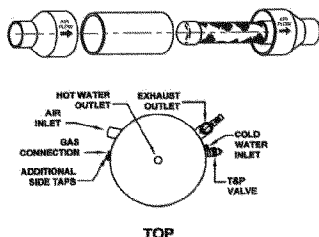
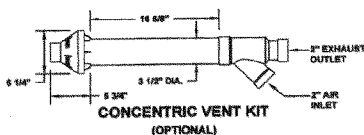
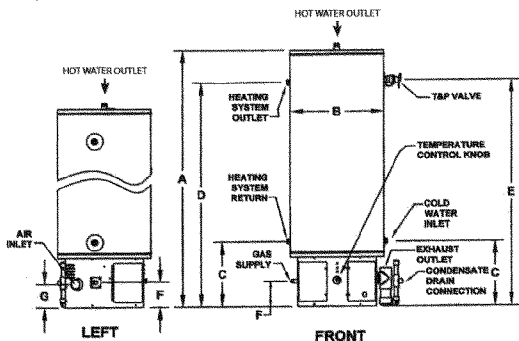


POLARIS®

NOTE: SEE INSTALLATION MANUAL FOR PIPING DIAGRAMS.

NOTE: Water quality will vary from location to location and may contain contaminants that reduce the life or performance of the water heater. Use water quality survey kit #6903791 to help determine the need for water treatment.



Residential Gas Polaris®

MODEL NUMBER	GAL. CAP.	INPUT BTU PER HR.	THERMAL EFFICIENCY	GPH RECOVERY 90° RISE	EXTERIOR A	EXTERIOR B	VENT DIAMETER	1" WATER CONNECTIONS C	T&P HEIGHT E	GAS SUPPLY* F	APPROX. SHIP WEIGHT
PG10 34-100-2NV	34	100,000	96	129	48-1/2	22	2 or 3	15-3/4	40-1/2	41	6-1/8 150
PG10 34-130-2NV	34	130,000	96	168	48-1/2	22	2 or 3	15-3/4	40-1/2	41	6-1/8 150
PG10 34-150-2NV	34	150,000	95	192	48-1/2	22	2 or 3	15-3/4	40-1/2	41	6-1/8 150
PG10 50-130-3NV	50	130,000	95	166	62-1/2	22	2 or 3	15-3/4	54-1/2	55	6-1/8 176
PG10 50-150-3NV	50	150,000	95	192	62-1/2	22	2 or 3	15-3/4	54-1/2	55	6-1/8 176
PG10 50-175-3NV	50	175,000	96	226	63-3/4	22	3	15-3/4	55-3/4	56-1/4	6-1/8 180
PG10 50-199-3NV	50	199,000	96	257	63-2/4	22	3	15-3/4	55-3/4	56-1/4	6-1/8 180

For propane, substitute "P" for "N" in the model number. 3" Concentric Vent Part #6910543 or 2" Concentric Vent Part #6910542. Specifications are subject to change without notice in accordance with our policy of continuous improvement. Input, output and recovery may vary depending upon air inlet and exhaust outlet installations. Length and number of bends in inlet and outlet pipes may reduce input and output. Consult installation, operation and service manual for details. Dimensions on all charts shown in inches. *1/2" gas supply line can be used for up to 130,000 BTU units, units over 130,000 BTU's require a 3/4" gas supply line.

Specification

Residential gas-fired water heater(s) shall be a direct/power vent Polaris model _____, as manufactured by American Water Heater Company and shall have a 10-year limited tank warranty and a 1-year limited parts warranty, as outlined in the written warranty. Units shall be designed to burn _____ (natural/propane) gas and be CSA International certified to the latest edition of ANSI standard Z21.10.3/CSA 4.3. Water heater(s) shall have a nominal storage capacity of _____ gallons and a recovery rate of _____ GPH @ 90°F rise with a rated input of _____ BTU/hr. Water heater(s) shall be condensing type with a minimum thermal efficiency of 95-96%, power vented with PVC, ABS, or CPVC pipe. Water heater(s) shall have combined vent capabilities of up to 120' to the exhaust outlet with up to 120' to the air inlet. Water heater(s) shall have a low noise combustion system with a woven fiber steel burner capable of low NOx (less than 40 ng/l) in the blue flame mode and shall be manufactured of refractory steel, resistant to thermal and mechanical shock. The gas valve shall be a Honeywell CVI-1 series gas valve with a matching 45,900 series venturi manifold using a 1:1 air/gas ratio. The combustion system shall be factory adjusted and require no field adjustment on startup. The tank shall be constructed of 444 stainless steel with a submerged combustion chamber and rated for 150 PSI working pressure and 300 PSI test pressure. The tank shall be surrounded by two inches of non-CFC foam insulation covered by an enamel coated metal jacket. Operating controls shall have a 24-volt integrated control circuit, an immersed thermistor temperature sensor, a recycling energy cut-off switch, external temperature adjustment, and shall have LED lights that continuously indicate the operational status of the water heater(s). A microprocessor shall automatically monitor nine critical operating functions and signal the status of each. A factory installed temperature and pressure relief valve shall be provided on all models. A factory provided water thermostatic tempering valve shall be provided with all models.

Order Entry and Sales

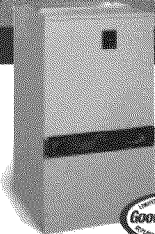
P.O. Box 4056, 500 Princeton Road
Johnson City, TN 37602-4056
(800) 937-1037
(800) 581-7224 fax

Product Service and Support

P.O. Box 1597, 500 Princeton Road
Johnson City, TN 37605-1597
(800) 999-9515
(800) 999-5210 fax

Distributed By

Why Choose a York® SINGLE PIECE AIR HANDLER?



WHY DO YOU NEED AN AIR HANDLER?

A home comfort system has two parts: an outdoor unit, such as an air conditioner or heat pump, and an indoor unit. The air handler is the indoor unit that circulates cool air through your home in the summer and warm air in the winter. The indoor and outdoor units are designed to work together. And, when the air handler is properly matched with a heat pump or air conditioner, the result is maximum efficiency and extended system life.

EXCELLENT PERFORMANCE. LONG-LASTING QUALITY.

The York® Single Piece Air Handler offers state-of-the-art heat transfer technology. These high-efficiency units feature rifled tube coils that are mechanically bonded to lanced aluminum fins, providing outstanding heat transfer capability, high performance ratings, and quality that lasts.

QUIET OPERATION. 50% LESS ENERGY.

Through the use of ECM technology, variable speed models (FFV) use up to 50% less electrical energy than conventional blower motors. This technology increases SEER¹ efficiency ratings by up to 1.5 points. And variable speed operation also allows for quiet unit operation, eliminating noisy starts and stops.

DESIGNED TO FIT ALMOST ANYWHERE.

The York® Single Piece Air Handler offers flexibility and quick and easy installation. Configured for upflow and horizontal applications, these units are ideal for basement, attic, slab, alcove, or crawlspace installation.

FEATURE	BENEFIT
Compact design	Fits easily into crawlspaces and attics
Minimal panels and seams	Reduces sweating in humid environments
Positive-slope drain pan	Completely drains after each cycle
Encapsulated insulation	Reduces operation noise and provides for increased efficiency
Built-in filter rack	Offers easy access
Pre-painted cabinet	Resists fading and corrosion
Electric heat options	Up to 25 kW of heat available for field installation. All heaters include staging sequences for efficient operation.



All parts are covered by a 5-year limited warranty. And for more peace of mind, consider purchasing a YORKCare™ Comfort Plan, providing total parts and labor coverage for up to 10 years. Ask your York Dealer for details.



1. The Federal Government has established SEER (Seasonal Energy Efficiency Ratio) and HSPF (Heating Season Performance Factor) ratings to allow you to compare energy efficiencies of heating and air conditioning equipment. The higher the SEER or HSPF number, the more efficient the product.

YORK®
It's Time to Get Comfortable™

Unitary Products Group, Inc.
5205 York Drive, Norman, OK 73069
www.yorkcorp.com

SINGLE PIECE (FRC)

Model	Cap. (Tons)	Nom. CFM	Application
F*RC024N06 F*FC024N06	2.0	800	AC Only
F*RC030N06 F*FC030N06	2.5	1000	AC Only
F*RC036N06 F*FC036N06	3.0	1200	AC Only

SINGLE PIECE (FRP, FFP)

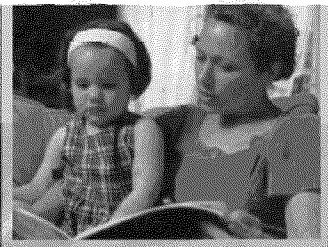
Model	Cap. (Tons)	Nom. CFM	Application
F*RP018N06 F*FP 018N06	1.5	600	AC & HP
F*RP024N06 F*FP024N06	2.0	800	AC & HP
F*RP030N06 F*FP030N06	2.5	1000	AC & HP
F*RP036N06 F*FP036N06	3.0	1200	AC & HP
F*FP040H06	3.5	1400	AC & HP
F*RP042N06 F*FP042N06	3.5	1400	AC & HP
F*FP045H06	4.0	1600	AC & HP
F*FP048N06	4.0	1600	AC & HP
F*FP060N06	5.0	2000	AC & HP

VARIABLE SPEED (FFV)

Model	Cap. (Tons)	Nom. CFM	Application
F*FV060H06	5.0	2000	AC & HP

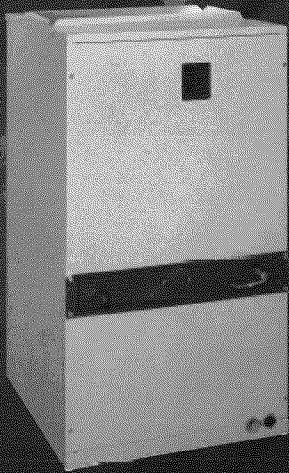
*Generation indicator

©2002 York International Corporation
All rights reserved. Subject to change without notice.
Form 036-11710-001 (04/02) Supersedes: Nothing. Printed in USA



York® Single Piece Air Handler

- Outstanding Energy Efficiency
- Quiet, Long-Lasting Performance
- Quick and Easy Installation

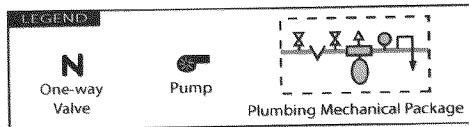
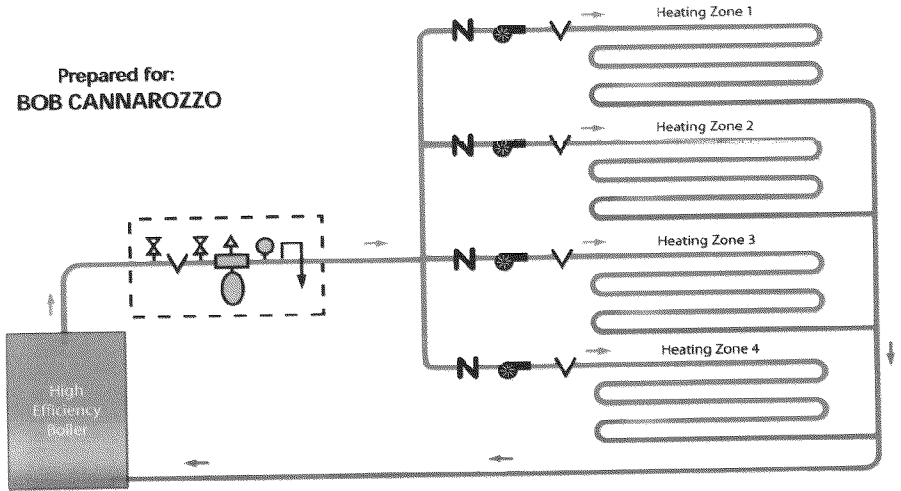


YORK®

It's Time to Get Comfortable™

Mechanical Schematic Drawing of a Closed Heating System having 4 zones

Prepared for:
BOB CANNAROZZO



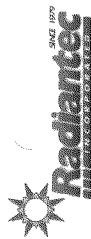
OPERATION

Heat is provided when the pump is turned on by the thermostat. Warm water (or other fluid) flows from the boiler throughout the heating zone until heat is no longer needed.

ADVANTAGES

Non potable fluids can be used (such as antifreeze solutions). High heat outputs.
Simplified code approvals.

NOTES: These mechanical drawings are intended to illustrate the mechanical operation of the system in general. Individual projects will vary and these drawings may not show every single component that will be necessary in every instance.
It is also important to check with local codes.



UNDERFLOOR MATERIAL CALCULATION WORKSHEET

PROJECT NAME: Bob Connerazzo

radiant
HEATING CORPORATION

UNDERFLOOR MATERIAL CALCULATION WORKSHEET

HEATED AREA

MATERIAL WORKSHEET

FLOOR CONSTRUCTION TUBING SELECTION OPERATING PARAMETERS COMPONENTS PUMP

SQUARE FOOTAGE SLAB ON GRADE SUSPENDED SLAB JOISTED FLOOR PERCENT CARPETED 1/2" TUBING 7/8" TUBING TUBE SPACING TOTAL TUBING REQ. SUGGESTED CIRCUITS ORDER QUANTITY FLUID TEMP (suggested) MAX. FLUID TEMP (degree F) FLOW RATE (gal/minute) ALUMINUM PLATES SLAB MANIFOLD ADAPTORS COUPLINGS PUMP SELECTION

Floor Sensor	480	✓	○	✓	146' 400'	2	2	2	2	130°	150°	2	2	1	Med
Garage															Cost
Guest Bed, Bath	304	✓	○	✓	16" 228'	2	2	2	2	130°	150°	1.15	100	2	Med
															Cost
K.T. Dry Great Foyer	1288	✓	○	✓	16" 943'	6	6	6	6	130°	150°	4.8	300	1	Med
															Cost
3 Bed, Bath, Hall, Laundry	1272	✓	○	✓	16" 954'	6	6	6	6	130°	150°	4.85	300	1	Med
															Cost
Master Suite, Office	1295	✓	○	✓	16" 971'	6	6	6	6	130°	150°	4.9	300	1	Med
															Cost

ZONE 1 ZONE 2 ZONE 3 ZONE 4 ZONE 5 ZONE 6

NOTES: Bob call me at 1800411-2593 with any questions. You should check that this system and components comply with your codes. I have quoted you a 1 zone closed system using a 50 gallon 130GPD 150 Valves and 7/8 PEX PXC Tubing. We recommend insulating under the slab with 2" of extruded polystyrene. The garage will use a floor sensor instead of a wall thermostat.

Th... 10th... 1st... 1st...



PROJECT NAME: Bob Cannarozzo

HEATING CALCULATION

	HEATED AREA	SQUARE FOOTAGE ENERGY FACTOR TEMPERATURE DIFFERENCE (degrees F) ESTIMATED HEAT REQUIRED (BTU/hour) HEAT PRODUCED BY THE FLOOR (BTU/hour)				
ZONE 1	Slab	480	.7	50°	16,800	19,200
ZONE 2	Joist	304	.3	60°	5,500	12,200
ZONE 3	Joist	1258	.4	60°	30,200	44,000
ZONE 4	Joist	1222	.35	60°	26,700	44,500
ZONE 5	Joist	1295	.3	60°	23,300	45,300
ZONE 6						

HEATING CALCULATION

NOTES: Estimated heating requirements are 100,000 BTUs.

SOME IMPORTANT NOTES ABOUT FREE DESIGN ASSISTANCE

1. A complete design for an underfloor radiant heating system would include a complete review of the plans, a study of State and Local Building codes, a detailed heat loss calculation, coordination with the builder, several site visits, coordination with the supplier of the heating unit, a written contract, and a fee of several thousand dollars.
2. This free service is not to be confused with a complete design. *It is intended to be useful to the customer for making preliminary decisions.* This information is given in good faith, but Radiantec Company makes no warranty or assumes no liability for its accuracy.
3. It is not possible for Radiantec Company to be aware of the ramifications of all State and Local building codes. *Code compliance is the customer's responsibility.* Radiantec Company will assist the customer in obtaining waivers or exceptions when new technology conflicts with applicable codes. Radiantec Company will not apply restocking fees if exchanges are needed to meet applicable codes.

Robert & Carolyn Cannarozzo
24 East 31st Street
Bayonne, NJ 07002
Home 201-437-8753 Cell 201-481-3237

Township of Brick
401 Chambers Bridge Road
Brick, NJ 08723

June 2, 2006

RE: New single family home
58 Brower Drive
Brick, NJ 08723

Dear Sirs,

Please accept this building application for a new single family home, I am a builder by trade and also the home-owner, I will be constructing some this project as a home owner and sub-contracting the rest, however I will be over seeing the whole project. I have enclosed the information as required on the SINGLE FAMILY DWELLING CHECKLIST with the exception of # 9, 10 & 11, cause I have not yet selected a Plumber. Also the same with a Electrical, Fire or HVAC contractors. As of Item # 15 the joist company has received my plans and the shop drawings are in the process I will forward as soon as I receive them.

Please if the is any other information you may require or I may have missed please feel free to call me at 201-481-3237.

Thank you,
Robert Cannarozzo



**INSTALLER/CONSUMER
SAFETY INFORMATION**

**PLEASE READ THIS MANUAL
BEFORE INSTALLING
AND USING APPLIANCE.**

IMPORTANT: Read all instructions and warnings carefully before starting installation. Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

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

FOR YOUR SAFETY:

Installation and service must be performed by a qualified installer, service agency, or the gas supplier. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

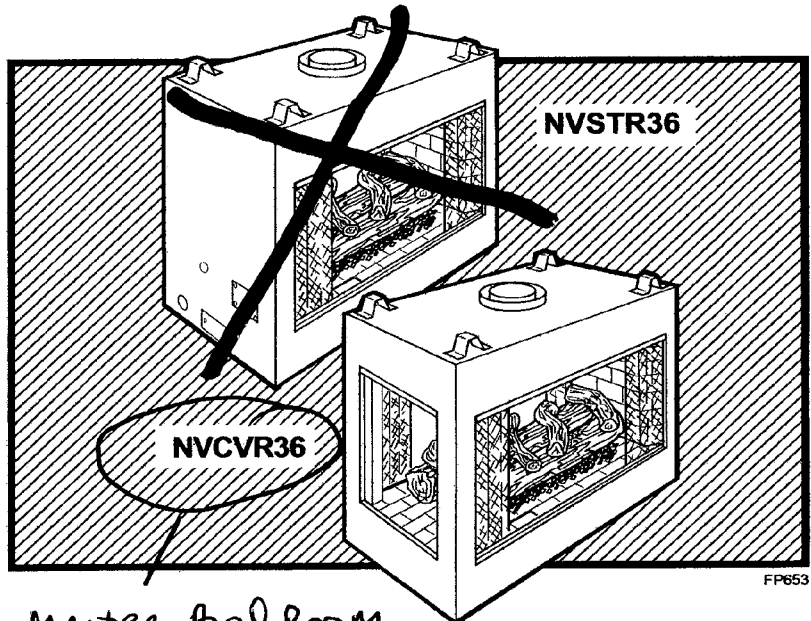
FOR YOUR SAFETY,

if you smell gas:

1. Open windows.
2. Do not touch electrical switches.
3. Do not try to light any appliance.
4. Extinguish any open flame.
5. Do not use the phone in your building.
6. Immediately call your gas supplier from a neighbor's phone.
7. Follow your gas supplier's instructions.
8. If you cannot reach your gas supplier, call the fire department.

MAJESTIC *fireplaces*

Decorative Gas Appliance Models: NVSTR36 NVCVR36



Master Bed Room **Homeowner's Installation and Operating Manual**



CFM Specialty Home Products

410 Admiral Blvd. • Mississauga, Ontario, Canada L5T 2N6 • 905-670-7777
www.majesticproducts.com • www.vermontcastings.com

INSTALLER: DO NOT DISCARD THIS MANUAL - LEAVE FOR HOMEOWNER

7412958 3/04 Rev. 8

Table of Contents

Thank you, and Congratulations on your purchase of a Majestic Fireplace.

PLEASE READ THESE INSTALLATION & OPERATING INSTRUCTIONS BEFORE USING THE APPLIANCE.

IMPORTANT: Read all instructions and warnings carefully before starting installation. Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

Installation & Operating Instructions	
General Information	3
Description	3
Fireplace Framing and Specification Dimensions	4
Clearance to Combustibles	5
Mantels	5
Hearth Extension	5
Insulating for Cold Climates	5
Framing and Finishing	6
Finishing	6
Gas Specifications	6
Gas Inlet & Manifold Pressures	6
High Elevations	6
Parts Identification and Chase Installation	7
Gas Line Installation	8
Remote Wall Switch	8
EB-1 Electrical Box	9
Install the Venting System, Flashing and Termination	9
Venting Runs	10
Operating Instructions	
Glass Information	11
Glass Cleaning	11
Log Installation	11
Ember Material Placement	11
Lava Rock	11
First Firing	12
Flame Adjustment	12
Flame Characteristics	12
Inspect the Venting System	12
Lighting and Operating Instructions	13
Troubleshooting	15
Maintenance	
Cleaning the Standing Pilot Control System	17
Cleaning Automatic Direct Electronic Ignition System	17
Replacement Parts	18
Accessories	21
Warranty	22

General Information

This gas appliance should be installed by a qualified installer in accordance with local building codes and with current **CSA-B149.1** Installation codes for Gas Burning Appliances and Equipment.

FOR U.S.A. Installations follow local codes and/or the current **National Fuel Gas Code. ANSI Z223.1.**

FOR SAFE INSTALLATION AND OPERATION OF YOUR NATURAL DRAFT APPLIANCE PLEASE NOTE THE FOLLOWING:

1. This appliance gives off high temperatures and should be located out of high traffic areas and away from furniture and draperies.
2. Children and adults should be alerted to the hazards of the high surface temperatures of this appliance and should stay away to avoid burns or ignition of clothing.
3. Children should be carefully supervised when they are in the same room as your appliance.
4. Under no circumstances should this appliance be modified. Parts having to be removed for servicing should be replaced prior to operating this appliance again.
5. Installation and any repairs to this appliance should be carried out by a qualified service person. A professional service person should be contacted to inspect this appliance annually. Make it a practice to have all of your gas appliances checked annually. More frequent cleaning may be required due to excess lint and dust from carpeting, bedding material, etc.
6. Control compartments, burners and air passages in this appliance should be kept clean and free of dust and lint. Make sure that the gas valve and pilot light are turned off before you attempt to clean this unit.
7. The venting system (chimney) of this appliance should be checked at least once a year and if needed your venting system should be cleaned.
8. Keep the area around your appliance clear of combustible materials, gasoline and other flammable vapor and liquids. This appliance should not be used as a drying rack for clothing, nor should Christmas stockings or decorations be hung in the area of it.
9. Under no circumstances should any solid fuels (wood, coal, paper or cardboard etc.) be used in this appliance.
10. The flow of combustion and ventilation air must not be obstructed in any way.
11. Whether the appliance is installed directly on carpeting, vinyl tile or any combustible material other than wood, this appliance must be installed on a metal or wood panel extending the full width and depth of the appliance.
12. This appliance requires adequate ventilation and combustion air to operate properly.

Description

NVSTR / NVCVR Series are radiant, natural draft appliances and use a 6" B-vent system. Do not burn wood or other materials in these appliances. Each model is available with standing pilot or electronic ignition for use with Natural or Propane gas units.

Report to your dealer any parts damaged in shipment.

Adequate combustion and ventilation air must be provided. The flow of combustion and ventilation air **MUST NOT** be obstructed.

Provide adequate clearances around the air opening into the combustion chamber; and adequate accessibility clearance for servicing and proper operation. **NEVER** obstruct the front opening of the appliance.

The 6" vent system **MUST** connect to the appliance and terminate out-of-doors in a vertical position and terminate with a B-vent cap.

This appliance must not be connected to a chimney flue servicing a separate solid-fuel burning appliance.

Proposition 65 Warning: Fuels used in gas, woodburning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. California Health & Safety Code Sec. 25249.6

IMPORTANT:

PLEASE READ THE FOLLOWING CAREFULLY

Remove any plastic from trim parts before turning the fireplace "ON".

