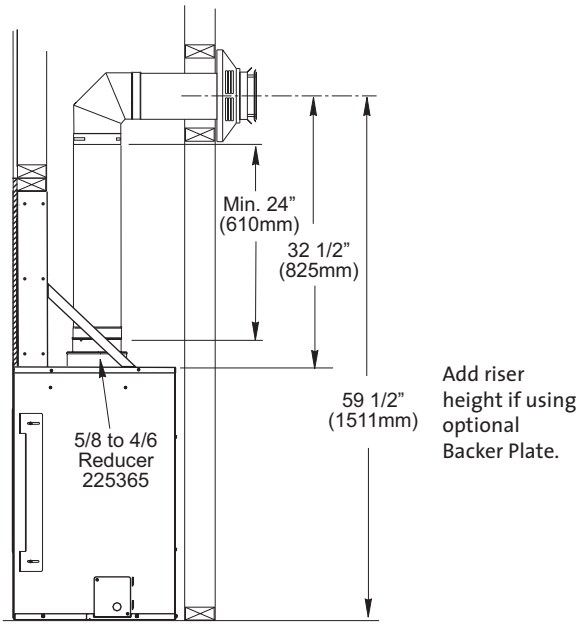
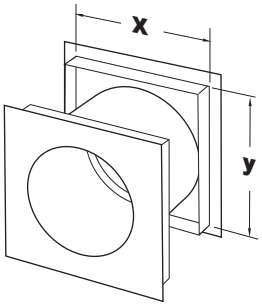


Figure 4.13.
4/6 Horizontal termination with 2 ft. minimum vertical rise.

Figure 4.14.
Local codes may require a listed wall thimble be installed according to manufacturer's instructions. Dimensions may vary by manufacturer.



Minimum Clearances from the Vent Pipe to Combustible Materials:

Horizontal Run:

Off the top of the vent pipe - 2" (51 mm)
Off the sides and bottom - 1" (25 mm)

Vertical Run:

All sides - 1" (25 mm

4.6 Hearth Requirements

This fireplace has been approved for installation directly on combustible floor materials. No additional floor protection is required.

- The fireplace must be installed on a solid surface and securely fastened to the floor using the base brackets provided.
- No floor protection is required directly in front of the fireplace.

4.7 Fireplace Clearance Requirements

4.7.1 Minimum Cabinet Clearances

Back: 1/2" (13 mm)
Sides: Zero-clearance to Side Stand-off
Top: Zero-clearance to Header Stand-off
Ceiling:
Room: 53 3/4" (1365 mm) - from Cabinet Base
Chase Enclosure: 58" (1473 mm) from Cabinet Base
Corner: 1/2" (13 mm)) - from rear corner of Cabinet
Side Wall: 27" (686 mm) - from Cabinet center-line

4.7.2 Minimum Mantel & Trim Clearances

Top Trim, Max 1" Depth:
50 3/4" (1289 mm) - from Cabinet Base
Side Trim, Max. 6" Depth :
24" (610 mm) - from Cabinet center-line
Mantel: 53 3/4" (1365 mm) - from Cabinet Base to any projection depth greater than 1".

5.0 Venting Requirements

There are three types of venting configurations approved for use with this fireplace.

- Vertical Venting / Vertical Termination
- Vertical Venting / Horizontal Termination
- Horizontal Venting / Horizontal Termination

■ Optimal Vent Configurations:
Natural Gas - 5/8 elbow directly to rear termination.
Propane - 4/6 vent, 4 ft. vertical rise to rear termination.

■ This appliance is approved for use with the 4/6 and 5/8 direct vent systems manufactured by the companies listed in the Appendix on page 38.

■ A 4/6 Vent Adaptor is included with the appliance.

■ Use parts of one manufacturer only - DO NOT MIX VENT COMPONENTS FROM DIFFERENT MANUFACTURERS WITHIN THE SAME SYSTEM.

■ Installation of any components not manufactured or approved by Atra or failure to meet all clearance requirements will void all warranties and could result in property damage or bodily injury.

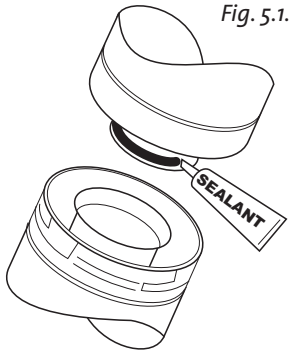
The approved vent configurations described in this manual are derived from extensive testing under controlled laboratory conditions. Gas appliance performance can be negatively affected by variables present in the installation environment, i.e.; atmospheric pressure, strong prevailing winds, adjacent structures and trees, snow accumulation, etc. These conditions should be taken into consideration by the installer and fireplace owner when planning the vent system design.

IMPORTANT

Joint Sealing Requirement Simpson Dura-Vent:

- Apply 1/8" bead of high-temperature, non-silicone sealant or Mil-Pak® to the male section of the inner pipe. The cement should form a seal between the two inner pipe sections. See fig. 5.1 and the vent manufacturer's instructions.

Fig. 5.1.



- Never modify any venting component, or use any damaged venting product.
- The gas appliance and vent system must be vented directly to the outside of the building and never attached to a chimney serving a solid fuel or gas burning appliance. Each direct vent gas appliance must have its own separate vent system. Common vent systems are prohibited.
- If venting system is disassembled for any reason, reinstall per the manufacturer's instructions provided for the initial installation.

5.1 Horizontal Termination

■ Any horizontally terminated vent system that includes a vertical run must terminate within one of the Zones defined in the diagram in fig. 5.5. See page 15 for important information regarding exhaust restriction adjustments.

■ 4/6 vent requires a 2 foot **minimum vertical rise** from the top vent collar. See fig. 4.11.

■ 5/8 vent may be directed to a horizontal termination with an 90° elbow straight off the top vent collar. See fig. 4.10. **The maximum horizontal run, with no vertical rise, is 4 feet.**

■ A maximum of three 90° or six 45° elbows may be used in a horizontally terminated, top exit vent system. Whenever possible, use 45° elbows instead a 90° elbow as they offer less restriction to the flow of flue gases and intake air.

■ Reduce the overall horizontal run by 4 feet for each 90° elbow, and 2 feet for each 45° elbow.

■ When two or more elbows are used in a horizontal run, a less restricted setting may be more effective than that indicated by the termination zone diagram.

■ **The termination cap must not be recessed into the wall or siding.** Do not fill air space in wall around termination cap with any type of insulation.

■ **Wall Cut-out:** 4/6 vent requires a 10" x 10" minimum square hole. 5/8 vent requires a minimum 11" X 11" square hole. These cut-outs are adequate for proper pipe clearance through a wall provided the vent is positioned to maintain 2" minimum clearance at the top. A 1"-inch minimum clearance must be maintained to combustible material around the other sides. The wall cut-out must be fully framed-in.

■ Any horizontal vent run must be level or have a 1/4" rise for every foot of run toward the termination cap. Vent may not direct downward at any point.

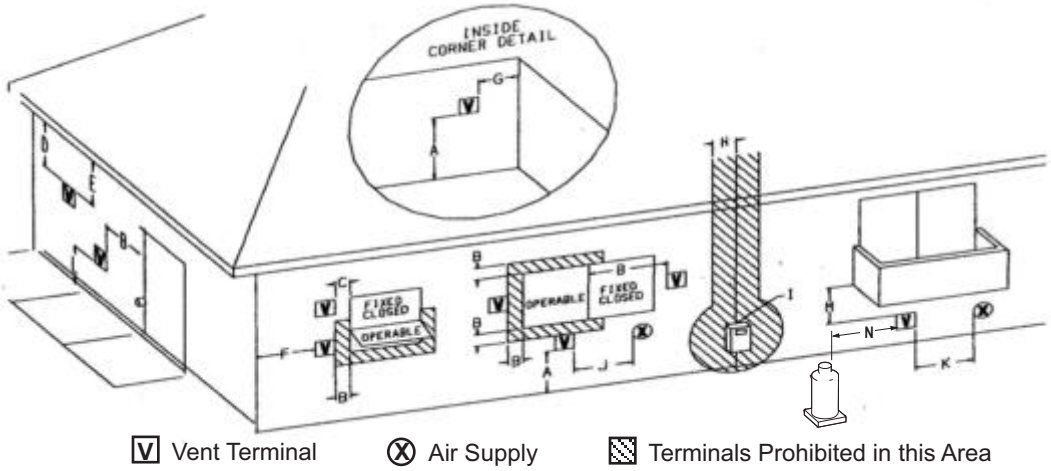
■ All horizontal terminations must comply with the clearance specifications to adjacent structures as indicated in fig. 5.2.

■ **Installation of a Vinyl Siding Standoff is required** to prevent damage to vinyl siding between the vent cap and the exterior wall.

■ **A horizontal termination cap must maintain a 3 inch clearance to any overhead combustible materials that project 2 1/2 inches or less.** Projections exceeding 2 1/2 inches require a minimum 12 inch clearance to the edge of the vent termination. See fig. 5.3.

Vinyl siding projections require a default clearance of 18 inches to the top of the vent terminal.

Figure 5.2. Horizontal termination clearances.



A = Clearance above grade, veranda, porch , deck, or balcony : 12 inches (30 cm) minimum.

B = Clearance to window or door that may be opened: **Min. 9 inches, U.S. / *12 inches (30 cm) CAN. We recommend 12 in. minimum to prevent condensation on the window.

C = Clearance to permanently closed window: **Min. 9 inches, U.S. / *12 inches (30 cm) CAN We recommend 12 in. minimum to prevent condensation on the window.

D = Vertical clearance from the top of the termination to a ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center line of the terminal: 18 inches (46 cm) minimum.

E = Clearance to unventilated soffit: 12 inches (30 cm) minimum.

F = Clearance to outside corner: **Min. 9 inches, U.S. / *12 inches (30 cm) CAN. We strongly recommend 12 inches, particularly where windy conditions prevail.

G = Clearance to inside corner: ** Min. 6 inches, U.S. / *12 inches (30 cm) CAN. We strongly recommend 12 inches, particularly where windy conditions prevail.

* In accordance with CSA B149 Installation Codes.

** In accordance with the current ANSI Z223.1/NFPA 54, National Fuel Gas Code. Note: Local Codes and Regulations may require different clearances.

H = *Not to be installed within 15 feet (4.5 m) above a meter/ regulator assembly within 3 feet (90 cm) horizontally from the center line of the regulator.

I = Clearance to service regulator vent outlet: 3 feet (91 cm) minimum.

J = Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance: 12 inches (30 cm) minimum.

K = Clearance to a mechanical air supply inlet: **Min. 3 feet (91 cm) above if within 10 feet horizontally, U.S. / *6 feet (1.83 m) minimum / CAN

L = [1] Clearance above paved sidewalk or a paved driveway located on public property: 7 feet (2.1 m) min.

M = Clearance under veranda, porch, deck, or balcony: 12 inches (30 cm) minimum.[2]

N = Clearance to propane tank relief valve and filler connection***: **5 feet (1.52 m) minimum to tanks not filled on site**
10 feet (3.05 m) minimum to tanks filled on site from bulk truck.

[1] A vent shall not terminate directly above a sidewalk or driveway which is located between two single family dwellings and serves both dwellings.

[2] Only permitted if veranda, porch, deck, or balcony, is fully open on a minimum of two sides beneath the floor.*

NOTE: Clearances must be in accordance with local installation codes and the requirements of the gas supplier.

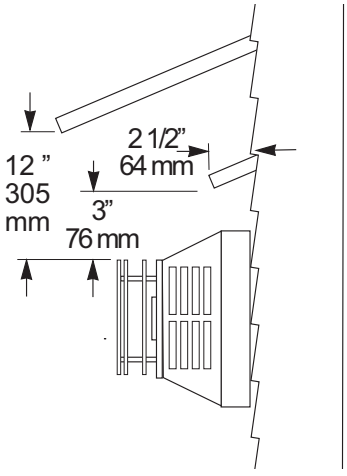


Figure 5.3
Termination clearance to overhangs.

5.2 Vertical Termination

This appliance can be vertically vented through a roof or ceiling following these guidelines:

- **The termination must fall within any of the Zones defined in the termination diagram, fig. 5.5 on page 15.**
- Steep roofs, nearby trees, or predominantly windy conditions, can promote poor draft or down draft conditions. In such cases, an increase to the height of the vent may improve performance.
- A maximum of three 90° or six 45° elbows may be used in a vertical termination. Whenever possible, use 45° elbows instead of 90° elbows as they offer less restriction to the flow of flue gases and intake air.
- If an offset or elbow is necessary in the vertical rise, the vent pipe must be supported every three feet to avoid excessive stress on the offsets. Use listed Wall Straps from any of the approved vent suppliers.
- The maximum overall horizontal run must be reduced by 4 feet for each 90° elbow, and 2 feet for each 45° elbow.
- When two or more elbows are used in a horizontal run, a less restricted setting may be more effective than that indicated in the termination zone diagram.
- A listed firestop is required at any floor penetration. The opening should be framed in according to the manufacturer's instructions.
- Always maintain a minimum 1" clearance from all sides of the vertical vent system to any combustible material.
- Any horizontal vent run must be level or incorporate a 1/4" rise per foot. In no case may vent runs be oriented downward.
- **GAS VENT HEIGHT:** In no case shall any discharge opening on the cap be less than 18" (457 mm) horizontally from the roof surface. See fig. 5.4.
- **Maximum Vent Height:** 40 ft. above the appliance. **Minimum Vent Height:** 2 ft. above the appliance.

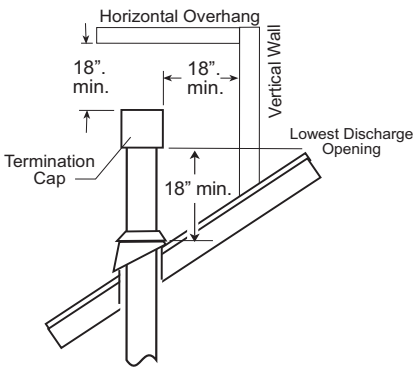


Figure 5.4. Minimum roof penetration height and clearance from adjacent surfaces - vertical termination.

5.3 Exhaust Restriction Adjustments

The Atra GZ 455 DV features an exhaust adjustment control to accommodate a variety of conditions that result from variables inherent in the vent configuration and environment. The control mechanism is a butterfly valve located in the exhaust outlet at the top of the firebox. The restriction setting can be accessed from outside the firebox to allow the burner and pilot flame characteristics to be "dialed-in" under operation. See fig. 5.6.

Exhaust restriction prevents overly strong draft that can interfere with pilot function, cause poor combustion or a weak flame picture.

NOTE: The restrictor valve is set FULLY OPEN at the factory. Use the Vent Termination Diagram, fig. 5.5, to determine which zone your vent termination falls within, and make the appropriate exhaust setting adjustment. Consider this setting to be a starting point from which further adjustments may be required depending upon the individual characteristics of your particular installation. There are no hard and fast rules.

Use of elbows may adversely affect IPI (intermittent pilot ignition) functionality. In such cases, CPI (continuous pilot ignition) mode should be used.

5.3.1 Exhaust Restrictor Adjustment

1. Use the spade screwdriver to loosen the locking screw and turn the adjustment screw on the restrictor pivot plate to the appropriate indicator point, as specified in the vent window diagram, fig. 5.6.

   The restriction can also be adjusted while the burner is operating if necessary.

   After the burner has been operating for 15 minutes, make any further adjustment in 1/8" increments until the desired flame picture is achieved. Operate the burner for 10-15 minutes between subsequent adjustments.
2. Retighten the locking screw.

5.4 Intake Restriction Adjustment

An Intake Restrictor plate is installed at the factory. It is located behind the burner assembly, attached to the firebox floor. It should be removed for vent configurations that terminate within Zones A and B. See fig. 5.7.

Use a 1/4" nut driver to loosen the two sheet metal screws. Remove the plate and re-tighten the screws in place. DO NOT REMOVE THE SCREWS.

