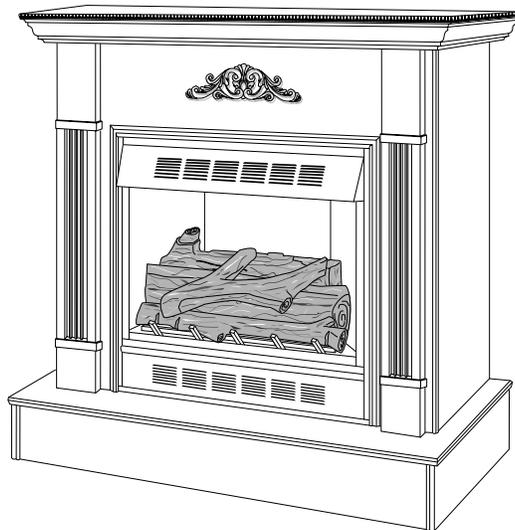


*Comfort Glow*<sup>®</sup>

# UNVENTED (VENT-FREE) PROPANE/LP GAS FIREPLACE

## OWNER'S OPERATION AND INSTALLATION MANUAL

**CGFP28P  
AND  
CGFP28PT**



Shown with optional  
cabinet mantel and  
hearth base.

**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.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
  - Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.

**WARNING:** This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to *Air for Combustion and Ventilation* section on page 4 in this manual.

This appliance may be installed in an aftermarket\* manufactured (mobile) home, where not prohibited by state or local codes.

\* Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer

**Save this manual for future reference.**

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### SAFETY INFORMATION

#### WARNINGS

**IMPORTANT:** Read this owner's manual carefully and completely before trying to assemble, operate, or service this fireplace. Improper use of this fireplace can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

** DANGER:** Carbon monoxide poisoning may lead to death!

**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, the fireplace may not be working properly. **Get fresh air at once!** Have fireplace serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

**Propane Gas:** Propane gas is odorless. An odor-making agent is added to the gas. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

Make certain you read and understand all Warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

** WARNING:** Any change to this fireplace or its controls can be dangerous.

1. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.
2. Do not place propane supply tank(s) inside any structure. Locate propane supply tank(s) outdoors.
3. If you smell gas
  - shut off gas supply
  - do not try to light any appliance
  - do not touch any electrical switch; do not use any phone in your building
  - immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions
  - if you cannot reach your gas supplier, call the fire department
4. This fireplace shall not be installed in a bedroom or bathroom.
5. Never install the fireplace
  - in a recreational vehicle
  - where curtains, furniture, clothing, or other flammable objects are less than 42 inches from the front, top, or sides of the fireplace
  - in high traffic areas
  - in windy or drafty areas
6. Do not use this fireplace as a wood-burning fireplace. Use only the logs provided with the fireplace.
7. Do not add extra logs or ornaments such as pine cones, vermiculite, or rock wool. Using these added items can cause sooting. Do not add lava rock around base. Rock and debris could fall into the control area of fireplace.
8. You must operate this fireplace with the fireplace screen in place. Make sure fireplace screen is in place before running fireplace.
9. This fireplace is designed to be smokeless. If logs ever appear to smoke, turn off fireplace and call a qualified service person. **Note:** During initial operation, slight smoking could occur due to log curing and fireplace burning manufacturing residues.
10. To prevent the creation of soot, follow the instructions in *Cleaning and Maintenance*, page 21.
11. Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting.
12. Before using furniture polish, wax, carpet cleaner, or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls or furniture.
13. Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.
14. This fireplace needs fresh air ventilation to run properly. This fireplace has an oxygen depletion sensor (ODS) pilot light safety system. The ODS shuts down the fireplace if not enough fresh air is available. See *Air for Combustion and Ventilation*, pages 4 through 6. If fireplace keeps shutting off, see *Troubleshooting*, pages 22 through 24.
15. Do not run fireplace
  - where flammable liquids or vapors are used or stored
  - under dusty conditions
16. Do not use this fireplace to cook food or burn paper or other objects.
17. Never place any objects in the fireplace or on logs.
18. Fireplace front and screen becomes very hot when running fireplace. Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Fireplace will remain hot for a time after shutdown. Allow surfaces to cool before touching.
19. Carefully supervise young children when they are in the room with fireplace.
20. Do not use fireplace if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water.
21. Do not operate fireplace if any log is broken. Do not operate fireplace if a log is chipped (dime-sized or larger).
22. Turn fireplace off and let cool before servicing. Only a qualified service person should service and repair fireplace.
23. Operating fireplace above elevations of 4,500 feet could cause pilot outage.
24. To prevent performance problems, do not use propane fuel tank of less than 100 lbs. capacity.

# OWNER'S MANUAL

## PRODUCT IDENTIFICATION

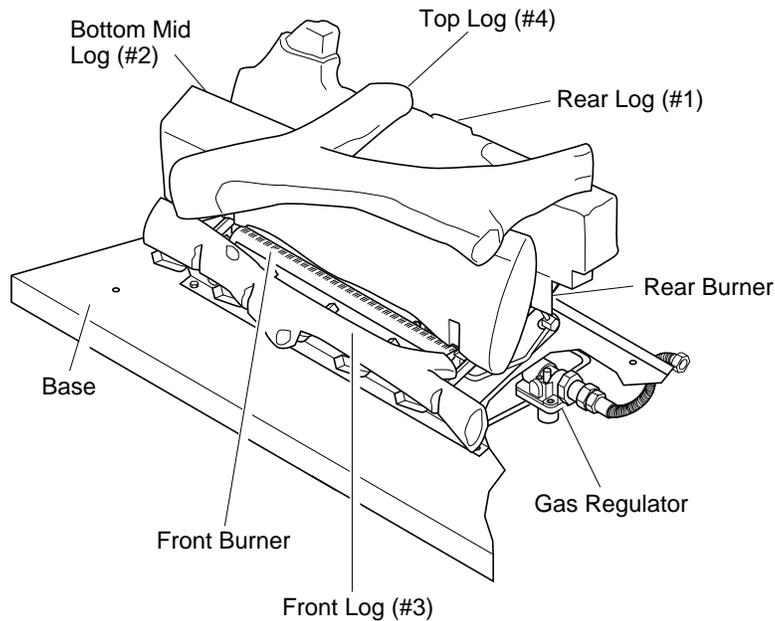


Figure 1 - Log Base Assembly

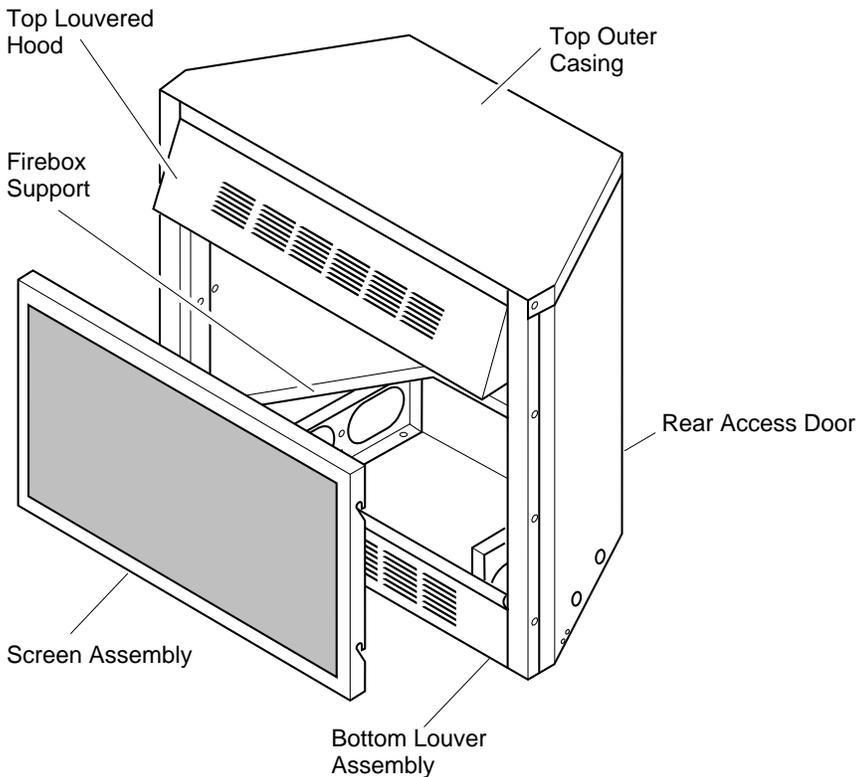


Figure 2 - Fireplace

## LOCAL CODES

Install and use fireplace with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code ANS Z223*, also known as NFPA 54\*.

\*Available from:

American National Standards Institute, Inc.  
1430 Broadway  
New York, NY 10018

National Fire Protection Association, Inc.  
Batterymarch Park  
Quincy, MA 02269

## UNPACKING

**CAUTION:** Do not remove the metal data plates from the grate assembly. The data plates contain important product information.

1. With utility knife, cut the carton all the way around above the staples on the bottom tray. Lift the carton off the firebox. Remove packing.
2. Locate two screws above top corners of the fireplace screen. Remove and discard these screws. Lift fireplace screen up and pull out to remove.
3. Remove protective packaging applied to logs, log base assembly, and fireplace.
4. Check all items for any shipping damage. If damaged, promptly inform dealer where you bought fireplace.

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### PRODUCT FEATURES OPERATION

This vent-free fireplace is clean burning. It requires no outside venting. There is no heat loss out a vent or up a chimney. Heat is generated by both realistic flames and glowing embers. The fireplace requires no electricity making it ideal for emergency backup heat.

### SAFETY FEATURES

This fireplace has a pilot with an Oxygen Depletion Sensor Shutoff System (ODS). The ODS/pilot is a required feature for vent-free room heaters. The ODS system protects against oxygen depletion and any interruption in the fuel supply. If either occurs, the ODS shuts off gas flow to the burner, turning the fireplace off. An internal regulator controls fluctuations in your gas pressure.

### PIEZO IGNITION SYSTEM

This fireplace has a piezo ignitor. This system requires no matches, batteries, or other sources to light fireplace.

### THERMOSTAT CONTROL MODELS (CGFP28PT)

These fireplaces have a thermostat sensing bulb and a control valve. The thermostat controls the heat output and flame height. This maintains a consistent room temperature. Even the lowest setting provides realistic flames and glowing embers from two burners. Selecting higher comfort settings allows fireplace to run longer, producing greater heat output. At lower comfort settings, the fireplace will run less. This results in increased heating comfort. This can also result in lower gas bills. An optional thermostatically (GA3650T) or manually (GA3750) controlled blower is available (see *Accessories*, page 32).

### VARIABLE MANUAL CONTROL (CGFP28P)

These fireplaces have a variable manual control valve which allows the user to choose the heat setting that best suits his needs. Any setting between low and high may be selected by simply turning the control knob. An optional manually controlled blower (GA3750) is available (see *Accessories*, page 32).

### AIR FOR COMBUSTION AND VENTILATION

**⚠ WARNING:** This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

Today's homes are built more energy efficient than ever. New materials, increased insulation, and new construction methods help reduce heat loss in homes. Home owners weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, home owners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, fireplaces, clothes dryers, and fuel burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will insure proper venting of vented fuel-burning appliances.

### PROVIDING ADEQUATE VENTILATION

The following are excerpts from *National Fuel Gas Code. NFPA 54/ANS Z223.1, Section 5.3, Air for Combustion and Ventilation.*

All spaces in homes fall into one of the three following ventilation classifications:

1. Unusually Tight Construction
2. Unconfined Space
3. Confined Space

The information on pages 4 through 6 will help you classify your space and provide adequate ventilation.

### Unusually Tight Construction

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in

buildings of unusually tight construction, you must provide additional fresh air.

Unusually tight construction is defined as construction where:

- a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm ( $6 \times 10^{-11}$  kg per pa-sec- $m^2$ ) or less with openings gasketed or sealed and
- b. weather stripping has been added on openable windows and doors and
- c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings.

If your home meets all of the three criteria above, you must provide additional fresh air. See *Ventilation Air From Outdoors*, page 6.

If your home does not meet all of the three criteria above, proceed to *Determining Fresh-Air Flow For Fireplace Location*, page 5..

### Confined Space and Unconfined Space

*The National Fuel Gas Code (ANS Z223.1, 1992 Section 5.3)* defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour ( $4.8 \text{ m}^3$  per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour ( $4.8 \text{ m}^3$  per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed\*, through openings not furnished with doors, are considered a part of the unconfined space.

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

\* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

# OWNER'S MANUAL

## AIR FOR COMBUSTION AND VENTILATION

*Continued*

### DETERMINING FRESH-AIR FLOW FOR FIREPLACE LOCATION

#### Determining if You Have a Confined or Unconfined Space

Use this work sheet to determine if you have a confined or unconfined space.

**Space:** Includes the room in which you will install fireplace plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

1. Determine the volume of the space (length x width x height).

Length x Width x Height = \_\_\_\_\_ cu. ft. (volume of space)

*Example:* Space size 22 ft. (length) x 18 ft. (width) x 8 ft. (ceiling height) = 3168 cu. ft. (volume of space)

If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.

2. Divide the space volume by 50 cubic feet to determine the maximum Btu/Hr the space can support.

\_\_\_\_\_ (volume of space) ÷ 50 cu. ft. = (Maximum Btu/Hr the space can support)

*Example:* 3168 cu. ft. (volume of space) ÷ 50 cu. ft. = 63.3 or 63,300 (maximum Btu/Hr the space can support)

3. Add the Btu/Hr of all fuel burning appliances in the space.

Vent-free fireplace \_\_\_\_\_ Btu/Hr

Gas water heater\* \_\_\_\_\_ Btu/Hr

Gas furnace \_\_\_\_\_ Btu/Hr

Vented gas heater \_\_\_\_\_ Btu/Hr

Gas fireplace logs \_\_\_\_\_ Btu/Hr

Other gas appliances\* + \_\_\_\_\_ Btu/Hr

Total = \_\_\_\_\_ Btu/Hr

*Example:*

Gas water heater      40,000      Btu/Hr

Vent-free fireplace +      28,000      Btu/Hr

Total                      =      68,000      Btu/Hr

\* Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

4. Compare the maximum Btu/Hr the space can support with the actual amount of Btu/Hr used.

\_\_\_\_\_ Btu/Hr (maximum the space can support)

\_\_\_\_\_ Btu/Hr (actual amount of Btu/Hr used)

*Example:* 63,300 Btu/Hr (maximum the space can support)

68,000 Btu/Hr (actual amount of Btu/Hr used)

The space in the above example is a confined space because the actual Btu/Hr used is more than the maximum Btu/Hr the space can support. You must provide additional fresh air. Your options are as follows:

- A. Rework work sheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See *Ventilation Air from Inside Building*, page 6.
- B. Vent room directly to the outdoors. See *Ventilation Air from Outdoors*, page 6.
- C. Install a lower Btu/Hr fireplace, if lower Btu/Hr size makes room unconfined.