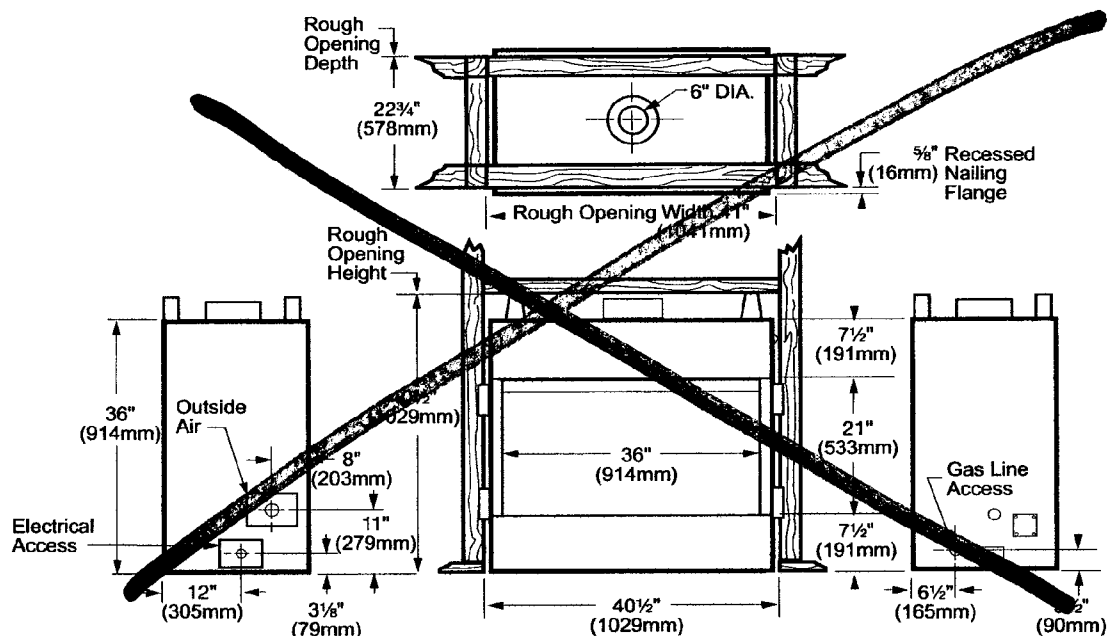
It is normal for fireplaces fabricated of steel to give off some expansion and/or contraction noises during the start up or cool down cycle. Similar noises are found with your furnace heat exchanger or car engine.

It is not unusual for your Majestic Fireplaces gas fireplace to give off some odor the first time it is burned. This is due to the curing of the paint and any undetected oil used in the manufacturing process.

Please ensure that your room is well ventilated. Open all windows.

It is recommended that you burn your fireplace for at least ten (10) continuous hours the first time you use it. If the optional fan kit has been installed, place the fan switch in the "OFF" position during this time.

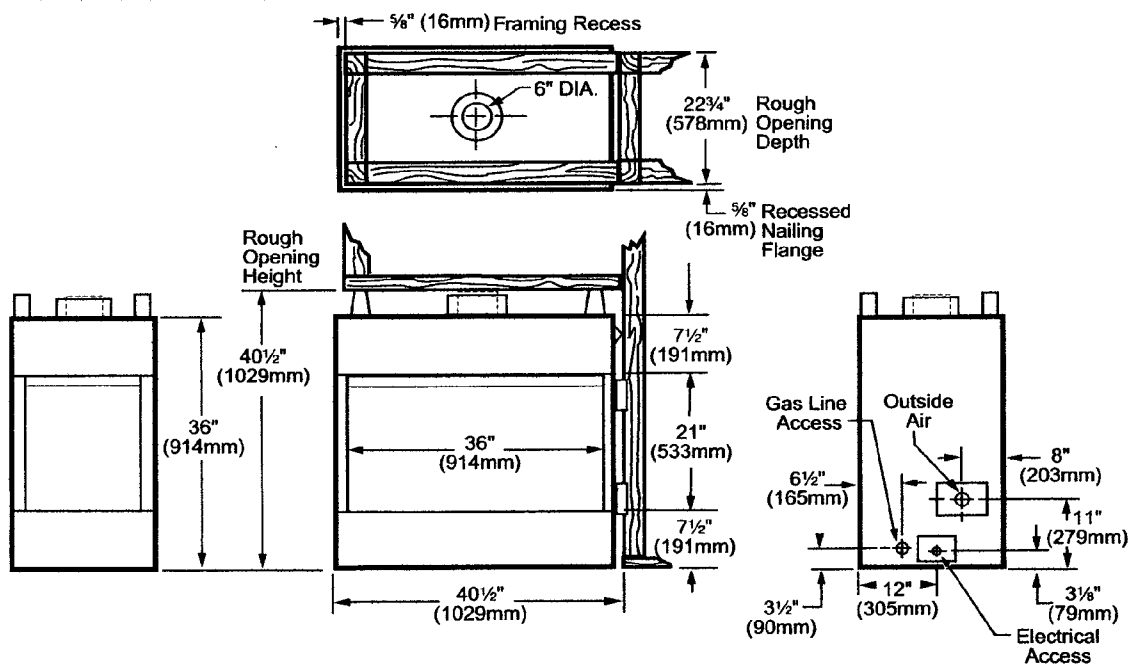
NVSTR36 Series Gas Appliance, See Through Model



FP651

Fig. 1 NVSTR36 Series specification and framing dimensions.

NVCVR Series Gas Appliance, Cove Model



FP652

Fig. 2 NVCVR36 Series specification and framing dimensions.

Clearance to Combustibles

Appliances

Top	0" (0mm)
Bottom	0" (0mm)
Side	0" (0mm)
Back.....	0" (0mm)
Perpendicular Sidewall	6" (152mm)
Top of unit to ceiling	36" (914mm)
Front of unit to combustibles	36" (914mm)

Venting

B-Vent	1" (25mm)
--------------	-----------

Mantels

The height that a combustible mantel is fitted above the fireplace is dependent on the depth of the mantel. This also applies to the distance between the mantel leg (if fitted) and the fireplace.

For the correct mounting height and widths refer to Figures 3a and 3b.

Noncombustible mantels and legs may be installed at any height and width around the appliance.



When using paint or lacquer to finish the mantel, such paint or lacquer must be heat resistant to prevent discoloration.

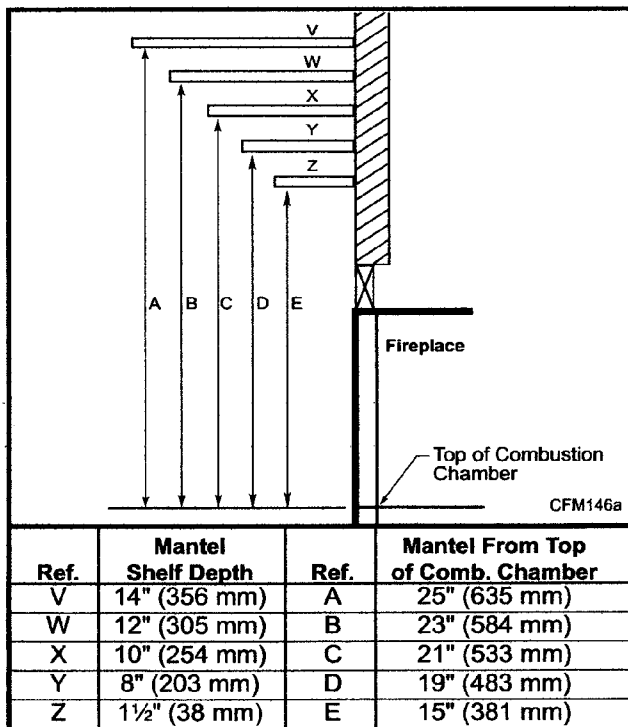
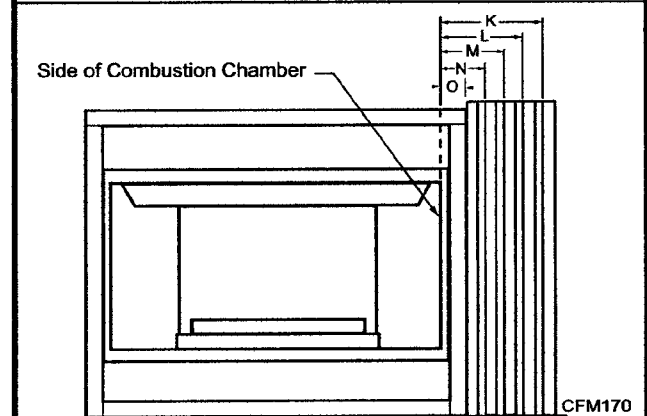
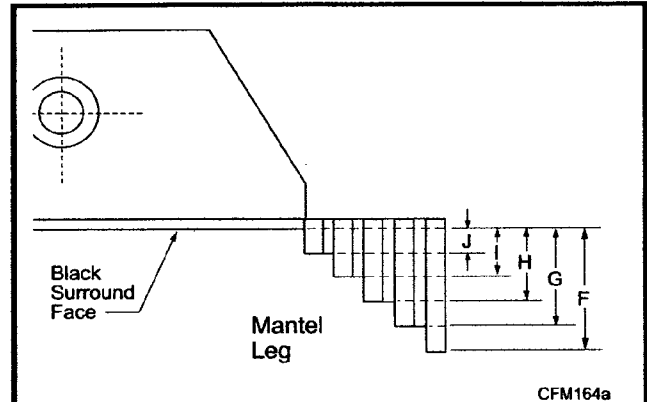


Fig. 3a Combustible mantel minimum installation.



Ref.	Mantel Shelf Depth	Ref.	Mantel From Top of Comb. Chamber
F	14" (356 mm)	K	14" (356 mm)
G	12" (305 mm)	L	12" (305 mm)
H	10" (254 mm)	M	10" (254 mm)
I	8" (203 mm)	N	8" (203 mm)
J	1½" (38 mm)	O	1½" (38 mm)

Fig. 3b Combustible mantel leg minimum installation.

Hearth Extension

A hearth extension in front of appliance is recommended, but **not required**.

Insulating for Cold Climates

When an appliance is installed in a chase or an outside wall, the enclosure should be insulated like any other wall of the home. Insulation should be installed under the appliance and on the inside of the exterior walls.

In a chase, it is a good idea to install a firestop at the first ceiling level above the appliance. Also, install insulation on the side walls. Insulation may then be placed above the ceiling to assure the space around the appliance is protected. Refer to Page 7, Figure 5.



Be sure to always maintain the proper one (1) inch distance to combustibles around B-vent pipe sections.

NOTE: Insulating for cold climates is strictly a recommendation and not a requirement.

Framing and Finishing

The appliance should only be mounted on the following surfaces:

- A flat combustible (burnable) surface.
- A raised wooden platform.
- A concrete block or other solid object placed beneath each of the four corners of the appliance.

To mount the appliance:

1. Choose unit location.
2. Eight (8) nailing flanges are supplied with the NVSTR fireplace (found on the fireplace hearth). Four (4) nailing flanges are supplied with the NVCVR fireplace. To level the box and secure it firmly in place, remove the nailing flanges from the hearth and install at the sides of the fireplace as shown in Figure 4.

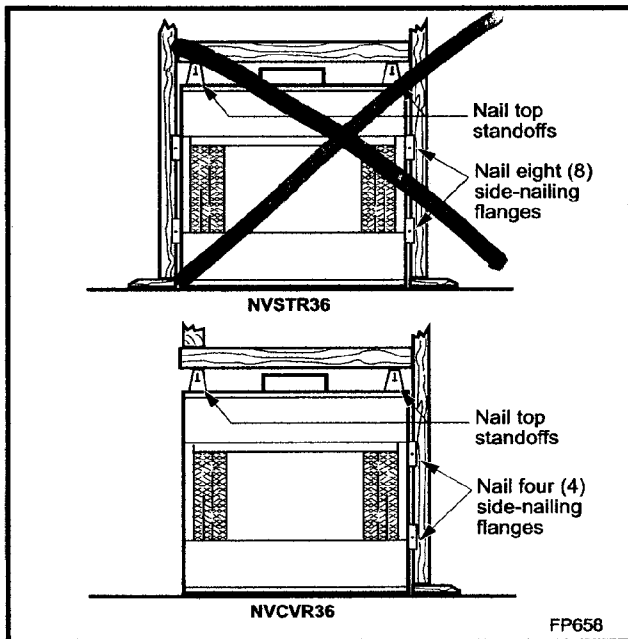


Fig. 4 Adjustable drywall strip (nailing flange).

Finishing



All joints between finished wall and appliance surround (top and sides) may be sealed only with noncombustible material. Only noncombustible material can be applied as facing to the appliance surround (black painted face).

When finishing the appliance, never obstruct or modify the air inlet/outlet grilles in any manner.

Finish the wall with the material of your choice. Refer to Figures 3a and 3b for specific clearances when installing a combustible mantel or other combustible projection.

Gas Specifications

Model	Fuel	Gas Control	Max. Input	Min. Input
NVSTR36RN	Natural	Millivolt HI/LO	41,000	29,000
NVCVR36RN	Natural	Millivolt HI/LO	41,000	29,000
NVSTR36RP	Propane	Millivolt HI/LO	41,000	31,500
NVCVR36RP	Propane	Millivolt HI/LO	41,000	31,500
NVSTR36EN	Natural	Electronic	41,000	29,000
NVCVR36EN	Natural	Electronic	41,000	29,000
NVSTR36EP	Propane	Electronic	41,000	31,500
NVCVR36DP	Propane	Electronic	41,000	31,500

Gas Inlet & Manifold Pressures

	NATURAL	LP
Minimum Inlet Pressure	5.5" w.c.	11.0" w.c.
Maximum Inlet Pressure	14.0" w.c.	14.0" w.c.
Manifold Pressure	3.5" w.c.	10.0" w.c.

NVSTR/ CVR36 Certified To

ANSI Z21.50a-2002/ CSA 2.22A-2001
Vented Gas Fireplace

High Elevations

Input ratings are shown in BTU per hour and are certified without deration for elevations up to 4,500 feet (1,370 m) above sea level.

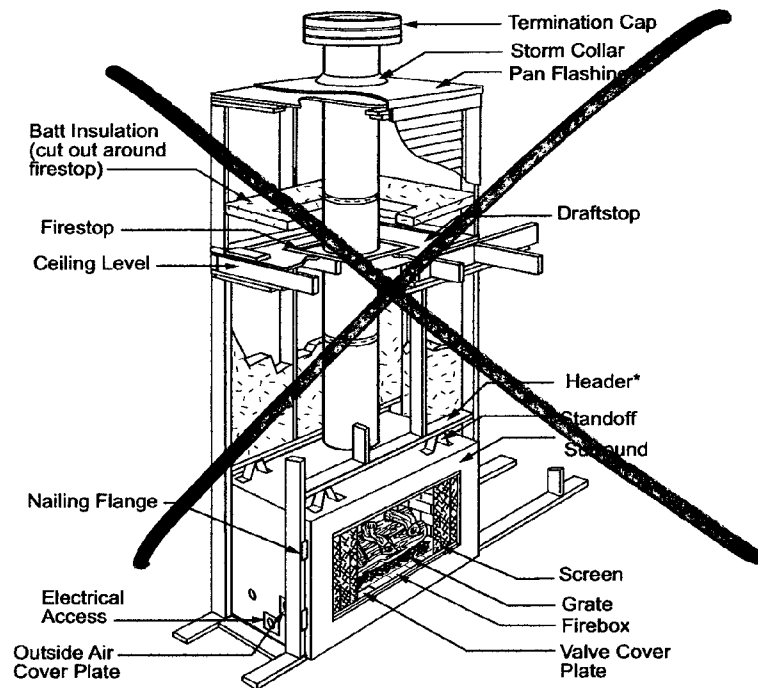
For elevations above 4,500 feet (1,370 m) in USA, installations must be in accordance with the current ANSI Z223.1 and/ or local codes having jurisdiction.

In Canada, please consult provincial and/ or local authorities having jurisdiction for installations at elevations above 4,500 feet (1,370 m).

Parts Identification and Chase Installation

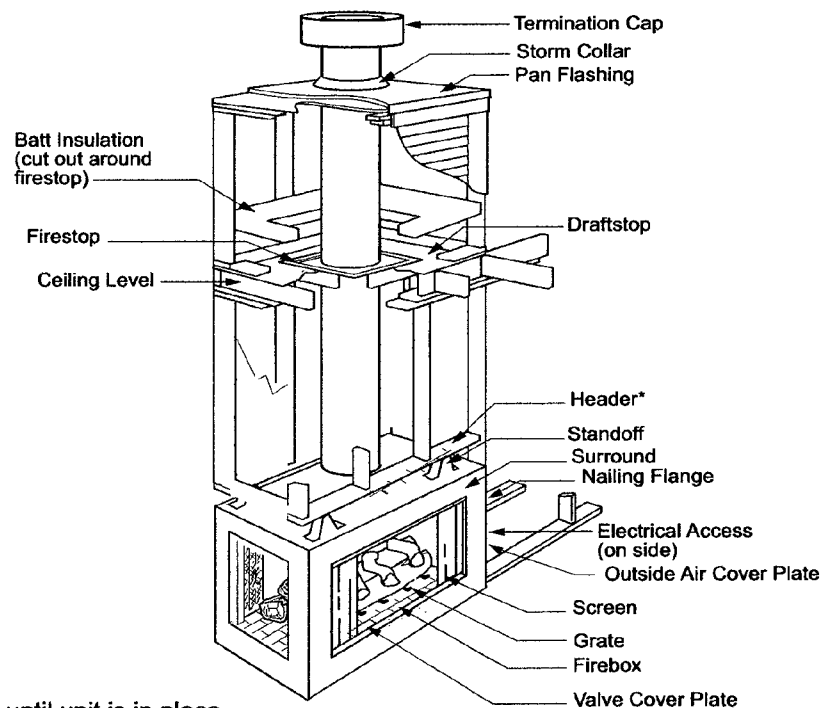
(Insulation methods shown are optional for cold climate, not a requirement for unit operation.)

NVSTR



FP656

NVCVR



* Do not install header until unit is in place.

Fig. 5 Parts identification and system installation.

7412958

Gas Line Installation

If gas piping is not yet completed from the source to the appliance location, install the required pipe. To ensure use of proper pipe size, consult the local plumbing code.

The gas pipeline can be brought in through the right-hand side (facing the control side) of the appliance. A knockout is provided to allow for the gas pipe installation and testing of any gas connection.

NOTE: The gas line connection can be made with properly tinned 3/8" copper tubing, 1/2" rigid pipe or an approved flex connector, then reduced to 3/8" to the appliance. Because some municipalities have some additional local codes, it is always best to consult your local authority.

U.S.A.: Consult the current National Fuel Gas Code, ANSI Z223.1

CANADA: CSA-B149.1 Installation Code.



Always check for gas leaks with a mild soap and water solution. Do not use an open flame for leak testing.

The gas control is equipped with a captured screw type pressure test point, therefore it is not necessary to provide a 1/8" test point up stream of the control.

When using copper or flex connector use only approved fittings. **Always provide a union** so the gas line can be easily disconnected for burner or fan servicing. See gas specification for pressure details and ratings.

NOTE: If flex connector is used, it must be kept inside of the appliance. (Fig. 6)

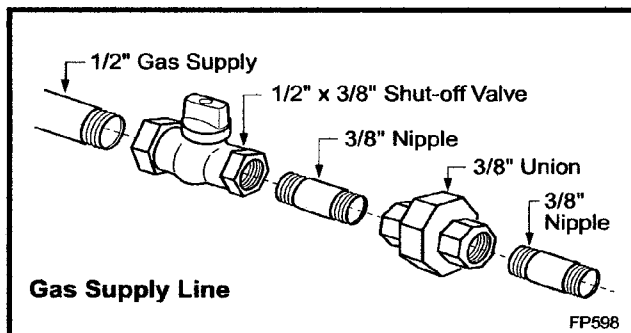


Fig. 6 Typical gas supply installation.

Remote Wall Switch

1. Thread wire through the electrical knockout located on side of unit. Run the other end to a conveniently located wall receptacle box. Ensure the wire is protected; do not cut wire or insulation on metal edges.

2. Attach wire to switch and install switch into receptacle box. Attach cover plate to switch.
3. Connect wiring to gas valve. Refer to Figure 7 or 8 and follow the appropriate diagram.



CAUTION: Do not wire millivolt remote wall switch for gas appliance to 120V power supply. For lighting instructions, refer to Page 13 or 14.

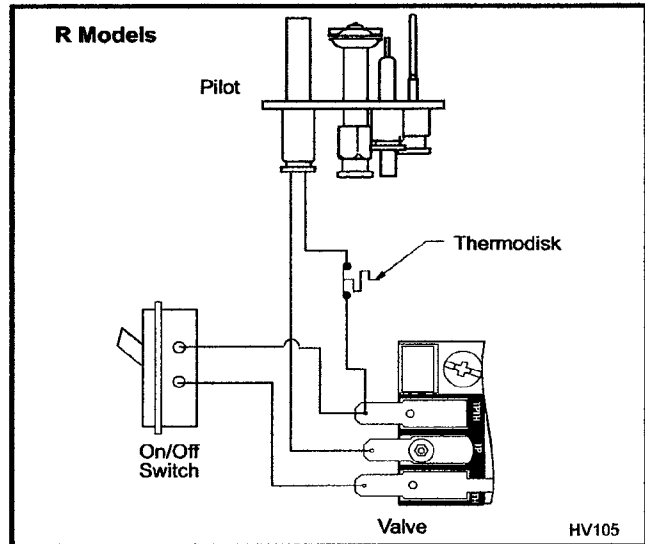


Fig. 7 Remote switch wiring for R-Models.

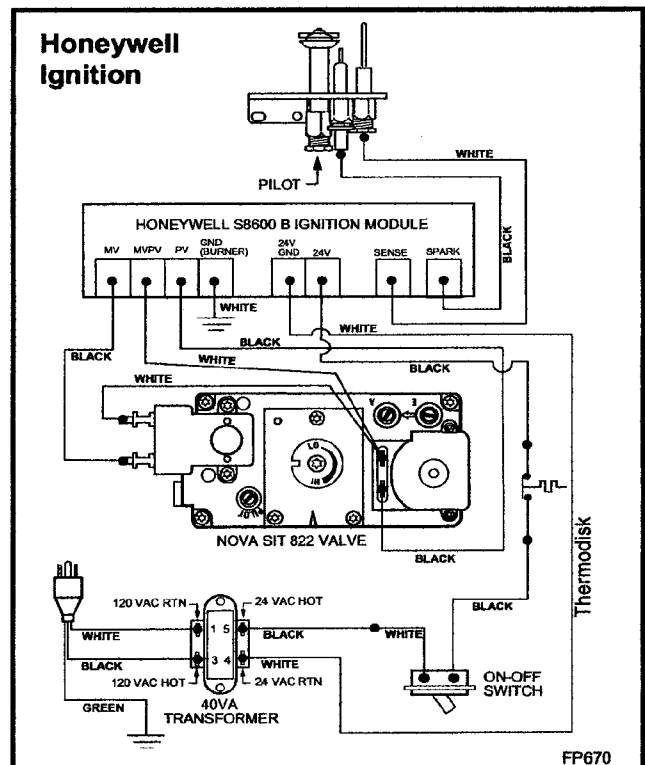


Fig. 8 Remote switch wiring for E-Models.

EB-1 Electrical Box



The fireplace, when installed, must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current CSA C22.1 Canadian Electrical Code.



For USA installations, follow local codes and the National Electrical Code, ANSI/ NFPA No. 70.



It is strongly suggested that the wiring of the EB-1 electrical junction box be carried out by a licensed electrician.



Ensure that the power to the supply line has been disconnected before commencing this procedure.

Once the fireplace is secured, complete wiring the fan kit. Remove knockout in the center of the back of the EB1 and install listed cable clamps. Feed electrical wire through cable clamp leaving approximately six (6) inches of wire exposed through the EB1. Secure cable clamp to the wire.

Attach white wire from power source to one (1) wire of receptacle and secure with a nut. Attach black wire from power source to the other wire of the receptacle and secure with a nut. Be sure nuts are tightened securely.

Secure the EB1 assembly to the inside of the electrical box coverplate using two (2) screws. Attach the cover to the face of the EB1 while being careful to position excess wire completely within the EB1. Attach the coverplate to the fireplace. (Fig. 9)

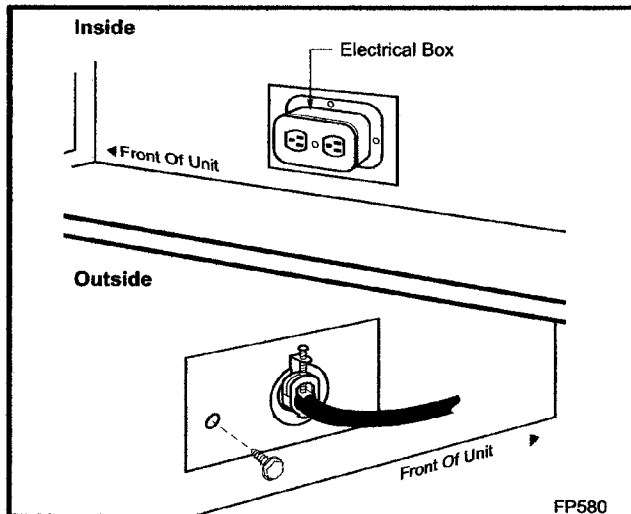


Fig. 9 Junction box (EB-1) hook-up.

Install the Venting System, Flashing, and Termination

See venting installation instructions provided by the B-Vent manufacturer.

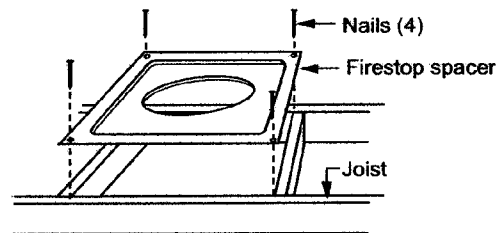
Refer to Page 4, Figure 1 to locate chimney centerline dimension from a combustible back wall.