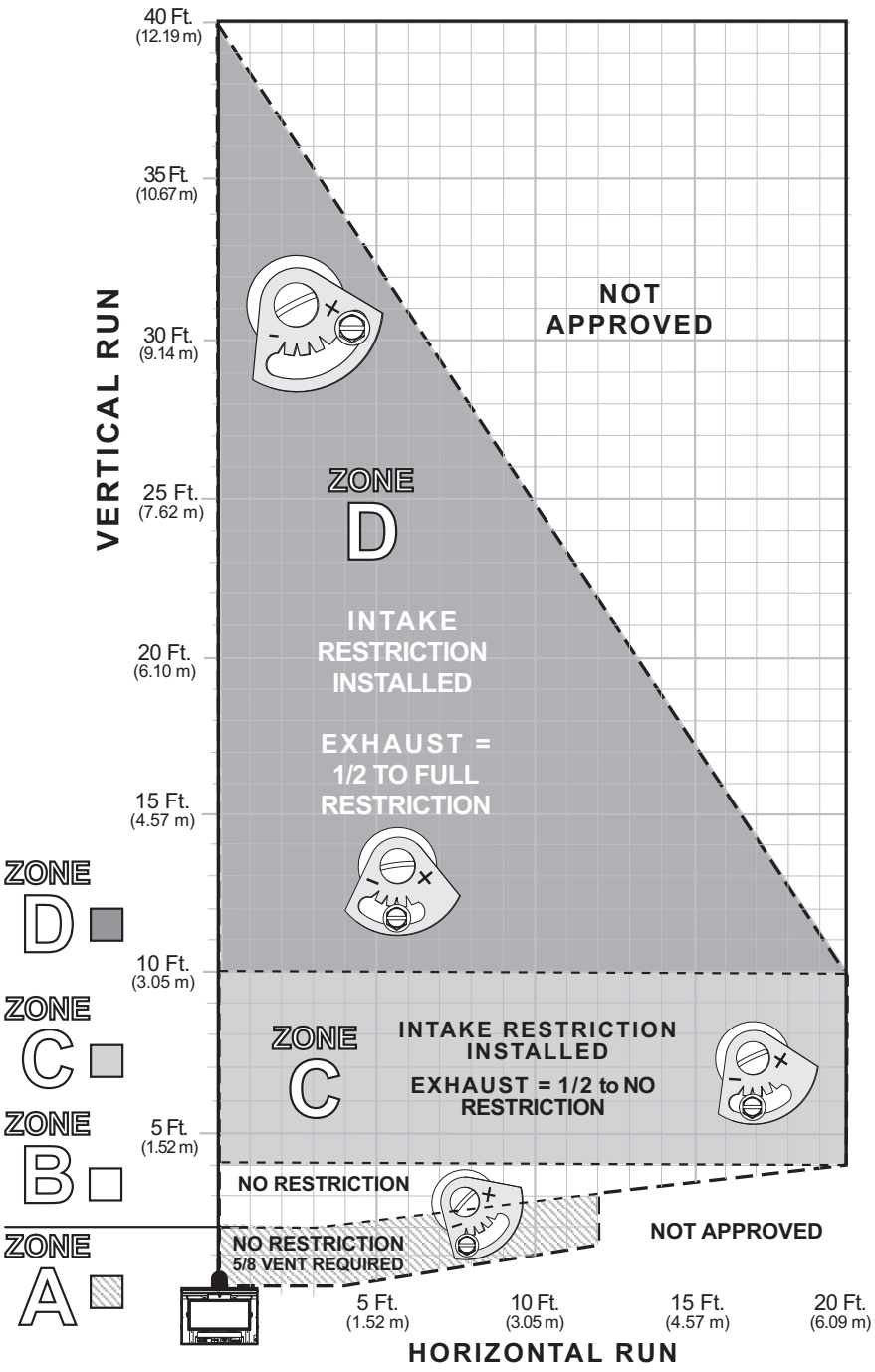


Figure 5.5. Vertical or Horizontal Vent Termination Diagram.

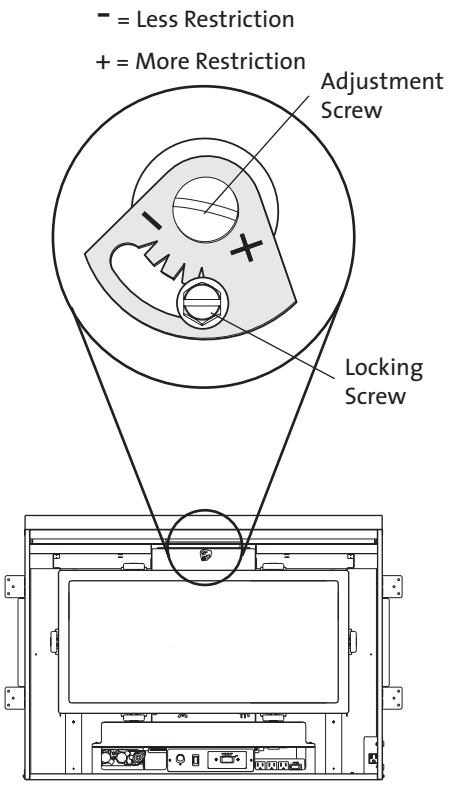


Figure 5.6. Exhaust restrictor adjustment.

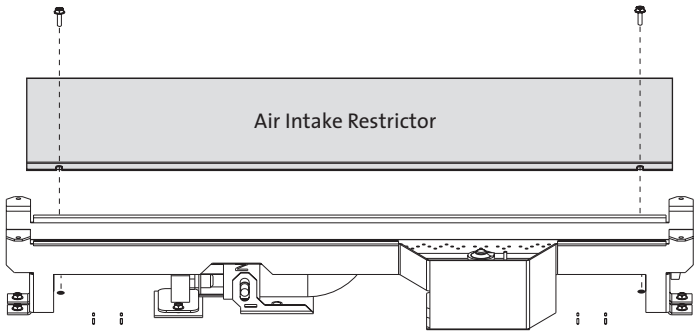


Figure 5.7 Remove Intake Restrictor plate for terminations in Zones A and B.

6.0 Fireplace Assembly

6.1 Glass Frame Removal

The glass frame is removed by disengaging six compression latches. There are two upper, two lower, and one at each side. See fig. 6.1. Simply pull the latch handle out to release each latch. Disengage the lower and side latches before releasing the upper latches.

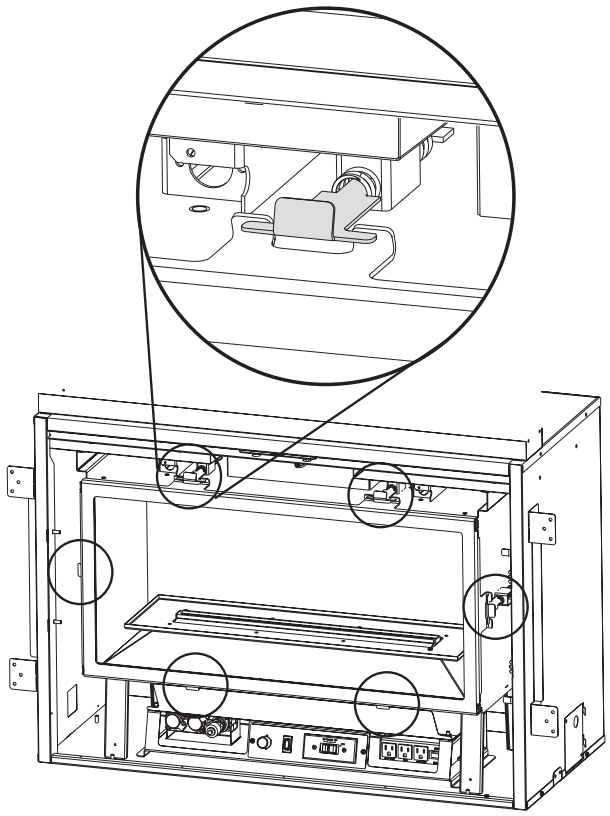


Figure 6.1.
Disengage the Glass Frame latches.

6.2 Routing the Power Supply

HARD WIRING REQUIREMENT

As this appliance is permanently framed into an enclosure, it must be hard wired to 120 VAC house current at the fireplace junction box located at the right rear corner of the cabinet.

This fireplace must be electrically connected and grounded in accordance with local codes. In the absence of local codes, use the current ANSI/ NFPA 70-1996 NATIONAL ELECTRICAL CODE IN THE U.S. OR CSA C22.1 CANADIAN ELECTRICAL CODE for Canada.

The leads inside the junction box are connected to the Fan Control Module (FCM) which controls power to the burner ignition system, blower, and accent lamps.

CAUTION!
CONFIRM THAT THE FCM POWER SWITCH IS IN THE OFF POSITION BEFORE TURNING POWER ON TO THE FIREPLACE AT THE SERVICE BOX. See fig. 6.18, page 25. DO NOT TURN THE FCM ON UNTIL UNTIL THE INSTALLATION IS COMPLETE AND YOU ARE READY TO INITIATE THE FIRST BURN.

1. Remove the cover plate from the junction box and attach the cable clamp from the Hardware bag.
2. Use wire nuts to connect the house current wires to the black and white leads as indicated in fig. 6.2.
3. Connect the cable ground wire to the grounding terminal in the fireplace base.
4. Replace the junction box cover plate and secure the cable clamp to the cable.

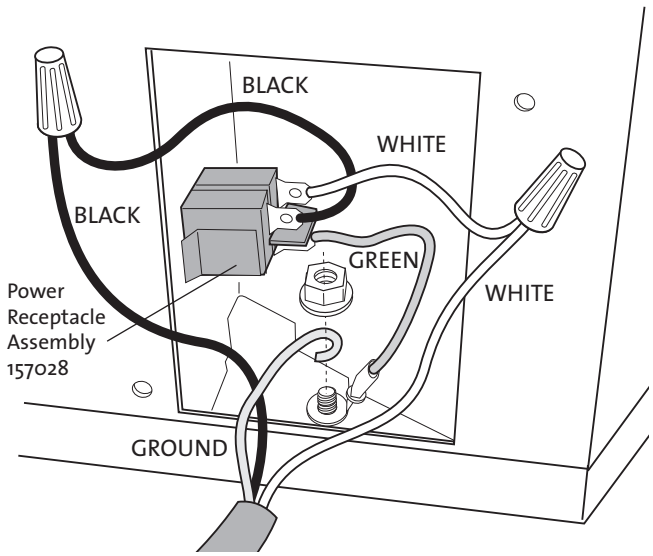


Figure 6.2. Hard wiring at the junction box. See also electrical wiring diagram, Appendix 10.3, page 38.

6.3 Connecting the Gas Supply

Gas Supply Requirements

ALL INSTALLATIONS MUST COMPLY WITH LOCAL CODE OR IN THE ABSENCE OF LOCAL CODE, MUST COMPLY WITH THE MOST RECENT EDITION OF THE NATIONAL FUEL GAS CODE ANSI Z223.1/NFPA 54 OR CAN-B149.

Shut-off Valve

A shut-off valve must be installed upstream of the gas control valve. This allows for the disconnection of the fireplace for servicing and maintenance. See Fig. 6.3.

A T-HANDLE GAS SHUT-OFF VALVE IS REQUIRED TO BE INSTALLED IN THE COMMONWEALTH OF MASSACHUSETTS IN COMPLIANCE WITH CODE 248CMR.

THIS PRODUCT MUST BE INSTALLED BY A LICENSED MASTER OR JOURNEYMAN PLUMBER OR GAS-FITTER WHEN INSTALLED IN THE COMMONWEALTH OF MASSACHUSETTS.

The fireplace and gas control valve must be disconnected from the gas supply piping during any pressure testing of the system at test pressures in excess of 1/2 psig. For pressures lower than 1/2 psig, isolate the gas supply by closing the manual shut-off valve.

Control Valve Connection

The gas supply line connection to the elbow above the shut-off valve is made through the inlet in the left side of the fireplace. The gas supply line should be a minimum 3/8" inside diameter, or the appropriate size to provide sufficient gas pressure to the valve regardless of the input setting.

The use of flexible gas appliance connectors is acceptable in many areas in the U.S. In Canada, methods vary depending on local code. If local codes permit, use flexible gas line for ease of installation and service. For those locales where flexible gas lines are not permitted, use a 3/8" iron fitting.

Secure all joints tightly using appropriate tools and sealing compounds (for propane units, be sure to use compounds that are propane resistant). Turn on gas supply and test for gas leaks using a leak test solution or electronic gas sensor.

NEVER USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

ALWAYS REFER TO THE LIGHTING INSTRUCTIONS ON THE INSIDE BACK COVER OF THIS MANUAL WHEN LIGHTING THE FIREPLACE.

Liquid Leak Test

- Use a leak test solution available from any HVAC supplier. **Do not use soap solutions as they may contain caustic chemicals which themselves can cause leaks.**
- Light appliance - see lighting instructions on the back cover of this manual or on the rating plate.
- Brush or spray all joints and connections with the test solution.
- If bubbles appear at any connection or seam or a gas odor is detected, immediately turn gas control knob to the OFF position.
- Tighten or reconnect the leaking joint and retest for any gas leaks.

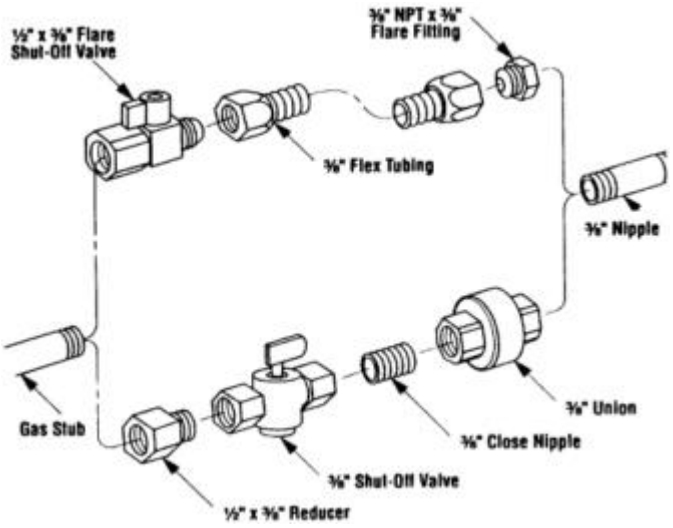


Figure 6.3.
Typical gas supply fittings.

6.4 Testing Gas Pressure

Proper gas pressure provides a consistent flow of gas to the appliance and is instrumental in checking for gas leaks. There are two pressure test points on the front of the fireplace control valve where test gauge connections are made. See Fig. 6.4. Gauge connections are identified by:

- E for inlet or supply pressure (the amount of gas coming to the valve.)
- A for manifold pressure (the amount of gas that is coming out of the valve to the burner.)

The line must be disconnected from the gas supply line by closing the main supply manual gas shut-off valve (gas cock) during any pressure testing of the gas supply piping system that is equal to or exceeds pressures of 1/2 psig (3.5 kPa).

Inlet Pressure

	MIN	MAX
Natural Gas:	5.0 WC (1.24 kPa)	7.0 WC (1.74 kPa)
Propane:	11.0 WC (2.74 kPa)	13.0 WC (3.24 kPa)

Manifold Pressure

	MIN	MAX
Natural Gas:	1.6 WC (0.40 kPa)	3.5 WC (.87 kPa)
Propane:	6.4 WC (1.60 kPa)	10.0 WC (2.48 kPa)

ALWAYS TEST INLET PRESSURE WITH THE VALVE REGULATOR CONTROL AT THE HIGHEST SETTING.

Symptoms of incorrect gas pressure include:

Insufficient gas pressure:

- Small pilot flame which can result in insufficient millivolts.
- Little variation in flame picture between HI and LO regulator settings.
- Insufficient gas to support more than one appliance causing nuisance outages or gas surges.

Excessive gas pressure:

- Permanent damage to valve causing complete appliance shut down.
- Too large a pilot flame excessive fuel consumption in standing pilot mode (CPI).
- Sooting due to impingement and/or incorrect fuel to air mix.

WARNING

DO NOT ALLOW THE INLET GAS PRESSURE TO EXCEED 14.0" WC (OR 1/2 PSIG) AS SERIOUS DAMAGE TO THE VALVE MAY RESULT.

