

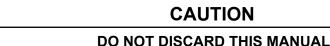
# **Owner's Manual**

**Installation and Operation** 

#### **MODELS:**

NATURAL GAS
CFL-18NG-C
CFL-24NG-C
CFL-30NG-C
ST-CFL-24NG-B
CFL-24LP-B
CFL-24NG-IPI
CFL-24LP-IPI







 Important operating and maintenance instructions included.

- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.



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

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

#### In the Commonwealth of Massachusetts:

- Installation must be performed by a licensed plumber or gas fitter.
- The chimney flue damper, when used with gas logs, will be welded open or completely removed.
- A CO detector shall be installed in the room where the appliance is installed.

#### WARNING



#### **HOT SURFACES!**

Glass and other surfaces are hot during operation AND cool down.

#### Hot glass will cause burns.

- · Do not touch glass until it is cooled
- · NEVER allow children to touch glass
- · Keep children away
- CAREFULLY SUPERVISE children in same room as fireplace.
- · Alert children and adults to hazards of high temperatures.

# High temperatures may ignite clothing or other flammable materials.

 Keep clothing, furniture, draperies and other flammable materials away.

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends NFI certified professionals.

P65Warnings.ca.gov.



**Note:** The use of a thermostat is prohibited in vented log installations.

warning: This product and the fuels used to operate this product (liquid propane or natural gas), and the products of combustion of such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm. For more information go to: www.

Read this manual before installing or operating this appliance.

Please retain this owner's manual for future reference.

# **Congratulations**

Congratulations on selecting a Hearth & Home Technologies gas fireplace, an elegant and clean alternative to wood burning fireplaces. The gas fireplace you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of a new fireplace, you'll want to read and carefully follow all of the instructions contained in this owner's manual. Pay special attention to all cautions and warnings.

This owner's manual should be retained for future reference. We suggest that you keep it with your other important documents and product manuals.

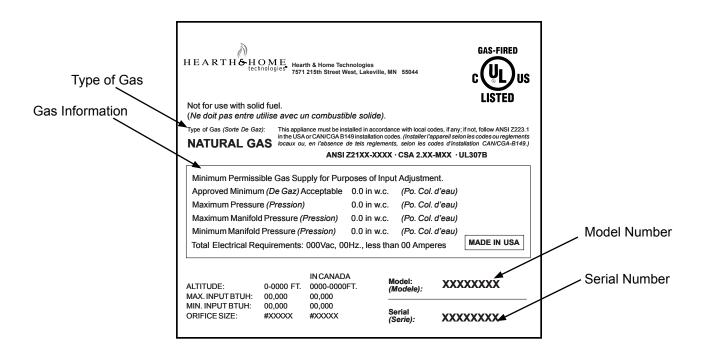
The information contained in this owner's manual, unless noted otherwise, applies to all models and gas control systems.

Your new Hearth & Home Technologies gas fireplace will give you years of durable use and trouble-free enjoyment. Welcome to the Hearth & Home Technologies family of fireplace products!

Homeowner Reference Information	We recommend that you record the following pertinent information about your appliance.
Model Name:	Date purchased/installed:
Serial Number:	Location on appliance:
Dealership purchased from:  Notes:	Dealer Phone:

#### **Listing Label Information/Location**

The model information regarding your specific appliance can be found on the rating plate usually located in the control area of the appliance.



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fire-parts.com

→ = Contains updated information.

#### Introduction

#### A. Appliance Certification

MODELS: CFL-18NG/LP-C, CFL-24NG/LP-C, CFL-30NG/LP-C, CFL-24NG/LP-IPI and ST-CFL-24NG/LP-B

LABORATORY: Underwriters Laboratories, Inc. (UL)

TYPE: Decorative Gas Appliances for Installation in

Solid-Fuel Burning Fireplaces

STANDARD: ANSI Z21.60b-2004 CSA 2.26b-2004

These gas log sets have been tested and listed in the U.S. in accordance with **ANSI Z21.60b-2004**. They have been listed by Underwriters Laboratories Inc. for installation and operation in the United States and Canada as described in these Installation and Operation Instructions. All components are UL, AGA, CGA or CSA safety certified.