- Minimum vertical chimney height — 12 feet (3.65m).
- Maximum vertical height — 40 feet (12m).
- Minimum height with two 90° elbows — 16 feet (4.06m)
- Elbow requirements allow a maximum of two 90 degree elbows or four 45 degree elbows per installation. (Two 45 degree elbows = One 90 degree elbow.) See venting chart for proper elbow offset runs. Use Figure 11 for all NVCVR installations and NVSTR installations when not installing 36GSKBB Single Panel Glass Door. Use Figure 12 for NVSTR installations when using 36GSKBB Single Panel Glass door.

For firestop positioning, refer to Figure 10. Only one (1) firestop required per frame. **NOTE:** A firestop is not required at the roof.

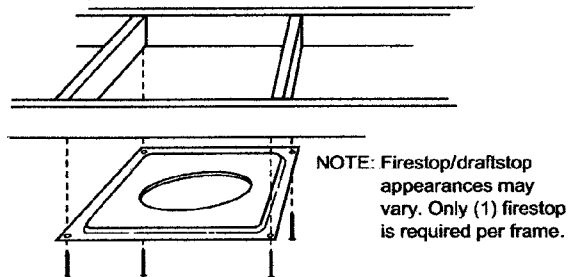
Attic Installation

Firestop position when area above ceiling is an attic.



Ceiling Installation

Firestop position when area above ceiling is NOT an attic.



FP384

Fig. 10 Firestop/ draftstop positions.

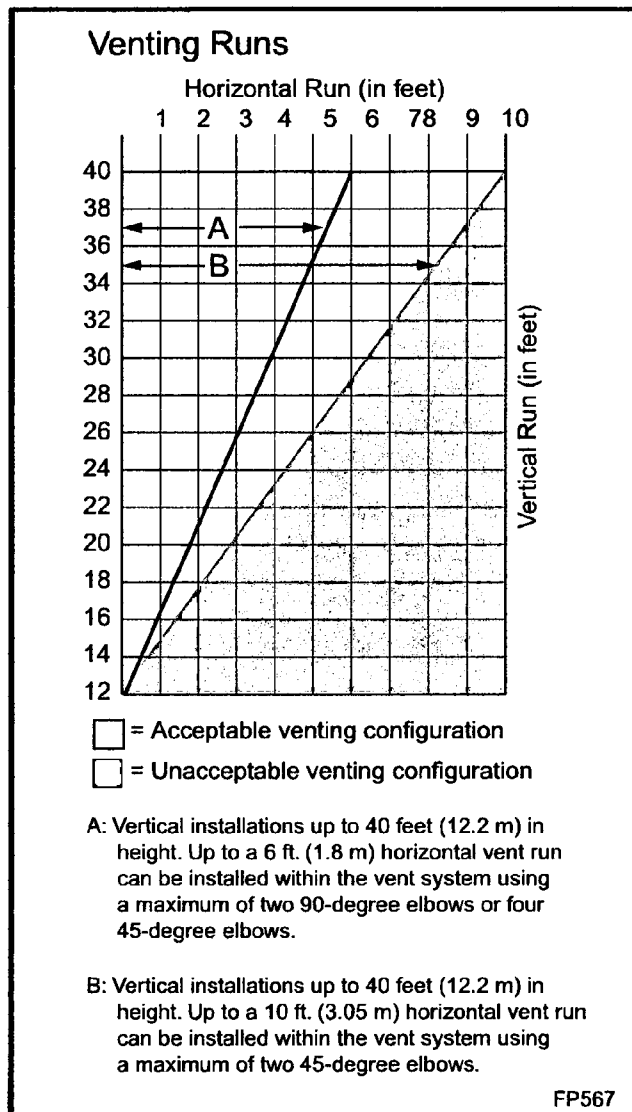


Fig. 11 Venting configurations.

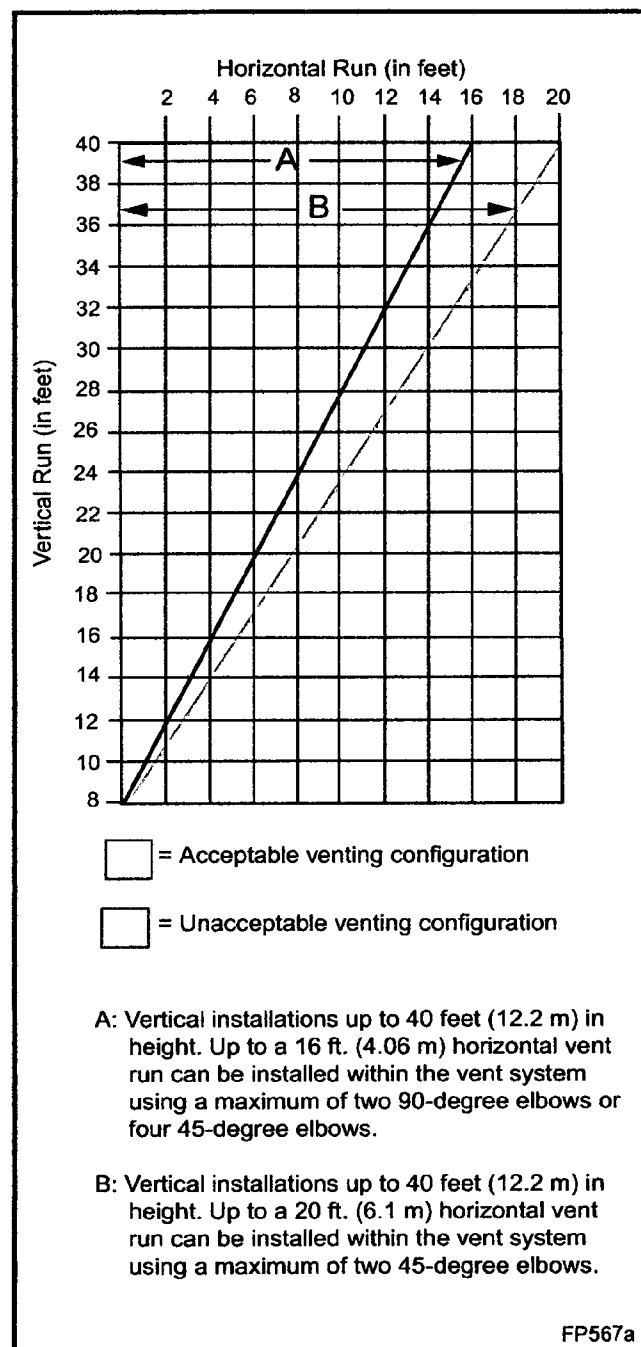


Fig. 12 Venting configurations when installing 36GSKBB.

Operating Instructions

Glass Information



Only glass approved for use in Majestic Fireplaces products may be used for replacement.

- Glass doors are optional. The appliance may be operated safely without glass doors.
- The use of any non-approved replacement glass will void all product warranties.
- Bi-fold glass doors **MUST BE** completely open or closed while the appliance is in operation.
- Care must be taken to avoid breakage of the glass.
- Under no circumstances should this appliance be operated with broken glass. Replacement of the glass as supplied by the manufacturer should be completed by a licensed qualified service person.
- Replacement glass is available through your Majestic Fireplaces dealer and should only be installed by a licensed qualified service person.

Glass Cleaning

It will be necessary to clean the glass periodically. During start-up, condensation, which is normal, forms on the inside of the glass and causes lint, dust and other airborne particles to cling to the glass surface. Also, initial paint curing may deposit a slight film on the glass. It is therefore recommended that the glass be cleaned two or three times with a non-ammonia household cleaner and warm water (we recommend gas fireplace glass cleaner). After that the glass should be cleaned two or three times during each heating season depending on the circumstances present.



Clean glass after first two weeks of operation.

Log Installation

1. Open glass door (if installed).
2. Remove logs from the packaging.



As with all plastic items, these logs are not toys and should be kept away from children and infants.

3. Place rear log on back bracket. Ensure that log is firmly positioned and there is no side-to-side movement.
4. Place the front log on the front bracket. Ensure that the log is firmly positioned and there is no side to side movement.

5. Place the four top logs onto the front and rear logs as shown in Figure 13. Ensure that the logs are secure on the tabs located on the front and rear logs.

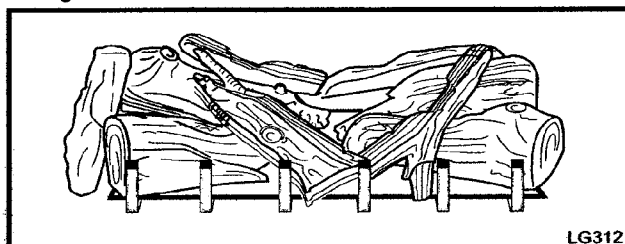


Fig. 13 NVSTR36/NVCVR36 log placement.

Ember Material Placement

Separate the ember material into small pieces—roughly 1/2" (13mm) diameter—and place on the bracket over the lower burner tubes. Do not pack down ember material; leave in loose, fluffy condition for the most realistic ember effect. (Fig. 14)

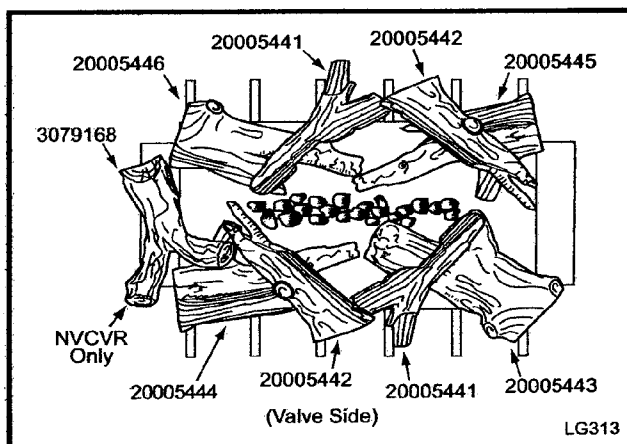


Fig. 14 Ember placement.

Lava Rock

The lava rock provided with this fireplace must be placed on the firebox base on either side of the burner assembly. Do not place lava rock in combustion pan.



Under no circumstances should lava rock be placed on any part of the burner assembly.

First Firing

Upon completing the gas line connection, a small amount of air will be trapped in the line. When first lighting the unit with pilot light, it will take a few minutes to purge the trapped air.

Once purging is complete, the pilot and burner will light and operate as indicated in the instruction manual. Subsequent lightings of the appliance will not require purging.

When lit for the first time, the appliance will emit a slight odor for an hour or two. This is due to paint and lubricants used in the manufacturing process.

After each lighting, vapor may condense and fog the glass; this moisture disappears in a few minutes of burning.

Flame Adjustment

For units equipped with Hi/Lo valves, flame adjustment is accomplished by rotating the Hi/Lo adjustment knob located near the center of the gas control.

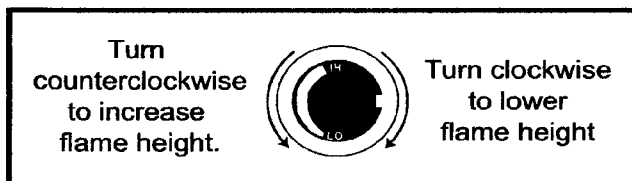


Fig. 15 Flame adjustment knob for SIT820 valve.

Flame Characteristics

It is important to periodically perform a visual check of the pilot and the burner flames. Compare them to the illustrations below (Figs. 16, 17). If any of the flames appear abnormal call a service person.

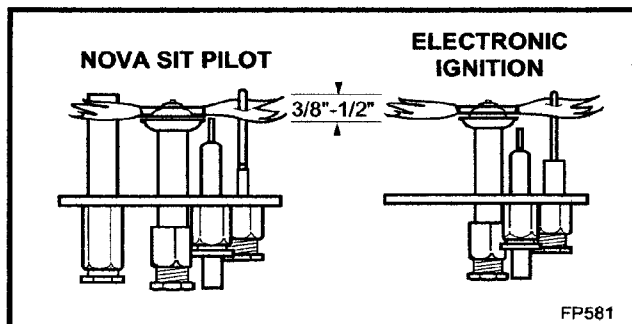
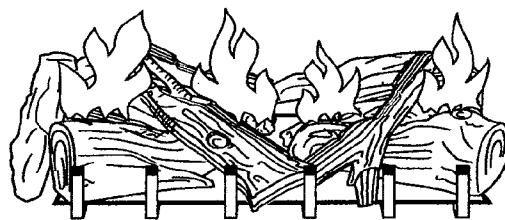


Fig. 16 Proper pilot flame height.

NVSTR36/ NVCVR36



LG314

Fig. 17 Approximate flame heights.

Inspecting the Venting System

The appliance venting system was designed and constructed to develop a positive flow adequate to remove flue gases to the outside atmosphere.

Any foreign objects in the venting system, except those designed specifically for the venting system, may cause spillage of flue gases (i.e.: carbon monoxide) into the room.

To inspect the venting system, make sure the main gas valve is off. Remove the glass panel. Using a flashlight, check the combustion dome and behind the top grille. Clean if necessary.

Lighting and Operating Instructions

FOR YOUR SAFETY, READ BEFORE LIGHTING

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

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

WHAT TO DO IF YOU SMELL GAS

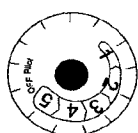
- Do not try to light any fireplace.
- Do not touch any electric switch.
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.

- If you cannot reach your gas supplier, call the Fire Department.

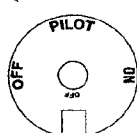
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Applying force or any attempted repair may result in a fire or explosion.
- D. Do not use this fireplace if any part 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.

Lighting Instructions

1. **STOP!** Read the safety information above.
2. Turn off all electrical power to the fireplace.
3. For MN/MP/TN/TP appliances ONLY, go on to Step 4. For RN/RP appliances turn the On/Off switch to "OFF" position or set thermostat to lowest level.
4. Open control access panel.
5. Push in gas control knob slightly and turn clockwise to "OFF".



Euro SIT



SIT NOVA

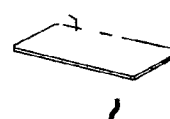
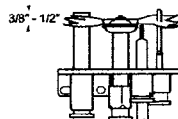


Honeywell

6. 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. If you do not smell gas, go to the next step.
7. Remove glass door before lighting pilot. (See Glass Frame Removal section).
8. Visibly locate pilot by the main burner.
9. Turn knob on gas control counter-clockwise to "PILOT".

10. Push the control knob all the way in and hold. Immediately light the pilot by repeatedly depressing the piezo spark igniter until a flame appears. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.

- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.



- If after several tries, the pilot will not stay lit, turn the gas control knob to "OFF" and call your service technician or gas supplier.

11. Replace glass door.
12. Turn gas control knob to "ON" position.
13. For RN/RP appliances turn the On/Off switch to "ON" position or set thermostat to desired setting.
14. Turn on all electrical power to the fireplace.

To Turn Off Gas to Heater

1. Turn the On/Off switch to Off position or set the thermostat to lowest setting.
2. Turn off all electric power to the fireplace if service is to be performed.
3. Open louvre assembly bottom.
4. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.
5. Close control access panel.

Lighting and Operating Instructions

For Fireplaces equipped with SIT822 Gas Valve (EN or EP)

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

FOR YOUR SAFETY READ THE FOLLOWING WARNINGS BEFORE LIGHTING THE APPLIANCE

A. This fireplace is equipped with an ignition device which automatically lights the pilot. **DO NOT** try to light the pilot by hand.

B. **BEFORE OPERATING**, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than the air and will settle on the floor.

What to do if you smell gas

- Do not try to light any appliance
- Do not operate any electrical switch.
- Do not use any phone in your building.

- Immediately call your gas supplier from a neighbor's phone.

Follow the gas suppliers instructions.

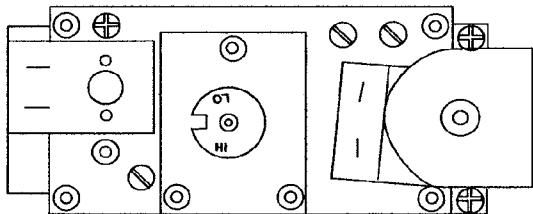
- If you cannot contact your gas supplier call the Fire Department

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand do not try to repair it, call a qualified service technician. Force or attempting 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 replace any part of the control system and any gas control that

Lighting Instructions

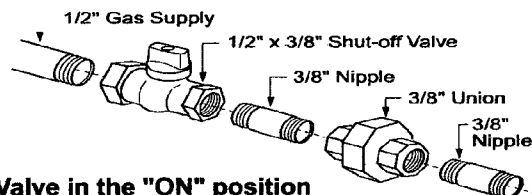
1. **STOP!** Read the safety information above before continuing.
2. Turn off all electrical power to the appliance.
3. This appliance is equipped with an ignition device which automatically lights the pilot. **DO NOT** try to light the pilot by hand.
4. Access the gas control by lowering the lower access door (louvre assembly).



5. Turn the remote switch, if used, OFF. Turn the wireless remote, if used, OFF.
6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas STOP. Follow instructions B in the safety warnings above. If you do not smell gas go onto the next step.
7. Close the access door.
8. Turn ON all electrical power to the appliance.
9. Turn remote switch or wireless remote to "ON".
10. If the appliance will not operate, follow the instructions TURNING OFF THE GAS TO THE APPLIANCE and call your service technician or gas supplier.

Turning Off the Gas to the Appliance

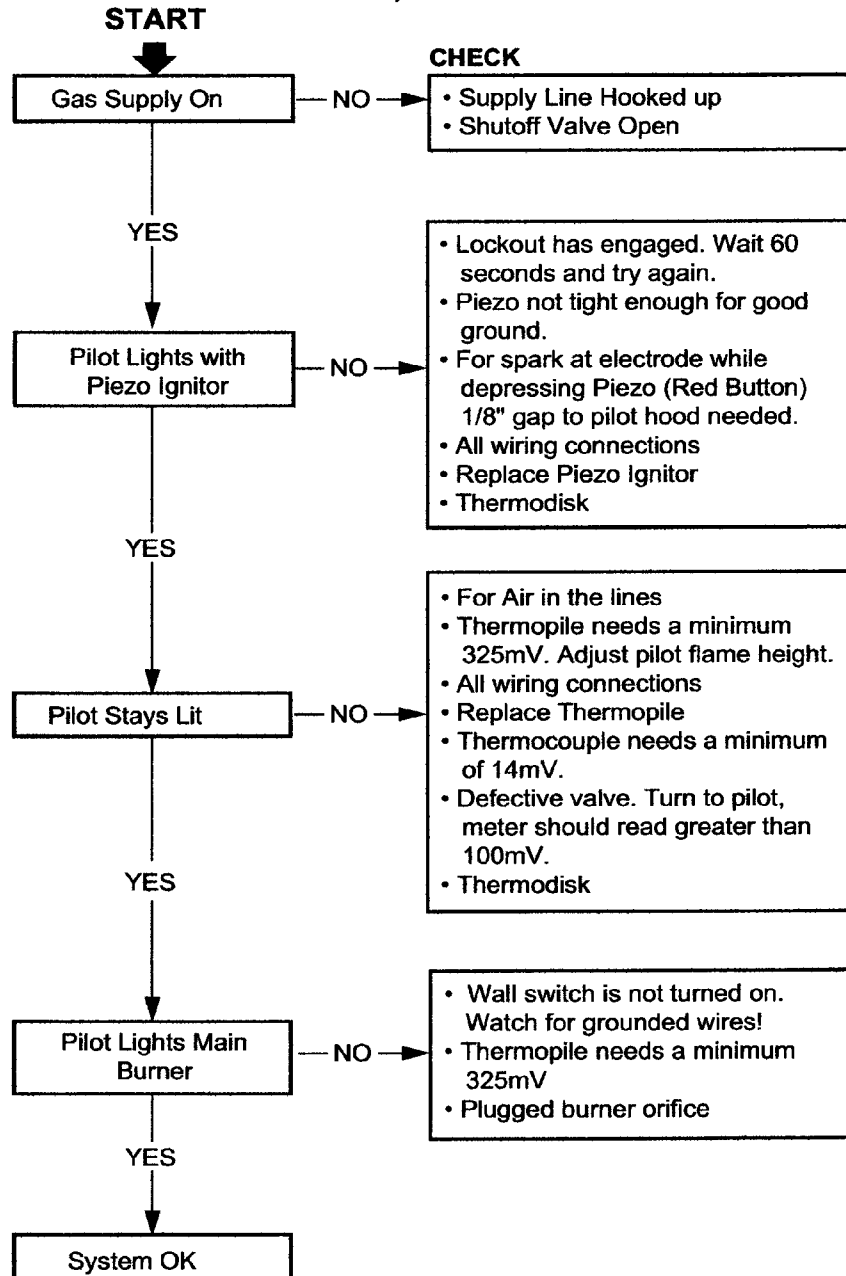
1. Turn the remote switch to the "OFF" position.
2. Turn OFF all electrical power to the fireplace if service is required.
3. Open the lower access panel.
4. Turn the shut-off valve on the flexible gas line to the "OFF" position.



Valve in the "ON" position

Troubleshooting

Nova SIT 820 Standing Pilot



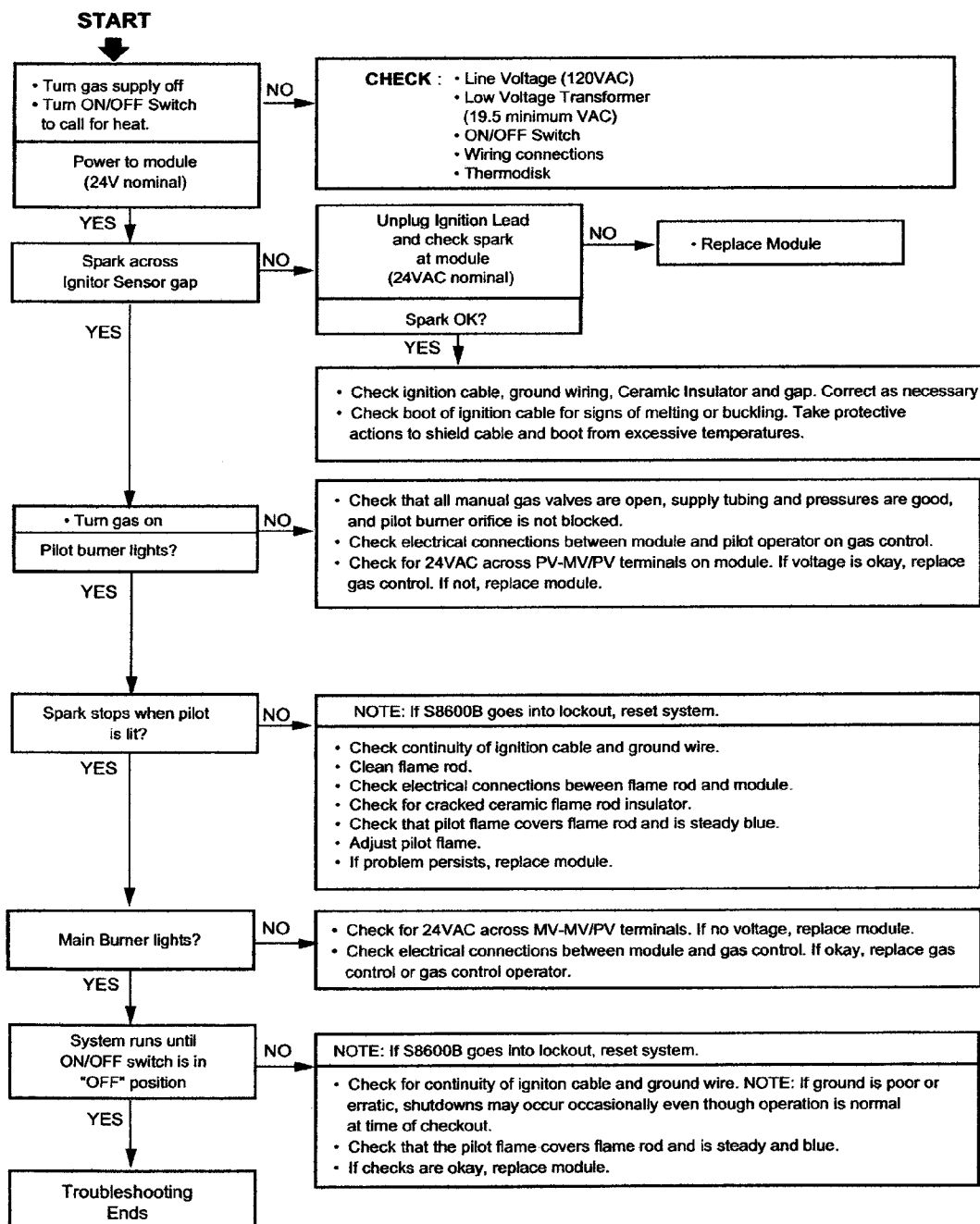
FP396

Troubleshooting

NOVA SIT 822 w/ Honeywell S8600 B Electronic Ignition



Remove glass panel before servicing.