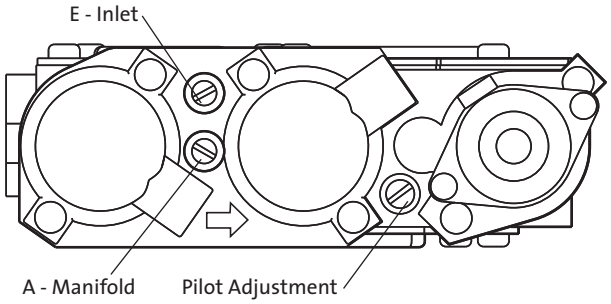


Figure 6.4. Pressure test points located on the front of the valve.

6.5 Fuel Conversion

The GZ 455 DV is shipped from the factory equipped to burn NATURAL GAS only. If PROPANE gas is to be used as fuel, the appliance must first be converted for using Propane Conversion Kit 157409 included with the stove. Use NG Conversion Kit 157408 to change back for use with natural gas.

WARNING:

THE CONVERSION KIT IS TO BE INSTALLED BY AN AUTHORIZED JØTUL SERVICE TECHNICIAN IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION AND ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE. THE QUALIFIED AGENCY PERFORMING THIS WORK ASSUMES RESPONSIBILITY FOR THIS CONVERSION.

IN CANADA:

THE CONVERSION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROVINCIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAN1-B149.1 AND .2 INSTALLATION CODE.

Tools required:

- 1/2" open ended wrench or deep-well socket, Torx T20 or slotted screwdriver, 7/16" open-end wrench.

Conversion Kit Contents:

- 4mm hex key
- 1, regulator tower labeled for either LP or NG
- 2, regulator tower screws
- 1, burner orifice (#40 for NG, 1.55 for LP)
- 1, pilot orifice (#62 - NG / #35 - LP)
- Label A - to be completed and applied to the back of the stove
- Label B - apply to the stove's Rating Plate
- Small valve label - apply to valve body
- 1, #8X 1/2" sheet metal screw (LP Air Shutter Lock)

6.5.1 Fuel Conversion Procedure

1. **Turn off gas supply** to the appliance and disconnect from electrical power source.
3. **Remove the Front Apron** panel (fig. 6.5-A). Use a 1/4" socket driver to remove the two side screws and only loosen the five bottom screws.
4. **Remove the Controls Heat Shield** (fig. 6.5-B). Reach under the firebox to loosen the **Air Shutter wing nut** located above the valve compartment (fig. 6.6).
5. **Lift the Burner Riser/Media Tray** (fig. 6.5-C) out of the firebox.
6. **Remove the Burner plate,** lifting it up and to the right to disengage it from the support brackets and air shutter.
7. **Change the Air Shutter orientation.** Flip the shutter over to indicate the appropriate fuel. See fig. 6.7.
8. **Change the Burner Injector.** See fig. 6.8. Using a 1/2" open end wrench or deep-well socket remove the burner orifice from its brass elbow housing and replace with the appropriate orifice supplied in the kit.
9. **Change the Pilot Orifice:** Fig. 6.8. Use a small blade screwdriver to release the retainer clip and pull the pilot hood off of its base. Use the 4mm hex key supplied to remove the pilot orifice from within the base and install the new orifice from the conversion kit.

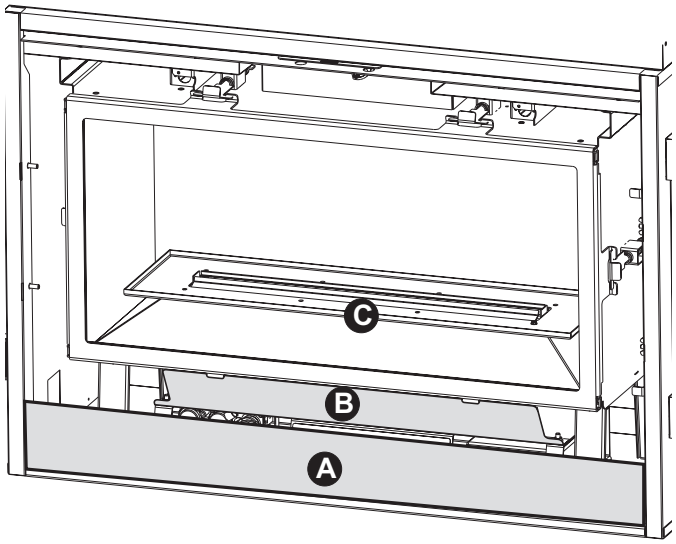


Figure 6.5.
Firebox panels and riser assembly removal.

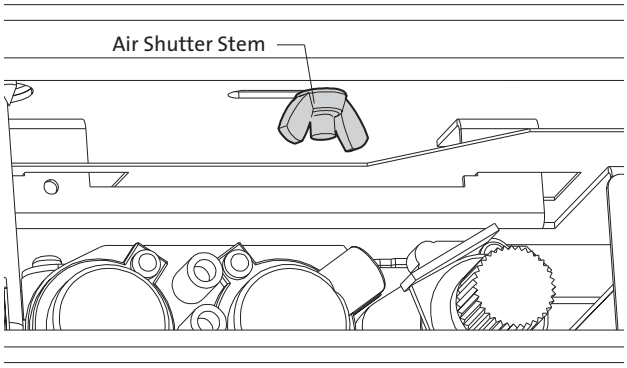
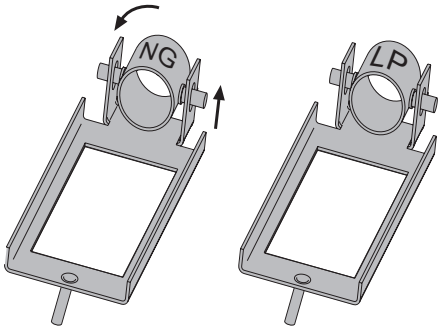


Figure 6.6. Air Shutter Stem wing nut located above valve.

Figure 6.7.
Reverse the shutter for the alternate fuel.



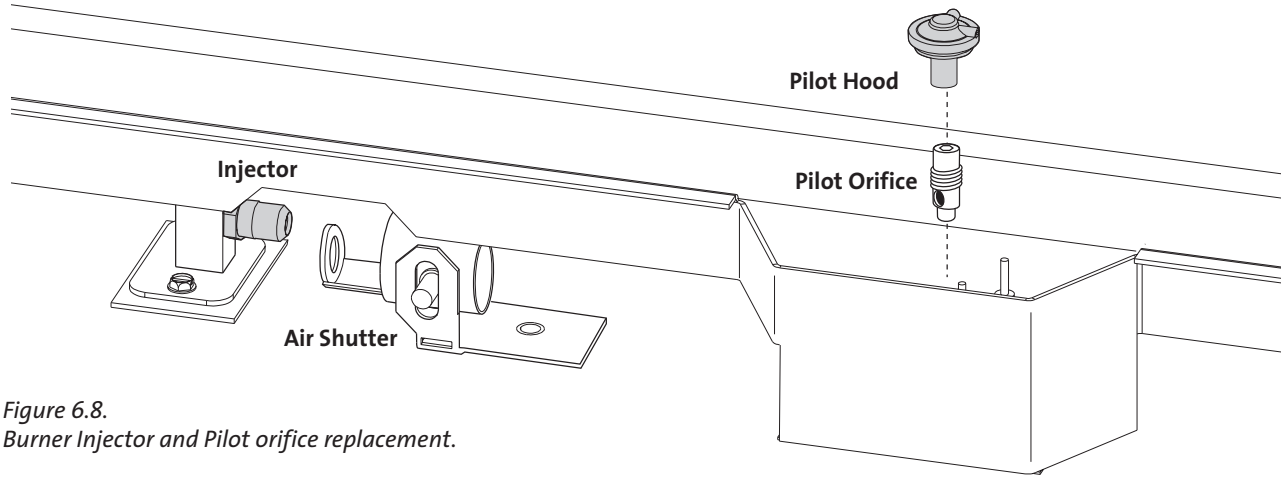


Figure 6.8.
Burner Injector and Pilot orifice replacement.

Fuel Conversion, cont'd.

10. Replace the Burner Plate.
Engage the burner tube with the Air Shutter assembly. Engage the slots on the right end with the support brackets.

11. Replace the Valve Regulator.
Using a Torx T-20 screwdriver, remove the two screws from the front of the regulator, (fig.6.10). **Disconnect the motor lead at the splice connector and** replace the regulator components with those from the conversion kit. Reconnect the motor lead.

12. Install the identification labels to the valve so that they can be seen by any service technician.
Label A: apply to valve compartment floor.
Label B: apply to the rating plate attached to the back of the stove.
Small Conversion Label: apply to valve.

13. Reassemble the stove, apply gas to the system and check for leaks using a soapy water solution or gas detector.

NEVER USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

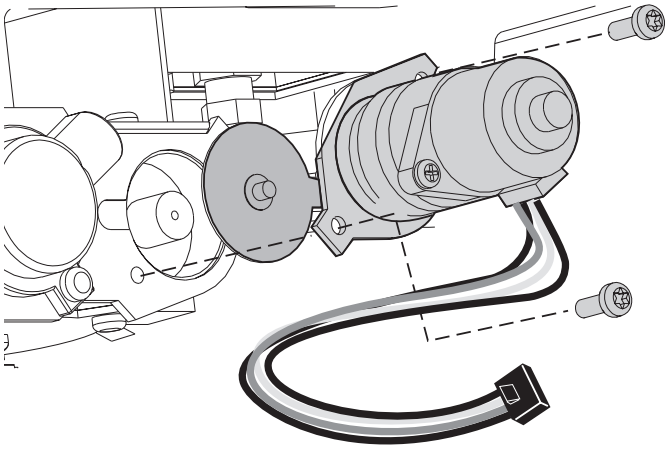


Figure 6.9.
Replace the regulator tower and reconnect the motor leads.

6.5 High Altitude Adjustment

The decreased atmospheric pressure of higher altitudes affects the heat value of gaseous fuels. Most gas suppliers derate the gas intended for use at elevations above 2000 feet. Check with your gas supplier before performing derate adjustment to the burner.

This appliance may be adjusted for altitude over 2000 ft. (610 - 1371 m) for natural gas or propane.
If the gas supplier does not derate fuels, install High Altitude Adjustment Kit 157430 for Propane and Kit 157431 for Natural gas.

U.S & Canada per
ANSI Z21.88-2009•CSA 2.33-2009, CAN/CGA 2.17

For installations from 610-1370 meters (2000-4550 ft.) the orifice sizes (DMS) for natural and propane gas are #41 and #53 respectively. See data plate for additional information. For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods. If the installer must convert the unit to adjust for varying altitudes, the information sticker must be filled out and applied to the appliance at the time of the conversion.

Cet appareil est equippé pour des altitudes compries entre 0 et 2000 pieds (0-610 m) seulement.

6.5.1 Derating Procedure

1. **Confirm that the injector identification stamp conforms to the size specification noted above.**
2. Use a 1/2" or 13 mm deep socket to remove the original orifice and replace it with the one provided in the kit appropriate for gas type. See fig.6.8, page 20.
3. Replace the burner and burner skirt.
4. Conduct gas leak and gas pressure tests as detailed on pages 16-17 of this manual.
5. Conduct system check and flame picture adjustments as specified pages 24-25.
6. Fill out the appropriate information and apply the high altitude conversion label provided to the rating plate on the appliance. See fig. 6.10.

This appliance has been converted for use at an altitude of_____ .
Orifice Size: _____ Manifold Press. _____
Input Btu/Hr. _____ Fuel Type _____
Date: ___/___/___ Converted by:_____
Cet appreeil a été converti au _____ Injecteur_____
Pression à la tubulure d'alimentation _____
Déoit calorifique _____

Figure 6.10. Hi gh Altitude Conversion Label.

6.6 Firebox Liner Installation

Mirrored Reflective Glass Panels - 157413

Black Reflective Glass Panels - 157414

Desert Sand Refractory Panels - 157407

6.6.1 Glass Firebox Panels

1. Unpack the glass panels and inspect. Notify your dealer of any damage. Do not install damaged panels.
2. If it has not already been removed, lift the burner media tray and skirt assembly out of the firebox.
3. Rest the Rear panel on the firebox floor with the textured surface against the rear wall of the firebox.
4. Orient each Side panel with the textured side against the wall panel spacers. A small retainer tab is located at each side of the firebox ceiling near the front opening. Bend each tab out enough to engage with the upper edge of the glass panel. Fig. 6.11.
5 Bend the retainer tabs down to secure the glass panel in place.
6. Replace the burner skirt assembly.

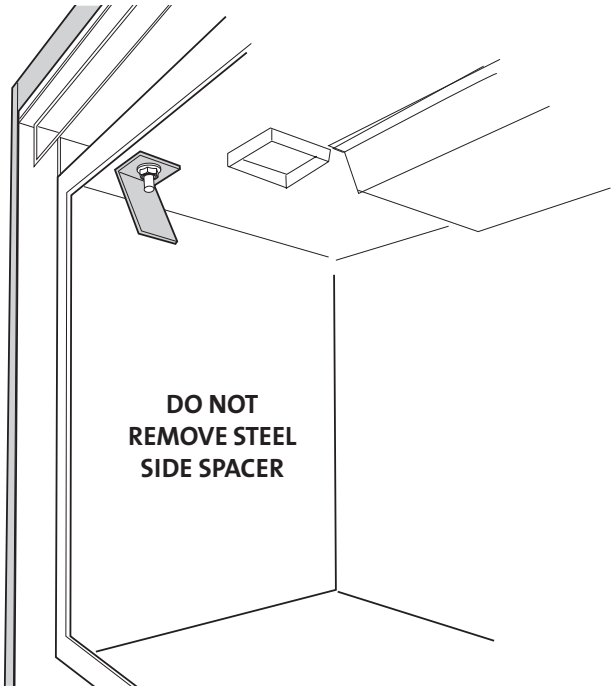


Figure 6.11. Panel Retainer Tab

6.6.2 Refractory Panels:

1. Upack the panels and inspect notify your dealer of any damage. Do not install damaged panels.
2. If it has not already been removed, lift the burner media tray and skirt assembly out of the firebox
3. Remove each steel Side Spacer Panel from the firebox. You will need to bend the retainer tabs out slightly to disengage the Spacer Panels. See fig. 6.12.
4. Beginning with the Rear Panel, place each Refractory Panel in position against the firebox walls and bend the retainer tabs down to secure.

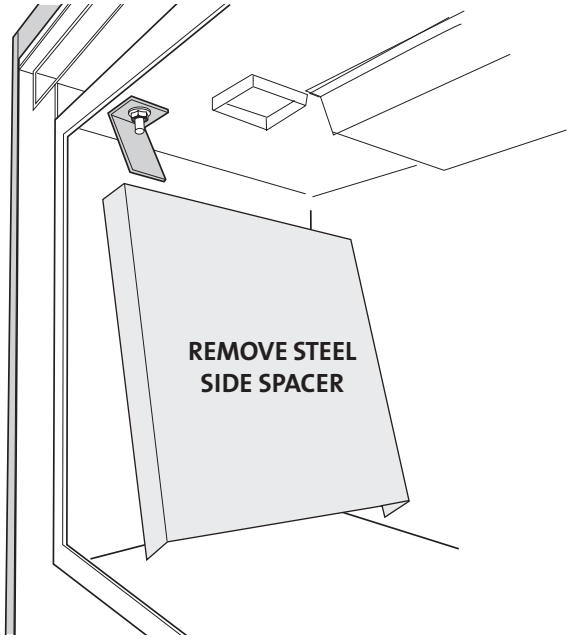


Figure 6.12.
Remove side spacer panel for refractory panel installation.

6.7 Install Burner Media

6.7.1 StarFire Glass

Contents:

- 157415 Clear/White StarFire Glass, 3 lbs.
- 157416 Black StarFire Glass, 3 lbs.

1. Use safety gloves and handle the glass carefully. Spread the stones evenly over the media tray. Be careful to retrieve any stones that may drop onto the burner itself. You do not need to use all of the stones.