Check with your local building code agency prior to installing this appliance to ensure compliance with local codes, including the need for permits and follow-up inspections. In the absence of local codes, comply with the National Fuel Gas Code, ANSI Z223.1-Latest Edition in the U.S. If any assistance is required during installation, please contact your local dealer.



#### **A WARNING**

Fire Risk Asphyxiation Risk



- This log set must NOT be installed in an unvented appliance.
- Open the chimney damper to its fully open position when burning this gas log set.
- Logs must never be burned without the flue damper in the full open position. Failure to do so is dangerous to your health and voids all warranties.
- All gas appliances produce some carbon monoxide when operated. Carbon monoxide is a colorless, odorless, poisonous gas. Adequate provisions must be made to provide combustion air for this gas log set. If outside air is not accessed by the fireplace, it may be necessary that an additional combustion air source be provided.

#### **CAUTION**

Check the construction of the fireplace before installing the gas log set. The area of the flue should not be less than 1/11 the area of the fireplace opening. Non-airtight glass doors should be installed on the fireplace if the area of the flue is less than 1/11 the area of the fireplace opening. Airtight doors must never be used with this gas log set.

Gas Log Sets are Decorative Gas Appliances for Installation in a Solid-fuel Burning Fireplace. Minimum fireplace sizes for these models is shown in Figure 1.

This log set is to be installed only in a solid-fuel burning fireplace with a working flue and one constructed of non-combustible material. The minimum permanent vent opening provided by the fireplace chimney damper to vent the flue products must not be less than 51 square inches (328 cm²). The chimney damper MUST be fixed in a manner to maintain the minimum permanent vent opening. This may be accomplished by fastening the damper stop clamp provided to the edge of the damper to prevent its closing.

The installation, including provisions for combustion and ventilation air, must conform with the National Fuel Gas Code ANSI Z223.1 (in the United States), the CAN/CGA B-149 Installation Code (in Canada) and applicable local building codes.

These models can be installed in a bedroom (in the United States) which has a total volume of unconfined space appropriate to the particular installation. Refer to the National Fuel Gas Code ANSI Z223.1/NFPA 54-(current edition). The Uniform Mechanical Code (current edition), and Local Building Officials for the options allowed in obtaining an effective bedroom volume of unconfined space.

Always keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

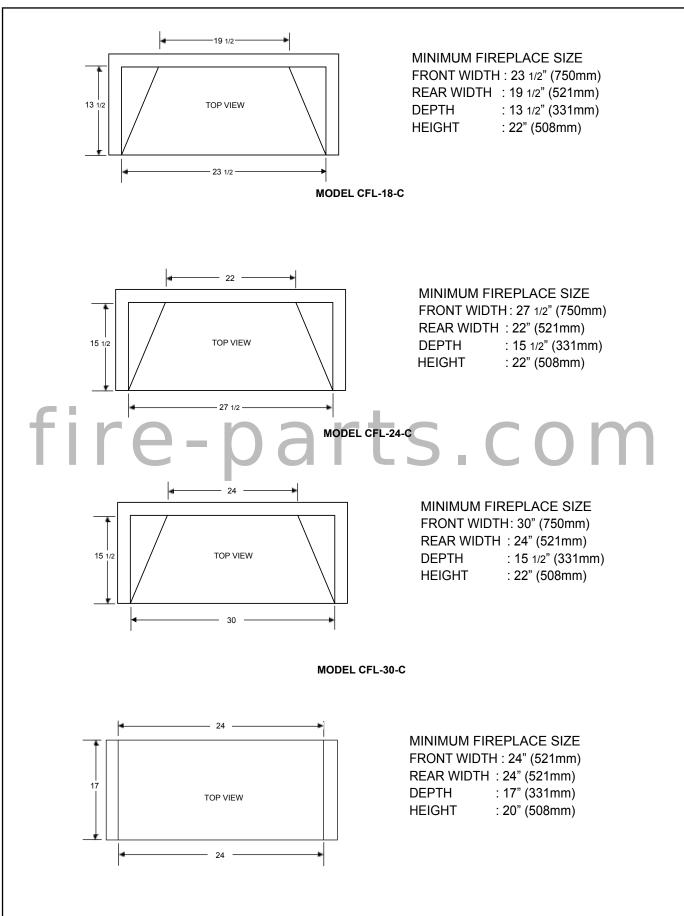
WARNING! Risk of Fire, Explosion or Electric Shock! DO NOT use this appliance if any part has been under water. Call a qualified service technician to inspect the appliance and to replace any part of the control system and/or gas control which has been under water.