FP649

Maintenance

Keep the control compartment, logs and burner area surrounding the logs clean by vacuuming or brushing at least twice a year. **THE LOGS CAN GET VERY HOT — HANDLE ONLY WHEN COOL.**

Always turn off gas to the pilot before cleaning. For relighting, refer to lighting instructions located on the front cover plate.

Never obstruct the flow of combustion and ventilation air. Keep the front of the appliance clear of all obstacles and materials.

Leave at least 36" clearance from front of appliance to combustibles.

Cleaning the Standing Pilot Control System

The burner and control system consists of:

- main burner
- gas orifice
- pilot burner
- thermopile
- combination millivolt gas valve

Most of these components may require only an occasional checkup and cleaning and some may require adjustment. If repair is necessary, it should be performed by a qualified technician.

In order to properly clean the burner and pilot assembly, turn off the gas to the unit, open the glass door (if used), remove logs exposing the burner and pilot assembly. Clean all foreign materials from the top of the burner. Check to make sure that burner parts are clean. Visually inspect pilot. Brush or blow away any dust or lint accumulation. If pilot orifice is plugged, disassembly may be required to remove any foreign material from the orifice or tubing.

To obtain proper operation, it is imperative that the pilot and burner's flame characteristics are steady, not lifting or floating.

Typically, the top 3/8" or 1/2" of the thermopile should be engulfed in the pilot flame. (Page 12, Fig. 16)

To adjust pilot burner, adjust pilot screw marked "pilot" for proper size:

1. Remove pilot adjustment cap.
2. Adjust pilot screw to provide properly sized flame.
3. Replace pilot adjustment cap.

The air shutter is set at factory; no adjustment should be necessary.

Cleaning Automatic Direct Electronic Ignition System

The Electronic Ignition burner/ control system consists of:

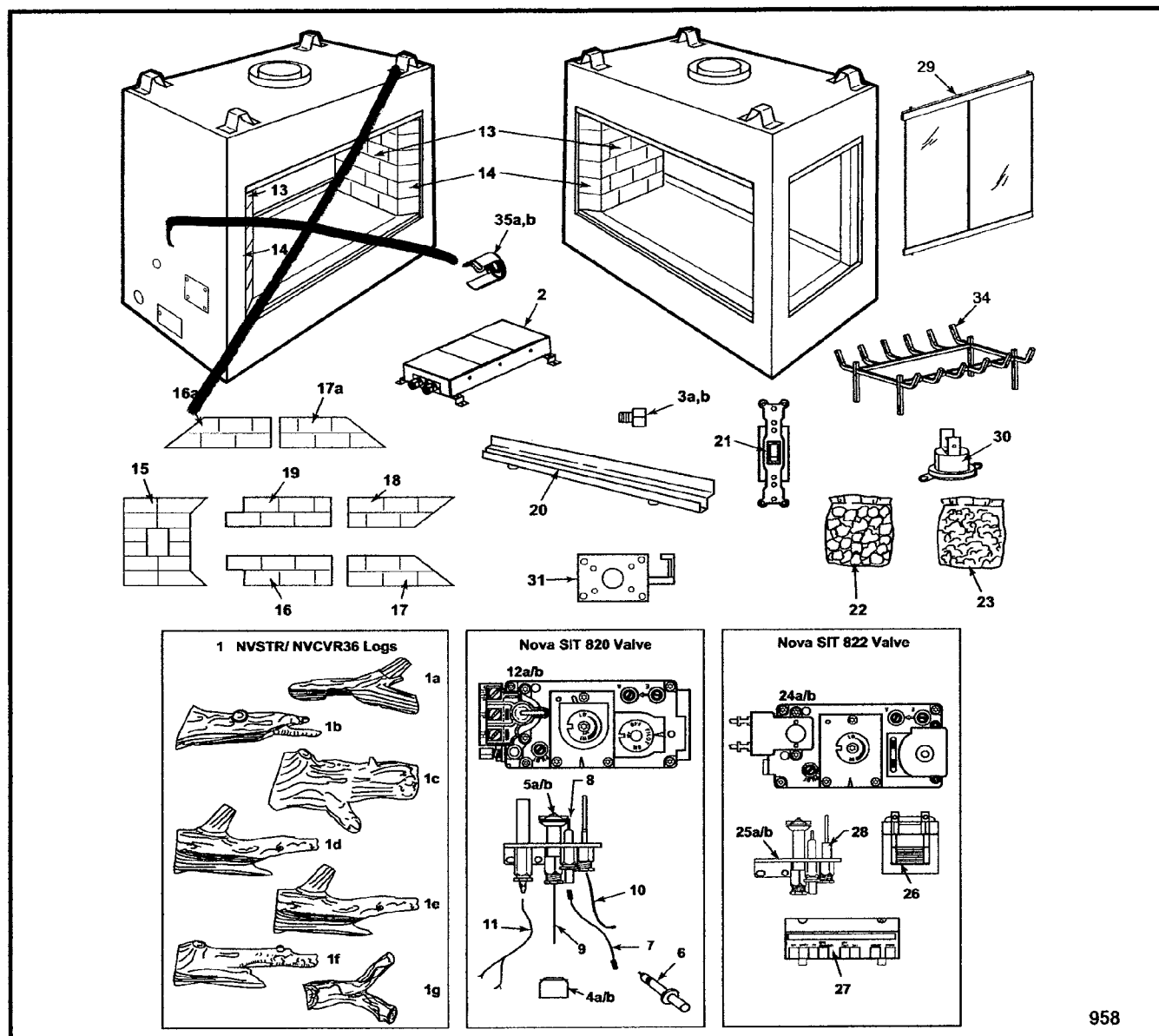
- main burner
- gas orifice
- hot surface pilot burner
- 24VAC valve with transformer

Taking care of the Electronic Ignition units is almost identical to taking care of the Standing Pilot models. (See the Maintenance section on page 16.)

The hot surface ignitor is the only component which requires **EXTREMELY DELICATE HANDLING**. The ignitor is made of silicone carbide which is a very brittle material.



Do not touch the heating part of the ignitor with your fingers.



958

CFM Specialty Home Products reserves the right to make changes in design, materials, specifications, prices and discontinue colors and products at any time, without notice.

NVSTR/CVR (F34)

Ref.	Description	Part Number
1.	Complete Log Set	20005477
1a.	Log, Lt Front/ Rt Rear Cross Log	20005441
1b.	Log, Rt Front/ Lt Rear Cross Log	20005442
1c.	Log, Left Rear Log	20005443
1d.	Log, Right Rear Log	20005444
1e.	Log, Left Front Log	20005445
1f.	Log, Right Front Log	20005446
1g.	Log, End (used for NVCVR only)	3079168

NVSTR/ CVR (F34) (continued)

Ref.	Description	Part Number	
2.	Burner - Natural/ LP	20005351	
3a.	Burner Orifice - Natural	20005480	
3b.	Burner Orifice - LP	20005481	
4a.	Orifice, Pilot, #62 Top Conv.	10002268	
4b.	Orifice, Pilot, #35 Top Conv.	10002269	
5a.	Pilot Assembly 3-way N/DV RN Top Conv.	10002264	
5b.	Pilot Assembly 3-way N/DV RP Top Conv.	10002265	
6.	Piezo Ignitor	52464	
7.	Cable Ignitor	53194	
8.	Electrode Ignitor Nova	52465	
9.	Pilot Tubing	7549333	
10.	Thermocouple, 24"	53373	
11.	Thermopile, 24"	51827	
12a.	Valve Nova, NG SIT 0.820.652	7529141	
12b.	Valve Nova, LP SIT 0.820.651	7529142	
13.	Side Brick	3079147	
		NVSTR	NVCVR
14.	Corner Brick	3079148	3079148
15.	Ceramic Panel, End	—	3080123
16.	Ceramic Panel, Left	—	3080122
16a.	Ceramic Panel, Left	3079139	—
17.	Ceramic Panel, Right	—	3080121
17a.	Ceramic Panel, Right	3079138	—
18.	Ceramic Panel	—	3080125
19.	Ceramic Panel	—	3080124
20.	Door Track, Black	3061102	
	Door Track, Brass	3067102	
21.	Remote Switch Kit	53875	
22.	Lava Rock Package	55255	
23.	Bag of Embers	7060109	
24a.	Valve Nova, EN SIT 0.822.632, 24 V/ 60 Hz	57884	
24b.	Valve Nova, EP SIT 0.822.631, 24 V/ 60 Hz	57883	
25a.	Pilot Assembly 3-way N/DV RN Top Conv.	10002387	
25b.	Pilot Assembly 3-way N/DV RP Top Conv.	10002388	
26.	Transformer	7522409	
27.	Ignition Device/ Honeywell	20000005	
28.	Sensing Electrode	57885	
29.	End Panel	3080145	
30.	Thermodisk (F33 Only)	20001558	
31.	O.S.A. Assy. (F32 & F33 Only)	20003212	
32.	Conversion Kit, Natural	20005458	
33.	Conversion Kit, LP	20005457	
34.	Grate	10002323	
35a.	Air Shutter, Natural	20000129	
35b.	Air Shutter, LP	20000680	

NVSTR/ NVCVR Series Gas Fireplaces

Contact CFM Specialty Home Products for questions concerning prices and policies covering replacement parts. Parts may be ordered through your Majestic Fireplaces distributor or dealer.

You will need the following information when ordering replacement parts:

1. The appliance model number.
2. The serial number.
3. A description of the part.

Should you need additional information beyond what your dealer can furnish, contact:

CFM Specialty Home Products
410 Admiral Blvd.
Mississauga, Ontario
Canada L5T 2N6
Attn: Manager of Customer Service

Model and serial numbers are listed on the rating plate (located on right side of combustion chamber).

Record your model and serial numbers here for future reference:

Model # _____

Serial # _____

Accessories

Glass Doors

B-fold and single panel glass doors are available to enhance the viewing of the fireplace.

Unit	Models	Description
NVSTR/CVR	36GSKBB	Brushed Brass Solid Glass Panel
NVSTR/CVR	36GDKBB	Brushed Brass Bi-fold
NVSTR/CVR	36GDKBK	Black Bi-fold
NVSTR/CVR	36GDKDP	Polished Brass Bi-fold
NVSTR/CVR	36GDKS	Pewter Bi-fold
NVCVR	36EPKBK	Black End Panel Extrusion Kit
NVCVR	36EPKDP	Polished Brass End Panel Extrusion Kit
NVCVR	36EPKS	Pewter End Panel Extrusion Kit

Outside Air Kit

The Model AK-MST Outside Air Kit is designed to bring additional combustion air directly from the outside to the fireplace. Refer to installation instructions provided with the Outside Air Kit.

Thermal Vent Damper

Installing the TVD6/7 Thermal Vent Damper reduces cold air infiltration when fireplace is not in use by opening and closing automatically.

Attach the thermal vent damper to the combustion dome with 2 screws. Be sure the tab points down. (Fig. 18)

Start the appliance and operate it for approximately 5 minutes. Turn the unit off and check if the vent damper is in the open position (blades down from the horizontal position). If the damper has not opened, check installation.

NOTE: Not for use in Canada.

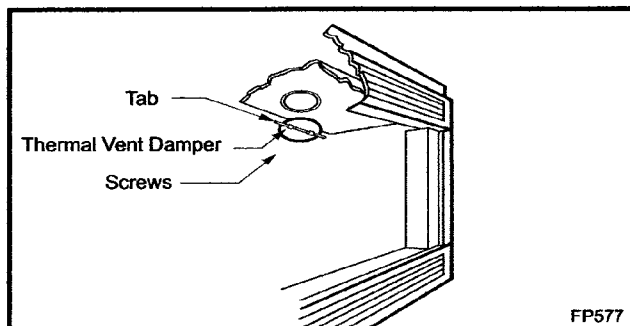


Fig. 18 Attach the thermal vent damper.

Remote Controls

Optional remote control units are available to control different functions of the appliance.

Model	Function/s Controlled
MRC1	"ON/OFF"
MRC2	"ON/OFF" and Temperature
MRC3	"ON/OFF" and Temperature control with a digital and a programmable 24 hour clock

LIMITED LIFETIME WARRANTY

PRODUCT COVERED BY THIS WARRANTY

All Vermont Castings gas stoves, gas inserts, and gas fireplaces, and all Majestic or Northern Flame brand gas fireplaces equipped with an Insta-Flame Ceramic Burner, or standard steel tube burner.

BASIC WARRANTY

CFM Specialty Home Products (hereinafter referred to collectively as the Company) warrants that your new Vermont Castings or Majestic Gas Fireplace/Stove is free from manufacturing and material defects for a period of one year from the date of purchase, subject to the following conditions and limitations.

EXTENDED LIFETIME WARRANTY

The heat exchanger, where applicable, and combustion chamber of every Vermont Castings or Majestic gas product is warranted for life against through wall perforation. All appliances equipped with an Insta-Flame Ceramic Burner have limited lifetime coverage on the ceramic burner plaque. Warranties are made to the original owner subject to proof of purchase and the conditions and limitations listed on this Warranty Document

COMPONENT WARRANTY

CAST IRON: All external and internal cast iron parts are warranted for a period of three years.

Note: On porcelain enamel finished external parts and accessories The Company offers no Warranty on chipping of enamel surfaces. Inspect all product prior to accepting it for any damage to the enamel.

The salt air environment of coastal areas or a high humidity environment can be corrosive to the porcelain enamel finish. These conditions can cause rusting of the cast iron beneath the porcelain enamel finish, which will cause the finish to flake off.

Dye lot variations with replacement parts and/or accessories can occur and are not covered by warranty.

GLASS DOORS: Glass doors are covered for a period of one year. Glass doors are not warranted for breakage due to misuse or accident. Glass doors are not covered for discoloration or burned in stains due to environmental issues, or improper cleaning and maintenance.

BRASS PLATED PARTS AND ACCESSORIES: Brass parts should be cleaned with Lemon oil only. Brass cleaners cannot be used. Mortar mix and masonry cleaners may corrode the brass finish. The Company will not be responsible for, nor will it warrant any brass parts which are damaged by external chemicals or down draft conditions.

GAS VALVES: Gas valves are covered for a period of one year

ELECTRONIC AND MECHANICAL COMPONENTS: Electronic and mechanical components of the burner assembly are covered for one year. All steel tube burners are warranted for one year.

ACCESSORIES: Unless otherwise noted all components and CFM Specialty Home Products company supplied accessories are covered for a period of one year.

CONDITIONS AND LIMITATIONS

- This new Vermont Castings or Majestic product must be installed by a competent, authorized, service contractor. A licensed technician, as prescribed by the local jurisdiction must perform any installation/service work. It must be installed and operated at all times in accordance with the Installation and Operating instructions furnished with the product. Any alteration, willful abuse, accident, or misuse of the product shall nullify this warranty.
- This warranty is non-transferable, and is made to the original owner, provided that the purchase was made through an authorized supplier of the Company.
- The customer must pay for any Authorized Dealer in-home travel fees or service charges for in-home repair work. It is the dealers option whether the repair work will be done in the customer's home or in the dealer's shop.
- If upon inspection, the damage is found to be the fault of the manufacturer, repairs will be authorized at no charge to the customer parts and/or labor.

- Any part and/or component replaced under the provisions of this warranty is covered for six months or the remainder of the original warranty, whichever is longest.
- This warranty is limited to the repair of or replacement of part(s) found to be defective in material or workmanship, provided that such part(s) have been subjected to normal conditions of use and service, after said defect is confirmed by the Company's inspection.
- The company may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of the defective part(s)
- Any installation, labor, construction, transportation, or other related costs/expenses arising from defective part(s), repair, replacement, or otherwise of same, will not be covered by this warranty, nor shall the Company assume responsibility for same. Further, the Company will not be responsible for any incidental, indirect, or consequential damages except as provided by law.
- *SOME STATES DO NOT ALLOW FOR THE EXCLUSION OR LIMITATIONS OF INCIDENTAL AND CONSEQUENTIAL DAMAGES OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOUR CIRCUMSTANCES. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.*
- All other warranties-expressed or implied- with respect to the product, its components and accessories, or any obligations/liabilities on the part of the Company are hereby expressly excluded.
- The Company neither assumes, nor authorizes any third party to assume on its behalf, any other liabilities with respect to the sale of this Vermont Castings or Majestic product
- The warranties as outlined within this document do not apply to chimney components or other non CFM Specialty Home Products accessories used in conjunction with the installation of this product..
- Damage to the unit while in transit is not covered by this warranty but is subject to claim against the common carrier. Contact the dealer from whom you purchased your fireplace/stove (do not operate the appliance as this might negate the ability to process the claim with the carrier).
- The Company will not be responsible for:
 - a) Down drafts or spillage caused by environmental conditions such as near-by trees, buildings, roof tops, hills, or mountains.
 - b) Inadequate ventilation or negative air pressure caused by mechanical systems such as furnaces, fans, clothes dryers, etc.
- This warranty is void if:
 - a) The fireplace has been operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals.
 - b) The fireplace has been subjected to prolonged periods of dampness or condensation
 - c) Any damages to the fireplace, combustion chamber, heat exchanger or other components due to water, or weather damage, which is the result of but not limited to, improper chimney/venting installation.
 - d) Any alteration, willful abuse, accident, or misuse of the product has occurred.

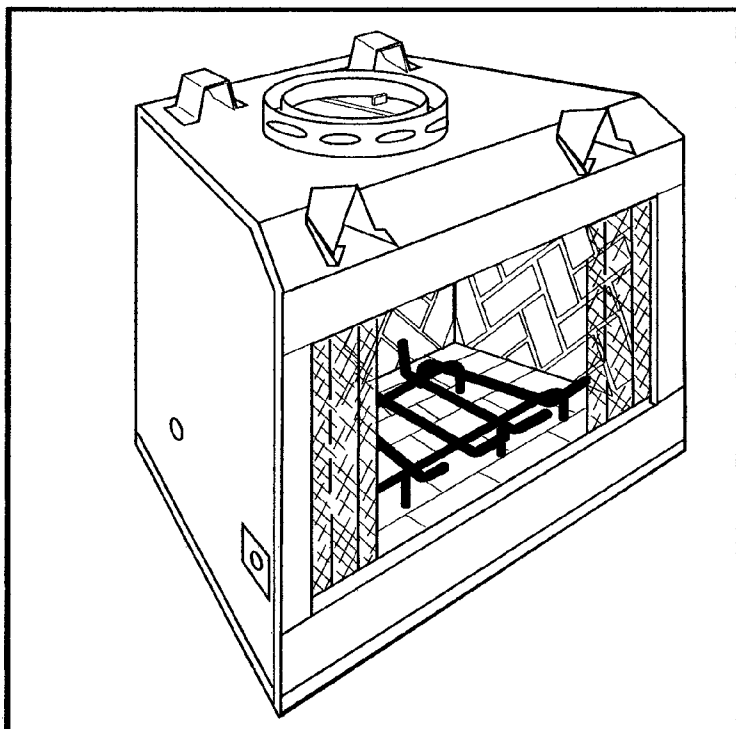
IF WARRANTY SERVICE IS NEEDED...

- 1) Contact your supplier. Make sure you have your warranty, your sales receipt, and the model/serial number of your CFM Specialty Home Products product.
- 2) DO NOT ATTEMPT TO DO ANY SERVICE WORK YOURSELF.



SHR Series

Woodburning Fireplace



Homeowner's Installation and Operating Manual

For Models:

SHR36

SHR42A

SHR48

SHR52

Great Room



Underwriter's Laboratories Report No. MH6018



We recommend that our woodburning hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Woodburning Specialists or who are certified in Canada by Wood Energy Technical Training (WETT).



DO NOT DISCARD THIS MANUAL: Retain for future use.

20001384 3/06 Rev. 16

Safety Information

PLEASE READ THIS MANUAL BEFORE INSTALLING AND USING FIREPLACE.

IMPORTANT: Read all instructions and warnings carefully before starting installation. Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

Description

The SHR Series fireplaces are solid fuel, woodburning fireplaces. The SHR36/42A/48 (Super Hearth) are clean-face fireplaces.

Precautions

CFM Corporation fireplaces and component parts have been highly tested and will operate safely when installed in accordance with instructions provided in this manual. Carefully read and understand all instructions before beginning installation.

If you notice any damage to fireplace or component parts, immediately report damage to your Majestic Fireplaces dealer.

Only use CFM Corporation components or the warranty will be voided and a fire hazard may be created.

CFM Corporation warranty will be voided by and CFM Corporation disclaims any responsibility for the following actions:

- **Installation of any damaged fireplace or chimney component;**
- **Modification of fireplace, chimney assembly or any component parts thereof; (except for chase flashings as detailed in the Chimney Top installation instructions).**
- **Installation other than as instructed by CFM Corporation; or**
- **Installation and/or use of any component part not manufactured or approved by CFM Corporation in combination or assembly with a CFM Corporation fireplace system, notwithstanding any independent testing laboratory or other third party approval of such component parts or accessory.**

Any such action may possibly cause a fire hazard.

Consult local building codes to ensure that you are in compliance **before** installing the fireplace.

Fireplaces must be vented to the out-of-doors.

Do not obstruct or modify air inlets/outlets in any manner.

Do not install combustible materials on any of the black fireplace surround.

Burn only solid wood fuel or gas logs.

Do not install a solid fuel burning insert or other products not specified for use with this fireplace.

Proposition 65 Warning: Fuels used in gas, woodburning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

California Health & Safety Code Sec. 25249.6

WARNING: Check with your electronics manufacturer before installing a television or other electronic device above this fireplace.

Drafts

The fireplace should not be located in areas that create drafts (ie: frequently opened doors and central heating air inlets/outlets) that hamper the normal flow of air into the fire.

Gas Logs

If you plan to install a gas log, the gas line should be installed before framing the fireplace. The gas line must be installed by a certified gas line installer.

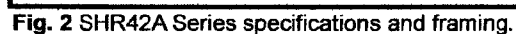
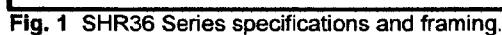
SHR36 / SHR42A / SHR48 / SHR52 Listed

UL 127 / ULC-S610
Standard for Factory Built Fireplaces

SHR36 units: FH30R0
SHR42A units: GH40R0
SHR48 units: HH30R0
SHR52 units: IH10R0

Table of Contents

Safety Information	2
Specifications and Framing	3
Parts Identification	5
Chimney Requirements	6
Planning Information	7
Installation	8
Replacement Parts	20
Accessories	21



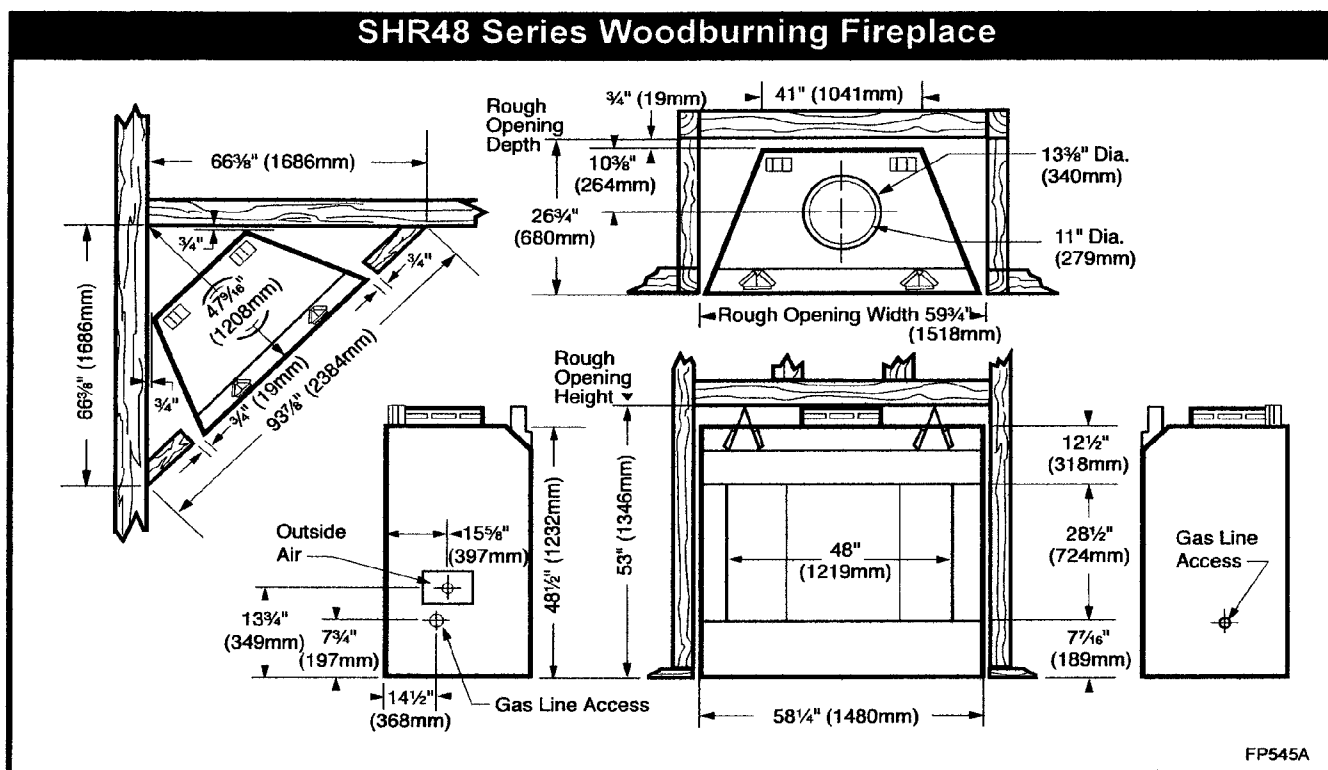


Fig. 3 SHR48 Series specifications and framing.