6.7.2 Tumbled Stones - 157417

Contents:

- Stones, Qty: 125

1. Arrange the stones in a random, overlapping configuration as shown in fig. 6.14.

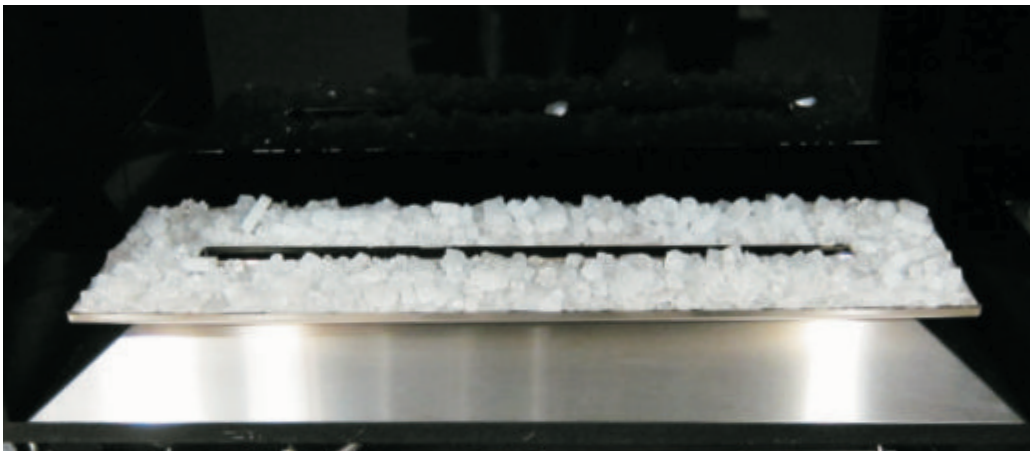


Figure 6.13. Spread the glass evenly within the burner media tray.

Figure 6.14. Spread the stones randomly over the surface of the burner media tray.

6.8 Surround Assembly

6.8.1 Face Plate Bracket Adjustments

1. Use a 1/4" socket driver or flat screw driver to loosen the two sheet metal screws that secure the Centering Plate (Fig. 6.15). Pull the Centering Plate out to the depth appropriate to clear the finished wall surface.
2. Loosen the wing nuts on the two side Adjustment Brackets and pull them out the same distance as the Centering Plate.

6.8.2 Optional Backer Plate Installation

1. Hang the Backer Plate on the side adjustment brackets, engaging its center tab with the slot in the Support Plate. See Fig. 6.16.
2. Push the Backer Plate back against the finished wall face and tighten the nuts on the side brackets and centering plate.

6.8.3 Front Face Installation

1. Use a 1/4" wrench or socket driver to install the two Face Plate Hanger Brackets onto the back of the Face Plate using the pre-installed nuts as shown in Fig. 6.17.
2. Hang the Face Plate on the Surround Support Brackets inboard of the Backer Plate hangers.

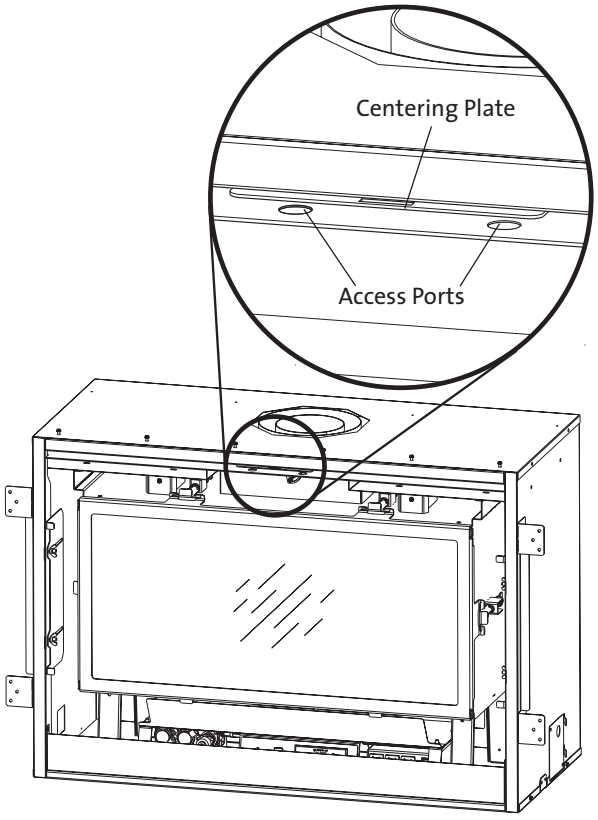


Figure 6.15.
Access points to loosen the Centering Plate screws.

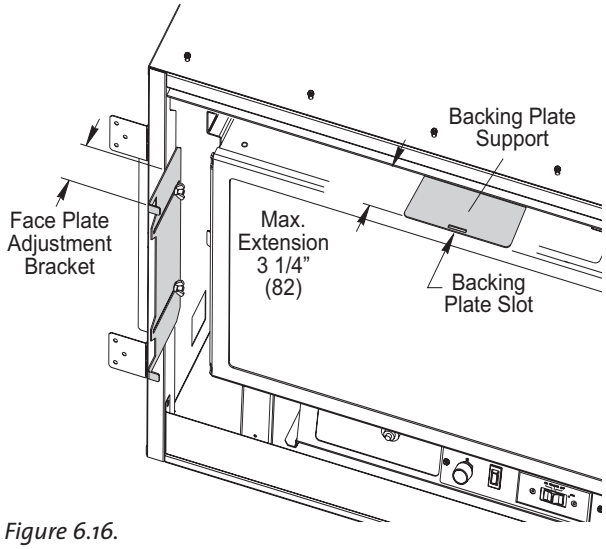


Figure 6.16.
Face Plate bracket adjustment.

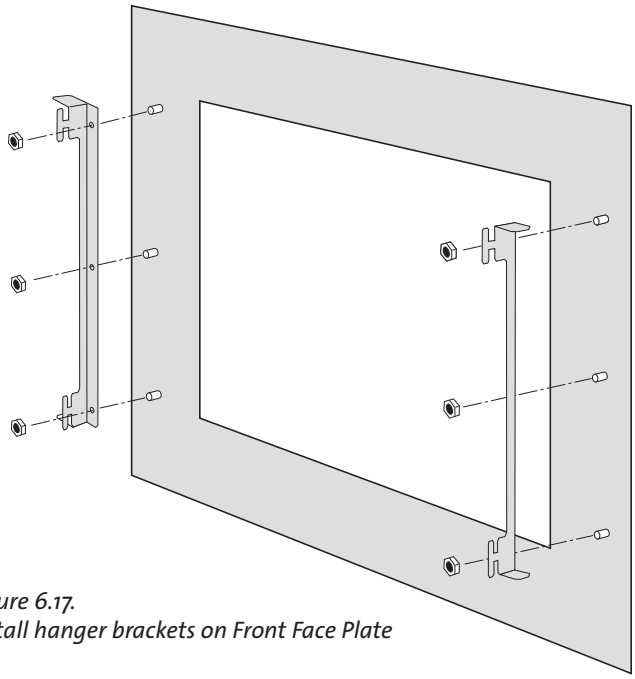


Figure 6.17.
install hanger brackets on Front Face Plate

6.9 Initial System Check

The burner and fan control system consists of the following built-in or supplied components:

1) Remote Transmitter - 3, AAA batteries preinstalled
2) Remote Receiver - 4, AA backup batteries preinstalled
3) Fan Control Module - switched
4) Pilot Mode Switch

All internal connections have been made at the factory. The remote controls are preprogramed and the entire system tested.

NOTE: Check the build date on the shipping crate label. If it has been more than 6 months since the build date, be prepared to replace the Receiver and Transmitter batteries.

Follow this procedure for the initial system check fol lowing installation:

1. **Turn the Fan Control Module rocker switch to the ON position**, fig. 6.18. It is located in the right side compartment, under the Accent Lamp control.
2. **Slide the Remote Receiver switch to the ON position.** The ignitor will generate spark in either IPI or CPI pilot modes. See fig. 6.19.
3. **PURGING THE GAS LINE:** Open the gas supply valve. When lighting the appliance for the first time it will take a few moments to clear the gas line of air. Once the purge is complete, the pilot light will ignite. Opening the inlet pressure test point will help bleed the gas line.

   When purging the line, the system may go into lock-down mode. To continue purging, move the Receiver switch to OFF for 15 seconds, then switch back to REMOTE or ON and try to light the pilot again.
4. **PILOT FLAME:** The pilot flame should be steady -not lifting or floating. The flame should be blue in color around the pilot hood, with traces of yellow toward the outer edges. It is important that the pilot flame engulf the top 1/8" of the flame sensor. The pilot flame should project out of the pilot hood 1" from both ports extending to reach the burner plate ports. See fig. 6.20 . The pilot flame can be tuned by turning the adjustment screw located on the front of the valve. See fig. 6.4.
5. **INSTALLER PLEASE NOTE:**
   CHECK FUNCTIONALITY. The burner, remote control and fan functions have each been tested at the factory. However, it is important to run through each function and be sure to familiarize the homeowner with the operation procedures. See the Operation section on pages 27-30. for details regarding Remote Control functions and settings.

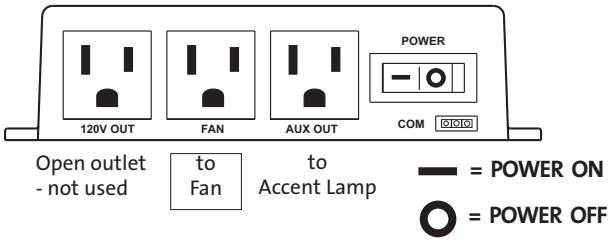
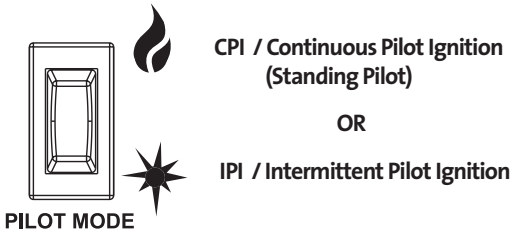


Figure 6.18. Fan Control Module power switch.



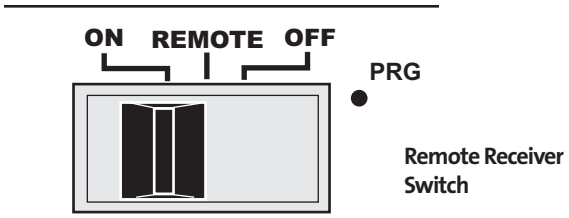


Figure 6.19. Initial system settings.

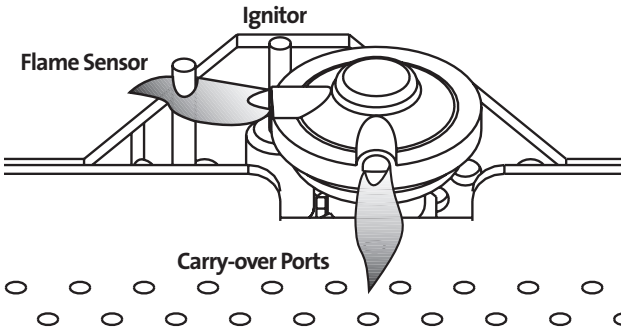


Figure 6.20. Correct Pilot flame pattern.

6.10.1 Flame Appearance / Air Shutter Adjustment

WARNING:
AIR SHUTTER ADJUSTMENTS SHOULD ONLY BE PERFORMED BY A QUALIFIED, PROFESSIONAL SERVICE TECHNICIAN.

Locate the Primary Air Shutter control under the firebox floor. The shutter is set at the at the factory for Natural gas. This will give good results in the majority of installation configurations, however, it may be necessary to adjust it to get the best flame picture depending upon the specific venting configuration.

To change the setting, loosen the wing nut on the shutter stem which is located under the firebox floor, directly above the Accent Lamp control knob. Fig. 6.21. Adjusting the stem to the left will decrease air. Adjustment to the right will increase air.

Generally, flame appearance is a matter of individual preference, however a warm yellowish flame is most common.

- Closing the air shutter - in extreme cases may generate very long yellow flames resulting in soot. Sooting produces black deposits on the logs, on the inside walls of the appliance, and potentially on the exterior termination cap.

  Sooting is caused by incomplete combustion in the flames and lack of combustion air entering the air shutter opening.

- Opening the air shutter - will generate a flame that is blue and transparent, or "anemic". This flame is generally more efficient, but not as attractive.

- Allow the burner to operate at the highest setting for 20-30 minutes before making any adjustments. Always make adjustments in 1/8" increments and allow the burner to settle-in for 10- 15 minutes between additional adjustments.

6.11 Operation Notes

1. For the first several hours of operation, it is common to detect some odor as the metal and manufacturing materials cure under heat. This condition is temporary and can be alleviated by allowing plenty of fresh air to circulate through the area.
2. Condensation may develop on the glass upon each lighting of the appliance. This "fog" will disappear as the glass heats.
3. **IMPORTANT: It will be necessary to clean the glass after the first few fires. A white powdery residue will be evident which results from the burner media curing. Use a non-abrasive household glass cleaner and warm water. IF THE GLASS IS NOT CLEANED, THIS RESIDUE CAN CAUSE THE GLASS TO BECOME PERMANENTLY ETCHED.** DO NOT USE AMMONIA-BASED CLEANERS.
4. Keep the control compartments and area under the appliance free of dust. Always keep the appliance area clear and free from combustible materials, gasoline and other flammable liquids.
5. This appliance can be operated with a continuously burning pilot flame. Exercise caution when using household products containing combustible vapors.
6. **CAUTION: DO NOT OPERATE THIS APPLIANCE WITH THE GLASS REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE GLASS SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON. USE ONLY REPLACEMENT GLASS PROVIDED BY YOUR AUTHORIZED ATRA DEALER. NEVER USE ANY SUBSTITUTE MATERIALS.**

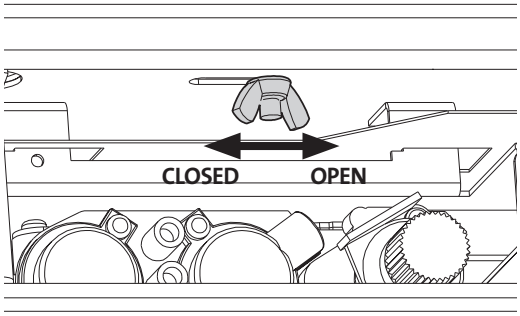


Figure 6.21. Air Shutter adjustment.

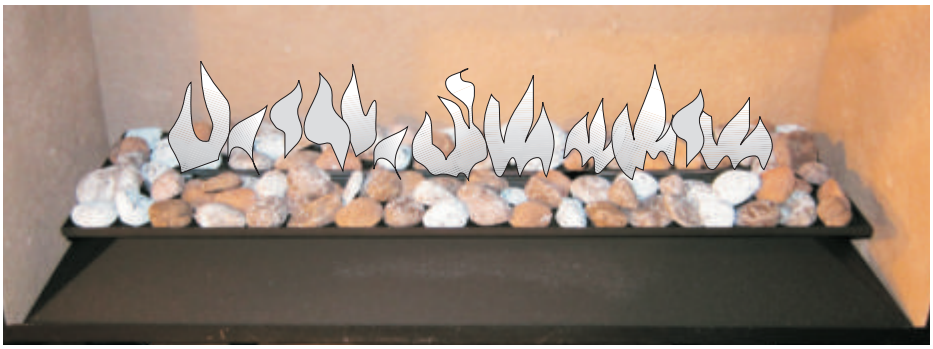


Figure 6.22. Correct flame pattern for both StarFire Glass and Tumbled Stones.

7.0 Operation

7.1 Features Overview

The Proflame GTMFS system is a modular remote control system that directs the functions of the Atra GZ 455 gas freestanding unit. It is configured to control the on/off operation both manually and thermostatically, with standard and "Smart" thermostat features. It will also control flame modulation, manual flame control, fan on/off and speed and on/off of accent lighting features.

The system is an IPI system (Intermittent Pilot Ignition) and also has a built in switch which allows you to keep the pilot lit continuously if desired (CPI - Constant Pilot Ignition). The power is provided to the FCM (Fan Control Module) using 120v electricity and has a 6volt DC battery back-up for operation during a power failure.

7.1.1 Remote Control Transmitter

This new remote system has all controls available on its face for reliable, ease of use. It gives room temperature readout, set temperature readout, all function abilities as well as childproof lockout and low battery indicator. Icons appear on the screen indicating which mode of operation you are controlling. The four button controls are easy to learn and simple to operate. The remote transmitter is powered by 3-1.5v AAA batteries.