### **A** WARNING



Fire Risk

THIS UNIT IS NOT FOR USE WITH SOLID FUEL. Solid fuels shall not be burned in a fireplace where a decorative appliance is installed. Failure to follow these instructions will result in a fire.



#### **MODEL ST-CFL-24-B**

Figure 1. Minimum Fireplace Sizes for CFL-18/24/30-C and ST-CFL-24-B

#### **B. BTU Specifications**

Models (U.S. or Canada)		Input BTU/h	Orifice Size (DMS)
CFL-18NG-C CFL-24NG-C CFL-30NG-C	US (0-2000 FT)	60,000	7-1.55 mm
CFL-24NG-IPI ST-CFL-24NG-B (NG)	CANADA (2000-4500 FT)	54,000	#25 DMS
CFL-18LP-C CFL-24LP-C	US (0-2000 FT)	60,000	2.30 mm
CFL-30LP-C CFL-24LP-IPI ST-CFL-24LP-C (Propane)	CANADA (2000-4500 FT)	54,000	#43 DMS

#### C. High Altitude Installation

**NOTICE:** If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Reduce input rate 10% for elevations between 2000 feet and 4500 feet. Above 4500 feet, consult local gas utility.

Check with your local gas utility to determine proper orifice size.

# fire-parts.com

# **2** Getting Started

**CAUTION!** When installing this log set in a factory built fireplace, be certain to consult the fireplace installation manual. <u>ALL</u> knockouts in the fireplace through which the gas supply line is run <u>MUST</u> be resealed with insulation after the gas line is in place.

These models contain complete gas-burner, grate(s), and log components needed. Use caution when handling logs to avoid damage. Position the gas-burner assembly to the rear of the fireplace. The ST-CFL-24 log set should be positioned in the center of the unit. Once fully assembled, the front log will extend forward of the burner assembly.

**WARNING!** Risk of Asphyxiation! Improper positioning of log set may allow spillage and prohibit proper draft.

- Position the log set as close to the back of the fireplace as possible.
- Position ST-CFL log set in the center of the fireplace.

#### A. Inspect Appliance and Components

- Carefully remove the appliance and components from the packaging.
- If packaged separately, the log set and appliance grate must be installed.
- Report to your dealer any parts damaged in shipment, particularly the condition of the glass.
- Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.

WARNING! Risk of Fire or Explosion! Damaged parts could impair safe operation. DO NOT install damaged, incomplete or substitute components. Keep appliance dry.

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance or vent system component.
- · Modification of the appliance or vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- · Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

Any such action may cause a fire hazard.

#### **B.** Installation

#### 1. GAS CONNECTION

- a. Run proper size gas line into fireplace. A 1/2 inch (13mm) gas line, with a 3/8 inch (10mm) reduction for hook-up, is usually sufficient for the Gas Log set; however, if the run is unusually long, a larger line may be required. Contact your local gas company or Department of Building and Safety if there are any questions.
- b. Optimum appliance performance requires proper input pressures. Pressure requirements are:

Gas Pressure	Natural Gas	Propane
Minimum inlet pressure	5.0 in. w.c.	11.0 in. w.c.
Maximum inlet pressure	10.0 in. w.c.	13.0 in. w.c.
Manifold pressure	3.5 in. w.c.	10.0 in. w.c.

**WARNING!** Risk of Fire or Explosion! High pressure will damage valve. Low pressure may cause explosion.

- Verify inlet pressures. Verify minimum pressures when other household gas appliances are operating.
- Install regulator upstream of valve if line pressure is greater than 1/2 psig.