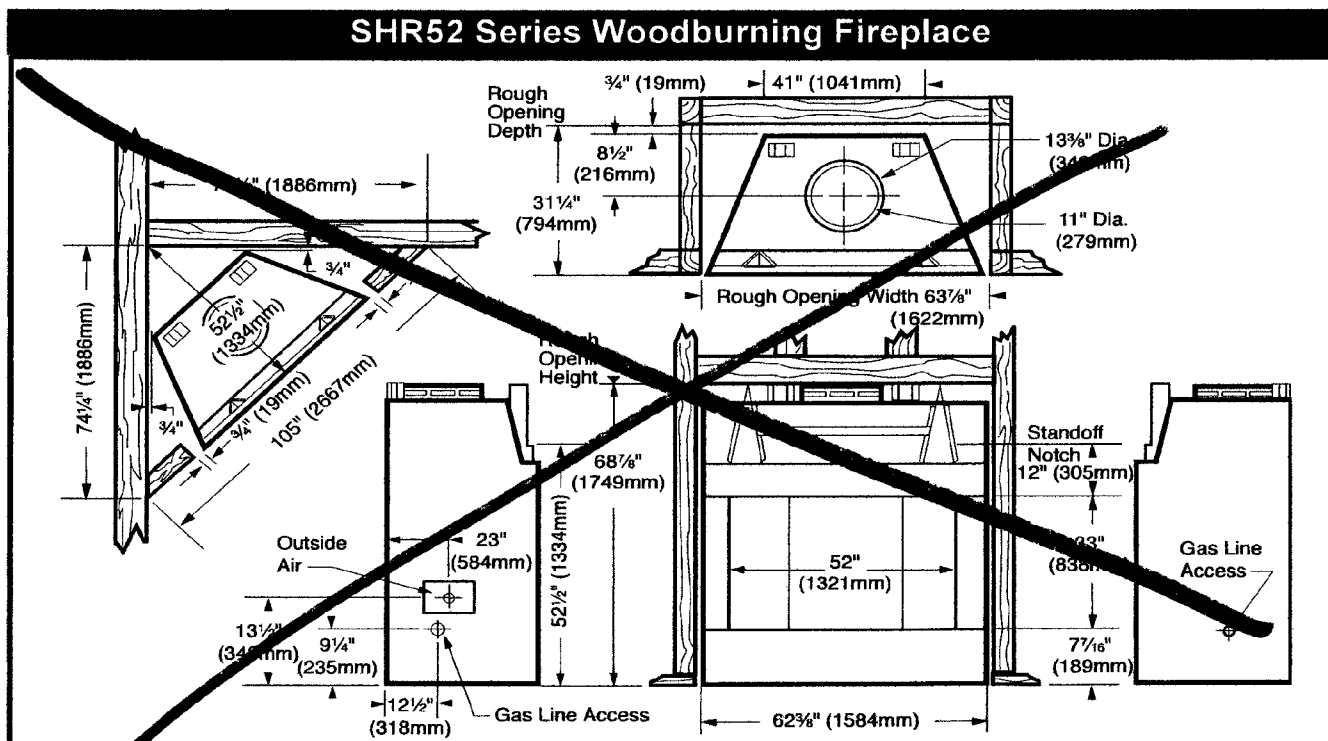


Fig. 4 SHR52 Series specifications and framing.

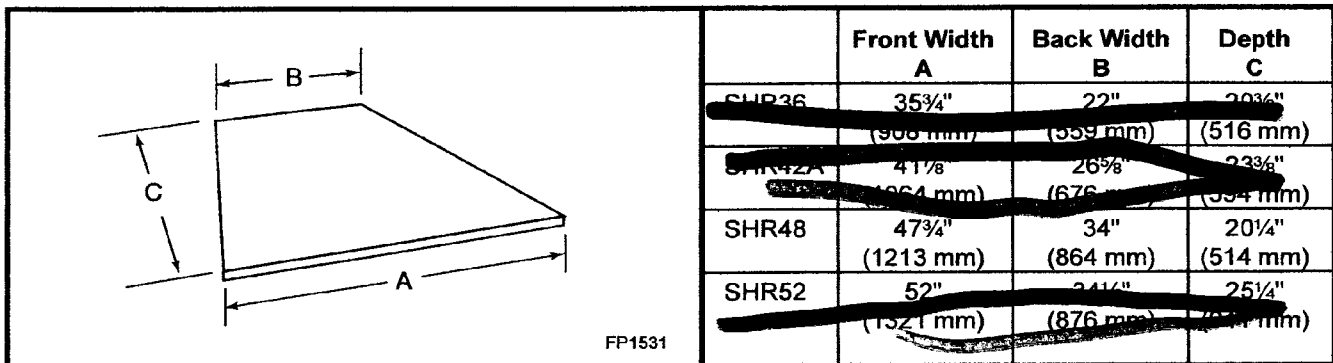
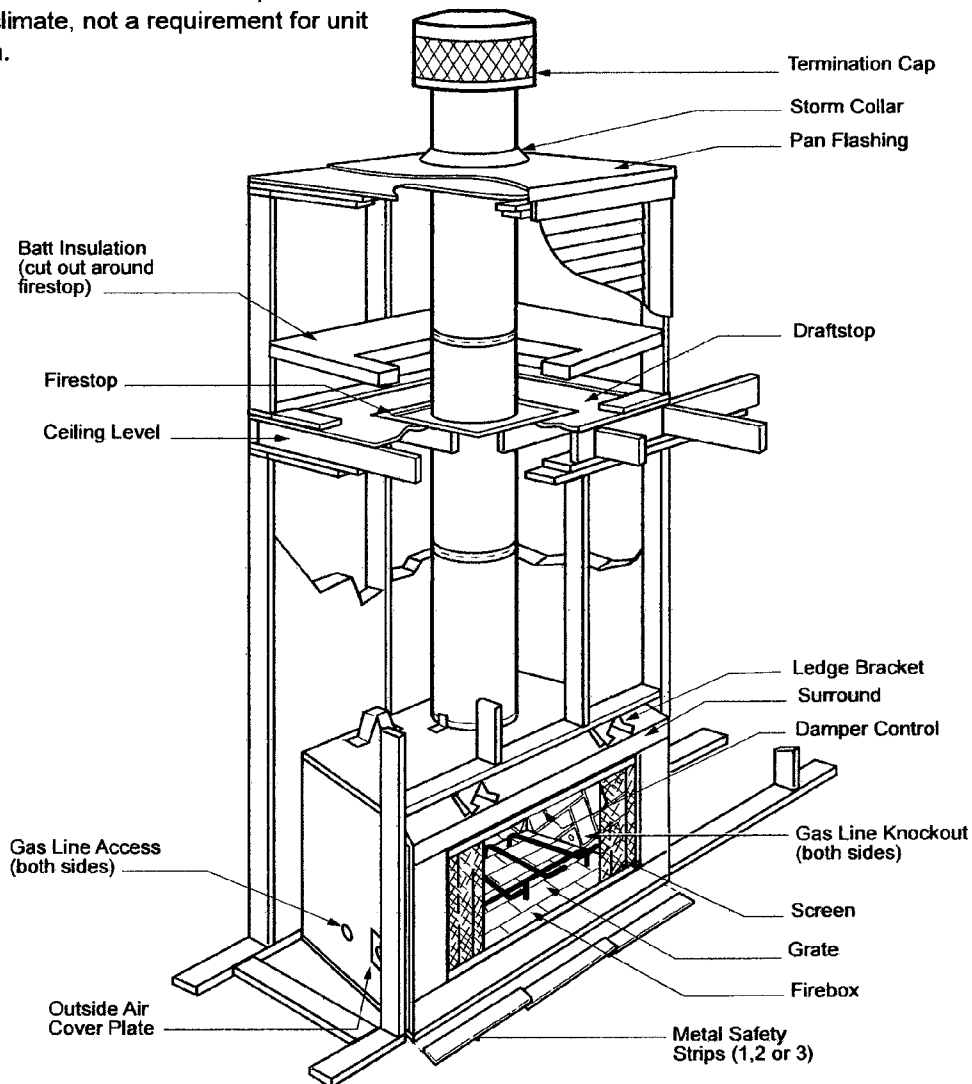


Fig. 4a Hearth dimensions.

Chase Installation

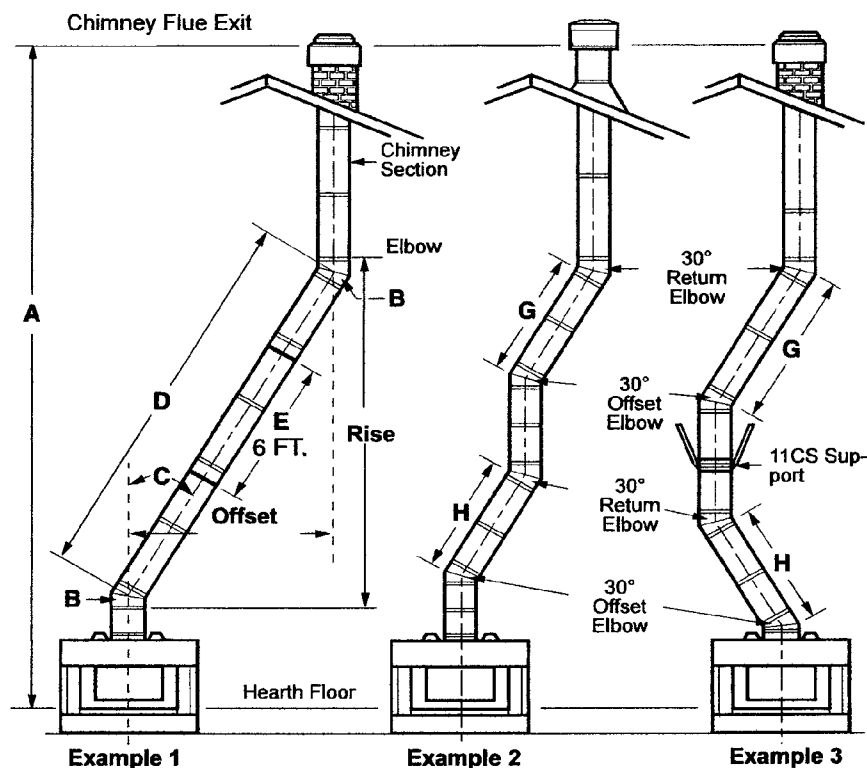
Insulation methods shown are optional for cold climate, not a requirement for unit operation.



FP554A

Fig. 5 Fireplace and chase parts identification. (SHR48 shown)

Chimney Requirements - Offset Installations



Notes: G + H cannot exceed 20 feet.
 *11CF Chimney airspace clearance = 2" minimum.

FP269

Illustration Key

The following safety rules apply to offset installations (letters correspond with illustration above):

A. Height of the chimney is measured from the hearth to the chimney exit.

	SHR36	SHR42A	SHR48	SHR52
Max.:	90'	90'	90'	90'
Min.:				
0 Elbows	14'6"	14'6"	16'0"	16'0"
2 Elbows*	15'6"	15'6"	19'0"	19'0"
4 Elbows*	21'0"	21'0"	24'0"	24'0"

B. Do not use more than 4 elbows per chimney.

Attach the straps of the return (top) elbow to a structural framing member.

The offset (first) elbow of any pair does not have straps.

C. The chimney cannot be more than 30" from the vertical plane in any installation.

D. The maximum length of the angled run of the **total** chimney system is 20 feet. (G plus H cannot exceed 20 feet.)

E. A chimney support (Model 11CS) is required every 6 feet of angled run of chimney. Chimney supports are required for every 30 feet and 60 feet chimney height above the hearth.

Determine the offset distance of your chimney arrangement from the centerline of the fireplace to the centerline of the chimney where it is to pass through the first ceiling.

NOTE: This offset distance may not be your full offset distance. See Examples 2 and 3.

30° Elbow Offsets

1'	1½'	3'	4'	Chimney Support	Offset	Rise
0	0	0	0	0	3"	11"
1	0	0	0	0	8¼"	20"
0	1	0	0	0	11¼"	25½"
2	0	0	0	0	13½"	29¼"
1	1	0	0	0	16½"	34¼"
0	0	1	0	0	20¼"	40¾"
2	1	0	0	0	21¾"	43½"
0	0	0	1	0	26¼"	51¼"
0	1	1	0	0	28½"	55½"
1	0	0	1	0	31½"	60¼"
0	1	0	1	0	34½"	65½"
0	0	2	0	0	37½"	70¾"
1	1	0	1	1	41½"	77¾"
0	0	1	1	1	45"	83¾"
0	1	2	0	1	47¼"	87½"
0	0	0	2	1	51"	94"
0	1	1	1	1	53¼"	98"
0	0	3	0	1	56¼"	103¼"
0	1	0	2	1	59¼"	108½"
0	0	2	1	1	62¼"	113½"
0	1	3	0	1	64½"	117½"
0	0	1	2	1	68¼"	124"
0	1	2	1	1	70½"	128"
0	0	0	3	1	74¼"	134½"
0	1	1	2	2	78"	140¾"
0	0	3	1	2	81"	146"
0	1	0	3	2	84"	151¼"
0	0	2	2	2	87"	156½"
0	1	3	1	2	89¼"	160¼"
0	0	1	3	2	93"	166¾"
0	1	2	2	2	95¼"	170¾"
0	0	0	4	2	99¼"	177¾"
0	1	1	3	2	101¼"	181¾"
0	0	3	2	2	104¼"	186¼"
0	1	0	4	2	107¼"	191½"
0	0	2	3	2	110¼"	196¾"
0	1	3	2	3	114"	203¼"
0	0	1	4	3	117¾"	209¾"
0	1	2	3	3	120"	213½"
0	0	0	5	3	123¾"	220"

Fig. 6 Chimney system requirements.

Planning Information

Preplanning an installation is very important to ensure safety and to save time and money. An installer must predetermine where a fireplace will be set and how the chimney system will be run.

Mounting the Fireplace

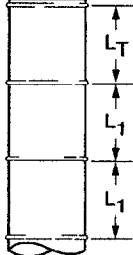
A fireplace may only be mounted on the following surfaces:

1. A flat combustible surface.
2. A raised wooden platform.
3. A concrete block or other solid object placed beneath each of the four (4) corners of the fireplace.

The fireplace **must** be spaced 3/4 inch from a combustible back wall and 3/4 inch from a combustible side wall or support. (Fig. 20, Page 14)

Planning the Chimney Run

Determine how the chimney will be run, length of run and chimney components required to complete the job. (Fig. 6) **Never** install a chimney below minimum heights.

	11CF Chimney Model No.	Total Length (L _T)	Installed Length (L ₁)
	11CF1	11½"	10½"
	11CF18	17½"	16½"
	11CF3	35½"	34½"
	11CF4	47½"	46½"

FP288b

Fig. 7 Installed lengths of chimney sections.

In planning a chimney system, it is important to know:

1. The height of a chimney is measured from the hearth to the exit point on the termination.
2. A chimney cannot be offset more than 30 degrees from a vertical plane.
3. A chimney may run straight up or it may be necessary to offset it to avoid obstructions.
4. The maximum length of an angled run (total chimney system) is 20 feet.
5. No more than 2 offsets (4 total 30° elbows in) per fireplace may be used.
6. A guy wire stabilizer is required for chimneys extending more than 6 feet above a roof line.

The Ten Foot Rule

Major U.S. building codes specify a minimum chimney height above the roof top. The "Ten Foot Rule" is a fire safety rule and not a draft rule. To ensure proper draft, it is recommended that you always meet or exceed the "Ten Foot Rule," especially when installing a termination on a high pitch roof. (Fig. 8)

The key points of the "Ten Foot Rule" are:

1. If the horizontal distance from the chimney to the peak of the roof is 10' (3m) or less, the top of the chimney must be at least 2' (610mm) above the peak of the roof, but never less than 3' (914mm) in height above the highest point where it passes through the roof.
2. If a horizontal distance from the chimney to the peak of the roof is more than 10' (3m), a chimney height reference point is established that is on the surface of the roof a distance of 10' (3m) from the chimney in a horizontal plane. The top of the chimney must be at least 2' (610mm) above the reference point, but never less than 3' (914mm) in height above the high-point where it passes through the roof.

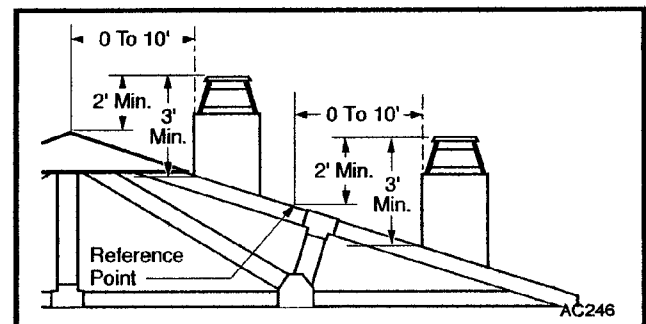


Fig. 8 Ten Foot Rule illustration.

Chimney Supports

The chimney system is supported by the fireplace for vertical chimney heights less than 30 feet above the hearth. Chimney supports are required if the vertical height exceeds 30 feet with 11CF chimneys. Locate chimney supports at ceiling holes or other structural framing at 30 foot heights. Spacing between chimney supports **must not** exceed 30 feet. Use Chimney Support Model 11CS. **(NOTE: The 11CS can not be mounted directly to the fireplace.)** Support provided by elbow straps fulfills the support requirement only if they are spaced as previously described. (A chimney support is 2½" long when installed.)

Angled chimney runs require a support every six (6) feet in addition to the elbow straps. Chimney supports are used for this function. (Fig. 9)

Chase Installation

A chase is a vertical boxlike structure which encloses the fireplace and/or chimney. Chases are typically built on the outside of the house with fireplace opening cut into the outer wall of a room. (Page 5, Fig. 5)

If you need help in determining fireplace location or how the chimney system should be run, contact your Majestic Fireplaces dealer for assistance.

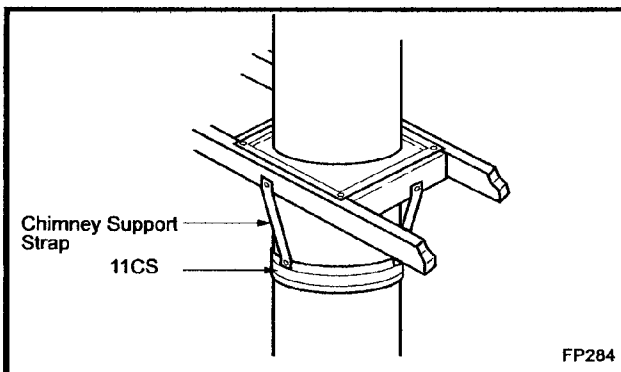


Fig. 9 Chimney support installation

Installation

Insulating Fireplace Enclosure for Cold Climates

If you live in a cold climate, it is not required but **highly recommended** that you insulate the fireplace enclosure to eliminate cold air penetration as much as possible.

Insulate base of fireplace with a noncombustible insulation rated for a minimum of 300° F. Insulating is **very important** for outside wall installations over a concrete slab. If fireplace is installed on a platform, insulation should be placed on top of the platform **before** fireplace is set. (Fig. 10)

When a fireplace is installed in a chase or on an outside wall, enclosure should be treated like any outside wall in a home. Insulation should be installed on the inside wall as well as the outside wall(s). In a chase, it is also a good idea to install a firestop at the first ceiling level above the fireplace and enclose the chase with sheeting material. Insulation may then be installed above sheeting material to assure the space around the fireplace is totally protected. (Fig. 5)

CAUTION: WHEN INSTALLING A FIREPLACE IN AN INSULATED ENCLOSURE, BE SURE ALL REQUIRED AIR SPACES ARE MAINTAINED. (Page 15, Fig. 19)

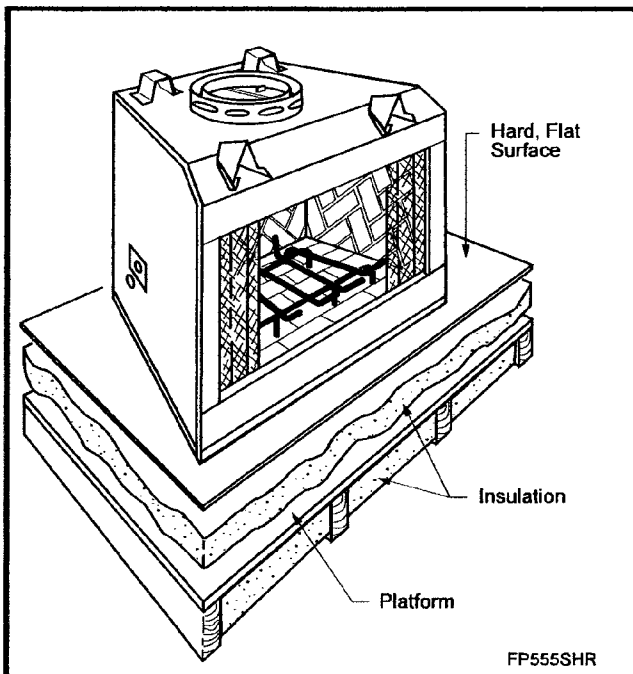


Fig. 10 Insulating between platform and fireplace.

Framing

Framing can be constructed before or after the fireplace is set in place, however, most installers build the frame before setting the fireplace.

Frame fireplace with 2 x 4 lumber or heavier materials. Refer to framing dimensions in Figures 1 - 4 for basic fireplace specifications.

NOTE: Framing should be positioned to accommodate wall covering and fireplace facing material.

Firebrick Installation

For the SHR52 model the firebrick is packed separately and must be installed in the fireplace.

You will need four (4) firebrick, three (3) brick retainers, a phillips head screwdriver, and the grate.

The side and rear firebrick each have a notch in the top of the brick panel. The side firebrick have a notch in the lower front side of each panel. The herringbone pattern faces out of the fireplace always. (Fig. 11)

NOTE: The screens and screen rod smoke baffle assembly must be removed and set aside before proceeding. Remove the two screws holding the screens place. There are seven screws holding the screen rod smoke baffle in place.

1. Remove the three brick retainers from the combustion dome by removing the phillips screws, set aside.
2. Set the left firebrick in place on the left side of the fireplace.

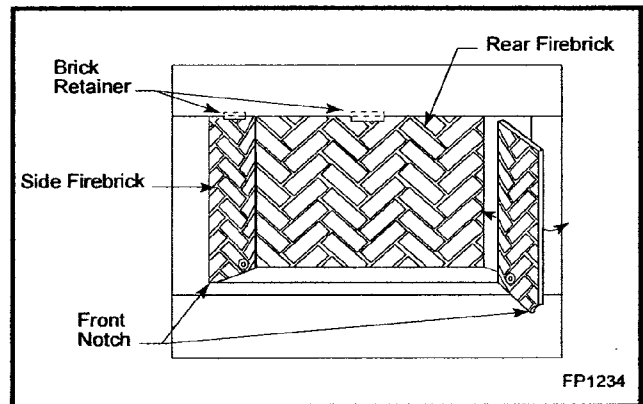


Fig. 11 SHR52 Firebrick installation.

3. Slide the rear firebrick back into the left corner behind the end of the left firebrick. Push both panels back as far as possible into the left side and corner.
4. Swing the right side of the back firebrick into place. Attach the left brick in place using a brick retainer at the top and phillips screw removed earlier.
5. Slide the right firebrick into place as far back as possible. Attach rear firebrick and right firebrick using brick retainers and phillips screws removed earlier.
6. Slide the hearth firebrick into the grate clip. (Fig. 12) The grate will be used as a handle to set the hearth firebrick in place.
7. With the hearth firebrick securely in place in the grate clip, carefully lift the hearth firebrick into the fireplace, set the rear of the firebrick down, then slide back to meet the rear firebrick. Gently set the front of the firebrick in place. Replace screens and screen rod smoke baffle assembly.

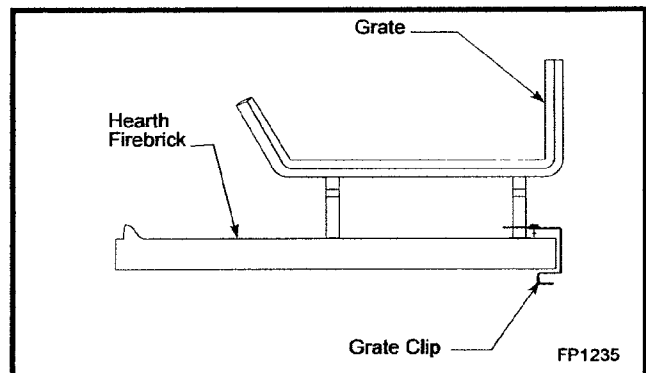


Fig. 12 Hearth firebrick in place in grate clip.