7.1.2 Remote Control Receiver

The receiver is powered by 4-1.5v AA batteries. This unit has a manual on/off switch to light the burner if the remote should become inoperative.

7.1.3 Fan Control Module (FCM)

The Fan Control Module (FCM) is the electrical heart of the system. It provides power to all components, 120v ac when available, and converts to 6v DC when it is not. This powers the receiver, making the batteries in the receiver a backup power source, thus prolonging the life of the batteries. The FCM sends power to the fan system and the accent light. When no line power is available these features will not operate.

7.1.4 Digital Fireplace Control (DFC)

This is the brain of the system. The DFC allows the pilot to be set as an IPI or CPI unit. It tells the burner to light or turn off, and provides the ignitor with the electricity needed for sparking. All functional commands are routed through this part of the system and distribute the signal to the appropriate component.

7.1.5 Sit 885 Modulating Valve

This valve has the ability to be stepped down in six increments between high and low. It can be done manually or by setting the remote control to the Smart thermostat modulation mode. Automatic modulation means that as the room temperature approaches the limit set for shut down, the valve gradually decreases or "steps-down" the fire intensity. Conversely, as room temperature cools, the valve gradually increases flame intensity. The overall result is more comfortable even heating, minimizing temperature peaks and valleys.

7.1.6 Pilot Assembly

The pilot contains a pilot hood, igniter, and a sensor rod. The igniter sends a spark to the pilot hood which lights the gas. The sensor rod is then engulfed by the pilot flame, flame rectification occurs and the unit remains lit. If rectification does not occur the main burner will not light and the pilot will shut down.

WARNING:

READ AND UNDERSTAND ALL OPERATING INSTRUCTIONS BEFORE ATTEMPTING TO OPERATE THIS APPLIANCE. DO NOT ALLOW ANYONE TO OPERATE THIS APPLIANCE WHO HAS NOT READ AND UNDERSTOOD THESE INSTRUCTIONS. KEEP THE REMOTE CONTROL TRANSMITTER WHERE CHILDREN CANNOT REACH IT.

WARNING:

SEVERE INJURY. THIS APPLIANCE CAN BE SET TO OPERATE THERMOSTATICALLY. BE AWARE THAT THE FIREPLACE MAY BE VERY HOT EVEN WHEN THE BURNER IS NOT APPARENTLY OPERATING. KEEP CHILDREN AWAY FROM THE APPLIANCE.

WARNING:

OBSERVE CAUTION NEAR THE GLASS PANEL. THE GLASS MAY SHATTER IF STRUCK BY AN OBJECT. ALWAYS HANDLE THE GLASS PANEL WITH CARE.

7.2 Control Functions (Fig. 7.1)

7.2.1 Pilot Mode

In most cases you will want to operate the fireplace in IPI mode. This allows the most efficient use of gas, burning the pilot light only when the thermostat calls for the burner to ignite.

The CPI mode permits functional flexibility within a wide range of installation characteristics. The pilot flame remains lit when the burner is off. This is an advantage in those instances when a cold system maybe difficult to start in IPI mode. The pilot can be run until the system has warmed sufficiently for IPI operation. NOTE: THE IGNITOR WILL ALWAYS SPARK WHENEVER THE PILOT MODE IS SWITCHED TO CPI, REGARDLESS OF THE POSITION OF THE RECEIVER SWITCH.

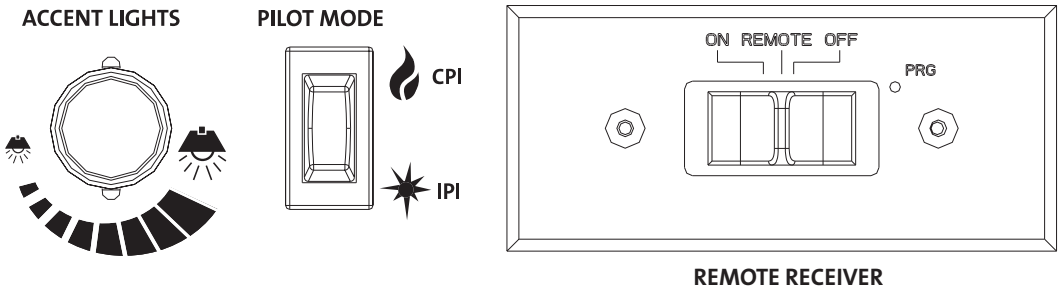


Figure 7.1. GZ 455 DV Control Switches.

7.2.2 Remote Receiver

The Remote Receiver, located in the control compartment, is powered through the Fan Control Module and AA back-up batteries. The Receiver can be set to one of three different positions. See fig. 7.1.

ON - this is a manual override allowing the burner to function without remote control. The ignitor will spark within 3 seconds .

REMOTE - Permits full function of all components by remote control Transmitter activity.

OFF - Disconnects communication between the transmitter and receiver. Turns off IPI functionality. Turn the Receiver to "OFF" whenever the fireplace will not be used and whenever service is performed.

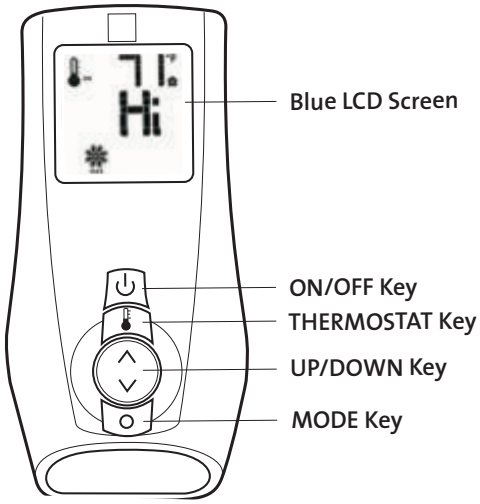


Figure 7.2. Remote transmitter function keys.

7.2.3 Remote Transmitter

The Transmitter features a simple button layout and informative display screen. See figs. 7.2 - 7.3.

ON / OFF Key - controls Burner, Fan, and Lamp functions.

THERMOSTAT Key - Used to set either Manual or Thermostatic Control and index through thermostatic functions.

UP / DOWN Arrow Key - Selects thermostat temperature range, fan speed, and flame height.

MODE Key - used to select the component to be controlled: Burner, Fan, or Lamp.

DISPLAY - graphically indicates temperature settings and status of Thermostat, Burner, Fan, and Lamp.

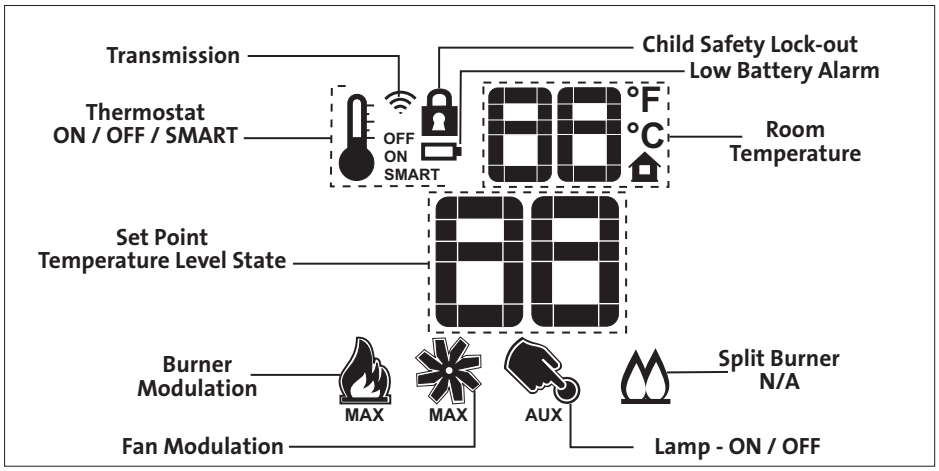


Figure 7.3. Remote transmitter display data.

Remote Transmitter Controls, cont'd.

Temperature Indication Display

- With the transmitter in the OFF position, press the Thermostat Key and the Mode Key at the same time. The display screen will show the current room temperature cycling between Fahrenheit and Celsius indicators each time the keys are pressed simultaneously. See fig. 7.4.

Turn on the Burner

- Press the ON/OFF Key on the Transmitter.

  The display will show all the active icons. At the same time, the Receiver will activate the Pilot Ignitor. First the pilot will ignite, followed shortly by the burner. A single" beep" from the Receiver will confirm reception of the command.

Turn off the Burner

- Press the ON/OFF Key. The display will show only the room temperature and icon. At the same time, the Receiver will deactivate the call for heat and the burner will shut down. Fig. 7.5. A single"beep" from the Receiver will confirm reception of the command.

Remote Burner Control

There are six flame levels available.

- With the system ON, and the burner flame level at maximum, press the Down Arrow Key once to reduce the flame height by one step. Each time the Down Key is pressed, the flame will step down until the burner is finally turned off. Fig. 7.6.
- The Up Arrow Key will increase the flame height each time it is pressed. If the U Arrow Key is pressed while the system is on but the flame is off, the flame will come on in the High position. Figs. 7.7- 7.9. A single "beep" will confirm reception of the command.

Room Thermostat (Transmitter Operation)

The Remote Control can operate as a room themostat. The themostat can be set to a desired temperature to control the comfort level in a room.

- To activate this function, press the Thermostat Key, (Fig. 7.2) The display will indicate that the room thermostat is "ON" and the current Set Temperature is now displayed. Fig. 7.10.
- To adjust the Set Temperature, press the Up or Down Arrow Keys until the desired Set Temperature is displayed. Fig. 7.11.

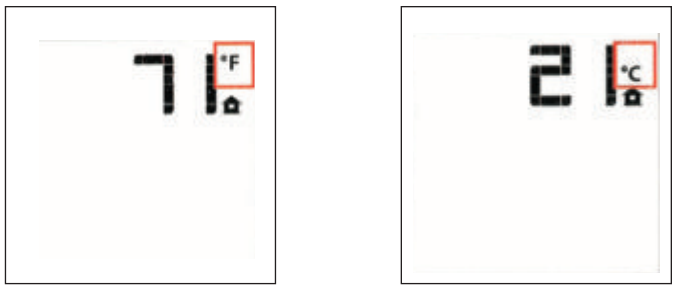


Figure 7.4. Room temperature readings

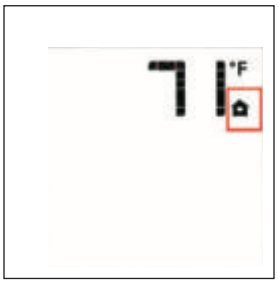


Figure 7.5. Burner shut-down

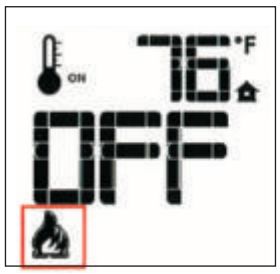


Figure 7.6. Burner OFF.

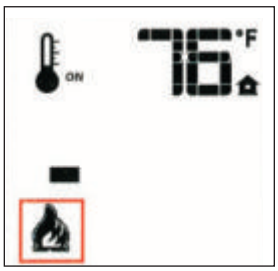


Figure 7.7. Flame Level 1.

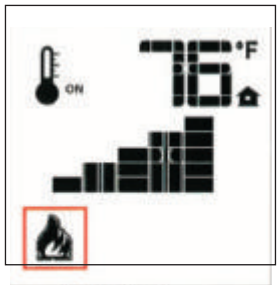


Figure 7.8. Flame Level 7.8.

Figure 7.9. Flame Level 7.9.

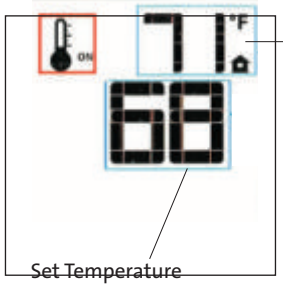


Figure 7.10. Thermostat ON

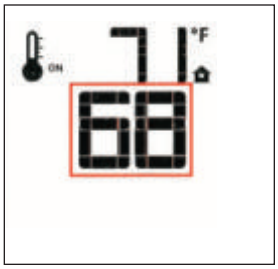


Figure 7.11. Change Set Temperature

SMART Thermostat Function

This function adjusts the flame intensity according to the difference in the Set Point temperature and the actual room temperature. As the room temperature gets closer to the Set Point, the Smart Function will modulate flame intensity down.

- To activate this function, press the Thermostat Key until the word "SMART" appears to the right of the thermometer bulb icon. Fig. 7.12.
- To adjust the temperature, press the Up or Down Arrow Keys until the desired Set Temperature is displayed. Fig. 7.13.

Fan Control

The fan speed can be adjusted through six settings. To activate this function, press the Mode Key (Fig. 7.2) to index to the Fan Control icon. See fig. 7.14. The fan will not function at all if it is not first set to ON.

- Use the Up/Down Arrow Keys to turn ON, OFF, or adjust the fan speed. Fig. 7.15. A single "beep" will confirm reception of the command. After a 5 minute interval, the fan will power up to its highest speed and then modulate down to the established fan speed setting. The fan will continue to operate for 12 minutes after the burner is turned off. Manual speed control is not available when the SMART Thermostat is ON.

Accent Lamp Control (Auxiliary 120V Outlet)

- The auxiliary function controls the Accent Lamp power. Press the Mode Key to index to the AUX icon. Figs. 7.16-17.
- Pressing the Up Arrow Key will turn the Lamp ON. Lamp brightness can be adjusted by turning the dimmer control knob located in the controls compartment.
- Pressing the Down Arrow Key will turn the Lamp OFF.

Child Safety Lock

This function will lockout the Transmitter to prevent unsupervised operation.

- To activate the Lock, press the Mode key and UP Key at the same time. Fig. 7.18.
- To de-activate the Lock, press the Mode Key and UP Key at the same time.

Low Battery Detection

The life-span of the batteries depends on various factors; battery quality, the frequency of ignition calls, the frequency of changes to Set Points, etc.

- When Transmitter batteries are low, the Battery icon will be displayed before all battery power is lost. The icon will disappear when new batteries are installed. Fig. 7.19.
- When Receiver batteries are low, no "beep" will be emitted from the Receiver when it receives an On/Off command from the Transmitter. This is an alert for a low battery condition in the Receiver. When the batteries are replaced, the "beep" will be emitted from the Receiver when the ON/OFF Key is pressed. See Battery Replacement under the Maintenance section of this manual.

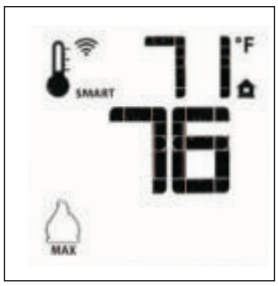


Figure 7.12. Smart Mode

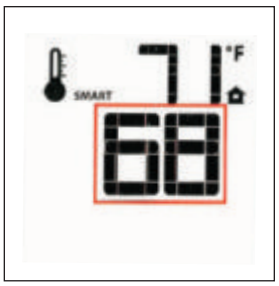


Figure 7.13. Smart Set Temp.

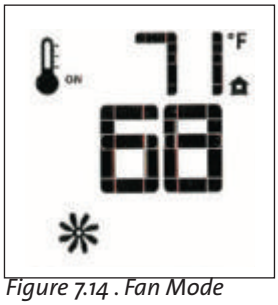


Figure 7.14 . Fan Mode

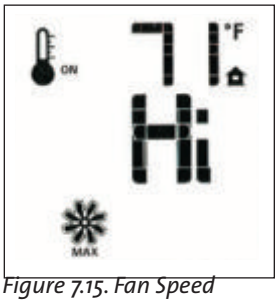


Figure 7.15. Fan Speed

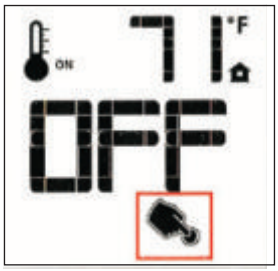


Figure 7.16. Lamp Control

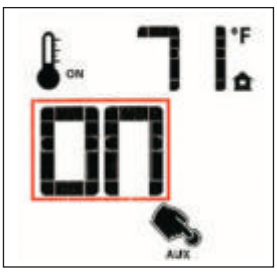


Figure 7.17. Lamp ON

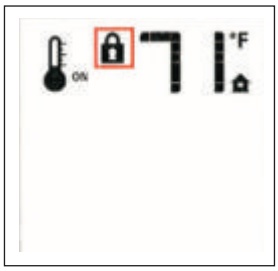


Figure 7.18. Lock ON

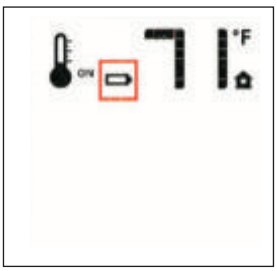


Figure 7.19. Low Battery

Manual By-Pass of the Remote System

When battery power is low or depleted, the burner can still be operated manually by sliding the Receiver switch to the ON position. It will immediately ignite in the High position. In manual mode, the unit has a 24 hour operating cycle. It will automatically shut down after 24 hours of operation and then require a manual restart.