**NOTICE:** This installation must conform with local codes. In the absence of local codes you must comply with the National Fuel Gas Code, ANSI Z223.1-latest edition in the U.S.A. and the CAN/CGA B149 Installation Codes in Canada.

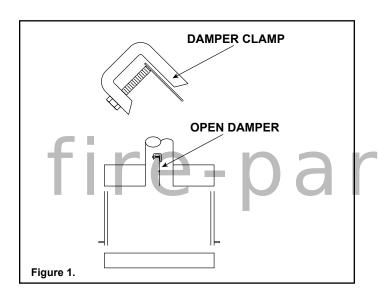
- c. The appliance and its individual shut off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of 1/2 psig.
- d. This appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig.

**Note**: The gas supply line should be purged of any trapped air prior to the first firing of the unit.

e. A damper stop clamp with set screw is provided to prevent full closure of the fireplace damper blade. Attach the clamp to the edge of the damper blade with pliers or wrenches. If the damper stop supplied does not fit the application, use a permanent means that will keep the damper open to a MINIMUM of 51 square inches (328cm²). See Figure 1.

#### WARNING! Risk of Fire!

- Open the chimney damper to its FULLY OPEN position when burning this gas log set.
- DO NOT burn Logs without the flue damper in the FULL OPEN position. Failure to do so is dangerous to your health and voids all warranties.



**Note:** The Commonwealth of Massachusetts requires that the chimney flue damper, when used with gas logs, shall be welded open or completely removed.

- f. Test fire the unit after referring to the SAFETY INFOR-MATION and LIGHTING INSTRUCTIONS found in Section 3 in this manual, or on the label plate assembly found on the gas-burner.
- g. After the gas line installation is complete, all connections must be tightened and checked for leaks with a commercially-available, non-corrosive leak check solution. Be sure to rinse off all leak check solution following testing. Refer to Section 3, OPERATING GUIDELINES and MAINTENANCE INSTRUCTIONS.
- h. Once the gas-burner is test fired and gas supply lines are purged, assemble the grate(s) and logs. Be certain to follow the Log Placement Instructions shipped with the unit. Remember to keep the Log Instructions along with this manual for future use.

#### 2. ELECTRICAL INSTALLATION

- This appliance may be used with a wall switch and/or remote control.
- Use low resistance thermostat wire for wiring from ignition system to the wall switch.
- Keep wire lengths as short as possible by removing any excess wire length.
- Low voltage and 110 VAC voltage cannot be shared within the same wall box.

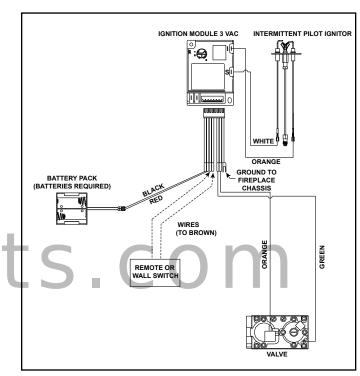


Figure 2. IPI Wiring Diagram-CFL-24NG-IPI and CFL-24LP-IPI

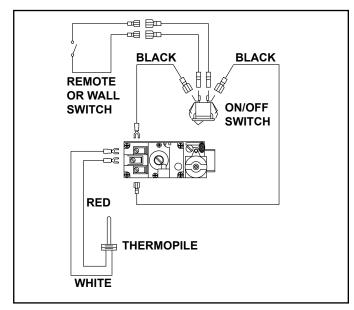


Figure 3. Standing Pilot Wiring Diagram

#### 3. AIR SHUTTER SETTINGS.

This appliance has an adjustable air shutter (which controls the primary air) factory set for the minimum vertical vent run. If your installation has more than the minimum required vertical vent length, adjustment of the air shutter may be necessary to obtain optimal flame appearance. This should be adjusted by a qualified installer at the time of installation.