If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

**⚠ WARNING:** If the area in which the heater may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the *National Fuel Gas Code, ANS Z223.1, 1992, Section 5.3* or applicable local codes.

*Continued*

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

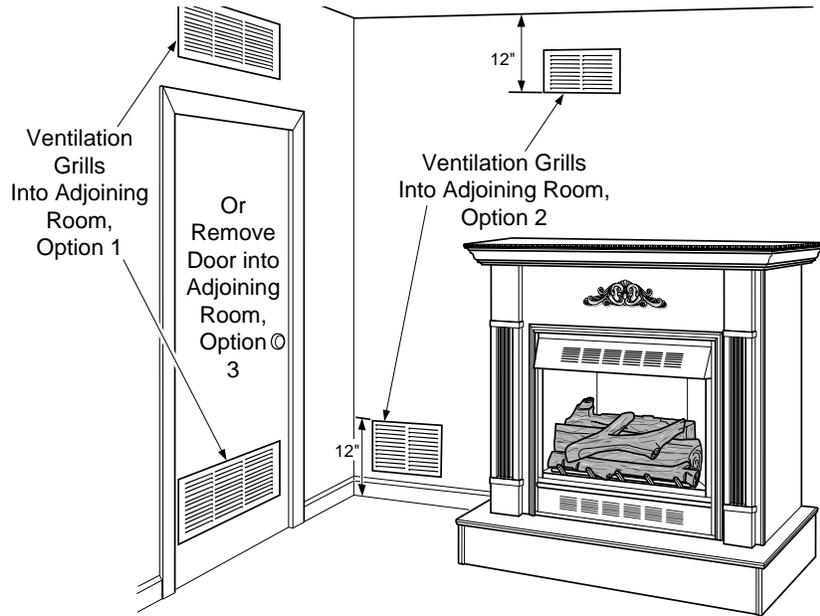
### AIR FOR COMBUSTION AND VENTILATION

*Continued*

#### VENTILATION AIR

##### Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (see options 1 and 2, Figure 3). You can also remove door into adjoining room (see option 3, Figure 3). Follow the *National Fuel Gas Code NFPA 54/ANS Z223.1, Section 5.3, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.



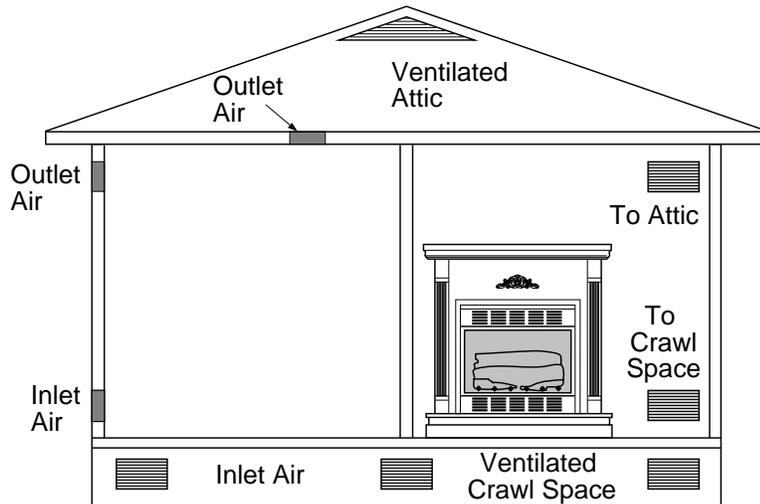
**Figure 3 - Ventilation Air from Inside Building**

**⚠ WARNING: Rework worksheet, adding the space of the adjoining unconfined space. The combined spaces must have enough fresh air to supply all appliances in both spaces.**

##### Ventilation Air From Outdoors

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces.

**IMPORTANT:** Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.



**Figure 4 - Ventilation Air from Outdoors**

# OWNER'S MANUAL

## INSTALLATION

**NOTICE:** This heater is intended for use as supplemental heat. Use this heater along with your primary heating system. Do not install this heater as your primary heat source. If you have a central heating system, you may run system's circulating blower while using heater. This will help circulate the heat throughout the house. In the event of a power outage, you can use this heater as your primary heat source.

**NOTICE:** A qualified service person must install fireplace. Follow all local codes.

**WARNING:** Never install the fireplace

- in a bedroom or bathroom
- in a recreational vehicle
- where curtains, furniture, clothing, or other flammable objects are less than 42 inches from the front, top, or sides of the fireplace
- in high traffic areas
- in windy or drafty areas

**CAUTION:** This fireplace creates warm air currents. These currents move heat to wall surfaces next to fireplace. Installing fireplace next to vinyl or cloth wall coverings or operating fireplace where impurities (such as tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls.

**IMPORTANT:** Vent-free heaters add moisture to the air. Although this is beneficial, installing fireplace in rooms without enough ventilation air may cause mildew to form from too much moisture. See *Air for Combustion and Ventilation*, pages 4 through 6.

**IMPORTANT:** Make sure the fireplace is level. If fireplace is not level, log set will not work properly.

**Note:** Your Comfort Glow fireplace is designed to be used in zero clearance installations. Wall or framing material can be placed directly against any exterior surface on the rear, sides, or top of your fireplace, except where stand-off spacers are integrally attached. If stand-off spacers are attached to your fireplace, these spacers can be placed directly against wall or framing materials.

Use the dimensions shown for rough openings to create the easiest installation (see *Built-In Fireplace Installation*, page 13).

### CHECK GAS TYPE

Use only propane gas. If your gas supply is not propane gas, do not install fireplace. Call dealer where you bought fireplace for proper type fireplace.

### ELECTRICAL HOOKUP (When Using Optional Blower)

The optional blower accessories (GA3650T and GA3750) have a power cord 5 feet in length. You must locate the fireplace within reach of a 120 volt grounded electrical outlet, or install an electrical outlet within reach of the blower power cord. For built-in installation, an outlet accessory (GA3555) is available (see *Accessories*, page 32). This allows the outlet to be installed inside the firebox. All electrical installations should be performed by a qualified service person.

### ASSEMBLING AND ATTACHING OPTIONAL BRASS TRIM ACCESSORY (Included with Mantel)

**Note:** The instructions below show assembling and attaching brass trim to fireplace.

Do not yet install brass trim if performing a built-in installation (See *Built-In Fireplace Installation*, page 13).

1. Remove packaging from three pieces of brass trim.
2. Locate four brass screws, two adjusting plates with set screws, and two shims in the hardware packet.
3. Align shim under adjusting plate as shown in Figure 5.

4. Slide one end of adjusting plate/shim in slot on mitered edge of top brass trim (see Figure 5).
5. Slide other end of adjusting plate/shim in slot on mitered edge of side brass trim (see Figure 5).
6. While firmly holding edges of brass trim together, tighten both set screws on the adjusting plate with slotted screwdriver.
7. Repeat steps 1 through 6 for other side.
8. Tighten trim hanging screws (#10 x 6.25 shoulder) into holes in cabinets. Place the assembled trim onto fireplace cabinet. Align hanging notches on trim with hanging screws on side of fireplace (see Figure 6). Push trim firmly into place, sliding hanging notches over hanging screws.

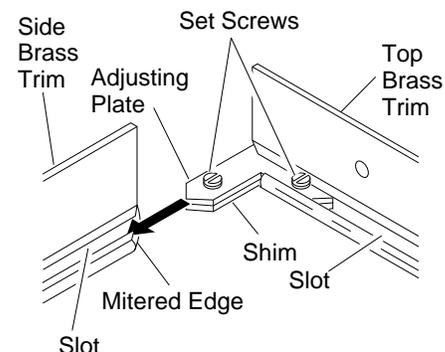


Figure 5 - Assembling Brass Trim

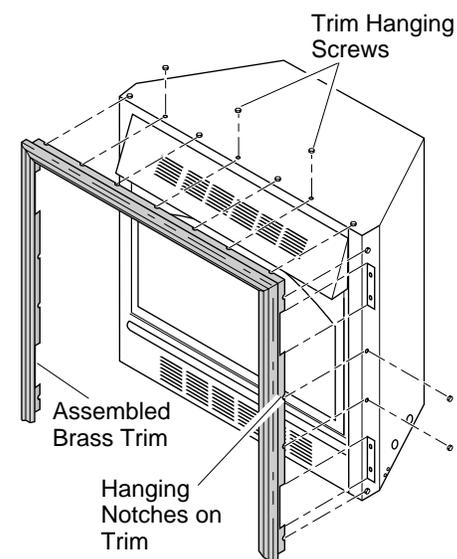


Figure 6 - Attaching Brass Trim to Fireplace

Continued

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### INSTALLATION

*Continued*

#### INSTALLING GA3650T BLOWER ACCESSORY (For CGFP28P Model Only)

**NOTICE: Shut-off gas supply and disconnect heater from gas supply. Contact a qualified service person to do this.**

1. Remove fireplace screen (see Figure 7).

**WARNING: You must operate this fireplace with the fireplace screen in place. Make sure fireplace screen is in place before running fireplace.**

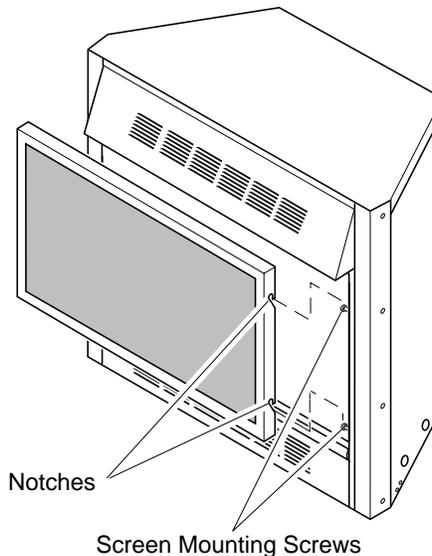
2. If logs are installed, carefully remove the logs and set aside, noting the properly mounted location of each.
3. Remove screws that attach log base assembly to fireplace (do not discard). Carefully lift up log base assembly and remove from fireplace, taking care to pull flexible gas line through the access holes (see Figure 8).

**CAUTION: Do not pick up log base assembly by burners. This could damage burners. Only handle base by grates.**

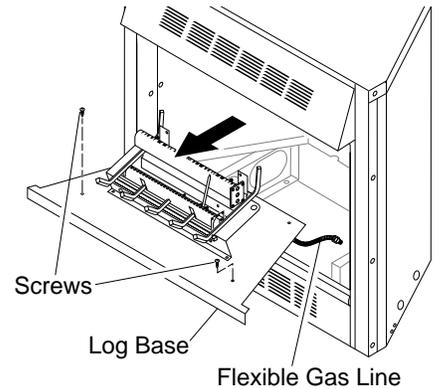
4. Place the blower against lower rear wall of firebox outer wrapper with the exhaust port directed upward. Align the holes in top mounting tabs of blower with holes in wall of wrapper (see Figure 9). Using two #8 screws provided, mount blower and tighten screws firmly.
5. Route terminal end of power cord through large hole near top of left floor support bracket. Make sure to pass the cord from the outside (left side) towards the center of firebox (see Figure 10).
6. Using two #6 screws provided attach power cord mounting plate to the outside face of left floor support plate. Drive screws from inside (right side) of floor support bracket. Attach the plate so that the power cord is directed towards rear of firebox (see Figure 10). Tighten screws firmly.

7. Remove the three screws (do not discard) and cover plate from center of firebox wrapper rear wall. Discard this cover plate.
8. Mount the supplied thermostatic switch and cover assembly into firebox wrapper rear wall. Do this by feeding terminal ends of wire harness into the hole. Allow wires to fall to bottom of firebox cavity (see Figure 11).
9. Using three screws from step 7, attach switch and cover assembly to firebox wrapper rear wall. Tighten screws firmly (see Figure 11).
10. Mount selector switch to front flange of left floor support bracket. Align graphics on switch upright and push firmly to snap switch into rectangular hole. Push the selector switch to the off (middle) position (see Figure 10).
11. Install three plastic wire clips provided into floor support bracket (see Figure 10). Secure by pushing clips firmly into holes.

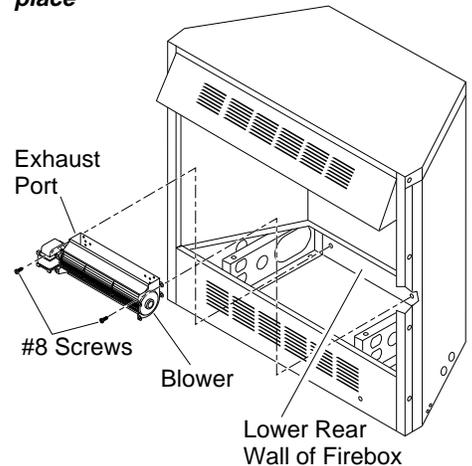
**WARNING: Failure to connect all wires properly as indicated may cause electrical short circuit or personal injury. A qualified electrician should check that all connections are made properly.**



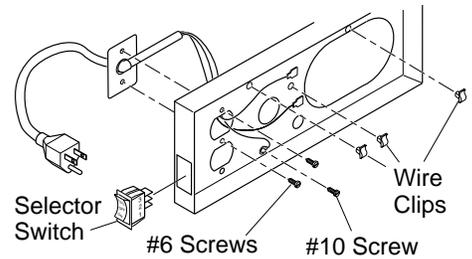
**Figure 7 - Removing Fireplace Screen**



**Figure 8 - Removing Log Base from Fireplace**

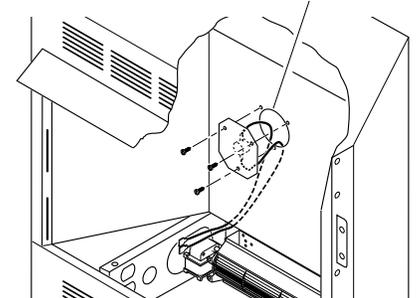


**Figure 9 - Mounting Blower to Firebox**



**Figure 10 - Installing Power Cord, Mounting Plate, and Selector switch**

Switch and Cover Assembly



**Figure 11 - Installing Switch and Cover Assembly**

# OWNER'S MANUAL

## INSTALLATION

### Continued

12. Attach green ground wire ring terminal to floor support bracket using #10 sheet metal grounding screw provided (see Figure 10, page 8). Tighten screw firmly.
13. Attach all five remaining wiring terminals to the appropriate switch or motor terminal. Carefully note the correct color coding (see Figures 12 and 14). Push female wire terminals fully onto male terminal.
14. Secure wires into the appropriate plastic wire clips (see Figure 12).
15. Plug in blower power cord.