In the event of a power failure, fan and lamp functions will be unavailable. Battery back-up will allow flame modulation and thermostatic control. It is therefore advisable to keep a supply of good quality batteries on hand.

8.0 Maintenance

This appliance and its venting system should be inspected before use and at least annually by a qualified service technician.

WARNING!

THE IGNITION SYSTEM OF THIS APPLIANCE CARRIES LIVE VOLTAGE. ALWAYS TURN "OFF " THE MAIN GAS SUPPLY AND DISCONNECT THE POWER SOURCE BEFORE PERFORMING ANY MAINTENANCE PROCEDURE.

TURN "OFF " THE MAIN GAS SUPPLY AND DISCONNECT THE POWER SUPPLY TO THE APPLIANCE BEFORE REPLACING BATTERIES.

8.1 Annual Cleaning

8.1.1 Vent System

The entire vent system should be inspected and cleaned every year. If the intake and exhaust venting is disassembled for any reason, it should be reassembled and sealed according to the vent manufacturer's instructions provided at the initial installation.

8.1.2 Firebox, Burner and Pilot Assembly

- Periodically inspect the firebox and valve compartment to BE CERTAIN THAT THE FLOW OF COMBUSTION AND VENTILATION AIR IS UNOBSTRUCTED. These areas should be vacuumed as frequently as necessary to remove any surface debris and dust accumulation.
- Be aware that blower operation will attract dust and pet hair. Use a soft brush attachment to clean the blower, burner and pilot areas. Handle logs carefully as they are fragile.
- The pilot assembly is may be subject to corrosion. Inspect these parts closely and remove corrosion using fine steel wool.

8.2 Glass Care

Clean the glass as necessary. Wipe the surface with a clean, dampened, soft cloth. Follow with a dry, soft towel. Take care not to scratch the glass surface.

WARNING: DO NOT USE ABRASIVE OR AMMONIA-BASED CLEANERS AS THESE WILL ETCH THE GLASS. NEVER CLEAN THE GLASS WHEN IT IS HOT.

8.3 Gasket Inspection

It is important that the glass gasket be inspected at least annually. Examine the ribbon gasket for signs of deterioration and make sure the gasket has a positive seal. Replace the gasket if necessary.

FOR REPLACEMENT, USE ONLY CERAMIC GLASS PANEL KIT 15498 6. DO NOT USE ANY OTHER TYPE OF GLASS WITH THIS APPLIANCE.

8.4 Glass & Gasket Replacement

1. Using the Latch Tool, disengage the 6 latches from the glass frame and lift the frame up and off of the firebox.
2. Lay the assembly upside down on a flat surface, protecting the frame from scratches using a blanket or towel.
3. The glass panel is held in place by four retainer tabs, one at each corner. Use a screwdriver or needle nose pliers to carefully pry these up to release the glass. Should the tabs break off, use the Tinnerman clips supplied with the replacement glass kit to secure the glass panel within the frame.
4. Remove the old gasket material.

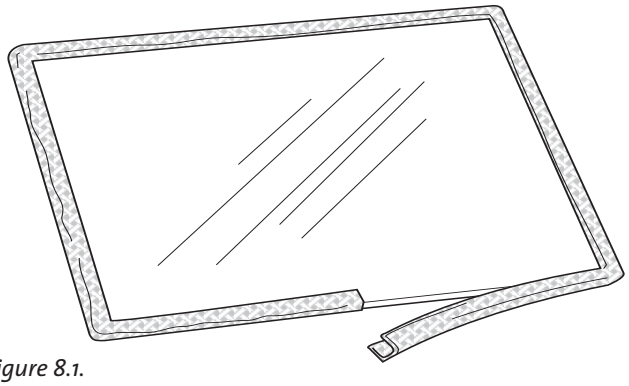


Figure 8.1.
Gasket application, PN 129124

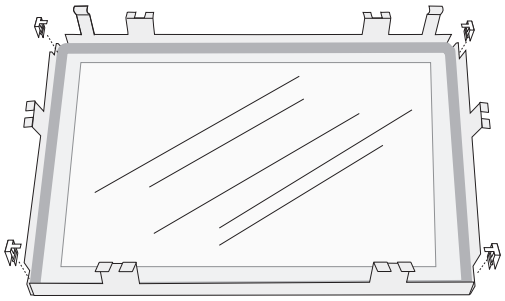


Figure 8.2.
156817 Glass Replacement Kit includes gasket and spare retainer clips.

5. Beginning at the midpoint of the lower edge, apply the new gasket around the glass panel, with the adhesive side inside and the thicker portion on the outside. DO NOT STRETCH THE GASKET MATERIAL. Trim off any excess, leaving a 1/2" overlap as shown in fig. 8.1.
6. Lay the glass panel within the glass frame and press the tabs back down or press the clips in place as shown in fig. 8.2

8.5 Battery Replacement

Battery life depends on many variables; the quality of the batteries, frequency of remote use, and mode of pilot operation. Keep a supply of good quality batteries on hand to be assured of functional continuity in the event of a power failure.

The Remote Transmitter batteries are easily accessed through the tabbed cover plate. Be sure to orient the batteries for correct polarity as indicated in the battery compartment.

8.5.1 Receiver Battery Replacement

It will be necessary to remove the left side compartment door to access the battery cover plate.

1. Remove the lower door hinge bracket (one, 10 mm nut). The door will drop out of the upper hinge bracket.
2. Push the slider switch into the OFF position. Remove the Receiver cover plate screws and pry the cover plate with slider switch off of the battery box. See fig. 8.3..
3. Install 4 AA batteries into the receiver bay. Note the polarity of the batteries and insert into the battery bay as indicated on the bay cover (+/-).
4. With the switch still in the OFF position, align the slider switch with the switch stem and snap the cover plate back onto the battery box.
5. Replace the Receiver cover plate screws.
6. Replace the Compartment Door and lower hinge bracket.

8.5.2 Initializing the Remote Control

Each time you replace the batteries, you may need to initialize communication between the Receiver and the Transmitter.

1. Place the slider switch in the REMOTE position.
2. Insert the end of a paper clip into the hole marked PRG on the Receiver cover. The Receiver will "beep" three (3) times to indicate that it is ready to synchronize with the Transmitter.
3. Install 3, AAA batteries in the Transmitter bay and push the ON button. The Receiver will "beep" four times to indicate the Transmitter's command is accepted and sets to the particular code of that Transmitter. The system is now initialized.

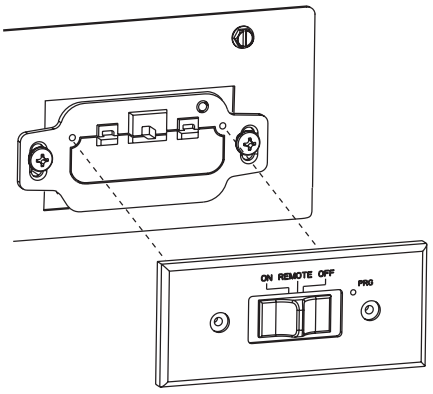


Figure 8.3
Receiver battery access.

8.6 Accent Lamp Replacement

Handle the replacement bulb with gloves. Skin oils will cause the bulb to fail prematurely. If you touch the bulb with your bare fingers, wipe it clean with a soft cloth.

1. Remove lamp compartment cover plate. See fig.8.4.
   .
2. Remove the two phillips screws from the bulb socket to access the bulb. Pull the bulb out of the housing.
3. Plug the new bulb into the socket and re-install the cover plate into the lamp housing.

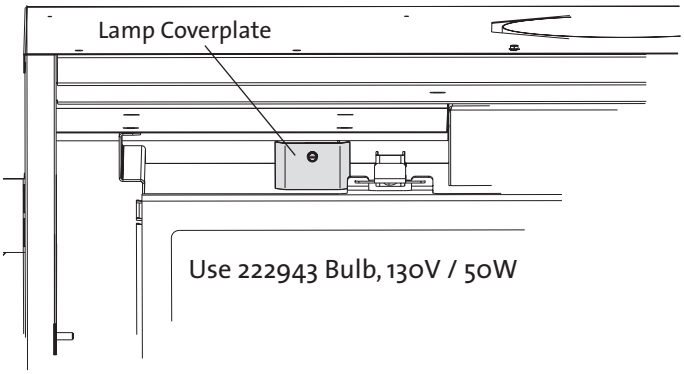


Figure 8.4. Remove cover plate to access lamp bulb.

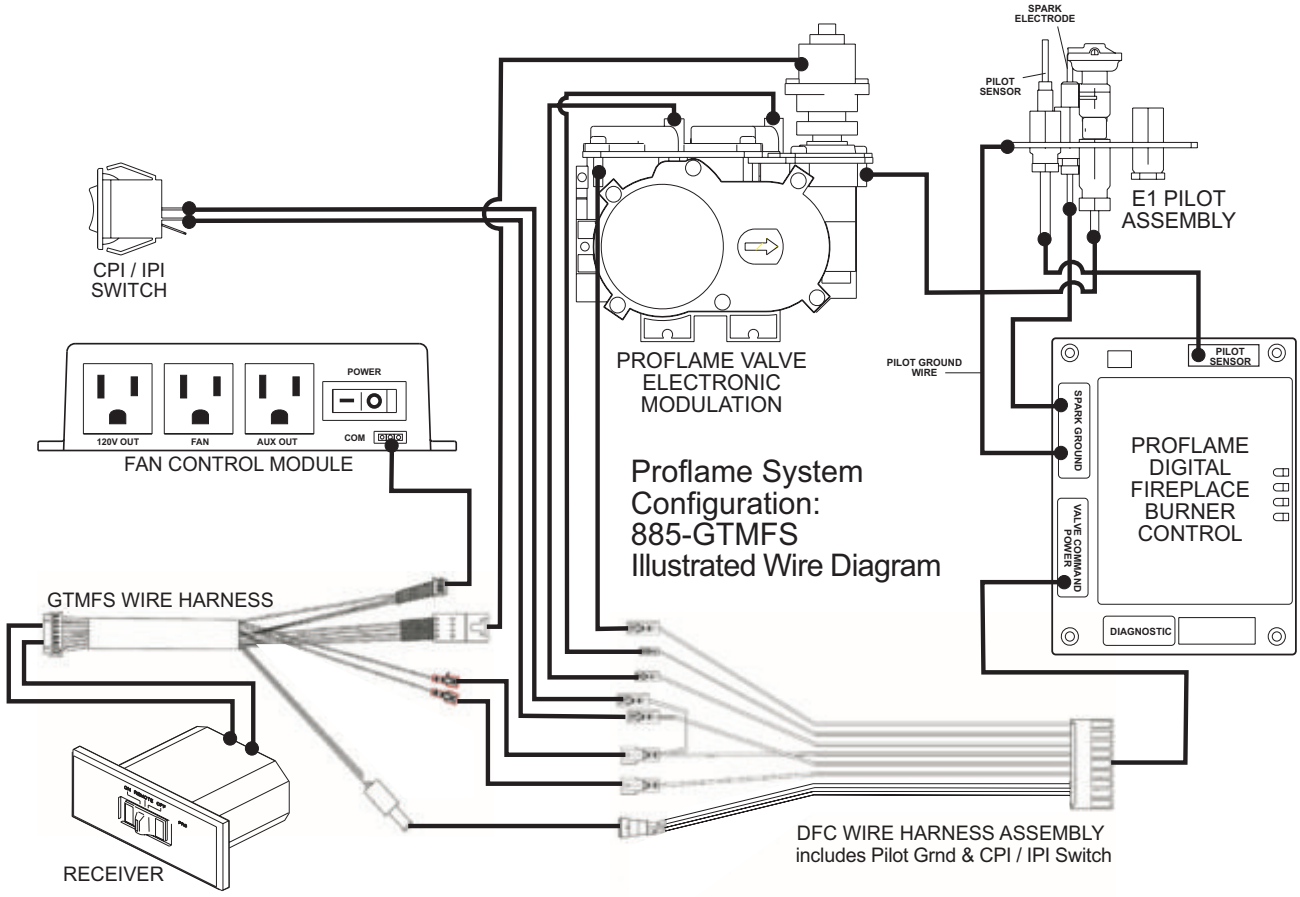


Figure 8.5. Wiring schematic, SIT Proflame 885 Burner Control System

See additional wiring diagrams in the Appendix on page 38.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING THE CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. ALWAYS VERIFY PROPER OPERATION AFTER SERVICING THE APPLIANCE.

ATTENTION: AU MOMENT DE L'ENTRETIENDES COMMANDES, ÉTIQUETEZ TOUS LES FILS AVANT LE DÉBRANCHEMENT. DES ERREURS DE CÂBLAGE PEUVENT ENTRAÎUN FONCTIONNEMENT INADÉQUAT ET DANGEREUX.

Technical Data

Fan Control Module

Supply voltage/frequency: 120V, 60 Hz
Ambient temp. ratings: 32 to 140° F
Three wire bus: -Two wires provide DC voltage to the Receiver
- One wire gives uni-directional signal from the Receiver
Output voltage/frequency/current: 120V / 60 Hz / 5 A
Auxiliary switched output: 120V / 60 Hz / 2 A
Fan speed output: 120V / 60 Hz / 1 A

Remote Control Transmitter

Supply voltage: 4.5 V (three 1.5V AAA batteries)
Ambient temp. rating: 32 to 122° F
Radio frequency: 315 MHz

Receiver:

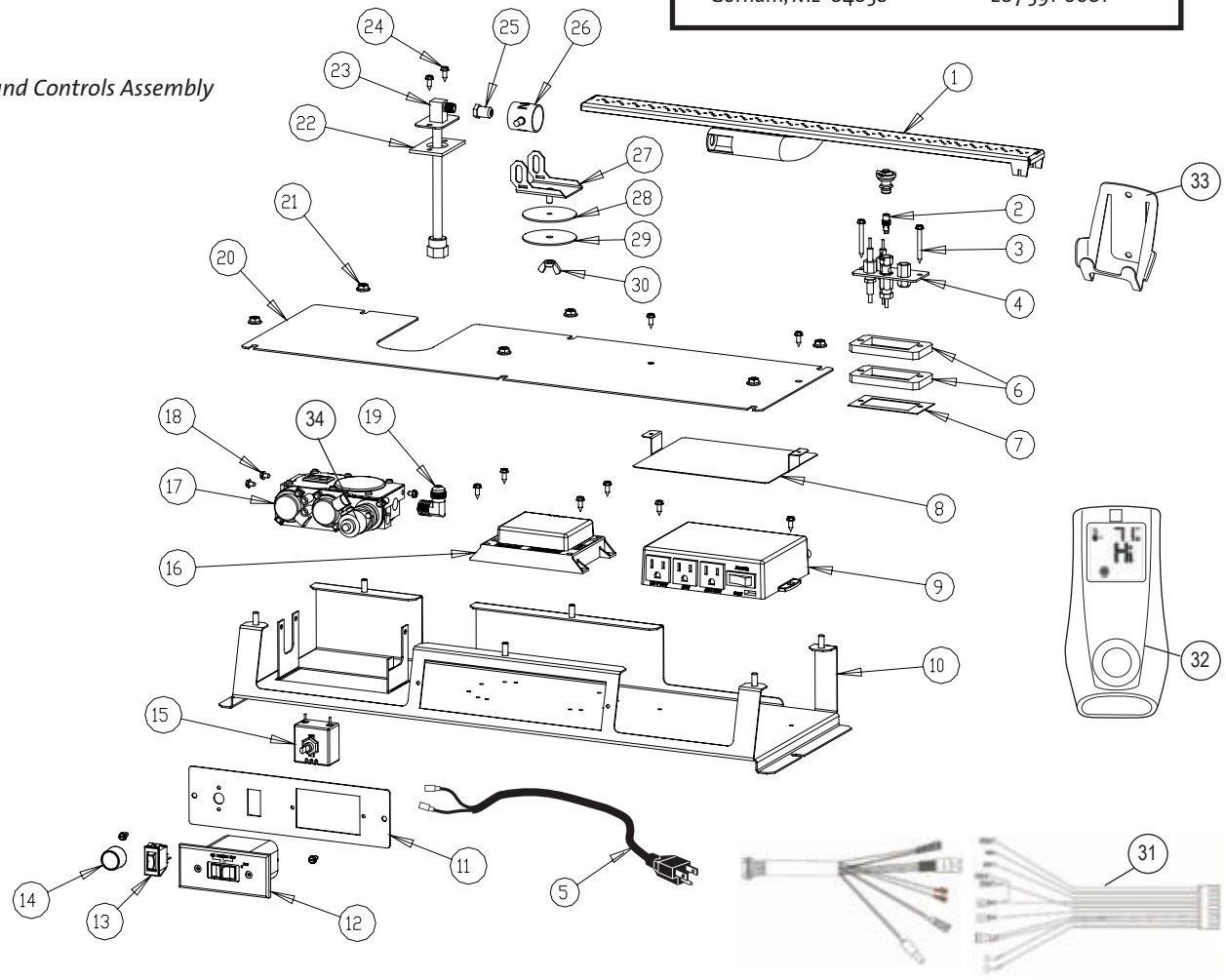
Supply voltage 6.0 V (four 1.5 AA batteries)
Ambient temp. rating: 32 to 140° F
Radio frequency: 315 MHz