#### **Air Shutter Settings**

	NG	Propane
Burner	3/8 in.	Full Open

#### 4. REMOTE CONTROL

- If a remote control is used, the receiver cannot be placed under the burner. If possible, place the receiver outside the combustion chamber.
- If the receiver must be placed in the combustion chamber, the protective heat shield MUST be used. See Figure 4.



Figure 4. Protective Heat Shield

 Position receiver on left side of gas log set (opposite the pilot). Place protective heat shield over receiver. See Figure 5.



Figure 5. Receiver Location-Left Side of Log Set

# 3

### **Operating Guidelines and Maintenance Instructions**

#### A. Before Lighting Appliance

Before lighting this appliance determine if it has a Standing Pilot or IntelliFire ignition system by viewing the wiring system and gas valve. If this appliance has a red or black ignitor button (see Figure 3 and Figure 4) this appliance has a Standing Pilot ignition system. If there is no red or black ignitor button, this appliance has an IntelliFire ignition system.



#### **A** WARNING

#### Fire Risk

Be sure fireplace screen or glass doors are in place when burning fireplace logs. Unless other provisions for combustion air are provided, the screen or doors shall have an opening for introduction of combustion air. THIS GAS LOG SET IS NOT DESIGNED TO OPERATE WITH AIR TIGHT GLASS DOORS. Adequate combustion and cooling air must be provided or the unit will not function properly.



### **WARNING**

#### Fire Risk Explosion Risk



WARNING: To avoid possible injury, fire and explosion, please read and follow these precautions and all instructions on this appliance before lighting the pilot. Before lighting, smell at floor level and/or use other means (such as using a commercially-available, non-corrosive leak check solution on all piping and connections, using a gas detector, etc.) to check for gas leaks. NOTE: L.P. (Propane) gas can become odorless and CANNOT always be detected by smell.

# Before operating this appliance have a qualified technician:

- · Remove all shipping materials.
- Review proper placement of logs, rockwool, and vermiculite.
- · Check the wiring.
- Ensure that there are no gas leaks.

Upon completing the gas line connection, a small amount of air will be in the lines. When first lighting the pilot light, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the pilot and burner will light and operate as indicated in the instruction manual. Subsequent lighting of the appliance will not require such purging.

#### WARNING

#### **HOT SURFACES!**

Glass and other surfaces are hot during operation AND cool down.

#### Hot glass will cause burns.

- Do not touch glass until it is cooled
- NEVER allow children to touch glass
- Keep children away
- CAREFULLY SUPERVISE children in same room as fireplace.
- Alert children and adults to hazards of high temperatures.

# High temperatures may ignite clothing or other flammable materials.

 Keep clothing, furniture, draperies and other flammable materials away.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified service technician, service agency or your dealer.

WARNING! Risk of Fire, Explosion or Electric Shock! DO NOT use this appliance if any part has been under water. Call a qualified service technician to inspect the appliance and to replace any part of the control system and/or gas control which has been under water.

#### B. Maintenance

Periodically remove the logs and examine the burner. If dirty, clean with a soft brush. Also examine the area around the burner air shutter and the pilot. Any dirt or lint in this area should be removed. This will ensure long life and trouble-free operation.

The appliance and venting system should be inspected before initial use and inspected and cleaned at least annually by a qualified field service person.

#### **Lighting Instructions (IPI)**

The IPI system must be operated with two D-cell batteries.

### 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.

- intermittent pilot ignition (IPI) device which automatically lights the burner. **DO NOT** try to light the burner by
- 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.

# WARNING:

#### DO NOT CONNECT LINE VOLT-AGE (110/120 VAC OR 220/240 VAC) TO THE CONTROL VALVE.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

WARNING: This product and the fuels used to operate this product (liquid propane or natural gas), and the products of combustion of such fuels, can expose you to chemicals

including benzene, which is known to the State of California to cause cancer and reproductive harm. For more information go to: www.P65Warnings.ca.gov.

Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

A. This appliance is equipped with an • 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. 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.

Hot while in operation. **DO NOT** touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.

#### **NOT FOR USE** WITH SOLID FUEL

For use with natural gas and propane. A conversion kit, as supplied by the manufacturer, shall be used to convert this appliance to the alternate fuel.