**If your fireplace system is installed as a freestanding unit with an accessory mantel,** install one plastic bushing (provided) into the 1.5" hole in the lower left side of the outer casing (see Figure 13). Route power cord through plastic bushing. Plug the power cord into a properly grounded three-prong wall receptacle near the firebox.

**If your fireplace system installation is recessed,** install one plastic bushing provided into the 1.5" hole near the middle of the left floor support bracket (see Figure 13). Route power cord through plastic bushing. Plug the power cord into a properly installed duplex outlet. (If an outlet is not available, the accessory model GA3555 Outlet Kit with cover can be installed in your fireplace. This will supply a convenient three-prong grounded electrical outlet for your blower. Refer to the installation manual provided with the model GA3555 accessory for instructions on wiring the duplex outlet.)

16. Check to make sure that the power cord and wires are completely clear of the blower wheel and that there are no other foreign objects in blower wheel. Turn blower on by pushing the selector switch to the on position and check for operation. Turn blower off before continuing.
17. Peel off the backing paper and stick the supplied wiring diagram decal on the firebox bottom approximately 12" in front of blower.

18. Replace log base assembly in fireplace. Feed flexible gas supply line into fireplace base area while replacing log base assembly. Make sure the entire flexible gas line is in fireplace base area.

**Note:** If firebrick is installed, make sure the back of the firebox bottom slides under the rear panel of the firebrick. (Lift the firebrick up if necessary.)

**IMPORTANT:** Do not pick up log base assembly by burners. This could damage burners. Only handle base by grates.

19. Reattach log base assembly to fireplace with screws removed in step 3.
20. Install logs and fireplace screen per instructions in operating manual provided with fireplace.

**WARNING:** Failure to position the parts in accordance with supplied diagrams or failure to use only parts specifically approved with this heater may result in damage or personal injury.

21. Connect gas supply to fireplace per instructions in operating manual provided with fireplace.

**NOTICE:** A qualified service person must connect fireplace to gas supply. Follow all local codes.

**Note:** To prevent short circuit, white wire MUST be connected to motor.

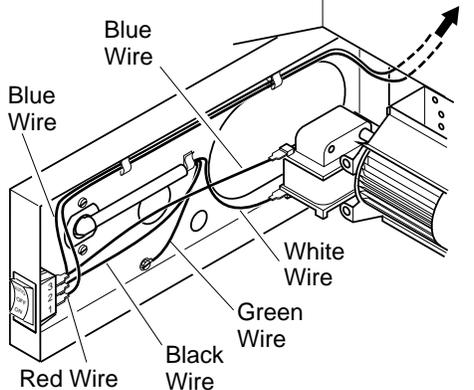


Figure 12 - Wire Attachment

If any of the original wire as supplied with the appliance must be replaced, it must be replaced with 105°C wire or it's equivalent.

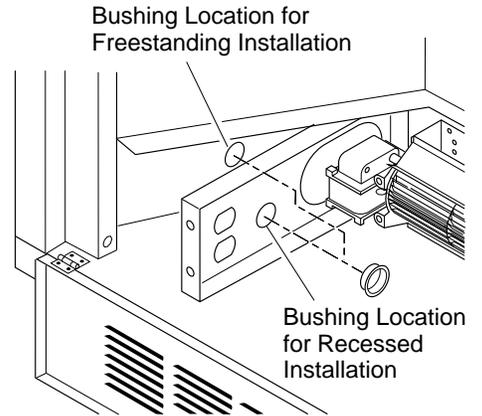


Figure 13 - Installing Bushings

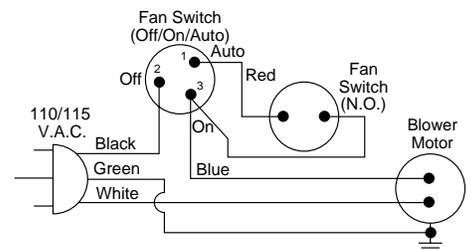


Figure 14 - Wiring Diagram

## OPERATING THE BLOWER

Light your gas appliance with the blower off. After about 5 minutes, turn the blower on to deliver heated air at the top louvers. The thermostatically-controlled blower features a three position switch. The three settings are: ON, OFF, and AUTO. In the ON position, the blower will operate constantly. In the OFF position, the blower will not operate. In the AUTO position, the blower will start when the thermostat senses a sufficient increase in firebox temperature.

**Note:** Your gas logs and thermostat blower will not turn on and off at the same time. The fireplace may run for several minutes before the blower turns on. After the heater modulates to the pilot position, the blower will continue to run. The blower will shut off after the firebox temperature decreases.

**Note:** It is safe to operate fireplace with blower turned off. However, the blower helps distribute heated air from the fireplace.

**Note:** Periodically check the louvers of the firebox and remove any dust, dirt, or other obstructions.

**WARNING:** Never touch the blower wheel while in operation.

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### INSTALLATION

#### Continued

#### INSTALLING GA3650T BLOWER ACCESSORY (For CGFP28PT Model Only)

**NOTICE:** Shut-off gas supply and disconnect heater from gas supply. Contact a qualified service person to do this.

1. Remove fireplace screen (see Figure 15).

**WARNING:** You must operate this fireplace with the fireplace screen in place. Make sure fireplace screen is in place before running fireplace.

2. If logs are installed, carefully remove the logs and set aside, noting the properly mounted location of each.
3. Remove screws that attach log base assembly to fireplace. Carefully lift up log base assembly and remove from fireplace, taking care to pull flexible gas line through the access holes (see Figure 16).

**CAUTION:** Do not pick up log base assembly by burners. This could damage burners. Only handle base by grates.

4. Attach power cord to blower motor by firmly pushing the two female terminals of the power cord onto the two spade terminals on blower motor. Using screw provided, attach ringed terminal of power cord to mounting tab of blower housing (see Figure 17). Tighten screw securely.
5. Place the blower against lower rear wall of firebox outer wrapper with the exhaust port directed upward. Align the holes in top mounting tabs of blower with holes in wall of wrapper (see Figure 17). Using 2 screws provided, mount blower and tighten screws securely.
6. Be certain that all wire terminals are securely attached to terminals on blower motor and that the screw retaining the green ground wire is tight.

7. Place control knob provided on plastic control shaft of speed control.
8. Mount the speed control on the front leg of the left floor support bracket using 2 screws provided (see Figure 18).

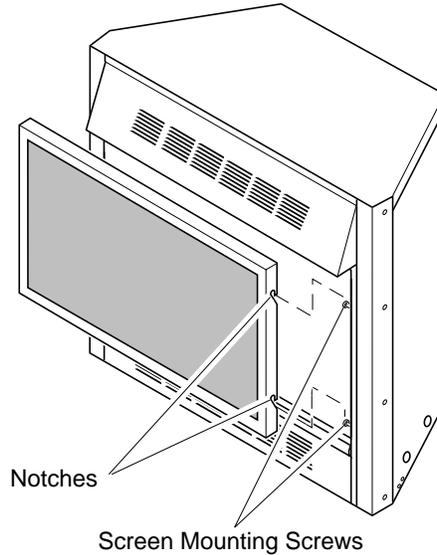


Figure 15 - Removing Fireplace Screen

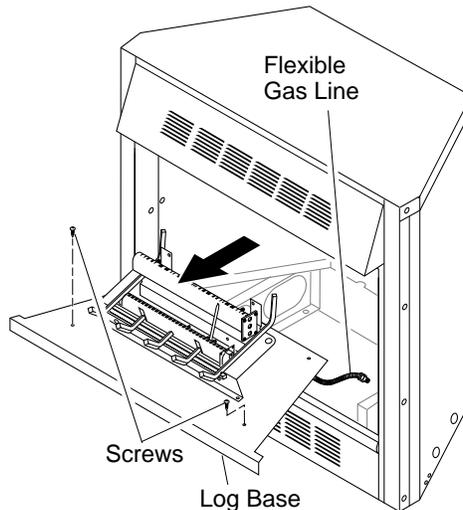


Figure 16 - Removing Log Base from Fireplace

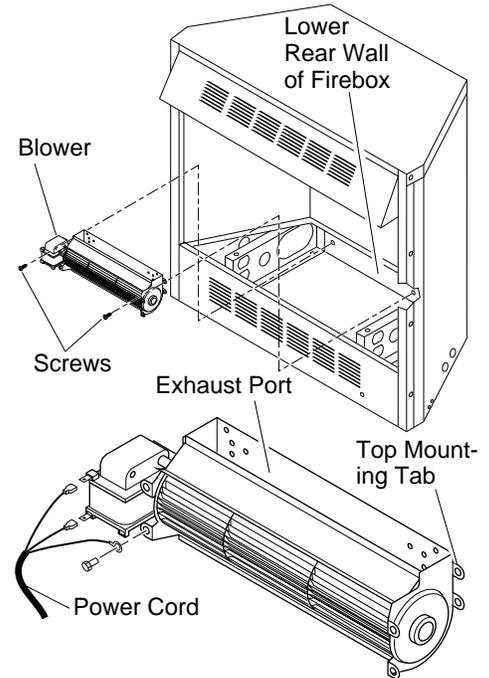


Figure 17 - Mounting Blower to Firebox

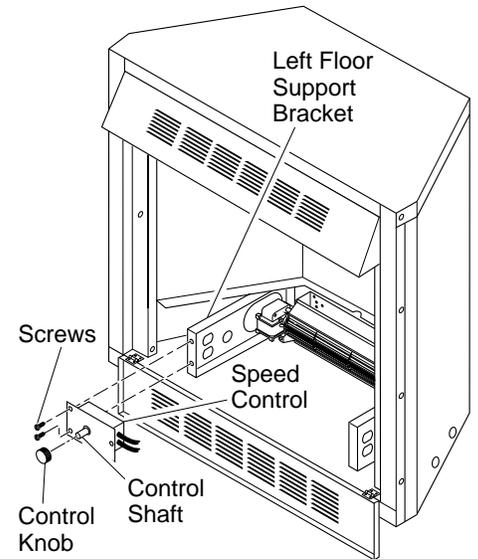


Figure 18 - Attaching Speed Control to Firebox

# OWNER'S MANUAL

## INSTALLATION

### Continued

9. Plug in blower power cord.
  - a. **If your fireplace system is installed as a freestanding unit with an accessory mantel**, determine whether the power cord will exit the left side or the right side of the firebox. Install 1 plastic bushing provided into the 1.5" hole in the floor support bracket on the exit side (see Figure 19). Install the second plastic bushing provided into the 1.5" hole in the outer casing through which the power cord will exit. Route power cord through both plastic bushings and plug the power cord into a properly grounded 3-prong wall receptacle near the firebox.
  - b. **If your fireplace system installation is recessed**, you must install GA3555 Outlet kit with cover in your fireplace which will supply a convenient 3-prong grounded electrical outlet for your blower. Refer to the installation manual provided with the model GA3555 accessory for instructions on wiring the duplex outlet.
 

*Note:* A qualified installer must make all electrical connections.

10. Check to make sure that the power cord is completely clear of the blower wheel and that there are no other foreign objects in blower wheel. Turn blower on and check for operation. Turn blower off by rotating knob fully counterclockwise before continuing.
11. Peel off the backing paper and stick the supplied wiring diagram decal on the firebox bottom approximately 12" in front of blower and 3" to the right of the blower speed control. (see Figure 20).

**WARNING:** Never touch the blower wheel while in operation.

12. Replace log base assembly in fireplace. Feed flexible gas supply line into fireplace base area while replacing log base assembly. Make sure the entire flexible gas line is in fireplace base area.
 

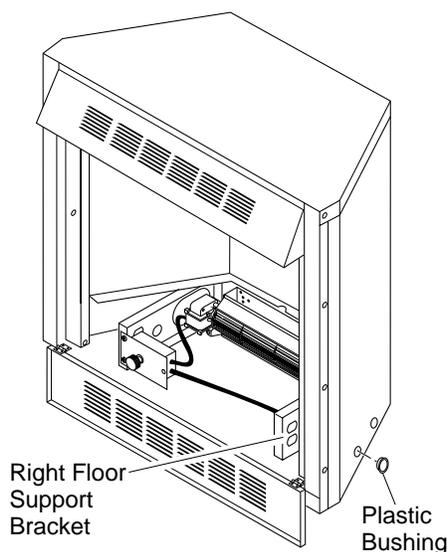
*Note:* If firebrick is installed, make sure the back of the firebox bottom slides under the rear panel of the firebrick. (lift the firebrick up if necessary.)

**IMPORTANT:** Do not pick up log base assembly by burners. This could damage burners. Only handle base by grates.

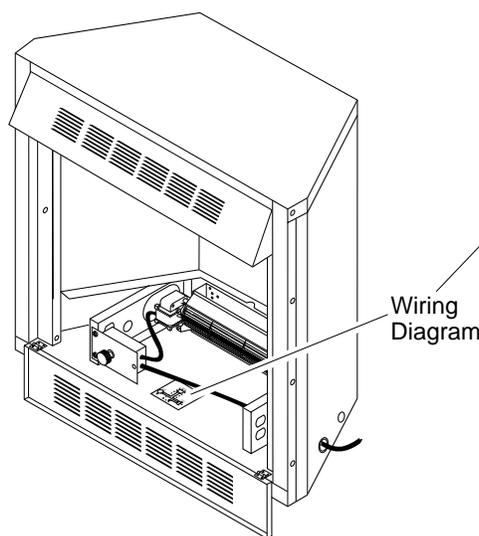
13. Reattach log base assembly to fireplace with screws removed in step 3.