Chimney Set-up

Since you have already preplanned the chimney run, you should know exactly how the installation is to be accomplished — how much pipe is required, the number of elbows, if any, and type of termination to be used.

SHR Series Woodburning Fireplace

CAUTION: REPORT TO YOUR DEALER ANY PARTS DAMAGED IN SHIPMENT, SPECIFICALLY CHECK THE END CONNECTION OF CHIMNEY SECTIONS AND ELBOWS.

NOTE: SHR Series Fireplaces must use CFM Corporation model 11CF, 11 inch, 2 wall chimney systems. The installation procedure described in this manual applies **only** to the 11CF system, chimney components may not be mixed.

Straight-Up Chimney Installation

To mark the centerline of the flue, put the fireplace in final position and measure out from the wall $11\frac{1}{8}"$. Mark a spot on the ceiling directly above the fireplace. Draw a line parallel to the back wall through this mark. (Fig. 13)

Using a plumb bob positioned directly over center point of fireplace flue collar, mark the ceiling to establish the chimney center point. (Fig. 13)

Offset Installation

In order to clear an obstruction, it may be necessary to offset chimney from vertical. This is accomplished by using CFM Corporation elbows. Use the *30° Offset Elbow* table on Page 6 to determine proper offset and parts required.

Each offset requires two (2) elbows. The second elbow is equipped with support straps. It is very important to install the second elbow in each offset as close to the ceiling or support as possible so the elbow straps can be secured to framing members to help support the weight of the chimney.

Determine offset distance of your chimney arrangement from centerline of fireplace to centerline of chimney where it is to pass through ceiling.

Locate center point of the chimney on ceiling as though a straight up chimney arrangement is to be used. Measure your offset dimension from straight up chimney center point on ceiling.

Ceiling Chimney Hole/ Possible Obstructions

The size of the hole in ceiling will vary with the angle at which the chimney passes through ceiling.

Drive a nail up through ceiling at marked chimney center point. Go to floor above and see where hole will be cut. Check to see where existing ceiling joists and other possible obstructions are located...i.e. wiring, plumbing etc... If necessary, reposition chimney and/or fireplace to avoid obstructions.

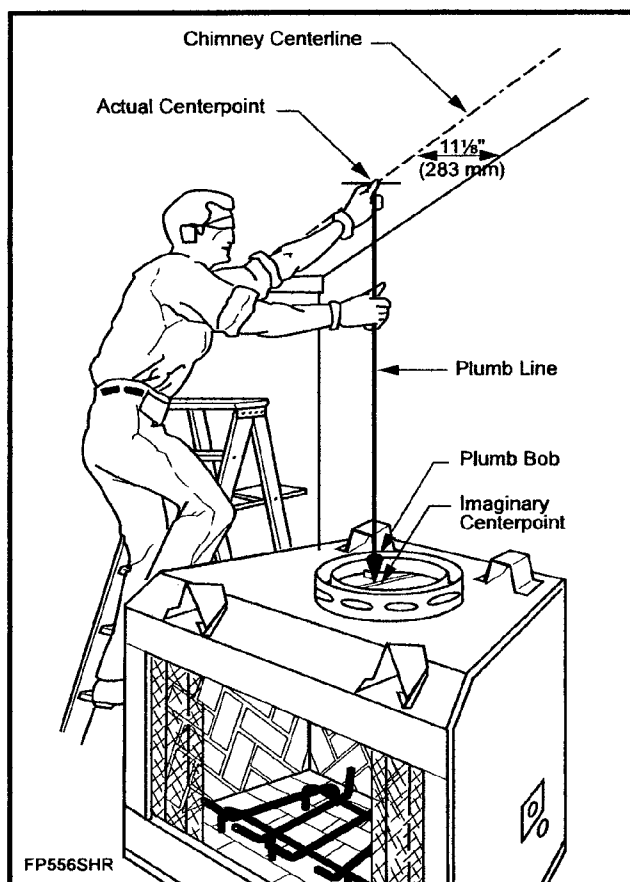


Fig. 13 Locate centerline of chimney with plumb line.

Cutting the Hole

Cover fireplace collar opening and cut proper sized chimney hole in chimney. (Fig. 14 & 15)

Framing the Ceiling Hole

Frame the ceiling chimney hole as shown in Figure 15. It is good practice to use framing lumber that is the same size as the ceiling joists; this is a requirement at attic level.

The following table gives firestop spacer model numbers:

CHIMNEY HOLE SIZE

Size of Chimney	Angle of Chimney at Ceiling	
	Vertical	30°
11" CF 2-Wall	FS2A 17 $\frac{1}{2}"$ x 17 $\frac{1}{2}"$ (445 x 445 mm)	FS6A 17 $\frac{1}{8}"$ x 29 $\frac{5}{8}"$ (454 x 753 mm)

Fig. 14 Ceiling chimney hole size necessary for installing firestop spacer.

The inside dimension of the frame must be the same as the hole size selected from Figure 11 in order to provide the required 2 inches of air space between the outside diameter of the chimney and the edges of the framed ceiling hole.

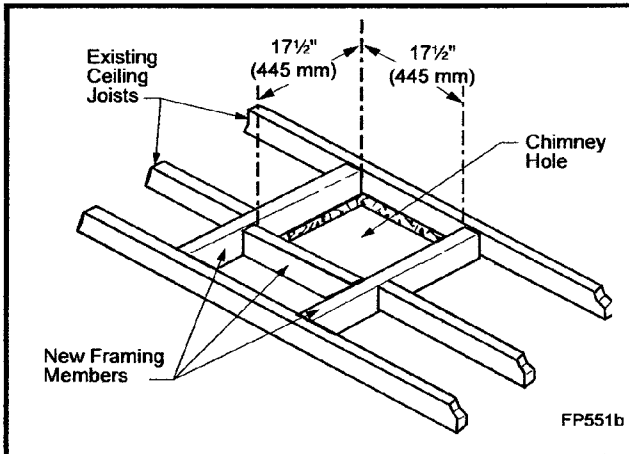


Fig. 15 Typical frame for ceiling chimney hole

Positioning, Safety Strips, Securing the Fireplace

Slide fireplace into position.

Lift the fireplace front slightly and slide the metal safety strips under front bottom edge about 1 1/2 inches, allowing the remainder to extend in front of firebox. Overlap strips at least 1/2 inch to provide a positive joint. (Flat safety strips are packed with fireplace.) (Fig. 16)

Safety strips are used to ensure that any combustible materials in front of the fireplace are protected even though a noncombustible hearth extension is required.

If fireplace is to be elevated above the floor, a "Z" shaped metal safety strip must be fabricated and used to protect combustible surfaces in front of the fireplace. This "Z" shaped safety strip is not provided but must be fabricated of metal with each horizontal leg at least 1 1/2 inches wide and equal in length to the metal strips provided with the fireplace.

Note: Safety strips are not required over noncombustible floors where all supports at the base of the fireplace are noncombustible.

Four (4) nailing flanges are supplied with the fireplace (found on the fireplace hearth). To level the box and secure it firmly in place, remove the nailing flanges from the hearth and install at the sides of the fireplace as shown in Figure 17.

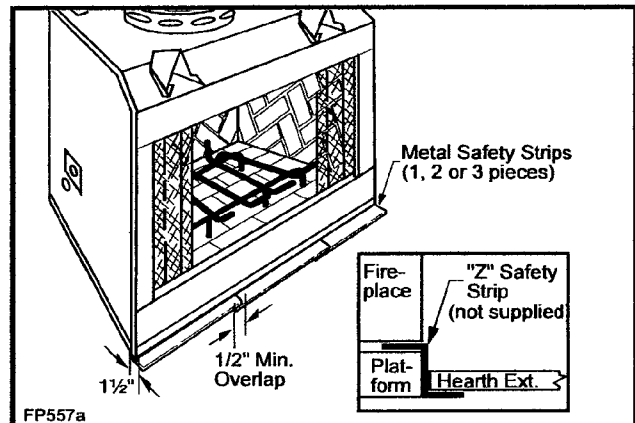


Fig. 16 Safety strip installation.

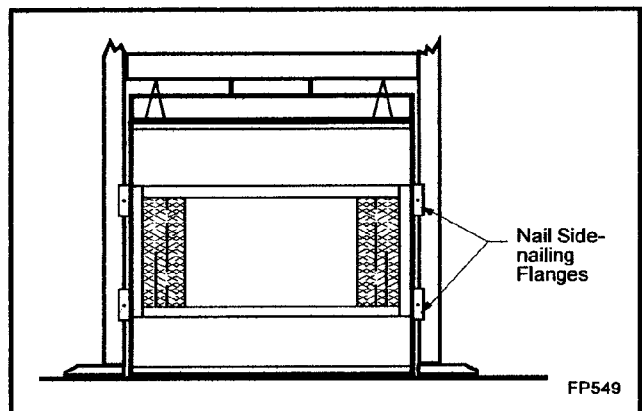


Fig. 17 Fasten fireplace in position.

Installing Outside Air Kit

An outside air damper assembly is installed in all SHR Series Fireplaces. If desired, or if local codes mandate the use of an air kit, then an AK-MST is required to complete the installation (from air damper assembly to the outdoors). If the outside air kit is to be used, the AK-MST **MUST** be installed **BEFORE** the fireplace is enclosed. Refer to the AK-MST instructions for field installation.

Installing the Chimney System

Start by attaching the first chimney section to the collar on top of the fireplace.

Install the pipe as pictured in Figure 18. When you get a good lock, you will hear the pipe clearly snap together. Once sections are snap-locked in place, it is extremely difficult to get them apart. **Make sure the pipe is firmly snapped and locked together as each pipe section is mounted.**

When installing elbows, only outer pipe will snap-lock. Middle pipes simply slide into position. Be sure to always attach straps on upper elbow to a structural framing member. (Fig. 19)

Continue installing the pipe as required until pipe is installed up through the ceiling. At this point, you must install a firestop spacer.

Installing the Firestop Spacer in the Ceiling Hole

A firestop spacer is used to keep pipe spaced properly and required for safety.

Nail the firestop spacer (at each corner) to the framing members of the ceiling hole. **Note:** A firestop spacer is not required at the roof.

Hole sizes listed in Figure 14 for angled firestop spacers provide minimum required air space to chimney pipe for ceiling thickness up to eight (8) inches. When combined thickness of ceiling material, ceiling joists and flooring material exceeds eight (8) inches, adjustments must be made in framing to assure that minimum air spaces to chimney are maintained.

Proper Firestop Spacer Installation

Figure 20 shows different installation procedures for both an area that is an attic and an area that is *not* an attic.

If the area above the ceiling is **not** an attic, position the firestop spacer with the flange on the ceiling side and the angled portion extending up into the hole.

If the area above the ceiling is an attic, position the firestop spacer with the flange on the top of the framed hole and the angled portion extending down into the hole.

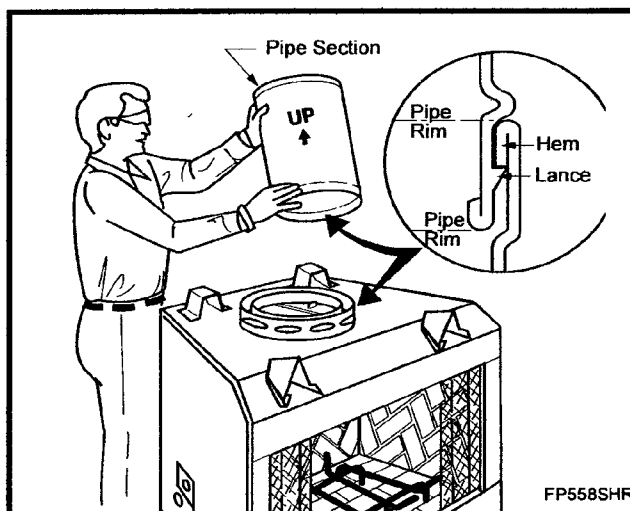


Fig. 18 Install pipe, listening for the snap-lock to fasten.

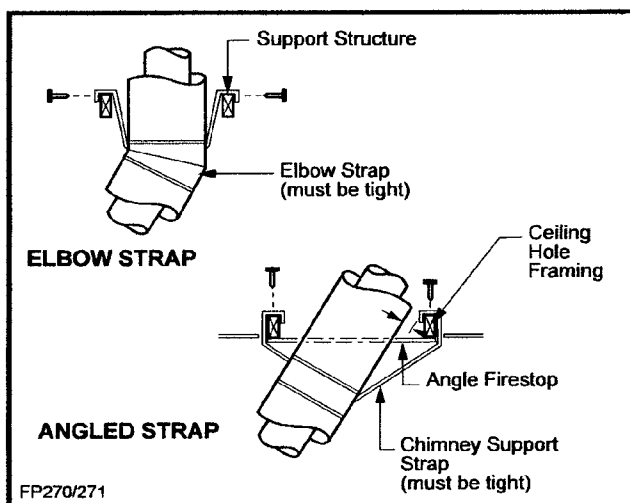


Fig. 19 Attach straps to a structural framing member.

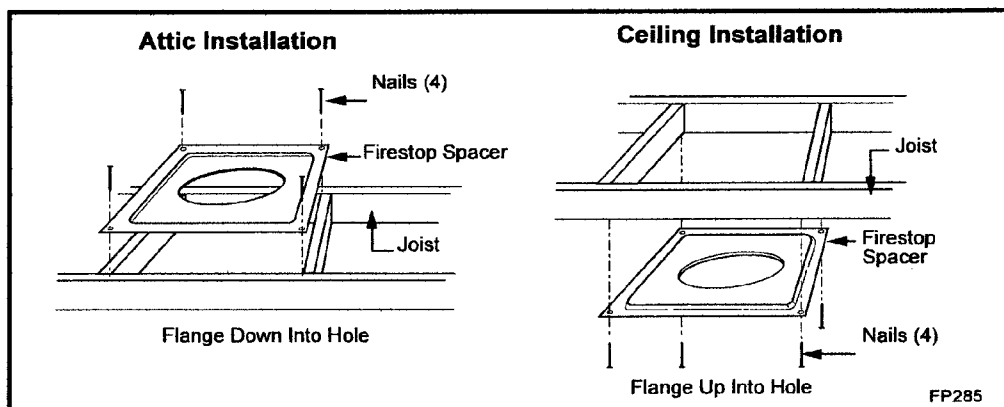


Fig. 20 Installing firestop spacer.

Firestop spacers are not available for, nor are they required on, vertical walls.

The chimney components (CF11) used on the SHR series fireplaces have been tested and approved with the area where the outer pipe slides through the firestop spacer sealed with a noncombustible caulk if desired, or left completely open with no sealant. This sealing only applies to the SHR series fireplace.

Continue Installing Pipe to Complete Run

Continue attaching pipe sections to complete system to next level always being careful that the pipe is firmly snap locked in place before proceeding to next pipe section.

Chimney Supports

If chimney supports are required, they are installed the same as elbows. Nail chimney support straps to adjacent structural framing, as shown in Figure 8, Page 8. Bend straps as necessary and make sure they are secure so they will support the weight of the chimney. A chimney support is 2½" long when installed. Consider this dimension when determining how many straight chimney sections are needed.

Note: Chimney supports are generally used in long runs in a chase installation.

Additional Ceilings

If you encounter additional ceilings, repeat same steps required for first ceiling installation. Refer to firestop illustration on Page 12, Figure 20.

Penetrating the Roof

Run pipe to roofline. Since chimney system must be vented to the out-of-doors, you **must** use an approved termination.

If a chase is used, refer to the installation manual provided with the termination cap.

Locate Chimney Centerpoint on Roof

Use same procedure detailed in locating center point of the flue system.

Drive a nail up through roof at the center point. This will determine center point on outside of the roof.

Cut and Frame Roof Hole

Size of roof hole varies with the type of chimney termination installed. Refer to installation instructions provided with the chimney termination to find correct size roof hole.

There must be a 2" (52mm) air space between outermost portion of chimney sections and any adjacent combustible surfaces. (Combustible surfaces include burnable materials such as: ceiling members, joists, flooring, combustible insulation and roof structures.)

WARNING: DO NOT PACK REQUIRED AIR SPACES WITH INSULATION OR OTHER MATERIALS.

Mark an outline of the roof hole around the centerpoint of the nail. **NOTE:** Hole dimensions given in the chimney top installation instructions are **horizontal** dimensions; therefore, the hole size must be marked on the roof accordingly.

Cover the opening of the installed chimney so debris cannot get into the system.

Cut and frame the hole. It is good practice to use framing lumber that is the same size as the rafters. Install the frame securely because the chimney top and flashing anchored to the frame must be able to withstand heavy winds.

Install Remainder of Chimney Sections

Since you have already preplanned the height of your termination according to the *Ten Foot Rule*, continue to install pipe to the predetermined height.

Check the chimney top installation instructions for details on how high above the roof top the chimney sections (all pipes) should extend.

Installing Top Housing or Termination

Follow the installation instructions provided with the chimney termination you have selected.

Installing Chimney in a Chase

Refer to Page 5, Figure 4 for an illustration of a typical chase installation.

CAUTION: Treatment of firestop spacers and construction of chase may vary with type of building. These instructions are not a substitute for local building codes. You **must** check your local building codes to determine specific requirements for your city or state. **NOTE:** Other building materials may be required in addition to Firestop Spacers.

Finishing

CAUTION: All joints between the finished wall and the fireplace surround (top/sides) must be sealed with noncombustible material to prevent cold air leakage into the room. Only noncombustible material may be applied to the facing of the fireplace surround. (Black painted area) (Fig. 21)

The SHR52 has a framing shield between the front standoffs that may be used to attach finish material. (Fig. 23)

Finish Wall

Finish the wall with material of your choice. **Do not install a combustible mantel shelf less than 12" (305mm) from the top of the fireplace opening. Do not install a mantel face plate less than 6" (159mm) from top of fireplace opening.** (Fig. 27) If a combustible material is used below a flat mantel shelf, consult your local building codes for minimum clearance from top of fireplace opening to bottom of mantel shelf.

All joints (top, bottom and sides) where wall or decorative facing material meets fireplace surround must be completely sealed with a noncombustible material. (Figs. 22 - 27)

NOTE: No side wall protection is required for fireplaces installed at 45° to two (2) side walls (corner installation).

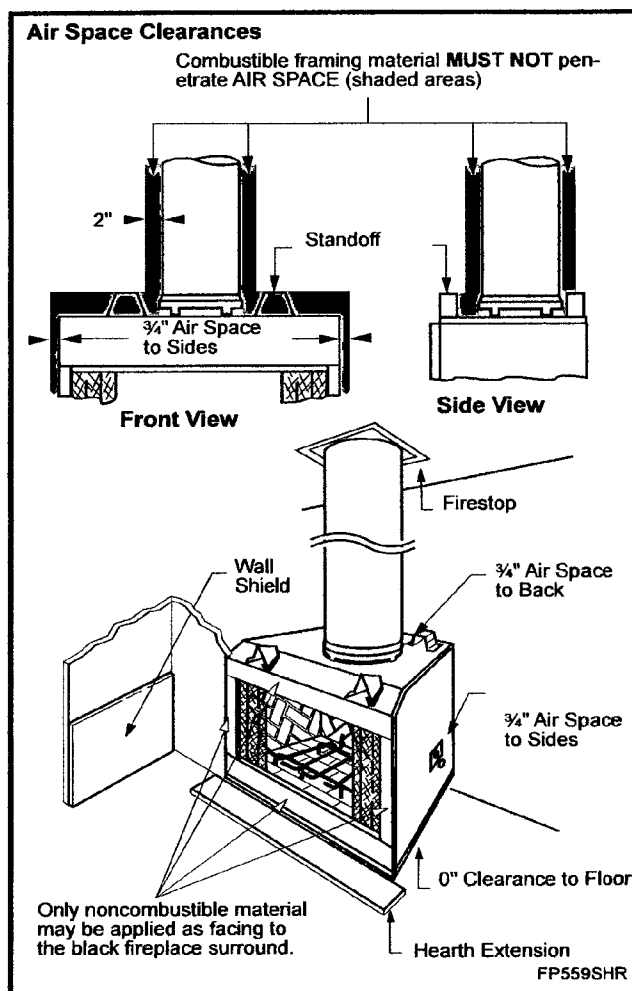


Fig. 21 Minimum clearances to combustibles.

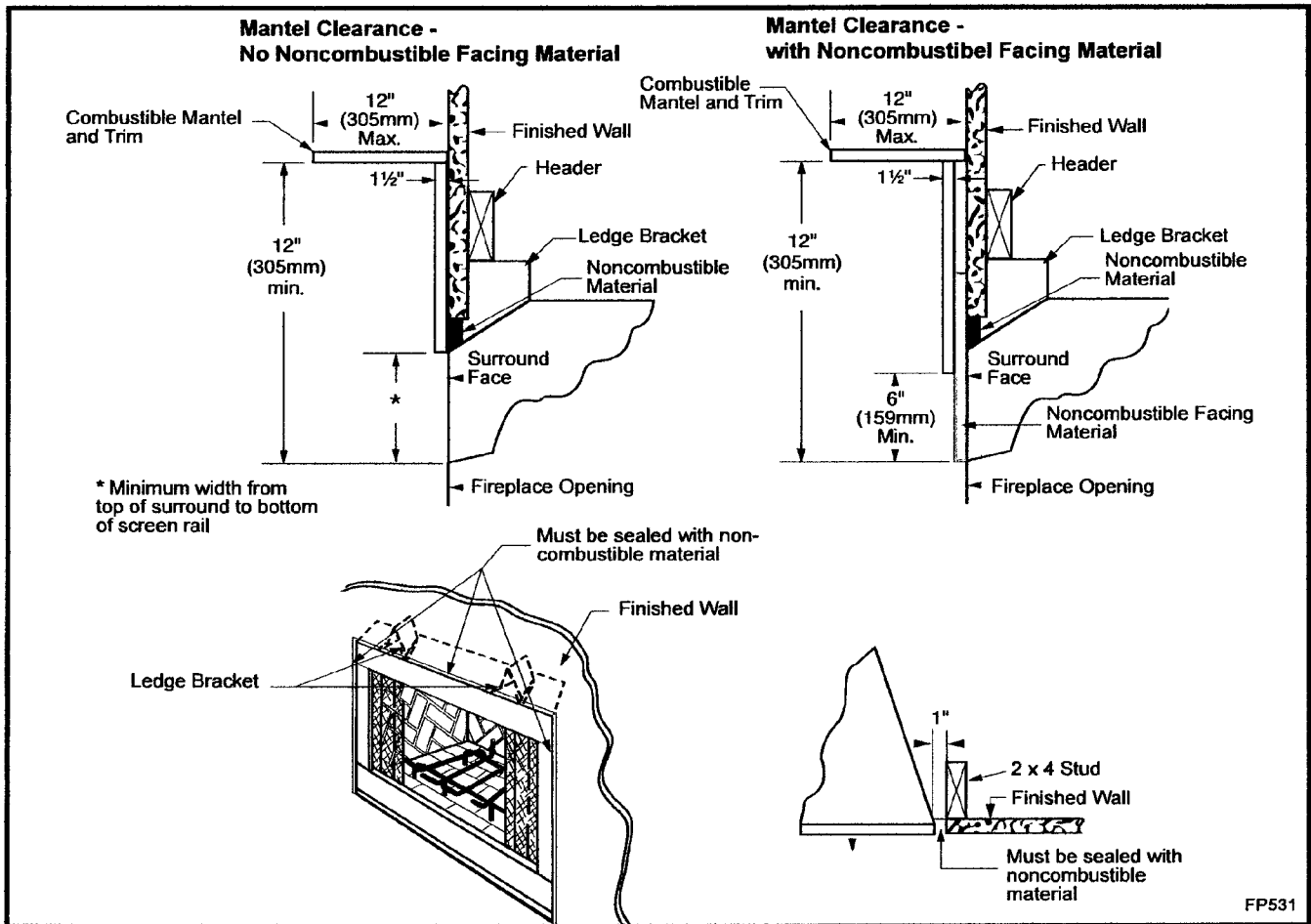


Fig. 22 Mantel clearance.

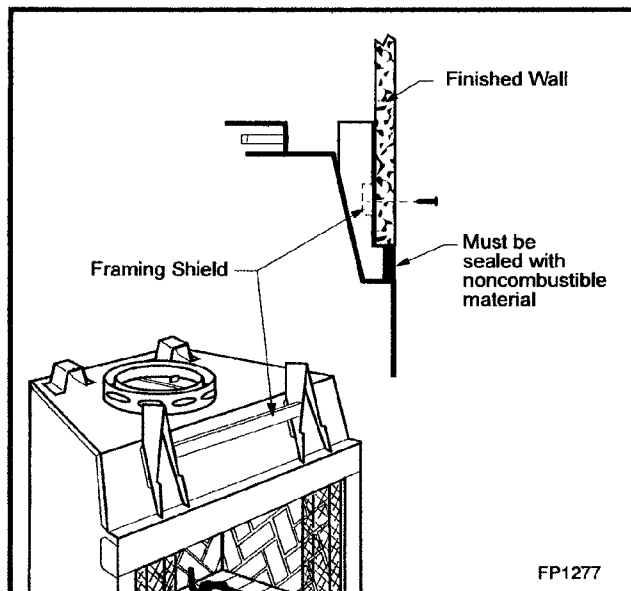


Fig. 23 SHR52 framing shield may be used to attach finish material.