#### Also Certified for Installation in a Bedroom or a Bedsitting Room.

For assistance or additional information, consult a qualified installer, service agency or the gas supplier.

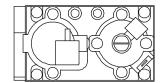
For additional information on operating your Hearth & Home Technologies fireplace, please refer to www.hearthnhome.com.

#### Final inspection by \_\_\_\_\_

# ☐ LIGHTING ☐ **INSTRUCTIONS (IPI)**

1. This appliance is equipped with an ignition device which automatically lights the burner. **DO NOT** try to light the burner by hand.

> **GAS VALVE**



- 2. 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 located on the left side of this label. If you do not smell gas, go to next step.
- **3.** To light the burner:

Equipped with wall switch: Turn ON/OFF switch to ON.

Equipped with remote or wall control: Press ON or FLAME button.

Equipped with thermostat: Set temperature to desired setting.

4. If the appliance does not light after three tries, call your service technician or gas supplier.

### op to turn off opGAS TO APPLIANCE

1. Equipped with wall switch: Turn ON/OFF switch to OFF.

Equipped with remote or wall control: Press OFF button.

Equipped with thermostat: Set temperature to lowest setting.

2. Service technician should turn off electric power to the control when performing service.

### 」 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.

# **WARNING:**

# DO NOT CONNECT 110 VAC TO THE CONTROL VALVE.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.



**WARNING:** This product and the fuels used to operate this product (liquid propane or natural gas), and the products of combustion of

such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm. For more information go to: www.P65Warnings.ca.gov.

Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

If you cannot reach your gas supplier, call the fire department.

- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, DO NOT try to repair it, call a qualified service technician. 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.

# **CAUTION:**

Hot while in operation. Do not touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.

#### NOT FOR USE WITH SOLID FUEL

For use with natural gas and propane. A conversion kit, as supplied by the manufacturer, shall be used to convert this appliance to the alternate fuel.

# Also Certified for Installation in a Bedroom or a Bedsitting Room.

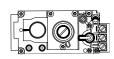
For assistance or additional information, consult a qualified installer, service agency or the gas supplier.

For additional information on operating your Hearth & Home Technologies fireplace, please refer to www.fireplaces.com.

#### Final inspection by \_

#### ☐ LIGHTING [ INSTRUCTIONS

- 1. Turn off all electric power to the appliance.
- 2. Push in gas control knob slightly and turn clockwise to "OFF".



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

- 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 located on the left side of this label. If you don't smell gas, go to next step.
- Find the pilot. The pilot is inside combustion chamber next to the main burner.



- Turn knob on gas control counter clockwise to "PILOT".
- 6. Push in control knob all the way and hold in. Immediately depress red or black piezo button. It may require several depressions of the red or black piezo button until PILOT lights. If PILOT light does not light after 10 seconds, return to step 3. Continue to hold the control knob in for about one minute after the pilot is lit. Release knob and it will pop back out. Pilot should remain lit. If it goes out, repeat steps 3 through 6.
- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
- 7. Turn gas control knob counterclockwise to "ON".
- 8. To light Burner, flip the on/off switch to the "ON" position, and close access grille.
- 9. Turn on all electric power to the appliance.

# GAS TO APPLIANCE

- Turn off all electric power to the appliance if service is to be performed.
- 2. Open control access panel.
- 3. Move switch to "OFF" position.
- **4.** Push in gas control knob slightly and turn clockwise to OFF". Do not force.
- Close control access panel.



# **Troubleshooting**

With proper installation, operation, and maintenance your gas appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service technician in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician. Contact your dealer to arrange a service call by a qualified service technician.