*Note:* Discard the remaining hardware items.

14. Install logs and fireplace screen per instructions in operating manual provided with fireplace.



**Figure 19 - Installing Plastic Bushing for Power Cord**



**Figure 20 - Location of Wiring Diagram Decal, 12" in Front of Blower and 3" from Blower Speed Control**

**WARNING:** Failure to position the parts in accordance with supplied diagrams or failure to use only parts specifically approved with this heater may result in damage or personal injury.

15. Connect gas supply to fireplace per instructions in operating manual provided with fireplace.

**NOTICE:** A qualified service person must connect fireplace to gas supply. Follow all local codes.

### Operating the Blower

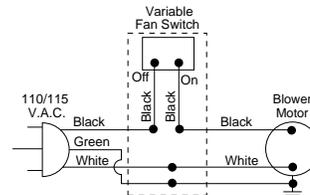
Light your gas appliance with the blower off. After about 15 minutes, turn the blower on to deliver heated air at the top louvers. The blower features a variable control which allows you to select the speed you desire.
 

*Note:* Periodically check the louvers of the firebox and remove any dust, dirt, or other obstructions.

**WARNING:** Never attempt to service heater while it is plugged in, operating, or hot. Burns and electrical shock could result. Only a qualified service person should service or repair heater.

If any of the original wire as supplied with the appliance must be replaced, it must be replaced with 105°C wire or it's equivalent.

**WARNING:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.



120 Vac. 60 Hz. 78 Amps  
DESA International, Bowling Green, KY

101584-05

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### INSTALLATION

*Continued*

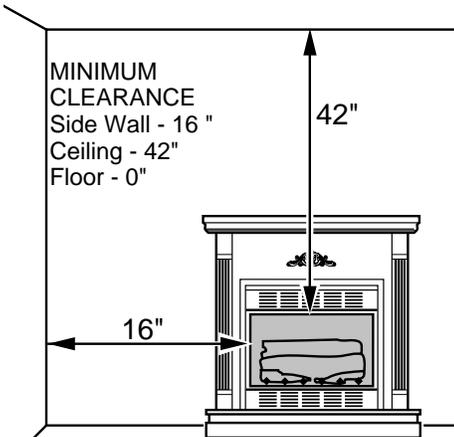
#### INSTALLATION CLEARANCES

**⚠ WARNING: Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling, and adjoining wall.**

Carefully follow the instructions below. This will ensure safe installation.

#### Minimum Wall and Ceiling Clearances (see Figure 21)

- A. Clearances from the side of the fireplace opening to any combustible wall should not be less than 16 inches for a cabinet mantel or 12 inches for a corner installation.
- B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42 inches.



*Note:* Clearances are the same if using optional cabinet mantel or built-in installation.

**Figure 21 - Minimum Clearance to Wall and Ceiling**

#### CONVENTIONAL FIREPLACE INSTALLATION

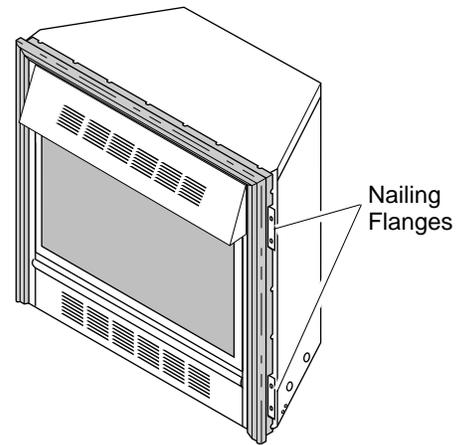
Conventional installation of this fireplace involves installing fireplace along with the corner, face, or cabinet mantel and hearth base accessories against a wall in your home. Follow the instructions below to install the fireplace in this manner.

**⚠ WARNING: For conventional installation, it is recommended you use the cabinet mantel or hearth base specified in this manual. Surface clearances may not be sufficient with other cabinet mantels and hearth bases. This may create a fire hazard. See Accessories, page 32, for correct mantels and hearth bases.**

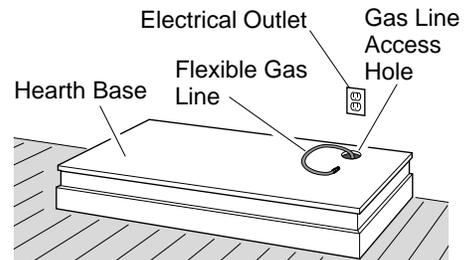
*Note:* The instructions below show installation using the GMC11F/GMC12U/GMC13F series cabinet mantel and the GC3333F/GC3334U/GC3335F series hearth base accessories (see *Accessories*, page 32). A brass trim kit is included with each mantel accessory. The hearth base accessory shown is optional for this installation. You can install fireplace and cabinet mantel directly on the floor.

1. Assemble cabinet mantel, brass trim kit, and hearth base. Assembly instructions are included with each accessory.
2. If installing an optional blower accessory (see *Accessories*, page 32). Install a properly grounded 120 volt, three prong electrical outlet at fireplace location if outlet is not there. If possible, locate outlet so cabinet mantel will cover it when installed (see Figure 24).
3. Break off nailing flanges (see Figure 22) with hammer or pliers.
4. Place mantel and base in desired location. Place heater in front opening of mantel. Make sure all pieces fit properly. Remove mantel.
5. Mark floor and base or wall for gas line entrance. Make sure there is enough clearance between heater and mantel for gas line. **IMPORTANT:** Make sure there are no electrical lines where gas piping will go through floor or wall.

6. Place hearth base accessory against wall at installation location. Cut an access hole in hearth base top to run flexible gas line to fireplace (see Figure 24). Make sure to locate access hole so cabinet mantel will cover it when installed. *Note:* You can secure base to floor using wood screws. Countersink screw heads and putty over.
7. Install gas piping to fireplace location. This installation includes an approved flexible gas line (if allowed by local codes) after the manual shutoff valve. The flexible gas line must be the last item installed on the gas piping. See *Installing Gas Piping to Fireplace Location*, page 14.
8. Carefully place fireplace on top of hearth base (Figure 24, page 13). Be careful not to scratch or damage hearth base. *Note:* You can secure fireplace to hearth or floor. Open louver door. Locate screw holes in bottom of base. Secure with wood screws through these holes and into hearth or floor.



**Figure 22 - Location of Nailing Flanges**



**Figure 23 - Placing Hearth Base Accessory Against Wall**

## INSTALLATION

### Continued

- If using an optional blower, install it now. Follow instructions provided with the blower.
- Connect fireplace to gas supply (see *Connecting Fireplace To Gas Supply*, page 15).
- Check all gas connections for leaks. See *Checking Gas Connections*, pages 15 and 16.
- After heater is secured, replace mantel on hearth base (see Figure 25). Make sure mantel is flush against wall. Install brass trim (see page 7).

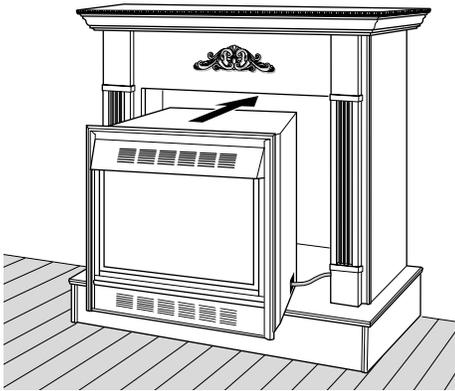


Figure 24 - Inserting Fireplace Into Cabinet Mantel

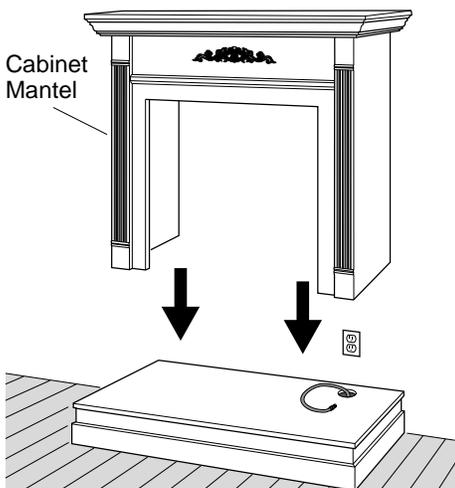


Figure 25 - Installing Cabinet Mantel

## BUILT-IN FIREPLACE INSTALLATION (Check Local Building Codes)

Built-in installation of this fireplace involves installing fireplace into a framed-in enclosure. This makes the front of fireplace flush with wall. An optional brass trim accessory is available (see *Accessories*, page 32). The brass trim will extend past the sides of the fireplace approximately 1/2". This will cover the rough edges of the wall opening. If installing a mantel above the fireplace, but you must follow the clearances shown in Figure 29, page 14. Follow the instructions below to install the fireplace in this manner.

	Actual	Framing
Height	32 <sup>3</sup> / <sub>8</sub> "	33"
Front Width	34 <sup>5</sup> / <sub>16</sub> "	34 <sup>3</sup> / <sub>4</sub> "
Depth	16 <sup>11</sup> / <sub>16</sub> "	17 <sup>3</sup> / <sub>4</sub> "

- Frame in rough opening. Use dimensions shown in Figure 26 for the rough opening. If installing in a corner, use dimensions shown in Figure 27 for the rough opening. The height is 33" which is the same as the wall opening in Figure 26.

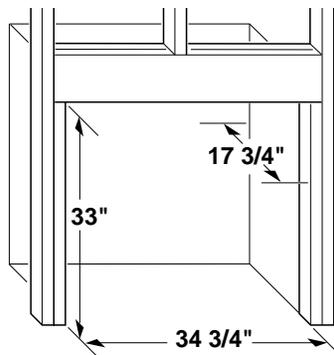


Figure 26 - Rough Opening for Installing in Wall

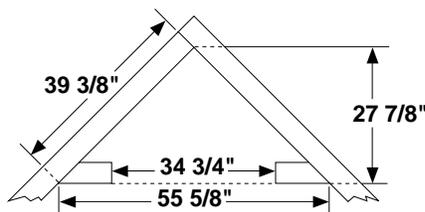


Figure 27 - Rough Opening for Installing in Corner

- If using optional blower, install it now. Also install and properly ground GA3555 three prong 120 volt outlet in fireplace. Follow instructions included in kits.
- Install gas piping to fireplace location. This installation includes an approved flexible gas line (if allowed by local codes) after the manual shutoff valve. The flexible gas line must be the last item installed on the gas piping. See *Installing Gas Piping to Fireplace Location*, page 14.
- Carefully set fireplace in front of rough opening with back of fireplace inside wall opening.
- Attach flexible gas line to fireplace gas regulator. See *Connecting Fireplace to Gas Supply*, page 15.
- Carefully insert fireplace into rough opening.
- Attach fireplace to wall studs using nails or wood screws through holes in nailing flange (see Figure 28).
- Check all gas connections for leaks. See *Checking Gas Connections*, pages 15 and 16.
- If using optional GA7090 Brass Trim Kit, install brass trim after final finishing and/or painting of wall (see Figure 6, page 7).

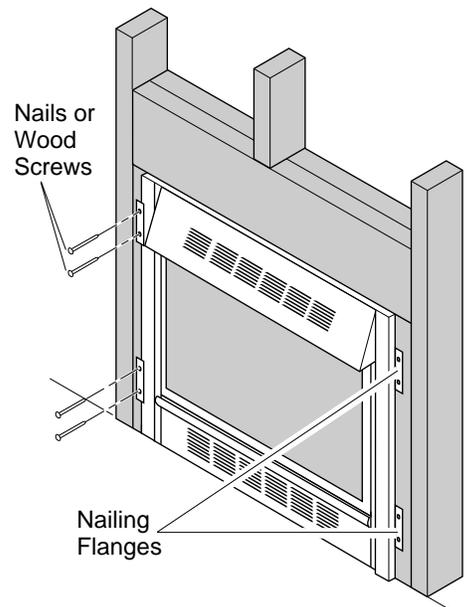


Figure 28 - Attaching Fireplace to Wall Studs

Continued

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### INSTALLATION

#### Continued

#### Mantel Clearances for Built-In Installation

If placing mantel above built-in fireplace, you must meet minimum clearance between mantel shelf and top of fireplace opening.

If your installation does not meet the above minimum clearances, you must:

- raise the mantel to an acceptable height,
- OR
- remove the mantel.

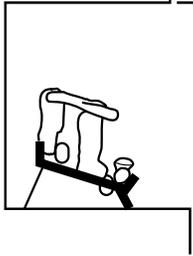
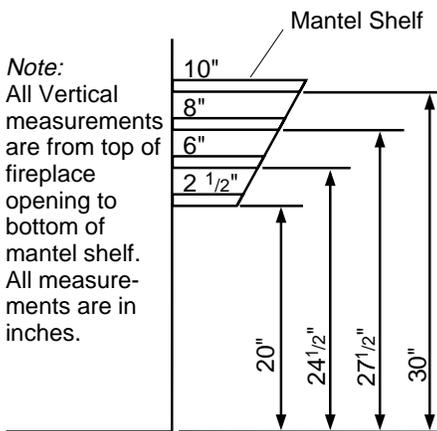


Figure 29 - Minimum Mantel Clearances for Built-In Installation

#### INSTALLING GAS PIPING TO FIREPLACE LOCATION

**NOTICE:** A qualified service person must connect fireplace to gas supply. Follow all local codes.

**CAUTION:** Never connect heater directly to the propane supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and propane supply.

#### Installation Items Needed

Before installing fireplace, make sure you have the items listed below.

- external regulator (supplied by installer, see Figure 30)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- manual shutoff valve \*
- test gauge connection \*
- sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes) (not provided)

\* An A.G.A. design-certified manual shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional A.G.A. design-certified manual shutoff valve from your dealer. See *Accessories*, page 32.

The installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11 and 14 inches of water. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 30. Pointing the vent down protects it from freezing rain or sleet.

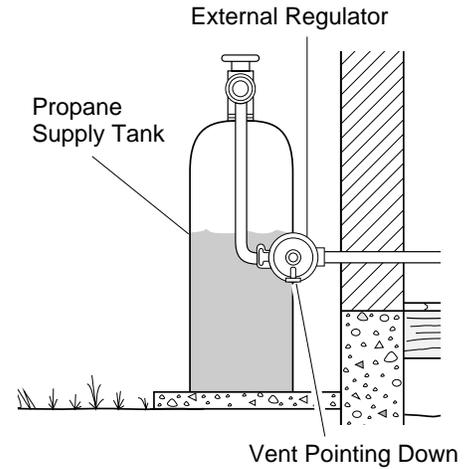


Figure 30 - External Regulator With Vent Pointing Down

**CAUTION:** Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to fireplace. If pipe is too small, undue loss of pressure will occur.

Installation must include a manual shutoff valve, union, and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from fireplace (see Figure 31, page 15).

Check your building codes for any special requirements for locating manual shutoff valve to fireplaces.

Apply pipe joint sealant lightly to male threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged fireplace valves.

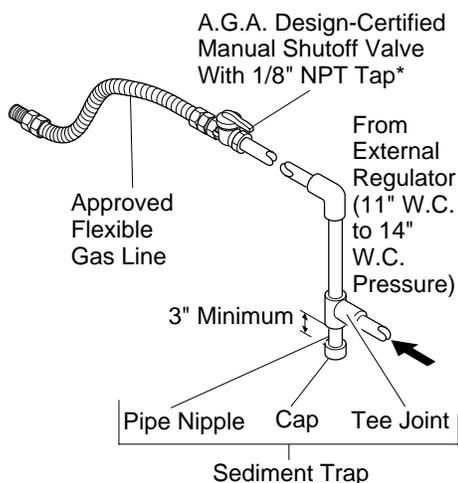
**CAUTION:** Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

Install sediment trap in supply line as shown in Figure 31, page 15. Locate sediment trap where it is within reach for cleaning. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into fireplace gas controls. If sediment trap is not installed or is installed wrong, fireplace may not run properly.

# OWNER'S MANUAL

## INSTALLATION

*Continued*



**Figure 31 - Gas Connection**

\* Purchase the optional A.G.A. design-certified manual shutoff valve from your dealer. See *Accessories*, page 32.

## CONNECTING FIREPLACE TO GAS SUPPLY

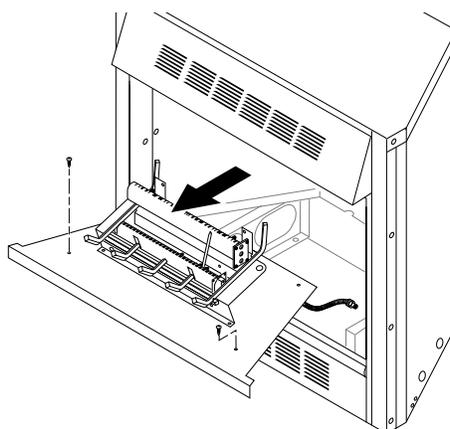
### Installation Items Needed

- 5/16" hex socket wrench or nut-driver
- Phillips screwdriver
- sealant (resistant to propane/LP gas, not provided)

1. Remove fireplace screen. Remove two screws that hold fireplace screen in place for shipping. These screws are located near top of screen. Discard screws. Lift fireplace screen up and pull out to remove.
2. Remove screws that attach log base assembly to fireplace. Carefully lift up log base assembly and remove from fireplace (see Figure 32).

**CAUTION:** Do not pick up log base assembly by burners. This could damage burners. Only handle base by grates.

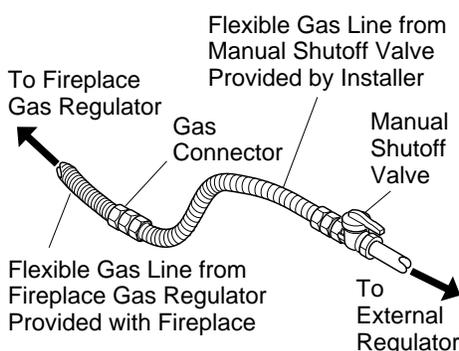
3. Route flexible gas line (provided by installer) from manual shutoff valve to fireplace. Route flexible gas supply line through one of the access holes.



**Figure 32 - Removing Log Base Assembly From Fireplace**

**NOTICE:** Most building codes do not permit concealed gas connections. A flexible gas line is provided to allow accessibility from the fireplace. The flexible gas supply line connection to the manual shutoff valve should be accessible.

4. Attach a 45° flare union gas connector to flexible gas line from gas supply (see Figure 33). Connect flare union to flexible gas line attached to gas regulator of fireplace (see Figure 33).
5. Check all gas connections for leaks. See *Checking Gas Connections*, column 3.
6. Replace log base assembly back into fireplace. Feed flexible gas line into fireplace base area while replacing log base assembly. Make sure the entire flexible gas line is in fireplace base area. Reattach log base assembly to fireplace with screws removed in step 2.



**Figure 33 - Attaching Flexible Gas Lines Together**

## CHECKING GAS CONNECTIONS

**WARNING:** Test all gas piping and connections for leaks after installing or servicing. Correct all leaks at once.

**WARNING:** Never use an open flame to check for a leak. Apply a mixture of liquid soap and water to all joints. Bubbles forming show a leak. Correct all leaks at once.

## Pressure Testing Gas Supply Piping System

### Test Pressures In Excess Of 1/2 PSIG

1. Disconnect fireplace and its individual manual shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig will damage fireplace gas regulator.
2. Cap off open end of gas pipe where manual shutoff valve was connected.
3. Pressurize supply piping system by either using compressed air or opening propane supply tank valve.
4. Check all joints of gas supply piping system. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Reconnect fireplace and manual shutoff valve to gas supply. Check reconnected fittings for leaks.

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### INSTALLATION

#### Continued

#### Test Pressures Equal To or Less Than 1/2 PSIG

1. Close manual shutoff valve (see Figure 34).
2. Pressurize supply piping system by either using compressed air or opening propane supply tank valve.
3. Check all joints from propane supply tank to manual shutoff valve (see Figure 35). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
4. Correct all leaks at once.

#### Pressure Testing Fireplace Gas Connections

1. Open manual shutoff valve (see Figure 34).
2. Open propane supply tank valve.
3. Make sure control knob of fireplace is in the OFF position.
4. Check all joints from manual shutoff valve to thermostat gas valve (see Figure 35). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Light fireplace (see *Operating Fireplace*, pages 18 and 19 [Thermostat-controlled models] or pages 19 and 20 [Manually-controlled models]). Check all other internal joints for leaks.
7. Turn off fireplace (see *To Turn Off Gas to Appliance*, page 18, [Thermostat-controlled models] or page 20 [Manually-controlled models]).

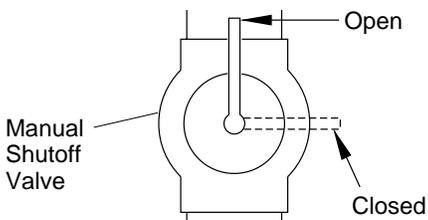


Figure 34 - Manual Shutoff Valve

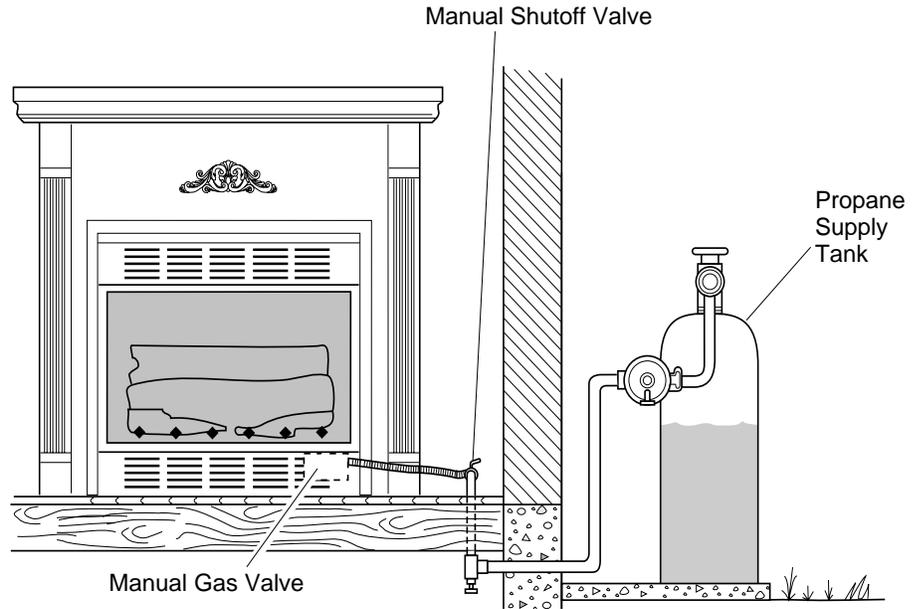


Figure 35 - Checking Gas Joints

# OWNER'S MANUAL

## INSTALLATION

*Continued*

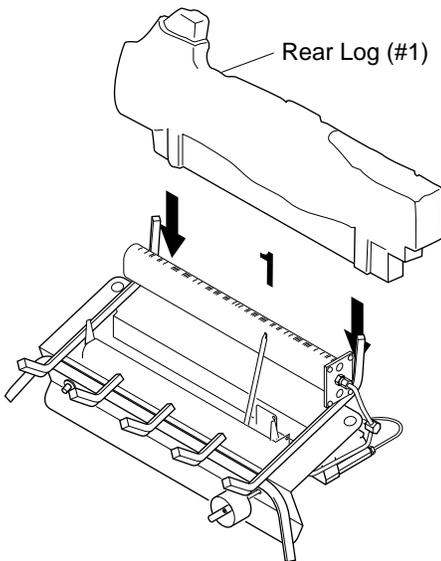
### INSTALLING LOGS

**CAUTION:** Do not remove the metal data plates attached to the heater base assembly. The data plates contain important warranty information.

**WARNING:** Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

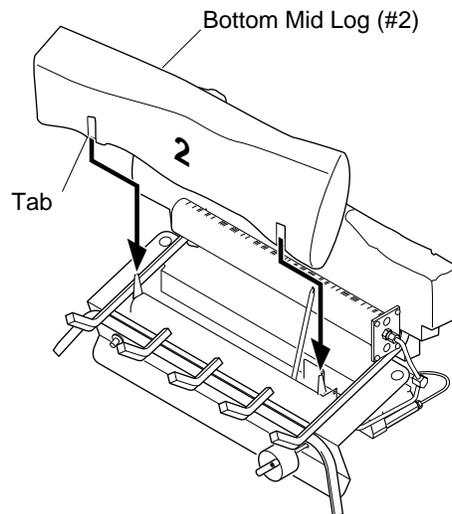
Each log is marked with a number. These numbers will help you identify the log when installing. It is very important to install these logs exactly as instructed. Do not modify logs. Only use logs supplied with heater.

1. Slide rear log (#1) into place behind rear burner. Make sure flat areas at bottom of log are behind rear burner (see Figure 36).

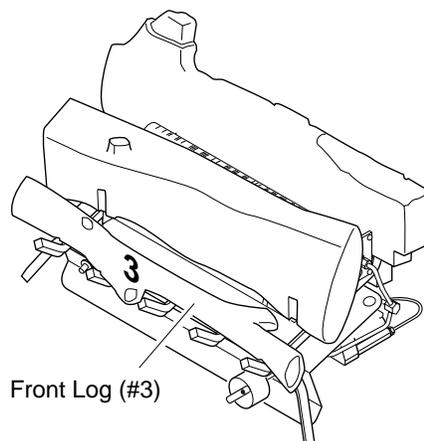


**Figure 36 - Installing Rear Log**

2. Slide bottom mid log (#2) into place in behind front burner. Make sure tabs at bottom of log are behind front burner (see Figure 37).
3. Place front log (#3) into place in front of bottom mid log (#2) (see Figure 38). Make sure notches on bottom rest on grate prongs.
4. Finally place top log (#4) over bottom mid log (#2) by matching the notches under log (#4) with the raised blocks of log (#2) (see Figure 39).



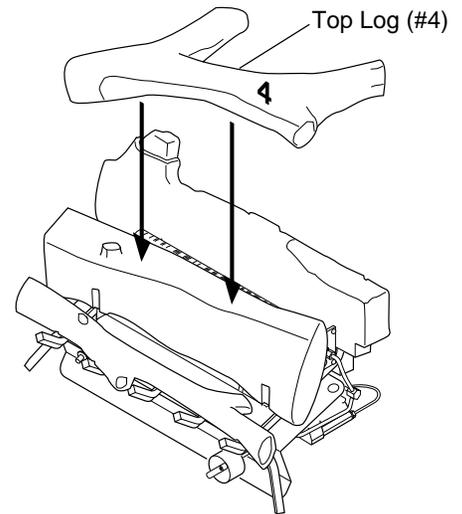
**Figure 37 - Installing Bottom Mid Log**



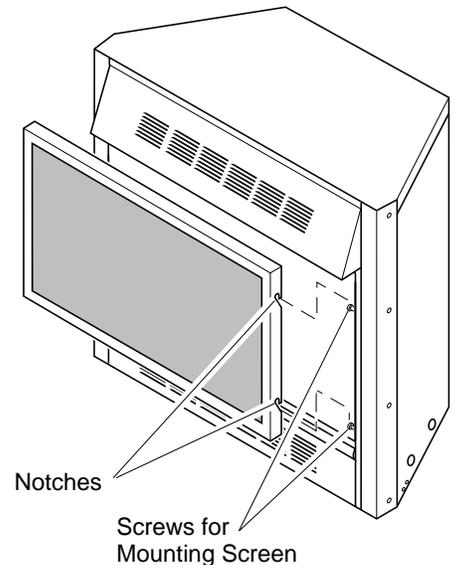
**Figure 38 - Installing Front Log**

5. Install fireplace screen by slipping notches of fireplace screen over screws on front of fireplace (see Figure 40).

**WARNING:** You must operate this fireplace with the fireplace screen in place. Make sure fireplace screen is in place before running fireplace.