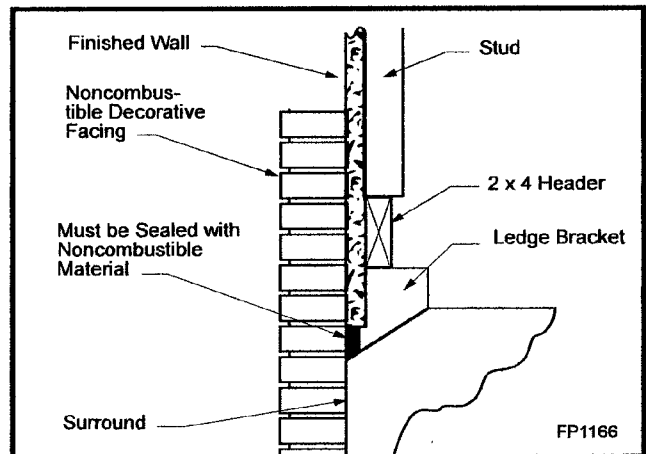


Fig. 24 Fireplace surround flush with finished wall.

SHR Series Woodburning Fireplace

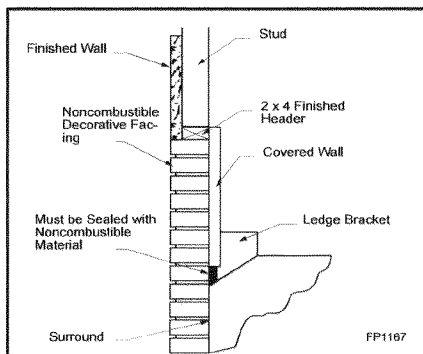


Fig. 25 Facing on fireplace surround flush with finished wall.

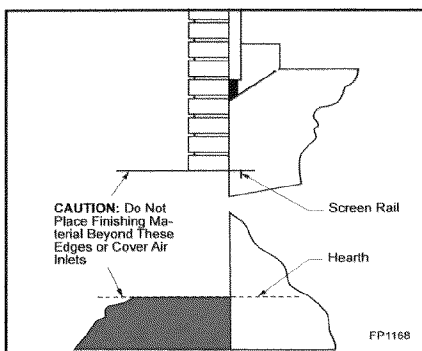


Fig. 26 Finishing front of fireplace.

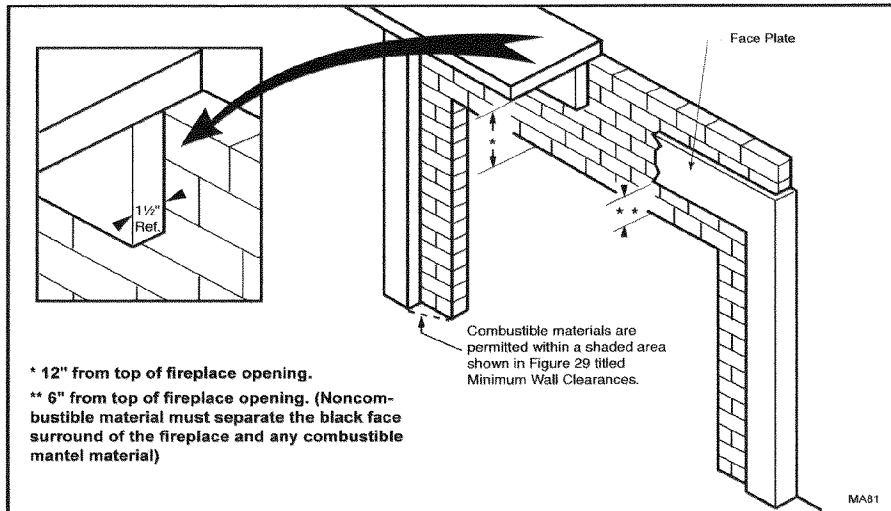


Fig. 27 Combustible mantel clearances.

Side Wall Protection

Adjacent combustible side walls that are within dimensions shown in Figure 29 of fireplace opening must be protected with Wall Shield Model SP40 or a specifically built wall shield described in Figure 28.

The special wall shield design described in Figure 25 is an alternate method of adding protection to side walls and can be used in place of the SP40 with the same wall clearances specified for the SP40. Rt must = 1.85 minimum.

Examples of wall shield insulation:

1. Manville - CERAFORM 126, K=.27, 1/2 inches thick
2. CFM Corporation - EH2416, K = .458, 1 inch thick required.

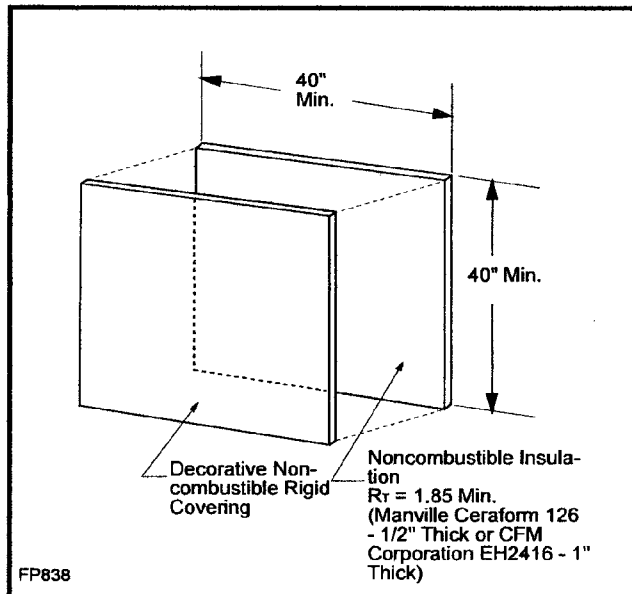


Fig. 28 Noncombustible wall shield dimensions.

Hearth Installation

A hearth extension is required to protect a combustible floor in front of the fireplace. Refer to Figure 29 for minimum dimensions and mounting detail.

NOTE: Hearth Extension must not cover the air inlet opening of a fireplace.

The hearth extension described in Figure 29 must be a durable noncombustible material with a minimum (total) Rt value of 1.09; refer to Figure 30 for examples. The overall height (above a combustible floor), depth and width must be as indicated, with the extension centered to the fireplace opening.

The top of insulation must be covered with a noncombustible decorative covering or a piece of .018" minimum sheet metal, to protect hearth extension material. (Fig. 29)

Secure the hearth extension to the floor to prevent shifting, using trim molding or other similar means at three (3) outer edges. Seal crack between the fireplace hearth and hearth extension with a noncombustible material. (Figs. 29, 31, 32, 33)

WARNING: HEARTH EXTENSION MUST BE INSTALLED IN ACCORDANCE WITH FIGURE 26.

Alternate noncombustible materials may be used providing the (total) thermal resistance (Rt value) of the alternate material employed is greater than or equal to R = 1.09. Thermal resistance (R) or thermal conductivity (K), may be obtained from manufacturer of the material. Factors are related by the formula $K = 1/R$. (Fig. 29)

T = given thickness

R = thermal resistance for a given thickness (T)

K = thermal conductivity

Noncombustible material with a lower R value may be used, provided thickness of material is sufficiently greater to maintain an equivalent (total) thermal resistance (Rt).

Example of Determining Hearth Extension Equivalents

To determine the thickness required for any new material:

$$\text{NEW required thickness} = \frac{\text{K of new material (per inch)}}{\text{K of listed material (per inch)}} \times \text{thickness of listed material}$$

Example for Common Brick

$$T (\text{new}) = 5.0 / 0.458 \times 0.50 \text{ in.} = 5.46 \text{ in. (new required thickness).}$$

Common Materials And Factors

Material	K*	R	Minimum Thickness
EH2416 (CFM Corporation)	0.458	1.09	0.50 in.**
Common Brick	5.0	0.10	5.46 in.**
R Value is for 1/2 inch. * Units of K = BTU/SQ FT/HR/F/IN ** Thickness of Listed Material			

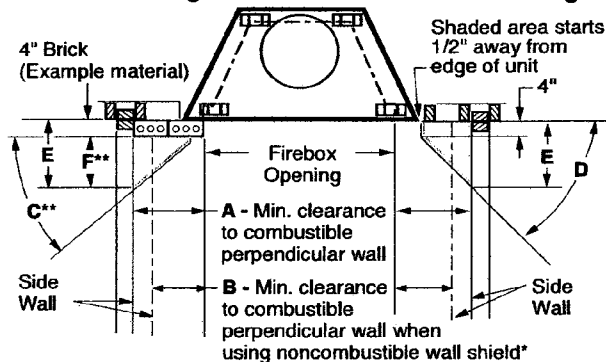
FP533ADD

Fig. 30 Hearth extension material factors.

Minimum Wall Clearances

**WITH
Noncombustible
Surround Facing**

**WITHOUT
Noncombustible
Surround Facing**

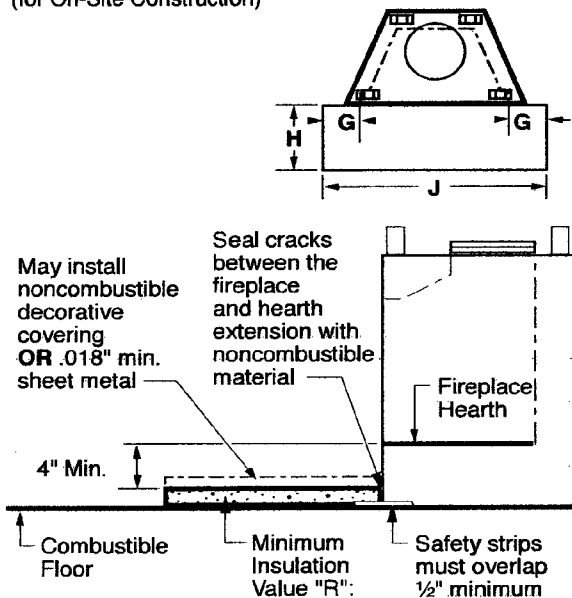


Combustible material permitted within shaded area.

- Noncombustible wall shield requires 1" CFM Corporation EH2416 insulation (minimum R Value = 1.85) between decorative noncombustible rigid covering and combustible wall. Minimum height and width is 40" x 40".
- ** Dimension/degree of angle will vary depending on thickness of noncombustible surround facing.

	A	B	C	D	E	F	G	H	J
SHR36	20"	12"	35°	42°	18"	14"	8"	16"	52"
SHR42	22"	18"	32½°	39½°	18"	14"	12"	20"	66"
SHR48	28"	18"	26½°	33°	18"	14"	10"	24"	68"
SHR54	30"	20"	33½°	38½°	24"	20"	14"	24"	80"

Minimum Hearth Extension Dimensions (for On-Site Construction)



FP532SHR

Fig. 29 Combustible side wall protection and hearth extension dimensions.

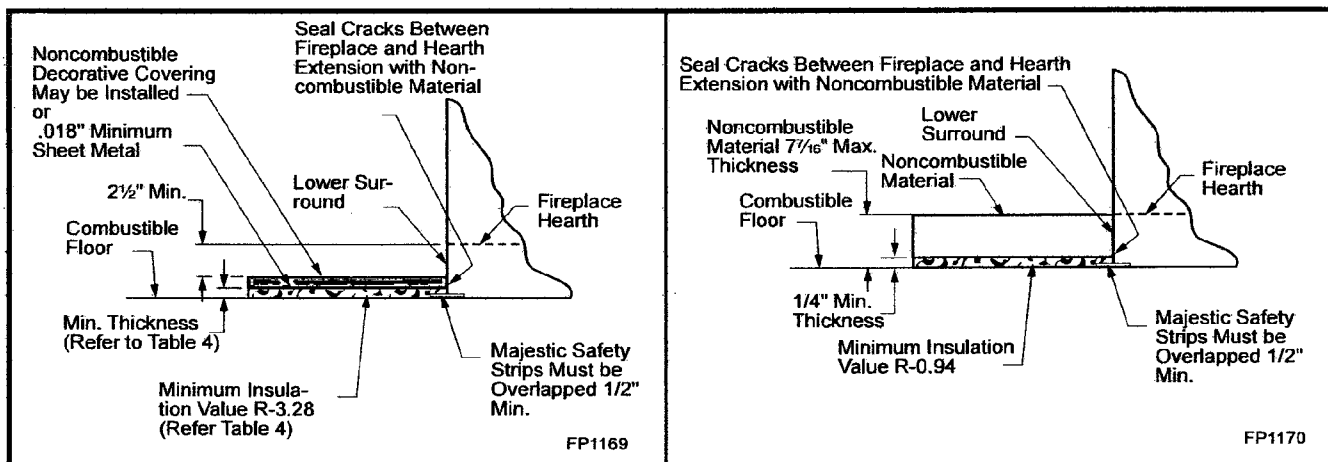


Fig. 31 Protection of adjacent combustible side walls and hearth extension dimensions.

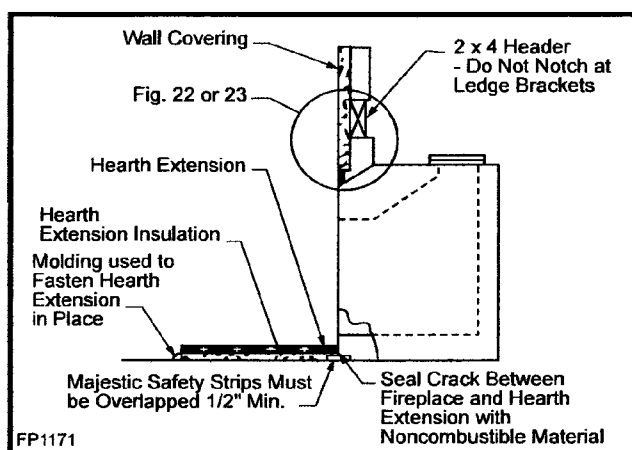


Fig. 32 Sealing detail.

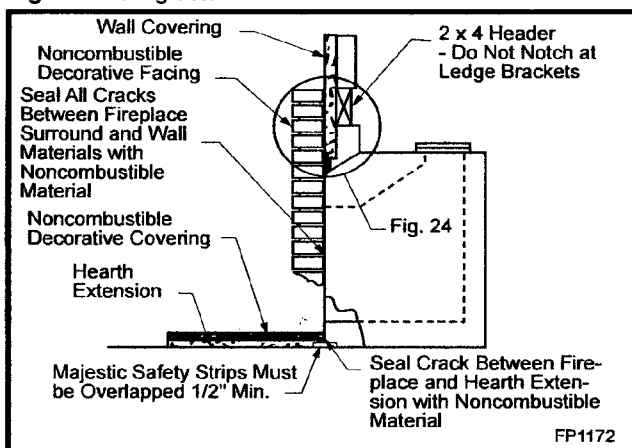


Fig. 33 Sealing detail.

Installing Line for Gas Logs

CFM Corporation fireplaces are designed to accept a 1/2 inch gas line for installation of an approved gas appliance. (CFM Corporation manufactures a wide variety of gas logs for use in CFM Corporation fireplaces.)

Be sure to have the appliance installed in accordance with building codes.

Gas connection may enter from either left or right side of the fireplace.

Locate appropriate gas line in the outer casing of fireplace and remove insulation from gas line tube. (Fig. 34) From inside the fireplace, locate the knockout on the firebrick — be sure you are on the appropriate or "gas line" side of the fireplace. Using a flat bladed screwdriver or small chisel and hammer, carefully tap around the knockout until it loosens and falls out.

Install 1/2 inch certified gas pipe through opening. After gas pipe installation is complete, use insulation that was

removed from gas line tube to repack space around the pipe. Material should be inserted from outside of the fireplace and packed tightly to totally seal between the pipe and tube.

Note: Gas pipe should not come in contact with any wood structures until it has reached a point at least one (1) inch away from fireplace side.

NOTE: When installing an ANSI Z21.11.2 ventless appliance, the finishing material used for the mantel must be rated at 250°F or greater.

BTU input of a gas appliance installed in fireplace should be rated less than 100,000 BTU/Hr.

Gas pipe installation is intended for connection to a decorative gas appliance only when (1.) incorporating an automatic shutoff device and (2.) complying with the Standard for Decorative Gas Appliances for Installation in Vented Fireplaces (ANSI Z21.60) or CSA draft requirements for Gas-Fired Log Lighters for Woodburning Fireplaces (Draft No. 4, August 1993).

Decorative gas appliance should be installed in accordance with the National Fuel Gas Code, ANSI Z223.1/ NFPA 54 (latest edition).

CAUTION: WHEN USING DECORATIVE GAS APPLIANCE, FLUE DAMPER MUST BE SET IN FULLY OPEN POSITION. IF YOU HAVE GLASS DOORS ON THE FIREPLACE, THEY MUST ALSO BE FULLY OPENED.

WARNING: DO NOT OPERATE AN UNVENTED GAS LOG SET IN THIS FIREPLACE WITH THE CHIMNEY REMOVED.

WARNING: WHEN INSTALLING AN UNVENTED GAS LOG SET, THE CFM CORPORATION MODEL AH3244BK OR AH3244PB 4" ADJUSTABLE HOOD MUST BE USED.

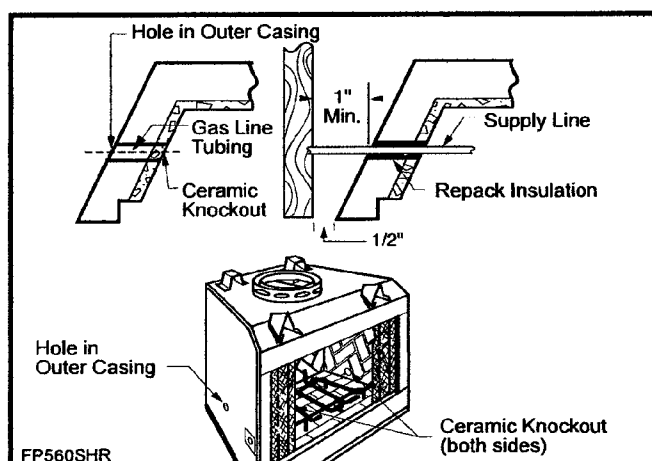
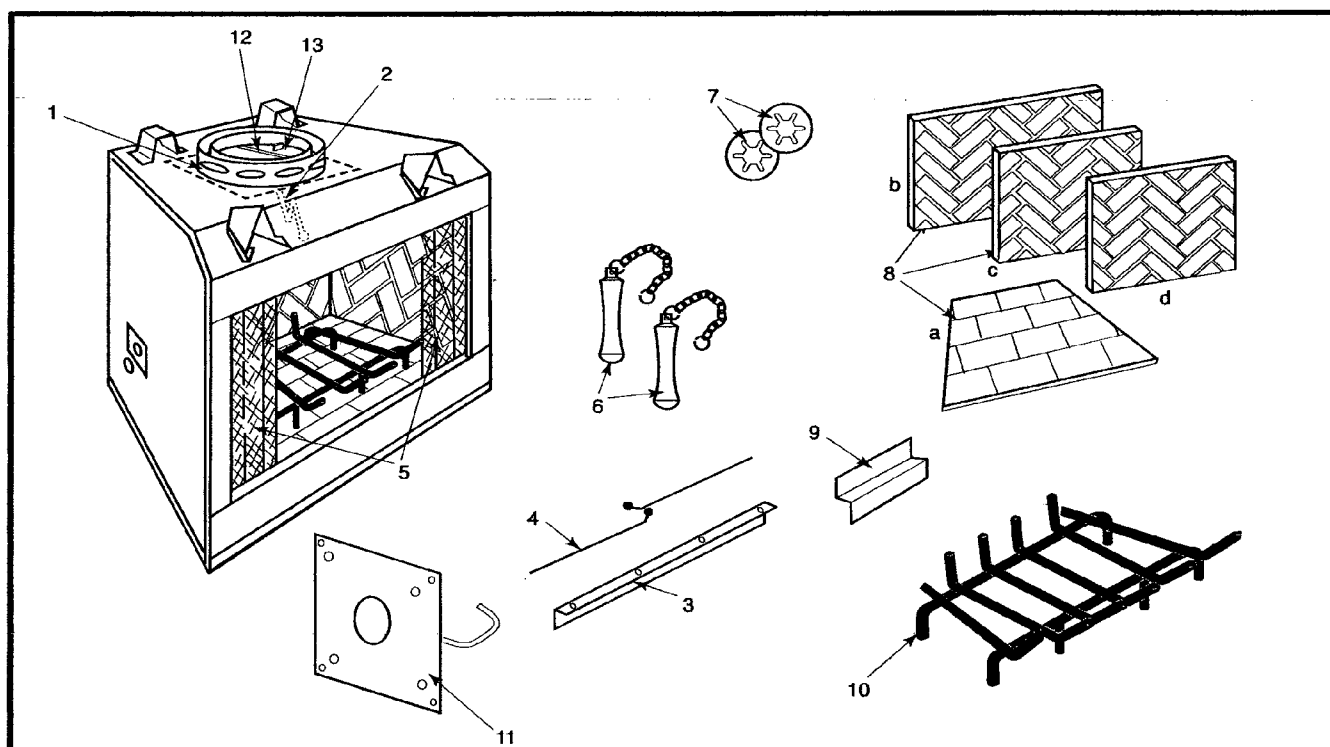


Fig. 34 Gas line access.

If installing an unvented gas log set, refer to statement below:

Only unvented gas log sets which have been found to comply with the Standard for Unvented Room Heaters, ANSI Z21.11.2, are to be installed in this fireplace.

SHR Series Woodburning Fireplace



CFM Corporation reserves the right to make changes in design, materials, specifications, prices and discontinue colors and products at any time, without notice.

SHR36/42A/48/52 Woodburning Fireplace

For units FH30RO, GH40RO, HH30RO, IH10RO

Item/Model Number	~~SHR36~~	~~SHR42A~~	SHR48	~~SHR52~~
1. Damper Weld Assembly	RP210	RP210	RP210	n/a
2. Damper Handle	20001418	20001418	20001418	20005322
3. Screen Rail	20001429	20006021	20001431	20005569
4. Screen Rod (two per fireplace)	7554181	7554199	20001428	20005790
5. Screen (two per fireplace)	7554295	20001723	20001723	20005278
6. Screen Pull (two per fireplace)	5584139	5584139	5584139	5584139
7. Push Nut (two per fireplace)	7512167	7512167	7512167	7512167
8a. Firebrick - Hearth	20001272	20005611	20001172	20005303
8b. Firebrick - Back	20004165	20005610	20004147	20005293
8c. Firebrick - Left Side	20004166	20005612	20004154	20005302
8d. Firebrick - Right Side	20004167	20005613	20004148	20005304
9. Firebrick Retainers (three per fireplace)	20001432	20001432	20001432	20001432
10. Basket Grate	20004203	20004203	20004311	20005433
11. O.S.A. Assy.	20003076	20003076	20003076	20005762
12. Damper Blade Assy	n/a	n/a	n/a	20007536
13. Pivot Rod	n/a	n/a	n/a	20005772

Accessories

The following accessories for this appliance are available from your local Majestic Fireplaces distributor. Should you need additional information beyond what your distributor can furnish, contact: CFM Corporation, 2695 Meadowvale Blvd., Mississauga, Ontario, Canada L5N 8A3 Attn: Technical Services.

CAUTION: This fireplace and chimney assembly is a highly engineered system, and, as such, must be operated only with CFM Corporation approved components. If you use an unapproved component to make any modifications, you may create a possible fire hazard and will void the CFM Corporation warranty. In addition, such action may void the coverage provided by the owner's insurance.