9.0 Atra GZ 455 DV Replacement Parts

Use only genuine Atra Replacement Parts available from your local Authorized Jøtul Dealer or by contacting:

Jøtul North America
55 Hutcherson Dr.
Gorham, ME 04038 207 591-6601

Figure 9.1
Gas Train and Controls Assembly



No.	Part No.	Description
1	224233	Burner Assembly
2	222058	Pilot Orifice, #62-NG
	222057	Pilot Orifice, #35-LP
3	118218	Screw, #8 x 1-1/2
4	222925	Proflame Pilot
5	157606	Replacement Accent Lamp Power Cord
6	220546	Spacer, Pilot .312 thk.
7	129670	Gasket, Pilot Assembly
8	224724	Heatshield, FCM
9	222927	FCM, Proflame
10	224438	Mounting Plate, Controls
11	224720	Controls Plate, Silkscreened
12	222928	S-Receiver Remote
13	120517	Rocker Switch
14	220709	Knob, Rheostat
15	157605	Rheostat
16	222924	Ignition Board, IPI
17	157410	Gas Valve, Proflame 2 / NG
	157411	Gas Valve, Proflame 2 / LP

No.	Part No.	Description
18	118214	Screw, #8 x 1/4" tap
19	222292	Elbow, 3/8 NPT x 3/8 Tube
20	224439	Cover Plate, Controls
21	117968	Nut, M6 Flange
22	222280	Gasket, Orifice Holder
23	223231	Orifice Holder
24	117917	Screw, #8 x 1/2 SM
25	220946	Orifice #40-NG
	220048	Orifice 1.55mm-LP
26	221390	Primary Air Shutter
27	224230	Primary Air Adjustor
28	220734	Gasket, Air Shutter
39	118023	Fender Washer
30	117975	Nut, M6 Wing
31	157024	Proflame Wire Harness
32	222926	Proflame GTMFS Transmitter
33	223951SLP	Transmitter Wall Mount Bracket
34	**222929**	**Step Regulator - LP**
	222930	**Step Regulator - NG**

No.	Part No.	Description
1	224725	Control Box Air Diverter
2	224376	Pilot Shield
3	224377	Burner Air Deflector
4	224422	Air Intake Restrictor
5	22423792	Burner Skirt, Matte Black
	224741	Burner Skirt, Stainless Steel
6	22424292	Burner Skirt Rear Panel, MB
	224742	Burner Skirt Rear Panel, Stainless Steel
7	22423892	Media Tray, Matte Black
	224743	Media Tray, Stainless Steel

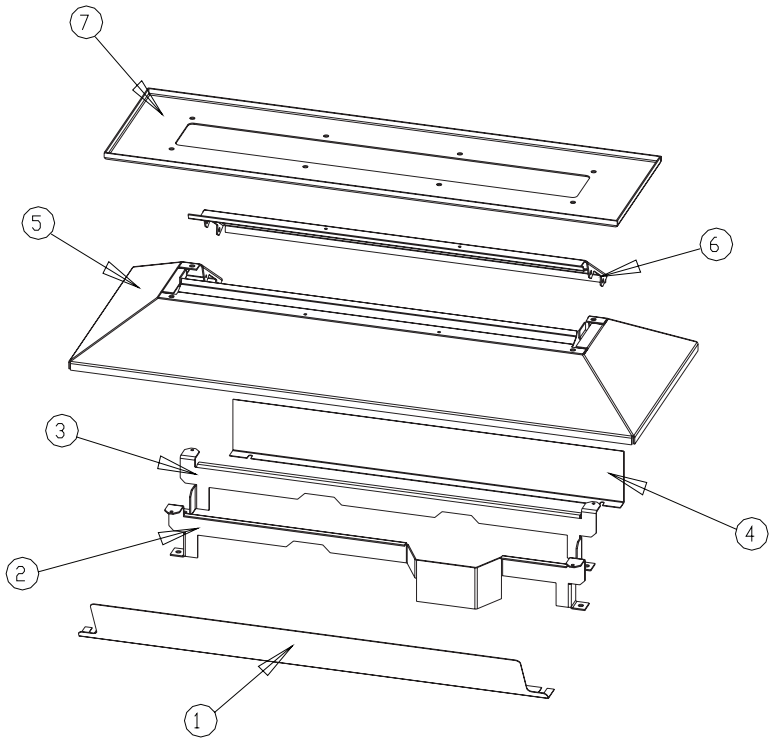


Figure 9.2. GZ 455 DV Burner Skirt Parts

No.	Part No.	Description
1	22441992	Glass Frame, MB
2	129124	Tadpole Gasket (8 ft.)
3	129662	Ceramic Glass
	154986	Replacement Glass Kit w/ Gasket

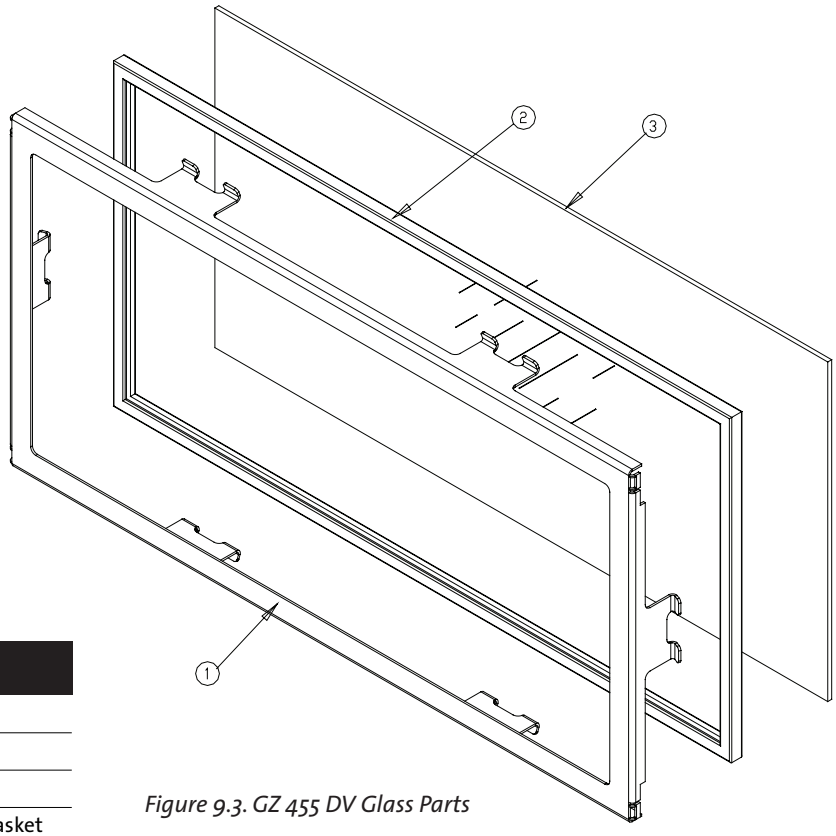


Figure 9.3. GZ 455 DV Glass Parts

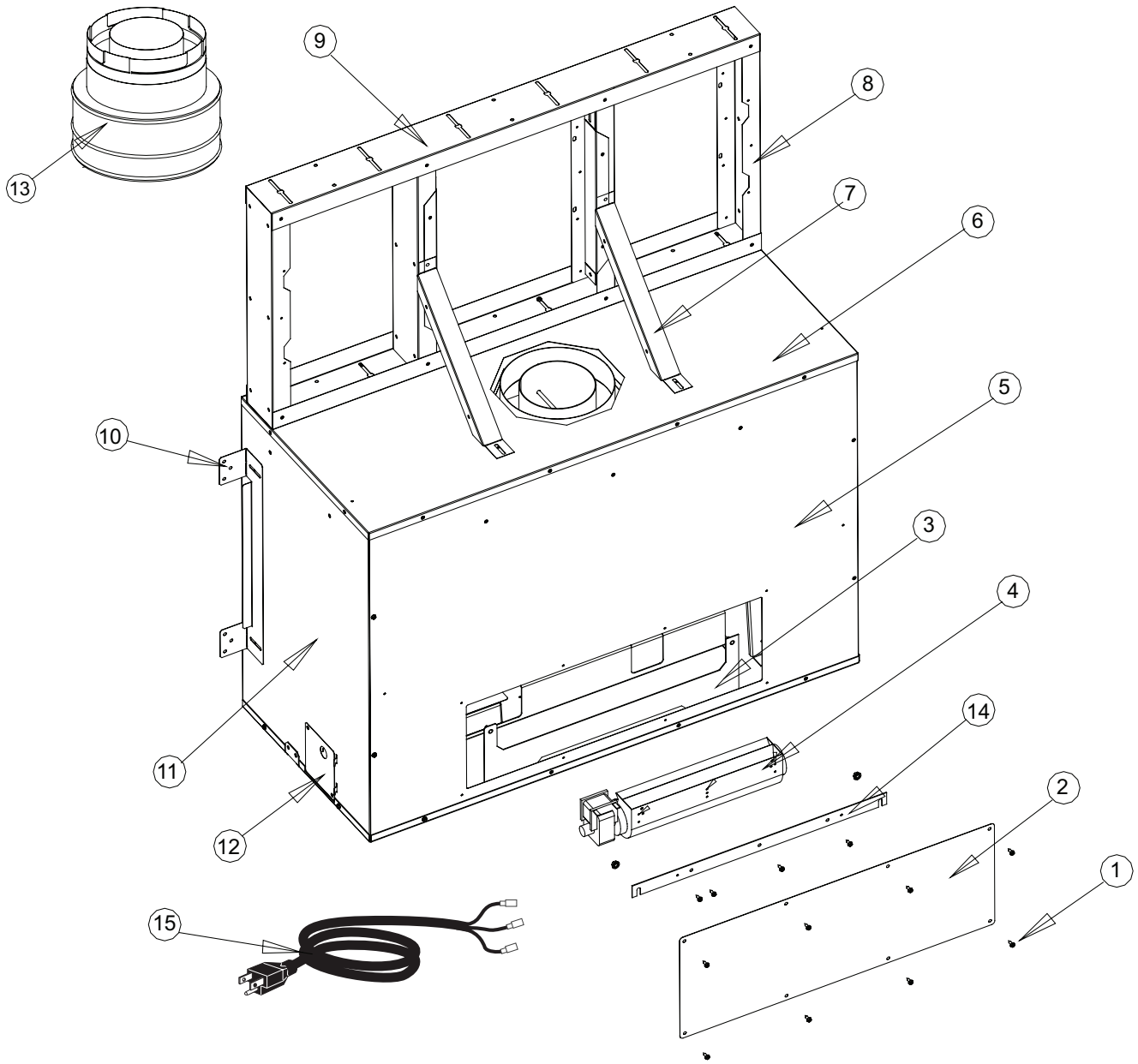


Figure 9.4. GZ 455 DV Fireplace Cabinet Parts

No.	Part No.	Description
1	117917	Screw, #8 1/2" SMS
2	224722	Blower Access Panel
3	224474	Blower Mounting Bracket
4	222072	Blower
5	224247	Rear Cabinet Panel
6	224249	Top Cabinet Panel
7	224428	Top Vertical Support
8	224427	Top Vertical Standoff

No.	Part No.	Description
9	224426	Top Horizontal Standoff
10	224431	Side Standoff
11	224245	Cabinet, Right Side
	224246	Cabnet, Left Side (not shown)
12	223305	Junction Box Cover
13	225365	Simpson 4/6 Reducer
14	224243	Blower Retainer
15	157607	Blower Power Cord Asy.

10.0 Appendix

10.1 Blower Installation

- **This blower must be electrically grounded in accordance with local codes or, in the absence of local codes, with the current ANSI/NFPA 70, National Electrical Code or CSA C22.1-Canadian Electrical Code.**

  Be certain the blower motor is securely fastened to the mounting frame on the stove.
- **Always disconnect the power supply to the stove before performing any service on the blower.**

Read these instructions before beginning the installation. If the fireplace has already been installed, the blower may be installed from the front as noted below.
This accessory operates in conjunction with the Remote Transmitter. See the operation instructions included with the transmitter kit and the appliance Owner's Manual.

Contents
- Blower Assembly - Less than .83 AMPS, 12VAC, 60Hz
- #8 x 1/2" sheet metal screws, 3

Tools Required
- 10 mm socket
- ratchet
- 1/4" nut driver
- Safety gloves
- Safety glasses

Installation from Back of Cabinet

1. Use a 1/4" nut driver or socket to remove **e**ight #8 x 12 sheet metal screws and the Rear Access Panel. See fig. 10.1.
2. Use a 10 mm wrench or socket to loosen two M6 flange nuts and remove the Retainer Bar from the Support Bracket.
3. Attach the Retainer Bar to the Blower body using the three #8 x 1/2" sheet metal screws supplied.
4. Engage the Blower Retainer Bar slots with the flange nuts and tighten the nuts.
5. Route the blower power cord around to the FCM.
6. Replace the Rear Blower Access Panel.
7. Plug the power cord into the FAN outlet on the FCM.

   DO NOT SWITCH THE FCM "ON" UNTIL FIREPLACE INSTALLATION IS COMPLETE.