**Figure 39 - Installing Top Log**



**Figure 40 - Installing Fireplace Screen**

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### OPERATING FIREPLACE

Thermostat-Controlled Model  
CGFP28PT

#### FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.  
**WHAT TO DO IF YOU SMELL GAS**
  - Do not try to light any appliance.
  - Do not touch any 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, don't try to repair it, call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

### LIGHTING INSTRUCTIONS

**⚠ WARNING:** You must operate this fireplace with the fireplace screen in place. Make sure fireplace screen is installed before running fireplace.

**NOTICE:** During initial operation of new fireplace, burning logs will give off a paper-burning smell. Orange flame will also be present. Open window to vent smell. Operate fireplace on HI position to burn off odor. This will only last a few hours.

1. **STOP!** Read the safety information in previous column.
2. Make sure manual shutoff valve is fully open.
3. Turn control knob clockwise to the OFF position.
4. 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 don't smell gas, go to the next step.
5. Turn control knob counterclockwise to the PILOT position. Press in control knob for five (5) seconds (see Figure 41).  
**Note:** If running fireplace for first time, there will be air in gas line. You may need to press in control knob for 30 seconds or longer. This will allow air to bleed from the gas system.
6. Continue pressing control knob in. Press and release ignitor button. This will light pilot. The pilot is attached to the front burner. If needed, keep pressing ignitor button until pilot lights.

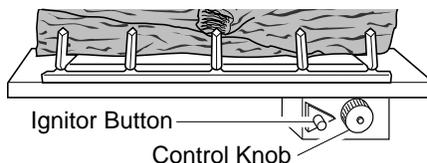


Figure 41 - Control Knob and Ignitor Button Location

- If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.

7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.

**Note:** If pilot goes out, repeat steps 3 through 7. This fireplace has a safety interlock system. Wait one (1) minute for system to reset before lighting pilot again.

**Note:** If pilot does not stay lit, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see *Manual Lighting Procedure*, page 19.

8. Turn control knob counterclockwise to desired heating level. The burners should light. Set control knob to any heat level between HI and LO.

**⚠ CAUTION:** Do not try to adjust heating levels by using the manual shutoff valve.

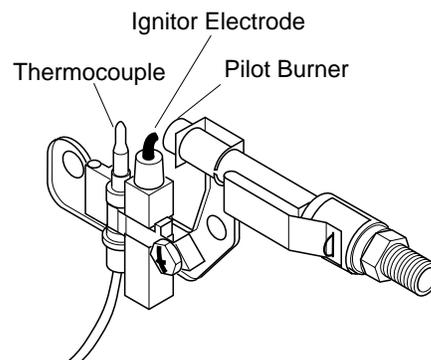


Figure 42 - Pilot

### TO TURN OFF GAS TO APPLIANCE

#### Shutting Off Fireplace

Turn control knob clockwise to the OFF position.

#### Shutting Off Burners Only (pilot stays lit)

Turn control knob clockwise to the PILOT position.

## OPERATING FIREPLACE

*Continued*

### THERMOSTAT CONTROL OPERATION

You can set the thermostat control knob to any comfort level between HI and LO. The thermostat will gradually modulate the heat output and flame height from higher to lower settings, or pilot, in order to maintain the comfort level you select. The ideal comfort setting will vary by household depending upon the amount of space to be heated, the output of the central heating system, etc.

**Note:** Selecting the HI setting will cause the burner to remain on without modulating down in most cases.

### MANUAL LIGHTING PROCEDURE

1. Follow steps 1 through 5 under *Lighting Instructions*, page 18.
2. Depress control knob and light pilot with match.
3. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Now follow step 8, page 18.

### Variable Manually-Controlled Model CGFP28P

### FOR YOUR SAFETY READ BEFORE LIGHTING

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

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

### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
  - Do not touch any 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, don't try to repair it, call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.
  - D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

### LIGHTING INSTRUCTIONS

**WARNING:** You must operate this fireplace with the fireplace screen in place. Make sure fireplace screen is installed before running fireplace.

**NOTICE:** During initial operation of new fireplace, burning logs will give off a paper-burning smell. Orange flame will also be present. Open window to vent smell. Operate fireplace on HI position to burn off odor. This will only last a few hours.

1. **STOP!** Read the safety information in previous column.
2. Make sure manual shutoff valve is fully open.
3. Turn control knob clockwise to the OFF position.
4. 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 don't smell gas, go to the next step.

5. Slightly depress and turn control knob counterclockwise to the PILOT position. Press in control knob for five (5) seconds (see Figure 43).

**Note:** If running fireplace for first time, there will be air in gas line. You may need to press in control knob for 30 seconds or longer. This will allow air to bleed from the gas system.

- If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.
6. Continue pressing control knob in. Press and release ignitor button. This will light pilot. The pilot is attached to the front burner. If needed, keep pressing ignitor button until pilot lights.

**Note:** If pilot does not stay lit, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see *Manual Lighting Procedure*, page 20.

7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
 

**Note:** If pilot goes out, repeat steps 3 through 7.
8. Slightly depress and turn control knob counterclockwise to the HIGH position. Both burners should light. Set control knob to desired heat setting.

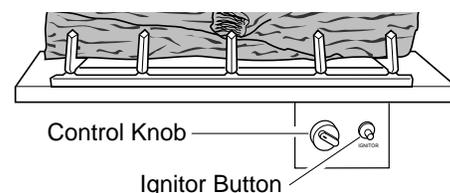


Figure 43 - Control Knob and Ignitor Button Location

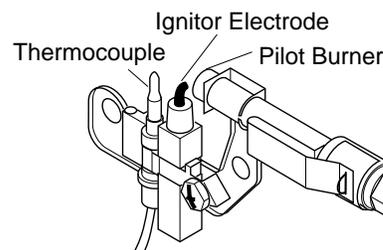


Figure 44 - Pilot

*Continued*

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### OPERATING FIREPLACE

Continued

#### VARIABLE MANUAL CONTROL OPERATION

The variable control valve can be set to any heat setting and flame height desired, by simply turning the control knob until that setting is attained. Even the lowest setting provides realistic flames and glowing embers from two burners. Selecting higher settings produces greater heat output. This results in increased heating comfort.

**WARNING:** Do not operate heater between pilot and high positions.

**CAUTION:** Do not try to adjust heating levels by using the manual shutoff valve.

#### TO TURN OFF GAS TO APPLIANCE

##### Shutting Off Fireplace

1. Turn control knob clockwise to the HIGH position.
2. Slightly depress control knob and turn clockwise to the PILOT position.
3. Slightly depress control knob and turn clockwise to the OFF position.

##### Shutting Off Burners Only (pilot stays lit)

1. Turn control knob clockwise to the HIGH position.
2. Press in and turn clockwise to the PILOT position.

#### MANUAL LIGHTING PROCEDURE

1. Follow steps 1 through 5 under *Lighting Instructions*, page 19.
2. Depress control knob and light pilot with match.
3. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Now follow step 8, page 19.

### INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

#### PILOT FLAME PATTERN

Figure 45 shows a correct pilot flame pattern. Figure 46 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the fireplace will shutdown.

If pilot flame pattern is incorrect, as shown in Figure 46

- turn fireplace off (see *To Turn Off Gas to Appliance*, page 18 [Thermostat-controlled models] or column 1, this page, [Manually-controlled models])
- see *Troubleshooting*, pages 22 through 24

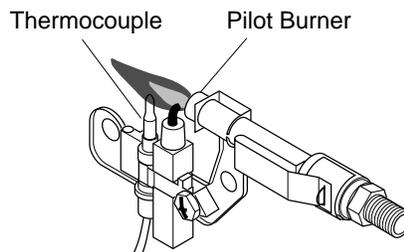


Figure 45 - Correct Pilot Flame Pattern

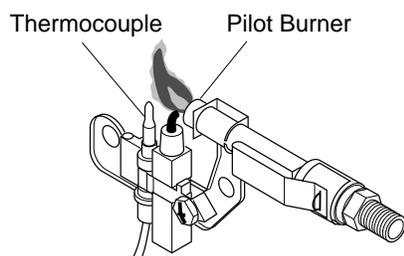


Figure 46 - Incorrect Pilot Flame Pattern

#### FRONT BURNER FLAME PATTERN

Figure 47 shows correct front burner flame pattern. Figure 48 shows incorrect front burner flame pattern. The incorrect burner flame pattern shows yellow tipping at top of blue flame.

**WARNING:** If front burner flame pattern shows yellow tipping, your fireplace could produce increased levels of carbon monoxide. Follow instructions at bottom of this page. Yellow flame on rear burner is normal.

**NOTICE:** Do not mistake orange flames with yellow tipping. Dirt or other fine particles are burned by fireplace, causing brief patches of orange flame.

If front burner flame pattern is incorrect, as shown in Figure 48

- turn fireplace off (see *To Turn Off Gas to Appliance*, page 18 [Thermostat-controlled models] or column 1, this page, [Manually-controlled models])
- see *Troubleshooting*, pages 22 through 24

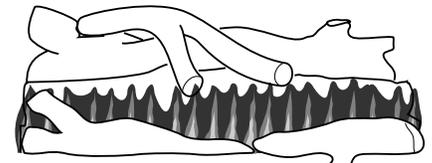


Figure 47 - Correct Front Burner Flame Pattern

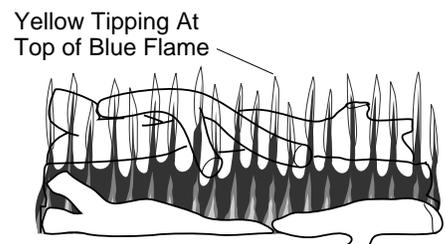


Figure 48 - Incorrect Front Burner Flame Pattern

## CLEANING AND MAINTENANCE

**⚠ WARNING:** Turn off fireplace and let cool before cleaning.

**⚠ CAUTION:** You must keep control areas, burners, and circulating air passageways of fireplace clean. Inspect these areas of fireplace before each use. Have fireplace inspected yearly by a qualified service person. Fireplace may need more frequent cleaning due to excessive lint from carpeting, pet hair, etc.

### CLEANING BURNER INJECTOR HOLDER AND PILOT AIR INLET HOLE

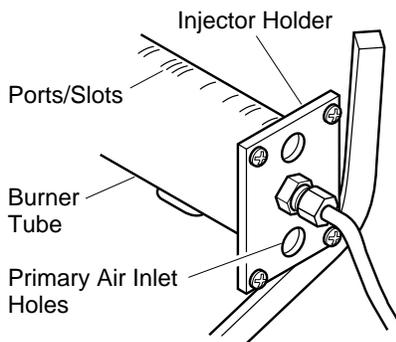
The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, and lint. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every 2,500 hours of operation or every three months.

We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store, or home center may carry compressed air in a can. You can use a vacuum cleaner in the blow position. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

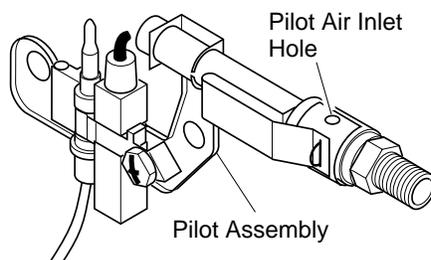
1. Shut off the unit, including the pilot. Allow the unit to cool for at least thirty minutes.
2. Inspect burner, pilot, and primary air inlet holes on injector holder for dust and dirt (see Figure 49).

3. Blow air through the ports/slots and holes in the burner.
4. Check the injector holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint, or pet hairs with a soft cloth or vacuum cleaner nozzle.
5. Blow air into the primary air holes on the injector holder.
6. In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4.

Clean the pilot assembly also. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about two inches from where the pilot flame comes out of the pilot assembly (see Figure 50). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available.



**Figure 49 - Injector Holder On Outlet Burner Tube**



**Figure 50 - Pilot Inlet Air Hole**

### LOGS

- If you remove logs for cleaning, refer to *Installing Logs*, page 17, to properly replace logs.
- Replace log(s) if broken or chipped (dime-sized or larger).

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### TROUBLESHOOTING

*Note:* For additional help, visit DESA International's Technical Service web site at [www.desatech.com](http://www.desatech.com).

**⚠ WARNING:** Turn off fireplace and let cool before servicing. Only a qualified service person should service and repair fireplace.