Accessory	Description	Model No.
Glass Enclosure Kit	Designed to enclose the fireplace opening with glass doors allowing the fire to remain visible. Available in Polished, Brushed Brass, Black and Pewter	~~56SHGDKDP/BB/BK/S~~ ~~42SHGDKDP/BB/BK/S~~ 48SHGDKDP/BB/BK/S ~~56SHGDKDP/BB/BK/S~~
Outside Air Kit	Provides outside air for fuel combustion in the firebox. This accessory must be installed before fireplace is installed.	AK-MST
Hearth Extension	Located on the floor in front of fireplace to protect the floor from heat, hot embers, ashes, etc.	EH2416
Hearth Patching Kit	Used to patch cracks in hearth.	HPC1
Wall Shield	Used to protect walls adjacent to the fireplace.	SP40
Firestop	Required at each floor level and attic on multi-story installation.	FS2A (straight flue) FS6A (30° inclined flue)
Chimney Support	Used to support the chimney at each 30 feet of vertical height above the hearth and at every 6 feet of inclined chimney run. Each support adds 2½" to chimney length.	11CS (11" flue)

SHR Series Woodburning Fireplace

Accessory	Description	Model No.
Contemporary Flashing	Required for contemporary top termination on the roof to prevent rain entry.	8-6-12 (0 to 6/12 pitch) 8-12-12 (6/12 to 12/12 pitch)
Contemporary Chase Top Termination	Used to terminate chimney at the top of a chase. Adapter kit is included, flashing is not included.	SLTCF11
Contemporary Round Top Termination	For use with Vermont Castings, Majestic Products Type "11CF" Chimney Systems. Used to terminate chimney on the roof. Flashing not included.	RLTCF11
Extended Round Top	For use with Vermont Castings, Majestic Products Type "11CF" Chimney Systems. Used to terminate chimney at top of chase. Adapter kit included. Flashing not included.	RLTCF11L
Chimney Sections	Used to build "11CF" chimney systems.	11" flue 11CF1 (1' long) 11CF18 (1½' long) 11CF3 (3' long) 11CF4 (4' long)
Chimney Elbows	Used to develop 30° offset chimney systems. (Elbows packed 2 per carton - upper and lower elbow set)	11CF30-2 (11" 30° flue)
Top Housing with Upper Baffle	Gives traditional chimney top look using simulated brick in red, tan or white color. Brick pattern is embossed into galvanized steel unit. Roof flashing is included. Appropriate adapter is required. Must be used with upper baffle.	S20BR/BT/BW S20UB (Upper Baffle)



LIMITED WARRANTY & 30 YEAR PROTECTION PLAN

For MAJESTIC FIREPLACES® PRE-ENGINEERED Fireplace Systems

CFM Corporation warrants its MAJESTIC FIREPLACES® Pre-Engineered Fireplace ("Fireplace") and the CFM Corporation supplied firegrate, glass doors, outside air system, fan motor, and liners to be free from defects in material or workmanship, as follows:

A. Fireplace and Chimney Components: (exclusive of CFM Corporation-supplied firegrate, glass doors, outside air system, fan motor, and liners all of which are covered by separate warranties under paragraphs B through D below): At its option for a period of thirty (30) years from the date the Fireplace is installed, CFM Corporation will;

(1) For a period of five (5) years from the date the Fireplace is installed, CFM Corporation, at its option, will repair or replace any defective part without charge.

(2) Thereafter, through the 10th year after the date the Fireplace is installed, if replacement parts are available, CFM Corporation will provide a replacement for any defective part without charge for the part itself. The consumer must pay for everything else other than the part.

(3) Thereafter, through the 30th year after the date the Fireplace is installed, if replacement parts are available, CFM Corporation will provide a replacement for any defective part at a cost to the consumer of CFM Corporation then current list price, FOB CFM Corporation factory.

B. Firegrate, Glass Doors, Outside Air System:

For a period of 90 days from the date the Fireplace is installed CFM Corporation, at its option, will provide a replacement for any defective part, without charge for the part itself, FOB CFM Corporation factory. (The consumer must pay for everything else other than the part.).

C. Fan Motor:

(1) For a period of one (1) year from the date the Fireplace is installed, CFM Corporation, at its option, will repair or replace any defective part without charge.

(2) Thereafter, through the 30th year after the date the Fireplace is installed CFM Corporation, at its option, if replacement parts are available, will provide a replacement for any defective part at a cost to the consumer of CFM Corporation then current list price, FOB CFM Corporation factory.

D. Liners (Refractory or Metal):

(1) For a period of two (2) years from the date the Fireplace is installed, CFM Corporation, at its option, will repair or replace any defective part without charge.

(2) Thereafter, through the 30th year after the date the Fireplace is installed CFM Corporation, if replacement parts are available, will provide a replacement for any defective part at a cost to the consumer of CFM Corporation then current list price, FOB CFM Corporation factory.

This warranty is subject to the following conditions and limitations:

(1) This warranty is extended only to a Fireplace installed in the continental United States, the state of Alaska and Canada; only if and so long as the Fireplace is installed according to the installation instructions furnished with the Fireplace, and operated at all times

under normal conditions, use and service according to the operative instructions furnished with the Fireplace, and only if and so long as the Fireplace is not removed from its original installation.

(2) This warranty is non-transferrable, and is made to the original owner, provided that the purchase was made through an authorized supplier of the Company.

(3) The sole and exclusive remedies for breach of any warranties hereunder shall be for the repair, replacement or provision of a replacement part at CFM Corporation then current list price, FOB CFM Corporation factory, for any defective part as specified in paragraphs A through D.

(4) CFM Corporation shall not be liable for damage from any smoking of a MAJESTIC FIREPLACES Pre-Engineered Fireplace System related to environmental geographic conditions (such as, for example, nearby structures or roof peaks, trees, hills, or mountains), inadequate ventilation, or negative air pressure in the place where the Fireplace system is installed, related to any mechanical system (such as, for example, furnaces, fans, air conditioners, clothes dryers, etc.)

(5) Except as otherwise expressly specified in paragraphs A through D, NONE OF THESE WARRANTIES COVER, AND CFM CORPORATION SHALL NOT BE RESPONSIBLE FOR, ANY CONSTRUCTION, INSTALLATION, LABOR, TRANSPORTATION OR OTHER COSTS OR EXPENSES ARISING FROM A DEFECTIVE PART, ITS REPAIR OR REPLACEMENT OR OTHERWISE, NOR SHALL CFM CORPORATION IN ANY EVENT BE RESPONSIBLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES EXCEPT TO THE EXTENT REQUIRED BY LAW. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion or limitation may not apply to you.

NO IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL REMAIN IN EFFECT AFTER THE EXPIRATION OF THE WARRANTIES SET FORTH IN PARAGRAPHS A THROUGH D. Some states do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you.

In order to obtain performance of any of the above warranty obligations write to CFM Corporation at this address:

CFM Corporation
2695 Meadowvale Blvd.
Mississauga, Ontario, Canada L5N 8A3
Attention: Director of Warranty Services

Since local building requirements may vary greatly throughout the country, users of CFM Corporation products should determine in advance whether there are any building code restrictions on the use of a specific product. CFM CORPORATION MAKES NO REPRESENTATION OR WARRANTY REGARDING, AND SHALL NOT BE RESPONSIBLE FOR, ANY BUILDING CODE COMPLIANCE.

The foregoing warranties give you specific legal rights and you may also have other rights which vary from state to state.

CFM Corporation

2695 Meadowvale Blvd. • Mississauga, Ontario, Canada L5N 8A3
800-668-5323 • www.cfmcorp.com

© CFM Corporation



FEMA

NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE

AND

INSTRUCTIONS

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expires February 28, 2009

Important: Read the instructions on pages 1-8.

RwP no.- 051087	SECTION A - PROPERTY INFORMATION	For Insurance Company Use:
A1. Building Owner's Name ROBERTO CANNAROZZO		Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 58 BROWER DRIVE		Company NAIC Number
City BRICK State NJ ZIP Code 08723		

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOT: 5 & 5.01 BLOCK: 88.01

- A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) **RESIDENTIAL**
- A5. Latitude/Longitude: Lat. **40D 02' 59"** Long. **74D 04' 49"** Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983
- A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
- A7. Building Diagram Number **8**
- A8. For a building with a crawl space or enclosure(s), provide
- a) Square footage of crawl space or enclosure(s) _____ sq ft
 - b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade _____
 - c) Total net area of flood openings in A8.b _____ sq in
- A9. For a building with an attached garage, provide:
- a) Square footage of attached garage _____ sq ft
 - b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade _____
 - c) Total net area of flood openings in A9.b _____ sq in

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number BRICK TOWNSHIP 345285		B2. County Name OCEAN		B3. State NEW JERSEY	
B4. Map/Panel Number 345285 0005	B5. Suffix D	B6. FIRM Index Date 7/15/1992	B7. FIRM Panel Effective/Revised Date JULY 15, 1992	B8. Flood Zone(s) A5	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 6.0'

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.

☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other (Describe) _____

B11. Indicate elevation datum used for BFE in Item B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe) _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date _____ ☐ CBRS ☐ OPA

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

- C1. Building elevations are based on: ☒ Construction Drawings* ☐ Building Under Construction* ☐ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
- C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-g below according to the building diagram specified in Item A7.
Benchmark Utilized **MON T-54** Vertical Datum **NGVD1929**
Conversion/Comments **NA**

Check the measurement used.

- a) Top of bottom floor (including basement, crawl space, or enclosure floor) **CF 4.60** ☒ feet ☐ meters (Puerto Rico only)
- b) Top of the next higher floor **FF 8.10** ☒ feet ☐ meters (Puerto Rico only)
- c) Bottom of the lowest horizontal structural member (V Zones only) **NA** ☒ feet ☐ meters (Puerto Rico only)
- d) Attached garage (top of slab) **GF 4.80** ☒ feet ☐ meters (Puerto Rico only)
- e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment in Comments) **AC 6.0** ☒ feet ☐ meters (Puerto Rico only)
- f) Lowest adjacent (finished) grade (LAG) **4.6** ☒ feet ☐ meters (Puerto Rico only)
- g) Highest adjacent (finished) grade (HAG) **4.8** ☒ feet ☐ meters (Puerto Rico only)

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

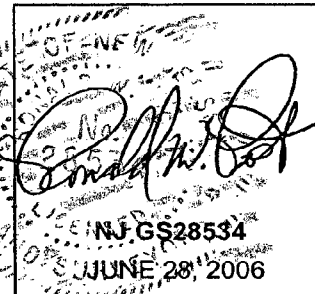
☒ Check here if comments are provided on back of form.

Certifier's Name **Ronald W Post** License Number N.J. Lic. No. **GS28534**

Title **Professional Land Surveyor** Company Name **Ronald W. Post Surveying, Inc.**

Address **1792 Hinds Road** City **Toms River** State **NJ** ZIP Code **08753**

Signature **Ronald W. Post** Date **6/28/2006** Telephone **(732) 255-9050**



IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 58 BROWER DRIVE	Policy Number
City BRICK State NJ ZIP Code 08723	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments

Signature **Ronald W. Post**

Date **6/28/2006**

☐ Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawl space, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- b) Top of bottom floor (including basement, crawl space, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.
- E2. For Building Diagrams 6-8 with permanent flood openings provided in Section A Items 8 and/or 9 (see page 8 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- E3. Attached garage (top of slab) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address City State **NJ** ZIP Code

Signature Date Telephone

Comments

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8. and G9.

- G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. ☐ The following information (Items G4.-G9.) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
-------------------	------------------------	---

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters (PR) Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters (PR) Datum _____

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

☐ Check here if attachments

Building Photographs

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 58 BROWER DRIVE	For Insurance Company Use:
City BRICK State NJ ZIP Code 08723	Policy Number
If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page, following.	

FRONT VIEW – N/A PROPOSED CONSTRUCTION

REAR VIEW – N/A PROPOSED CONSTRUCTION

Building Photographs

Continuation Page

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 58 BROWER DRIVE	For Insurance Company Use:
City BRICK State NJ ZIP Code 08723	Policy Number
	Company NAIC Number
If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View."	

RIGHT VIEW – N/A PROPOSED CONSTRUCTION

LEFT VIEW – N/A PROPOSED CONSTRUCTION



FEMA

NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE

AND

INSTRUCTIONS

88.01 5
06-2412

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expires February 28, 2009

Important: Read the instructions on pages 1-8.

RwP no.- 051087	SECTION A - PROPERTY INFORMATION	For Insurance Company Use:
A1. Building Owner's Name ROBERTO CANNAROZZO		Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 58 BROWER DRIVE		Company NAIC Number
City BRICK State NJ ZIP Code 08723		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOT: 5 & 5.01 BLOCK: 88.01		

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) **RESIDENTIAL**

A5. Latitude/Longitude: Lat. **40D 3' 0.25"** **Long.** **74D 4' 48.14"**

Horizontal Datum: ☐ **NAD 1927** ☒ **NAD 1983**

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number **8**

A8. For a building with a crawl space or enclosure(s), provide

- a) Square footage of crawl space or enclosure(s) **1122** sq ft
b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade **7**
c) Total net area of flood openings in A8.b **1400** sq in

A9. For a building with an attached garage, provide:

- a) Square footage of attached garage **444** sq ft
b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade **0**
c) Total net area of flood openings in A9.b **0** sq in

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number BRICK TOWNSHIP 345285		B2. County Name OCEAN		B3. State NEW JERSEY	
B4. Map/Panel Number 34029 C 0212	B5. Suffix F	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date SEPT. 29, 2006	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 6.0'

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.

☐ **FIS Profile** ☒ **FIRM** ☐ **Community Determined** ☐ **Other (Describe)** _____

B11. Indicate elevation datum used for BFE in Item B9: ☐ **NGVD 1929** ☒ **NAVD 1988** ☐ **Other (Describe)** _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ **Yes** ☒ **No**
Designation Date _____ ☐ **CBRS** ☐ **OPA**

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ **Construction Drawings*** ☐ **Building Under Construction*** ☒ **Finished Construction**

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-g below according to the building diagram specified in Item A7.

Benchmark Utilized **MON T-54** **Vertical Datum** **NAVD1988**

Conversion/Comments **NA**

Check the measurement used.

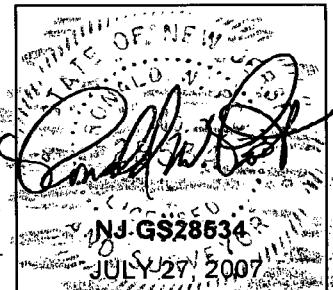
- a) **Top of bottom floor (including basement, crawl space, or enclosure floor).** **CF 3.83** ☒ **feet** ☐ **meters (Puerto Rico only)**
b) **Top of the next higher floor** **FF 7.54** ☒ **feet** ☐ **meters (Puerto Rico only)**
c) **Bottom of the lowest horizontal structural member (V Zones only)** **NA** ☒ **feet** ☐ **meters (Puerto Rico only)**
d) **Attached garage (top of slab)** **GF 3.96** ☒ **feet** ☐ **meters (Puerto Rico only)**
e) **Lowest elevation of machinery or equipment servicing the building (Describe type of equipment in Comments)** **AC 6.81** ☒ **feet** ☐ **meters (Puerto Rico only)**
f) **Lowest adjacent (finished) grade (LAG)** **3.50** ☒ **feet** ☐ **meters (Puerto Rico only)**
g) **Highest adjacent (finished) grade (HAG)** **3.50** ☒ **feet** ☐ **meters (Puerto Rico only)**

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

☒ **Check here if comments are provided on back of form.**

Certifier's Name **Ronald W. Post** **License Number N.J. Lic. No.** **GS28534**
Title **Professional Land Surveyor** **Company Name** **Ronald W. Post Surveying, Inc.**
Address **1792 Hinds Road** **City** **Toms River** **State** **NJ** **ZIP Code** **08753**
Signature **Ronald W. Post** **Date** **7/27/2007** **Telephone** **(732) 255-9050**



IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 58 BROWER DRIVE	Policy Number
City BRICK State NJ ZIP Code 08723	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments **UTILITIES IN GARAGE ELEVATED ABOVE GARAGE FLOOR @ EL 7.03**
CRAWL ACCESS IN GARAGE

Signature **Ronald W. Post**

Date **7/27/2007**

☒ Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawl space, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- b) Top of bottom floor (including basement, crawl space, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.
- E2. For Building Diagrams 6-8 with permanent flood openings provided in Section A Items 8 and/or 9 (see page 8 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- E3. Attached garage (top of slab) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, and E are correct to the best of my knowledge.*

Property Owner's or Owner's Authorized Representative's Name

Address	City	State NJ	ZIP Code
Signature	Date	Telephone	
Comments			

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8 and G9.

- G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. ☐ The following information (Items G4.-G9.) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
-------------------	------------------------	---

- G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters (PR) Datum _____
- G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters (PR) Datum _____

Local Official's Name	Title
Community Name	Telephone
Signature	Date
Comments	

☐ Check here if attachments

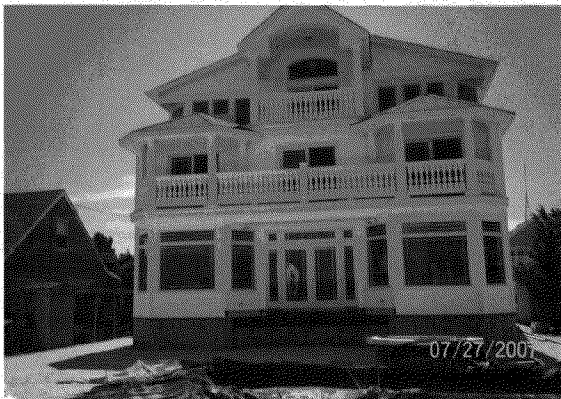
Building Photographs

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 58 BROWER DRIVE	For Insurance Company Use:
City BRICK State NJ ZIP Code 08723	Policy Number
If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page, following.	



FRONT VIEW



REAR VIEW

Building Photographs

Continuation Page

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 58 BROWER DRIVE	For Insurance Company Use:
City BRICK State NJ ZIP Code 08723	Policy Number
If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View."	



RIGHT VIEW



LEFT VIEW



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION

(See Issuing Division below)

P E R M I T *



The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to the further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit.

Permit No. 1506-06-0022.1 WFD060001, CAF060001 Application No. 1506-06-0022.1 WFD060001, CAF060001

Issuance Date **MAY 03 2006** Effective Date **MAY 03 2006** Expiration Date **MAY 03 2011**

Name and Address of Applicant: Roberto & Carolyn Cannarozzo, 24 East 31st Street, Bayonne, NJ 07002
Name and Address of Owner: SAME
Name and Address of Operator: SAME

Location of Activity/Facility (Street Address): 58 Brower Drive, Brick Township, Ocean County, Lots: 5 & 5.01 Block: 88.01
Issuing Division: Land Use Regulation
Statute(s): NJSA 12:5-3, NJSA 13:19-1, NJSA 58:10A-1

Type of Permit: Waterfront Development, SPGP 19, CAFRA, Water Quality Certificate
Maximum Approved Capacity, if applicable:

This permit grants permission to:

Remove the existing single family dwelling and construct a new 3 story single family dwelling and 16' x 30' kidney shaped in-ground swimming pool. Also to legalize the existing 6' x 78' pier with an 8' x 10' "L" section, a 13.5' x 15' boatlift, a jet ski lift and three mooring piles. **The existing 8' x 14' deck over the water shall be removed prior to construction.**

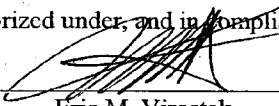
This project is shown on approved drawing entitled "Survey of Property w/ Topography & Plot Plan w/ Grading for Roberto Cannarozzo, 58 Brower Drive, Lots 5 & 5.01, Block 88.01, Brick Township, Ocean County, New Jersey," prepared by Ronald W. Post, dated January 20, 2006, last revised February 1, 2006.

This permit is issued in accordance with a Tidelands Grant issued to Joseph & Anna Chmiel, January 7, 1959, Liber F-4, page 0129.

The permittee shall allow an authorized representative of the Department the right to inspect construction pursuant to N.J.A.C. 7:7-1.5(b)4.

This permit is authorized under, and in compliance with, all the Rules on Coastal Zone Management.

Prepared By:


Eric M. Virostek
Project Manager

(See page 3 for section chief's signature.)

Revised Date: _____
Approved by the Department of Environmental Protection
Name (Print or Type) _____ Title _____
Signature _____ Title _____

* The word permit means "approval, certification, registration, etc."

This permit is subject to the following terms and conditions:

1. This permit is revocable, or subject to modification or change at any time, pursuant to the applicable regulations, when in the judgement of the Department of Environmental Protection of the State of New Jersey such revocation, modification or change shall be necessary.
2. The issuance of the permit shall not be deemed to affect in any way action by the ~~Department of Environmental Protection of the State of New Jersey on any future application.~~
3. The works, facilities, and/or activities shown by plans and/or other engineering data, which are this day approved, subject to the conditions herewith established, shall be constructed and/or executed in conformity with such plans and/or engineering data and the said conditions.
4. No change in plans or specifications shall be made except with the prior written permission of the Department of Environmental Protection of the State of New Jersey.
5. The granting of this permit shall not be construed to in any way affect the title or ownership of property, and shall not make the Department of Environmental Protection or the State a party in any suit or question of ownership.
6. This permit does not waive the obtaining of Federal or other State or local government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained.
7. A copy of this permit shall be kept at the work site, and shall be exhibited upon request of any person.
8. In cases of conflict, the conditions of this permit shall supersede the plans and/or engineering data.

This permit is issued subject to and provided the following conditions can be met to the satisfaction of the Division of Land Use Regulation. All conditions must be met prior to construction unless otherwise specified. Compliance with Administrative conditions shall be determined once copies of all specified permits, certifications, plans, agreements, etc. have been received and approved by the Division of Land Use Regulation. As per NJAC 7:7-1.4, the permittee must notify the Office of Enforcement Policy, (1510 Hooper Avenue, Toms River, NJ 08753), in writing, at least three (3) days prior to commencement of construction or site preparation.

ADMINISTRATIVE

1. This permit shall be RECORDED in the office of the County Clerk (the REGISTRAR OF DEEDS AND MORTGAGES in the applicable counties) in the county wherein the lands included in the permit are located within ten (10) days after receipt of the permit by the applicant and verified notice shall be forwarded to the Division of Land Use Regulation immediately thereafter.
2. This permit is NOT VALID until the permit acceptance form has been signed by the applicant, accepting and agreeing to adhere to all permit conditions, and returned to the Division of Land Use Regulation at P.O. Box 401, Trenton, NJ 08625.

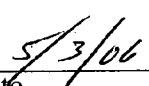
3. This permit does not authorize any dredging activities. If dredging is required in the future, a new Waterfront Development application showing compliance with 7:7E-4.2(g) will be required to be submitted to this Division.

PHYSICAL

1. Prior to sit preparation for the house or pool and within 30 days of permit issuance, the existing 8' x 14' deck over the water shall be removed by the applicant.
2. The construction of a swimming pool backwash system outletting to the adjacent waterbody is prohibited.
3. No more than four vessels may be moored at this location at any given time.
4. Space between horizontal planking and width of horizontal planking shall be as follows: 3/8 inch, 1/2 inch, 3/4 inch, or one inch space is to be provided for four inch, six inch, eight to 10 inch, or 12 inch plus wide planks, respectively.
5. Clean fill from an upland source shall be used for backfill.
6. A silt fence with a 10-foot landward return must be erected at the limit of disturbance along the waterward side of development before construction begins. This fence must be maintained and remain in place until all construction and landscaping is completed.
7. The use of plastic under landscaped or gravel areas is prohibited. All sub-gravel liners must be made of filter cloth or other permeable material.
8. The driveway must be covered with a permeable material or pitched to drain all runoff onto permeable areas of the site.
9. The single family home and all accessory structures shall be set back at least 15 feet from the existing bulkhead.
10. The proposed dwelling shall comply with the elevation and flood proofing requirements of the National Flood Insurance Program regulations at 44CFR Chapter 1.



Andrew Heyl, Supervisor
Bureau of Coastal Regulation



Date

DEPARTMENT OF THE ARMY GENERAL PERMIT
NEW JERSEY-SPGP-19

PERMITTEE AND PERMIT NUMBER: 1500-00-0022.1 WFB/CAF 060001

Roberto & Carolyn Cannarozzo

CENAP-OP-R-SPGP-19

ISSUING OFFICE:

Department of the Army
U.S. Army Corps of Engineers, Philadelphia District
Wanamaker Building - 100 Penn Square East
Philadelphia, Pennsylvania 19107-3390

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

PROJECT DESCRIPTION: Construction of proposed and maintenance of existing non-commercial piers, docks, mooring piles, boat lifts, timber breakwaters and the replacement of existing serviceable bulkheads. This general permit also authorizes the discharge of fill material between existing and proposed bulkheads as well as legalization of previously existing structures provided the structures meet all terms and conditions of this permit.

PROJECT LOCATION: Navigable waters of the United States in the State of New Jersey. This general permit is applicable to navigable waters located within the geographic boundaries of both the Philadelphia District and the New York District, U.S. Army Corps of Engineers.

TERMS OF AUTHORIZATION:

1. That in order for work and structures to be approved by this general permit the work and structures must be reviewed and receive the approval(s) of the New Jersey Department of Environmental Protection (NJDEP), pursuant to N.J.S.A. 12:5-3 (Waterfront Development Permit), N.J.S.A. 13:9A-1 et seq (Wetlands Permit) and New Jersey Water Pollution Control Act, N.J.S.A. 58, 10A (Water Quality Certificate). Additionally, in order for work to be approved under this general permit, you must be furnished a copy of this general permit from the NJDEP at the time you receive your State approval.
2. This general permit is not applicable to work which is authorized by the State due to failure of the State to make a permit decision within the review period mandated by State Law and/or regulation. This general permit is not applicable when work is authorized by the State as part of a settlement agreement or administrative consent order or through an exemption such as in State regulations N.J.A.C. 7:7-2.3(d) ("Zanes").