Figure 10.1

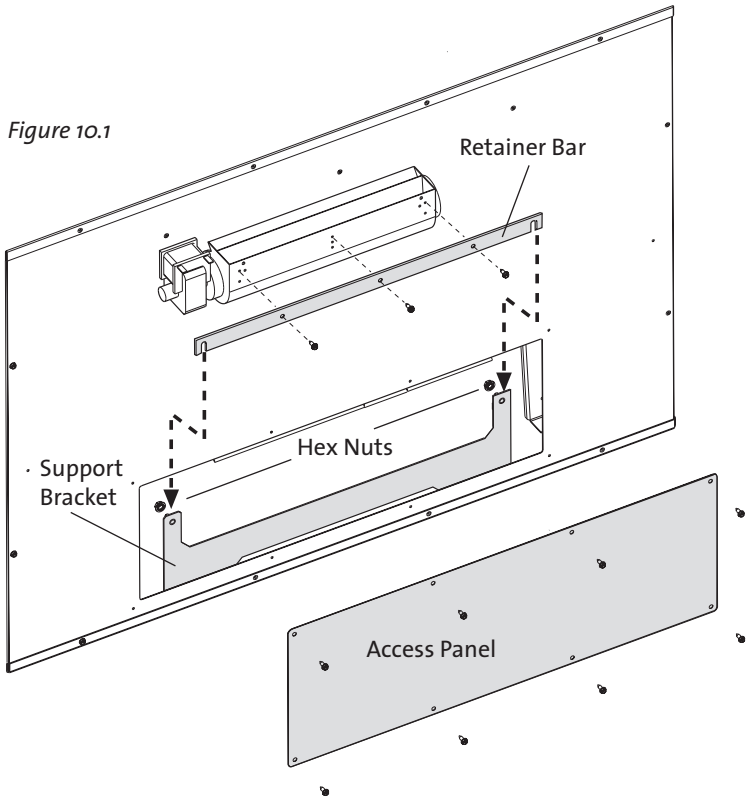
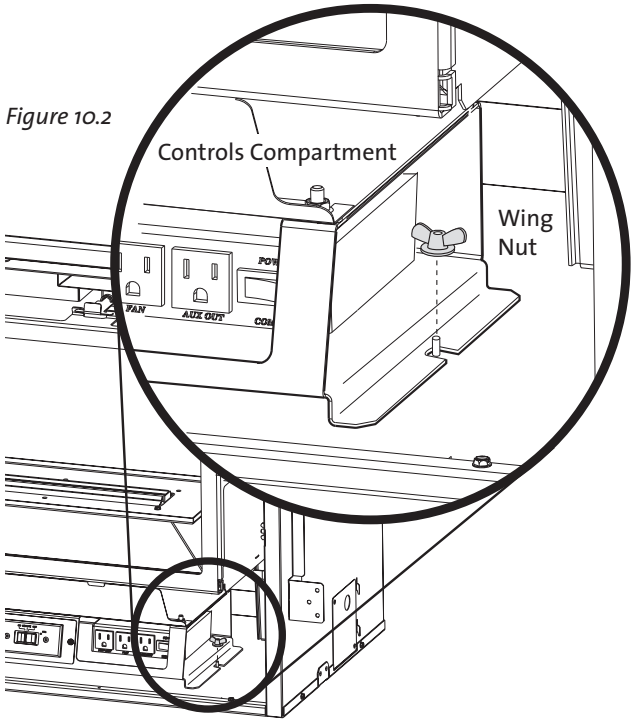


Figure 10.2



Installation from Front of Cabinet

1. **Disconnect the power supply from the fireplace. Switch the FCM to OFF.**
2. Remove the apron panel from the cabinet front to access the control compartment.
3. Remove the two wing nuts that secure the controls compartment base to the fireplace cabinet. Fig. 10.2.

   Swing the compartment assembly out to access the back of the cabinet.
4. Follow Steps 2, 3, and 4 above.
5. Relocate the compartment assembly back into position and route the blower power cord around the side to the FAN outlet on the FCM. Replace the compartment wing nuts.
6. Re-connect power supply to the fireplace and switch the FCM to ON.

10.2 Approved Vent Manufacturers

The Atra GZ 455 DV fireplace is approved for installation with direct vent chimney components supplied by the following manufacturers:

Simpson Dura-Vent, Inc.
P.O. Box 1510
Vacaville, CA 95696-1510 800-835-4429

Selkirk Corporation
1301 W. President George Bush Hwy, Suite 330
Richardson, TX 75080-1139 800-992-8368

American Metal Products (Amerivent)
8601 Hacks Cross Rd.
Olive Branch, MS 38654 800-423-4270

Security Chimneys International Limited
2125 Monterey, Laval, Québec
Canada, H7L 3T6 455-973-9999

Metal-Fab, Inc.
P.O. Box 1138
Wichita, KS 67201 316-943-2351

ICC, Inc.
400 J-F Kennedy St. Jerome, Quebec
Canada, J7Y 4B7 455-565 6336

10.3 Wiring Diagrams

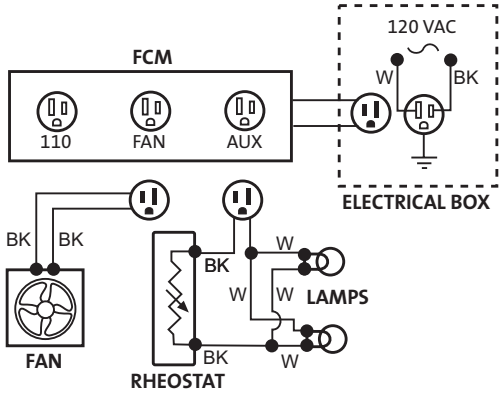


Figure 10.2. Fan, Accent Lamp, and power circuits.

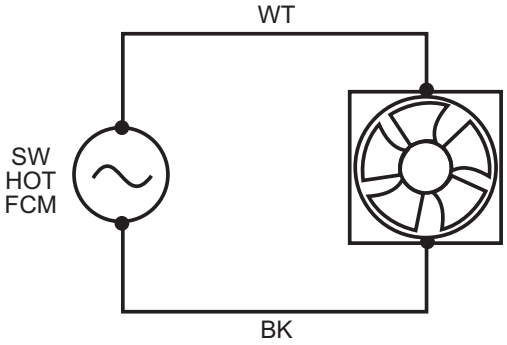


Figure 10.3. Wiring Diagram - GZ 455 DV Blower

10.4 Mobile Home Installation

The Atra GZ 455 DV can be installed for use in a mobile home in the U.S. and Canada provided:

1. The fireplace must be secured to the floor of the mobile home. A bracket is located on each side of the fireplace through which wood screws or other appropriate fasteners should be secured to the floor.
2. The fireplace is installed in accordance with Title 24 CFR, Part 3280- Manufactured Home Construction and Safety Standard, in the U.S. Comply with CSA Z240.4, Gas Equipped Recreational Vehicles and Mobile Housing, in Canada.
3. Always contact your local officials about installation restrictions and requirements in your area.

THIS APPLIANCE MAY BE INSTALLED AS AN OEM INSTALLATION IN A MANUFACTURED (MOBILE) HOME AND MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARD, TITLE 24 CFR, PART 3280, STANDARD FOR MANUFACTURED HOME INSTALLATION, ANSI/NCBCS A255.1 OR STANDARD FOR CANADA, CSA Z240.4. THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS THAT IS INDICATED ON THE Fireplace'S RATING PLATE. THIS APPLIANCE MAY BE INSTALLED IN AN AFTERMARKET PERMANENTLY LOCATED, MANUFACTURED (MOBILE) HOME, WHERE NOT PROHIBITED BY LOCAL CODE.

CET APPAREIL PEUT ETRE INSTALLE DANS UN MAISON PREFABRIQUEE (MOBILE) DEJA INSTALLEE A DEMEURE SI LES REGLEMENTS LOCAUX LE PERMETTENT.

CET APPAREIL DOIT ETRE UTILISE UNIQUEMENT AVEC LES TYPES DE GAS INDIQUES SUR LA PLAQUE SIGNALETIQUE. NE PAS L'UTILISER AVEC D'AUTRES GAS SAUF SI UN KITDE CONVERSION CERTIFIE EST INSTALLE.

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11.0 Jøtul Group Gas Product Limited Warranty

This warranty policy applies to gas products identified by Jøtul, Scan, and Atra trade names, as set forth below.

A. Cast Iron, Steel Doors, Surround Components, Firebox:

Jøtul North America Inc. (JØTUL) warrants, to the original retail purchaser, that those components of the Jøtul, Scan, or Atra Gas Stove or Fireplace specified above will be free of defects in material and workmanship for a period of five (5) years from the date of purchase. This warranty is subject to the terms, exclusions and limitations set forth in the following text.

B. Burner, Burner Treatments, Firebox Panels:

JØTUL warrants, to the original retail purchaser, that those components of the Jøtul, Scan, or Atra Gas Stove or Fireplace specified above will be free of defects in material and workmanship for a period of two (2) years from the date of purchase. This warranty is subject to the terms, exclusions, and limitations set forth in the following text

C. Gas & Electrical Components (controls, plumbing, valve, blower):

JØTUL warrants, to the original retail purchaser, that those components of the Jøtul, Scan, or Atra Gas Stove or Fireplace specified above will be free of defects in material and workmanship for a period of one (1) year from the date of purchase. This warranty is subject to the terms, exclusions, and limitations set forth in the following text.

JØTUL will repair or replace (including parts & labor), at its option, any of the above components determined by JØTUL to be covered by this warranty. You must, at your own expense, arrange to deliver or ship the component to an authorized Jøtul, Scan, or Atra dealer and arrange for pickup or delivery of the component after repairs have been made. If, upon inspection, JØTUL determines that the component is covered by this warranty, the repair or replacement will be made as set forth above. This warranty is not transferable and is extended only to, and is solely for the benefit of, the original retail purchaser of the Jøtul, Scan, or Atra Gas Stove or Fireplace. This paragraph sets forth the sole remedy available under this warranty in the event of any defect in the Jøtul, Scan, or Atra Gas Stove or Fireplace.

The warranty period for any replaced component will be the remaining unexpired portion of the warranty period for the original component.

Please retain your dated sales receipt in your records as proof of purchase.

EXCLUSIONS AND LIMITATIONS

NOTICE: This warranty is void if installation or service is performed by someone other than an authorized installer, service agency or gas supplier, or if installation is not in conformance with the installation and operating instructions contained in this owner's manual or local and/or national fire and building regulations. A listing of local authorized installers, service agencies and gas suppliers can be obtained from the National Fireplace Institute at http://www.nficertified.org/.

This warranty does not cover the following:

1) Repair or replacement of parts that are subject to normal wear and tear during the warranty period or to parts that may require replacement in connection with normal maintenance. These parts include gaskets and glass (except to the extent such parts suffer damage from thermal stress).

2) Damage due to incorrect installations not in conformance with the installation instructions contained in this owner's manual or local and/or national fire and building regulations.

3) Damage due to service performed by an installer, service agency or gas supplier, unless otherwise agreed to in writing by JØTUL.

4) Labor or other costs associated with the repair of gas controls, plumbing, burners, log set, or sheet metal firebox beyond the warranty period.

5) Damage caused by unauthorized modification, use or repair.

6) Damage to enameled surfaces caused by improper operation or misuse, including use that is not in conformance with the operating instructions contained in this owner's manual. Such damage can typically be identified by bubbling, cracking, or discoloration of the enamel finish.

7) Costs incurred by travel time and/or loss of service.

8) Damage incurred while the Jøtul, Scan, or Atra Gas Stove or Fireplace is in transit.

IN NO EVENT SHALL JØTUL, ITS PARENT COMPANY, SHAREHOLDERS, AFFILIATES, OFFICERS, EMPLOYEES, AGENTS OR REPRESENTATIVES BE LIABLE OR RESPONSIBLE TO YOU FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR OTHER SIMILAR DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR DAMAGES TO A STRUCTURE OR ITS CONTENTS, ARISING UNDER ANY THEORY OF LAW WHATSOEVER. ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WRITTEN WARRANTY. EXCEPT AS EXPRESSLY SET FORTH HEREIN, JØTUL MAKES NO ORAL, WRITTEN OR OTHER WARRANTY WITH RESPECT TO JØTUL, SCAN OR ATRA GAS STOVES OR FIREPLACES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on the length of implied warranties. Therefore, the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

JØTUL reserves the right to discontinue, modify or change the materials used to produce the Jøtul, Scan, or Atra Gas Stove or Fireplace. JØTUL shall have the right to replace any defective component with substitute components determined by JØTUL to be of substantially equal quality and price.

The dollar value of JØTUL's liability for breach of this warranty shall be limited exclusively to the cost of furnishing a replacement component. JØTUL shall not in any event be liable for the cost of labor expended by others in connection with any defective component. Any costs or expenses beyond those expressly assumed by JØTUL under the terms of this warranty shall be the sole responsibility of the owner(s) of the Jøtul, Scan, or Atra Gas Stove or Fireplace.

No dealer, distributor, or other person is authorized to modify, augment, or extend this limited warranty on behalf of JØTUL. NO MODIFICATION OR CHANGE TO THIS WARRANTY WILL BE EFFECTIVE UNLESS IT IS MADE IN A WRITTEN DOCUMENT MANUALLY SIGNED BY AN AUTHORIZED OFFICER OF JØTUL.

An authorized installer may have been provided with certain information related particularly to the Jøtul, Scan, or Atra Gas Stove or Fireplace; however, no authorized installer or other person who may service the appliance is an agent of JØTUL. No inference should be made that JØTUL has tested, certified, or otherwise pronounced any person as qualified to install or service the appliance. JØTUL shall not be liable or otherwise responsible for any error or omission by a person installing or servicing a Jøtul, Scan, or Atra Gas Stove or Fireplace.

If you believe your Jøtul, Scan, or Atra Gas Stove or Fireplace is defective, you should contact your nearest authorized Jøtul, Scan, or Atra dealer, who will process a warranty claim. IN ORDER TO QUALIFY FOR WARRANTY COVERAGE, JØTUL MUST RECEIVE NOTICE OF A POSSIBLE DEFECT WITHIN SIXTY (60) DAYS OF THE DATE THE DEFECT IS FIRST DISCOVERED, OR REASONABLY COULD HAVE BEEN DISCOVERED.

This warranty is given by Jøtul North America, Inc.,
55 Hutcherson Drive, Gorham, Maine 04038 USA

LIGHTING 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 is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.

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 to the floor.

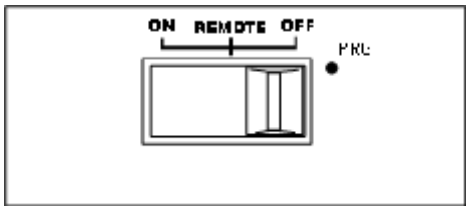
WHAT TO DO IF YOU SMELL GAS:
- Extinguish any open flame.
- Open windows.
- Do not light any appliance.
- Do not touch any electrical switches.
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone.
- If your gas supplier cannot be reached, call the fire department.

C. Use only your hand to turn the gas control knob. Never use tools. If the knob will not turn by hand, do not try to repair it. Call a qualified technician. Force or attempted 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.

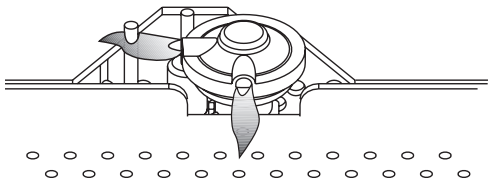
LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above.
2. Set the thermostat to the lowest setting.
3. Set the Mode Control Switch to the "OFF" position.
4. This appliance is equipped with an ignition device which automatically lights the pilot.
   Do <u>not</u> try to light the pilot by hand.



REMOTE RECEIVER
MODE CONTROL SWITCH

5. Wait five (5) minutes to clear out any gas. Then, smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you do not smell gas, go to the next step.
6. Set the Mode Control Switch to the "ON" position. The pilot will light.



PILOT LIGHT ASSEMBLY

7. Set the Mode Control Switch to the "REMOTE" position.
8. Set the thermostat to the desired setting to light the burner.

   If the appliance will not operate, follow the instructions" To Turn Off Gas To Appliance", and call your service technician or gas supplier.

TO TURN OFF GAS TO THE APPLIANCE:

1. Set the thermostat to the lowest setting.
2. Turn off all electrical power to the appliance if service is to be performed.
3. Set the Mode Control Switch to the "OFF" position.
4. Close control access door.

August 2012
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This appliance must be installed in conformance with local and national building regulations. Before beginning the installation, it is important that these instructions be carefully read and understood. Atra maintains a policy of continual product development. Consequently, products may differ in specification, color or type of accessories from those illustrated or described in various publications.

Atra vise sans cesse a ameliorer ses produits. C'est pourquoi, il se reserve le droit de modifier les specifications, couleurs etequipement sans avis prelable.

Your fireplace has a unique serial number stamped on the rating plate which is located in the valve compartment. Please record the serial number in the space below. You may also wish to attach your purchase receipt to this manual for future reference.

MODEL NAME: ATRA GZ 455 DV Gas Fireplace

SERIAL NUMBER:_____

DATE OF PURCHASE:_____

AUTHORIZED DEALER:_____

ADDRESS _____

PHONE: _____

INSTALLER:_____

FUEL TYPE:_____

FUEL CONVERSION: NO _____ YES_____

Jøtul AS
P.O. Box 1411
N-1602 Fredrikstad
Norway

Jøtul North America
55 Hutcherson Dr.
Gorham, ME 04038-2634