**⚠ CAUTION:** Never use a wire, needle, or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

*Note:* All troubleshooting items are listed in order of operation.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed, there is no spark at ODS/pilot	<ol style="list-style-type: none"> <li>Ignitor cable pinched or wet</li> <li>Ignitor electrode not connected to ignitor cable</li> <li>Piezo ignitor nut is loose</li> <li>Broken ignitor cable</li> <li>Ignitor electrode broken</li> <li>Bad piezo ignitor</li> <li>Ignitor electrode positioned wrong</li> </ol>	<ol style="list-style-type: none"> <li>Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry</li> <li>Reconnect ignitor cable</li> <li>Tighten nut holding piezo ignitor to base panel of log set. Nut is located behind base panel.</li> <li>Replace ignitor cable</li> <li>Replace ignitor</li> <li>Replace piezo ignitor</li> <li>Replace ignitor</li> </ol>
When ignitor button is pressed, there is spark at ODS/pilot but no ignitio	<ol style="list-style-type: none"> <li>Gas supply turned off or manual shutoff valve closed</li> <li>Control knob not in PILOT position</li> <li>Control knob not pressed in while in PILOT position</li> <li>Air in gas lines when installed</li> <li>ODS/pilot is clogged</li> <li>Gas regulator setting is not correct</li> </ol>	<ol style="list-style-type: none"> <li>Turn on gas supply or open manual shutoff valve</li> <li>Turn control knob to PILOT position</li> <li>Press in control knob while in PILOT position</li> <li>Continue holding down control knob. Repeat igniting operation until air is removed</li> <li>Clean ODS/pilot (see <i>Cleaning and Maintenance</i>, page 21) or replace ODS/pilot assembly</li> <li>Replace gas regulator</li> </ol>
ODS/pilot lights but flame goes out when control knob is released	<ol style="list-style-type: none"> <li>Control knob not fully pressed in</li> <li>Control knob not pressed in long enough</li> <li>Manual shutoff valve not fully open</li> <li>Thermocouple connection loose at control valve</li> <li>Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following:                     <ol style="list-style-type: none"> <li>Low gas pressure</li> <li>Dirty or partially clogged ODS/pilot</li> </ol> </li> <li>Thermocouple damaged</li> <li>Control valve damaged</li> <li>On thermostat models, safety interlock system has been triggered</li> </ol>	<ol style="list-style-type: none"> <li>Press in control knob fully</li> <li>After ODS/pilot lights, keep control knob pressed in 30 seconds</li> <li>Fully open manual shutoff valve</li> <li>Hand tighten until snug, then tighten 1/4 turn more</li> <li> <ol style="list-style-type: none"> <li>Contact local natural gas company</li> <li>Clean ODS/pilot (see <i>Cleaning and Maintenance</i>, page 21) or replace ODS/pilot assembly</li> </ol> </li> <li>Replace thermocouple</li> <li>Replace control valve</li> <li>Wait one minute for safety interlock system to reset. Repeat ignition operation</li> </ol>

# OWNER'S MANUAL

## TROUBLESHOOTING

*Continued*

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
One or both burners do not light after ODS/pilot is lit	<ol style="list-style-type: none"><li>1. Burner orifice(s) clogged</li><li>2. Burner orifice(s) diameter is too small</li><li>3. Inlet gas pressure is too low</li><li>4. Mislocated crossover tube</li></ol>	<ol style="list-style-type: none"><li>1. Clean burner(s) (see <i>Cleaning and Maintenance</i>, page 21) or replace burner orifice(s)</li><li>2. Replace burner orifice(s)</li><li>3. Contact local propane gas company</li><li>4. Contact qualified service person</li></ol>
Delayed ignition of one or both burners	<ol style="list-style-type: none"><li>1. Manifold pressure is too low</li><li>2. Burner orifice(s) clogged</li><li>3. Mislocated crossover tube</li></ol>	<ol style="list-style-type: none"><li>1. Contact local propane gas company</li><li>2. Clean burner(s) (see <i>Cleaning and Maintenance</i>, page 21) or replace burner orifice(s)</li><li>3. Contact qualified service person</li></ol>
Burner backfiring during combustion	<ol style="list-style-type: none"><li>1. Burner orifice is clogged or damaged</li><li>2. Damaged burner</li><li>3. Gas regulator defective</li></ol>	<ol style="list-style-type: none"><li>1. Clean burner (see <i>Cleaning and Maintenance</i>, page 21) or replace burner orifice</li><li>2. Replace damaged burner</li><li>3. Replace gas regulator</li></ol>
Yellow flame in front burner during burner combustion	<ol style="list-style-type: none"><li>1. Not enough air</li><li>2. Gas regulator defective</li></ol>	<ol style="list-style-type: none"><li>1. Check burner(s) for dirt and debris. If found, clean burner(s) (see <i>Cleaning and Maintenance</i>, page 21)</li><li>2. Replace gas regulator</li></ol>
Slight smoke or odor during initial operation	<ol style="list-style-type: none"><li>1. Residues from manufacturing processes and logs curing</li></ol>	<ol style="list-style-type: none"><li>1. Problem will stop after a few hours of operation</li></ol>
Fireplace produces a whistling noise when burners are lit	<ol style="list-style-type: none"><li>1. Turning control knob to HI position when burners are cold</li><li>2. Air in gas line</li><li>3. Air passageways on fireplace blocked</li><li>4. Dirty or partially clogged burner orifice(s)</li></ol>	<ol style="list-style-type: none"><li>1. Turn control knob to LO position and let warm up for a minute</li><li>2. Operate burners until air is removed from line. Have gas line checked by local propane gas company</li><li>3. Observe minimum installation clearances (see pages 12 through 14)</li><li>4. Clean burners (see <i>Cleaning and Maintenance</i>, page 21) or replace burner orifice(s)</li></ol>
Moisture/condensation noticed on windows	<ol style="list-style-type: none"><li>1. Not enough combustion/ventilation air</li></ol>	<ol style="list-style-type: none"><li>1. Refer to <i>Air for Combustion and Ventilation</i> requirements (page 4)</li></ol>
White powder residue forming within burner box or on adjacent walls or furniture	<ol style="list-style-type: none"><li>1. When heated, vapors from furniture polish, wax, carpet cleaners, etc. turn into white powder residue</li></ol>	<ol style="list-style-type: none"><li>1. Turn heater off when using furniture polish, wax, carpet cleaners, or similar products</li></ol>

# Comfort Glow® CGFP28P and CGFP28PT

## UNVENTED PROPANE/LP GAS FIREPLACE

### TROUBLESHOOTING

Continued



#### WARNING

If you smell gas

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

*IMPORTANT:* Operating fireplace where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors. These odors will disappear over time.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Fireplace produces a clicking/ticking noise just after burners are lit or shut off	1. Metal expanding while heating or contracting while cooling	1. This is common with most fireplaces. If noise is excessive, contact qualified service person
Fireplace produces unwanted odors	1. Fireplace burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See <i>IMPORTANT</i> statement above) 2. Gas leak. <b>See Warning statement above</b>	1. Open window and ventilate room. Stop using odor causing products while fireplace is running 2. Locate and correct all leaks (see <i>Checking Gas Connections</i> , pages 15 and 16)
Fireplace shuts off in use (ODS operates)	1. Not enough fresh air is available 2. Low line pressure 3. ODS/pilot is partially clogged	1. Open window and/or door for ventilation 2. Contact local natural gas company 3. Clean ODS/pilot (see <i>Cleaning and Maintenance</i> , page 21)
Gas odor even when control knob is in OFF position	1. Gas leak. <b>See Warning statement above</b> 2. Control valve defective	1. Locate and correct all leaks (see <i>Checking Gas Connections</i> , pages 15 and 16) 2. Replace control valve
Gas odor during combustion	1. Foreign matter between control valve and burner 2. Gas leak. <b>See Warning statement above</b>	1. Take apart gas tubing and remove foreign matter 2. Locate and correct all leaks (see <i>Checking Gas Connections</i> , pages 15 and 16)

# OWNER'S MANUAL

## SERVICE HINTS

### When Gas Pressure Is Too Low

- pilot will not stay lit
- burners will have delayed ignition
- fireplace will not produce specified heat

### When Gas Quality Is Bad

- pilot will not stay lit
- burners will produce flames and soot
- fireplace will backfire when lit

You may feel your gas pressure is too low or gas quality is bad. If so, contact your local propane/LP gas supplier.

## SPECIFICATIONS

Btu (Low/High)	20,000/28,000
Type Gas	Propane/LP Gas Only
Ignition	Piezo
Manifold Pressure	7.9" W.C.
Inlet Gas Pressure (in. of water)	
Maximum	14"
Minimum	11"
Shipping Weight	80 lbs.

## TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting.

If so, contact DESA International's Technical Service Department at 1-800-DESA LOG (1-800-337-2564).

You can also visit DESA International's Technical Service web site at [www.desatech.com](http://www.desatech.com)

## PARTS CENTRALS

These Parts Centrals are privately-owned businesses. They have agreed to support our customer's needs by providing original replacement parts and accessories.

### Baltimore Electric

1348 Dixwell Avenue  
Hamden, CT 06514-0322  
1-800-397-7553  
203-248-7553  
Parts Department

### Portable Heater Parts

342 N. County Rd. 400 E.  
Valparaiso, IN 46383-9704  
All States  
219-462-7441  
1-800-362-6951  
Parts Department

### FBD

1349 Adams St.  
Bowling Green, KY 42103-3414  
502-846-1199  
1-800-654-8534

### Four Flags Power Products

1115 Stateline Road  
Niles, MI 49120-4728  
616-684-2697  
1-800-268-4983  
Parts Only

### Master Parts Distributor

1251 Mound Ave. NW  
Grand Rapids, MI 49504-2672  
616-791-0505  
1-800-446-1446  
Fax: 1-616-791-8270  
Parts Department

### Washer Equipment Co.

1715 Main Street  
Kansas City, MO 64108-2195  
KS, MO, AR  
816-842-3911  
Parts Department

### East Coast Energy Products

707 Broadway  
W. Long Branch, NJ 07764-1542  
732-870-8809  
1-800-755-8809  
Parts Department

### Tarantin Tank Co.

P.O. Box 6129  
Freehold, NJ 07728-6129  
908-780-9340  
1-800-922-0724  
Parts Department

### Heater & Fireplace Store

1922 N Route 9  
Cape May Court, NJ 08210-1110  
609-624-0678  
Parts Department

### Dayton Hardware

P.O. Box 275  
North Dayton Station  
Dayton, OH 45404-0275  
All States  
937-258-3721  
OH 1-800-762-3426  
Parts Department

### Halco Enterprises

208 Carter Drive, Unit 21  
West Chester, PA 19382-4500  
610-430-7717  
1-800-368-0803  
Parts Department

### LaPorte's Parts and Service

2444 North 5th Street  
Hartsville, SC 29550-7704  
803-332-0191  
Parts Department

### Cans Unlimited, Inc.

P.O. Box 645  
Taylor, SC 29687-0013  
All States  
803-879-3009  
1-800-845-5301  
Parts Department

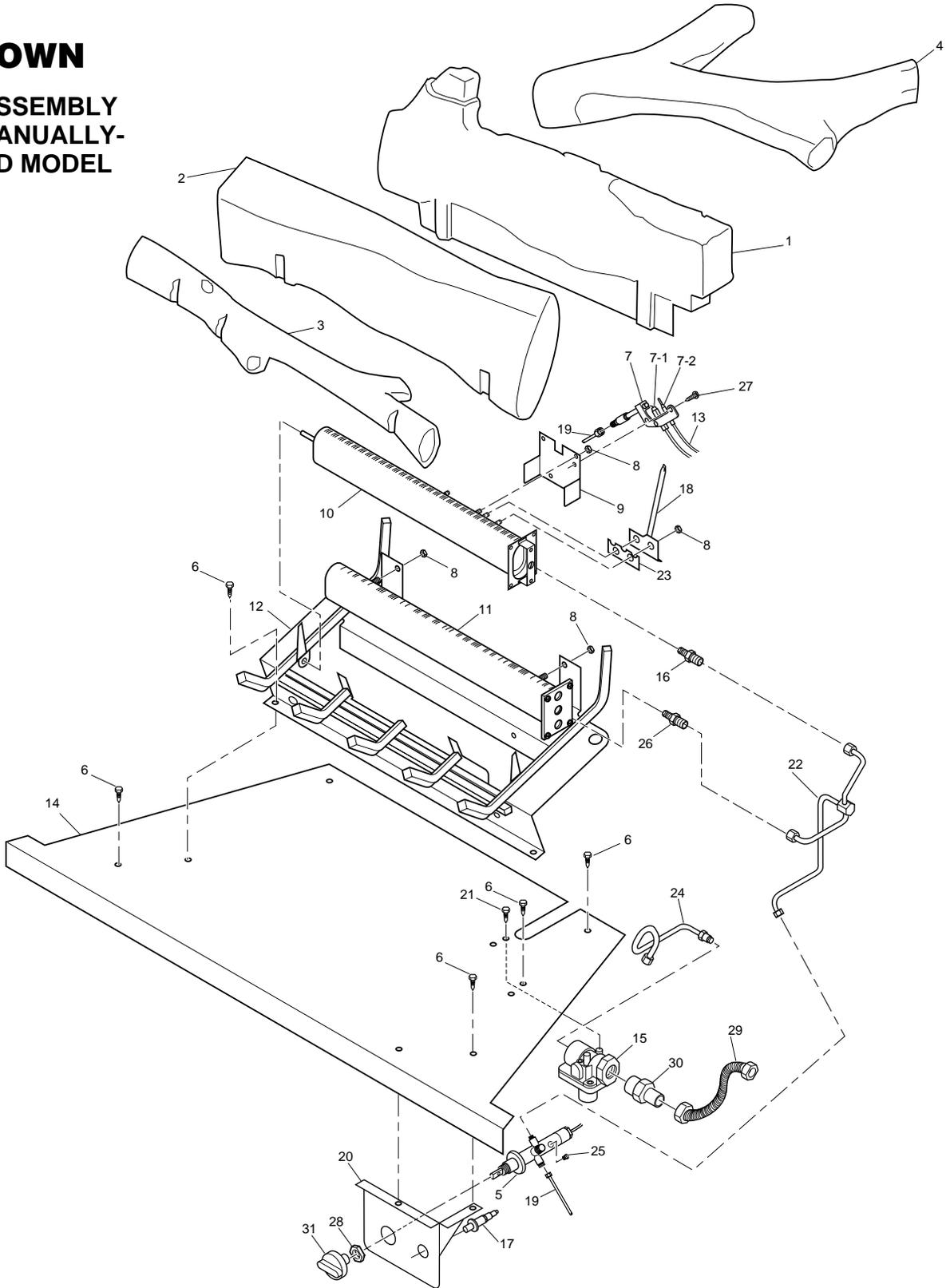
# Comfort Glow® **CGFP28P** and **CGFP28PT**

## **UNVENTED PROPANE/LP GAS FIREPLACE**

### **ILLUSTRATED PARTS BREAKDOWN**

LOG BASE ASSEMBLY  
VARIABLE MANUALLY-  
CONTROLLED MODEL

**CGFP28P**



# OWNER'S MANUAL

## PARTS LIST

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 32 of this manual.

### LOG BASE ASSEMBLY VARIABLE MANUALLY- CONTROLLED MODEL

### CGFP28P

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	103682-04	Rear Log (#1)	1
2	103682-02	Bottom Mid Log (#2)	1
3	103682-01	Front Log (#3)	1
4	103682-03	Top Log (#4)	1
5	102568-02	Control Valve	1
6	098304-01	Screw, #10 Phillips, Black	8
7	099059-02	O.D.S. Pilot	1
7-1	098594-01	Ignitor	1
7-2	098593-01	Thermocouple	1
8	098249-01	Nut	6
9	101006-01	Pilot Bracket	1
10	101330-05	Front Burner	1
11	100999-02	Rear Burner Assembly	1
12	102257-08CJ	Base Assembly	1
13	098271-06	Ignitor Cable	1
14	103410-01CK	Firebox Bottom	1
15	098867-10	Gas Regulator	1
16	101004-01	Front Burner Injector	1
17	102445-01	Piezo Ignitor	1
18	101007-01	Crossover Tube	1
19	099387-05	Pilot Tube	1
20	101972-01	Valve and Piezo Bracket	1
21	M11084-38	Regulator Hex Screw	2
22	102668-01	Front Burner Tube	1
23	101008-01	Gasket	1
24	101973-01	Inlet Tube	1
25	098276-01	1/8" Plug	1
26	101004-10	Rear Burner Injector	1
27	M11084-26	Hex Screw, #10	2
28	098508-01	Valve Retainer Nut	1
29	101628-01	Flex Hose	1
30	097809-02	Adapter	1
31	098354-01	Control Knob	1
<b>PARTS AVAILABLE — NOT SHOWN</b>			
	100563-01	Warning Plate	1
	101055-02	Lighting Instructions Plate	1
	100565-01	Warning Plate Fastener	1
	101416-34	Information Video	1
	101976-02	Control Position Decal	1



# OWNER'S MANUAL

## PARTS LIST

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 32 of this manual.

**LOG BASE ASSEMBLY  
THERMOSTAT-  
CONTROLLED  
MODEL  
CGFP28PT**

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	103682-04	Rear Log (#1)	1
2	103682-02	Bottom Mid Log (#2)	1
3	103682-01	Front Log (#3)	1
4	103682-03	Top Log (#4)	1
5	M11084-38	Screw	2
6	098304-01	Screw, #10 Phillips, Black	8
7	099059-02	O.D.S. Pilot	1
7-1	098594-01	Ignitor	1
7-2	098593-01	Thermocouple	1
8	098249-01	Nut	4
9	101006-01	Pilot Bracket	1
10	101330-05	Front Burner Assembly	1
11	100999-02	Rear Burner Assembly	1
12	102257-08CJ	Base Assembly	1
13	098271-06	Ignitor Cable	1
14	103410-01CK	Firebox Bottom	1
15	098867-10	Gas Regulator	1
16	101004-01	Front Burner Injector	1
17	102845-01	Inlet Tube	1
18	101382-01	Thermove Valve Bracket	1
19	099387-03	Pilot Tube	1
20	102846-01	Burner Tube	1
21	097809-02	Adapter	1
22	099211-01	Screw	2
23	098544-01	Thermostat Clamp	1
24	101329-18	Thermostat Gas Valve Assembly	1
25	101381-01	Cover and Piezo	1
26	101004-10	Rear Burner Injector	1
27	M11084-26	Hex Screw, #10	2
28	101628-01	Flex Hose	1
<b>PARTS AVAILABLE — NOT SHOWN</b>			
	100563-01	Warning Plate	1
	101054-01	Lighting Instructions Plate	1
	100565-01	Warning Plate Fastener	1
	101416-34	Information Video	1

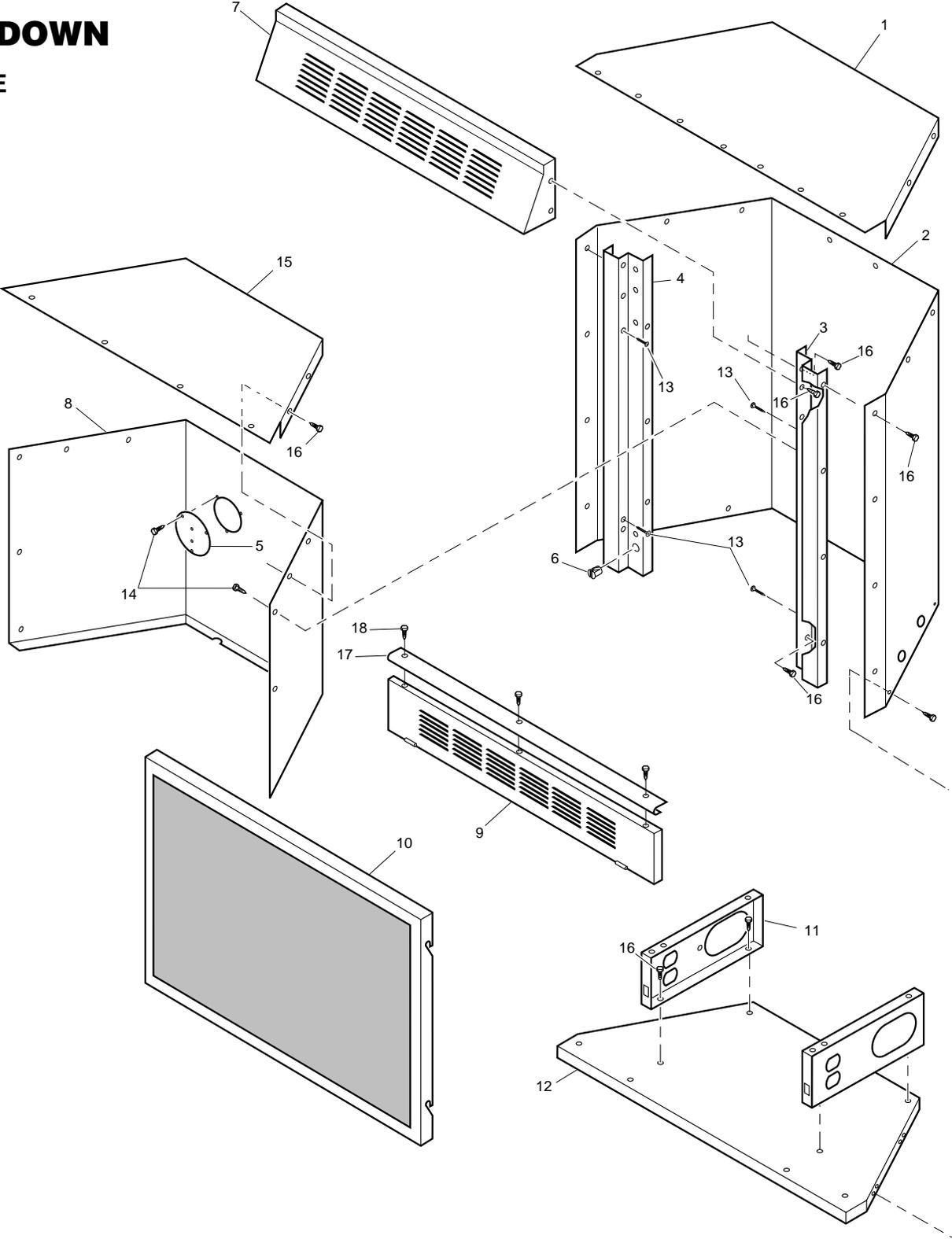
# Comfort Glow® **CGFP28P and CGFP28PT**

## **UNVENTED PROPANE/LP GAS FIREPLACE**

### **ILLUSTRATED PARTS BREAKDOWN**

FIREPLACE

CGFP28P  
CGFP28PT



# OWNER'S MANUAL

## PARTS LIST

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 32 of this manual.

### FIREPLACE

CGFP28P  
CGFP28PT

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	101357-01	Top Outer Casing	1
2	103207-01	Outer Casing	1
3	102758-01CK	Right Front Side	1
4	102759-01CK	Left Front Side	1
5	101514-01CK	Cover	1
6	101784-01	Snap-in Magnet	2
7	103411-01CK	Louver Hood	1
8	101838-03CJ	Firebox Wrapper	1
9	103412-01CK	Louver Door	1
10	101727-02	Screen Assembly	1
11	101348-01	Firebox Support	2
12	103208-01	Outer Base	1
13	099230-02	Shoulder Screw	4
14	098304-01	Phillips Pan Head Screw, #10	12
15	101872-03	Firebox Top	1
16	M11084-26	Hex Screw, #10	63
17	101746-01	Handle	1
18	100587-01	Brass Screw, #6-20x3/8"	3
<b>PARTS AVAILABLE — NOT SHOWN</b>			
	100639-01	Caution Decal	1

# Comfort Glow® **CGFP28P and CGFP28PT**

## **UNVENTED PROPANE/LP GAS FIREPLACE**

### **REPLACEMENT PARTS**

*Note:* Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

### **PARTS UNDER WARRANTY**

Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA International's Technical Service Department at 1-800-DESA LOG (1-800-337-2564).

When calling DESA International, have ready

- your name
- your address
- model number of your fireplace
- how fireplace was malfunctioning
- type of gas used (propane or natural gas)
- purchase date

Usually, we will ask you to return the defective part to the factory.

### **PARTS NOT UNDER WARRANTY**

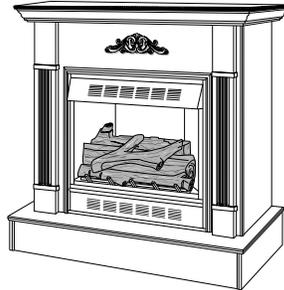
Contact authorized dealers of this product or Parts Central. If they can't supply original replacement part(s), call DESA International's Parts Department at 1-800-972-7879 for referral information.

When calling DESA International, have ready

- model number of your fireplace
- the replacement part number

### **ACCESSORIES**

Purchase these fireplace accessories from your local dealer or Parts Central (see page 25). If they can not supply these accessories, call DESA International's Sales Department at 1-800-458-2472 for referral information. You can also write to the address listed on the back page of this manual.



### **CABINET MANTEL ACCESSORY WITH FIREPLACE PERIMETER BRASS TRIM**

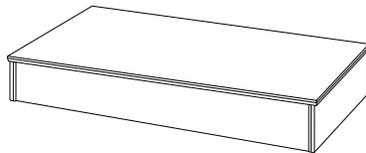
**GMC11F Series - Walnut Finished Hardwood Veneer**

**GMC12U Series - Unfinished Hardwood Veneer**

**GMC13F Series - Medium Stained Oak Veneer**

Mantel features moldings, fluted sides, and medallion. Available in walnut finished or unfinished hardwood, ready to stain or paint. Shown with optional base accessory.

Dimensions (H x W x D): 44" x 57<sup>3</sup>/<sub>4</sub>" x 22<sup>7</sup>/<sub>8</sub>"



### **HEARTH BASE**

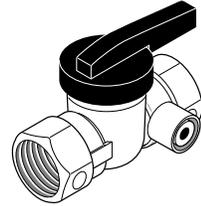
**GC3333F Series - Walnut Finished Hardwood Veneer**

**GC3334U Series - Unfinished Hardwood Veneer**

**GC3335F Series - Medium Stained Oak Veneer**

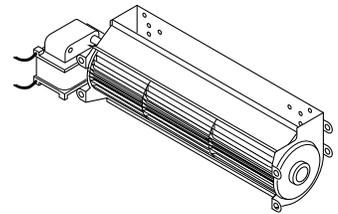
The hearth base creates a handsome riser for the fireplace.

Dimensions (H x W x D): 6<sup>1</sup>/<sub>2</sub>" x 58" x 28<sup>9</sup>/<sub>16</sub>"



### **MANUAL SHUTOFF VALVE - GA5010**

For all models. Manual shutoff valve with 1/8" NPT tap. Fits 1/2" NPT pipe.



### **BLOWER ACCESSORIES-**

Increase air circulation to maximize heat distribution.

### **GA3650T - T/Stat Blower (for t/stat fireplaces only)**

Features ON/OFF/AUTO setting. In the auto position, the blower will automatically cycle on and off as needed.

### **GA3750 - Manual Blower (for all fireplaces)**

Features variable speed control knob.

### **BRASS TRIM ACCESSORY - GA7090**

Optional with built-in installation. Provides a finished appearance covering rough and/or unfinished mantel or wall opening, edges, etc.

### **DUPLEX OUTLET KIT - GA3555**

Use for built-in installations when hard wiring a blower.



# WARRANTY INFORMATION

## KEEP THIS WARRANTY

Model \_\_\_\_\_

Serial No. \_\_\_\_\_

Date Purchased \_\_\_\_\_

Always specify model and serial numbers when communicating with the factory.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

### LIMITED WARRANTY COMFORT GLOW VENT-FREE PROPANE/LP GAS FIREPLACE

DESA International warrants this product to be free from defects in materials and components for two (2) years from the date of first purchase, provided that the product has been properly installed, operated and maintained in accordance with all applicable instructions. To make a claim under this warranty the Bill of Sale or cancelled check must be presented.

This warranty is extended only to the original retail purchaser. This warranty covers the cost of part(s) required to restore this heater to proper operating condition and an allowance for labor when provided by a DESA Authorized Service Center. Warranty part(s) MUST be obtained through authorized dealers of this product and/or DESA International who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty. The heater MUST be installed by a qualified installer in accordance with all local codes and instructions furnished with the unit.

This warranty does not apply to parts that are not in original condition because of normal wear and tear, or parts that fail or become damaged as a result of misuse, accidents, lack of proper maintenance or defects caused by improper installation. Travel, diagnostic cost, labor, transportation and any and all such other costs related to repairing a defective heater will be the responsibility of the owner.

TO THE FULL EXTENT ALLOWED BY THE LAW OF THE JURISDICTION THAT GOVERNS THE SALE OF THE PRODUCT; THIS EXPRESS WARRANTY EXCLUDES ANY AND ALL OTHER EXPRESSED WARRANTIES AND LIMITS THE DURATION OF ANY AND ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO TWO (2) YEARS ON ALL COMPONENTS FROM THE DATE OF FIRST PURCHASE; AND DESA INTERNATIONAL'S LIABILITY IS HEREBY LIMITED TO THE PURCHASE PRICE OF THE PRODUCT AND DESA INTERNATIONAL SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES WHATSOEVER INCLUDING INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow a limitation on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitation on implied warranties, or exclusion or limitation on damages may not apply to you.

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

For information about this warranty write:

**DESA**  
**INTERNATIONAL**

2701 Industrial Drive  
P.O. Box 90004  
Bowling Green, KY 42102-9004  
[www.desatech.com](http://www.desatech.com)



103414 01

NOT A UPC

103414-01  
Rev. C  
03/99