#### A. Standing Pilot Ignition System

Symptom	Possible Causes	Corrective Action
After repeated triggering of the red or black piezo ignitor button, the spark	A. No gas or low gas pressure.	Check the remote shut-off valves from the appliance. Usually, there is a valve near the gas main. There can be more than one valve between the appliance and the main.
ignitor will not light the pilot.	B. No propane in tank.	Check the propane tank. You may be out of fuel.
phot.	C. Ignitor.	Check the spark at the electrode and pilot. If no spark and electrode wire is properly connected, replace the ignitor. Verify that there is no short in electrode wire.
<u></u>	D. Pilot or misaligned electrode (spark at electrode).	Using match, light the pilot. If the pilot lights, turn off the pilot and trigger the piezo ignitor button again. If the pilot lights, an improper gas/air mixture caused the bad lighting and a longer purge period is recommended. If the pilot will not light, ensure the gap at the electrode and pilot is one-eighth in. to have a strong spark. If the gap is OK, replace the pilot.
The pilot will not stay lit after carefully following the lighting instructions.	A. Thermocouple.	Check that the pilot flame impinges on the thermocouple. Adjust the pilot for proper flame impingement.  Ensure that the thermocouple connection at the gas valve is fully inserted and tight (hand tighten plus 1/4 turn).
		Verify proper voltage output from the thermocouple to the valve. Place one millivolt meter lead wire on the thermocouple copper lead. Place the second lead wire on the solder button on the back of the valve (blue wire). Start the pilot and hold the valve knob in. The millivolt reading should read 8-16 millivolts. If millivolt reading is less than 8 millivolts, replace thermocouple.
	B. Improper gas inlet pressure.	Natural gas should be 5-10 in. w.c. Propane should be 11-13 in. w.c. Verify pressure with manometer.
	C. Valve.	If the thermocouple is producing 8-16 millivolts, replace control valve.
3. The pilot is burning, there is no burner flame, the valve knob is in the ON position, and the ON/OFF switch is in	A. On/off switch or wires.	Check the ON/OFF switch and wires for proper connections. Place the jumper wires across the terminals at the switch. If the burner comes on, replace the switch. If the switch is OK, place the jumper wires across the switch wires at the gas valve. If the burner comes on, the wires are faulty or connections are bad.
the ON position.	B. Thermopile may not be gen-	Check that the pilot flame impinges thermopile properly.
	erating sufficient millivoltage.	Be sure the wire connections from the thermopile at the gas valve terminals are tight and that the thermopile is fully inserted into the pilot bracket.
		Check the thermopile with a millivolt meter. Take the reading at TH-TP&TP terminals of the gas valve. The meter should read 350 millivolts minimum, while holding the valve knob depressed in the pilot position, with the pilot lit, and the ON/OFF switch in the OFF position. Replace the thermopile if the reading is below the specified minimum.
		With the pilot in the ON position, disconnect the thermopile leads from the valve. Take a reading at the thermopile leads. The reading should be 350 millivolts minimum. Replace the thermopile if the reading is below the minimum.

# **Troubleshooting (continued)**

Symptom	Possible Cause	Corrective Action	
3. (Continued)	c. Valve.	Turn the valve knob to the ON position. Place the ON/OFF switch in the ON position. Check the millivolt meter a the thermopile terminals. The millivolt meter should read greater than 125mV. If the reading is acceptable, and if the burner does not come on, replace the gas valve.	
	d. Plugged burner orifice.	Check the burner orifice for stoppage. Remove stoppage.	
	e. Wall switch or wires.	Follow the corrective action in Symptom and Possible Cause 1.a above. Check the switch and wiring.	
Frequent pilot outage problem.	Pilot flame may be too high or too low, or blowing out (high pressure), causing pilot safety to drop out.	Clean thermocouple and adjust the pilot flame for proper flame impingement. Follow lighting instructions carefully.	
5. The pilot and main	a. No propane in tank.	Check the propane tank. Refill the fuel tank.	
burner extinguish while in operation.	b. Improper gas inlet pressure.	Verify with manometer. NG should read 5-14 in. w.c. Propane should read 10-14 in. w.c.	
	c. Inner vent pipe leaking exhaust gases back into the system.	Check venting system for damage. Replace/repair improperly assembled pipe sections.	
fire	d. Glass installed improperly.	Check to ensure glass is installed properly. Replace glass panel assembly.	
	e. Thermopile or thermocouple.	Replace pilot if necessary.	
	f. Improper vent cap installation.	Check for proper installation and freedom from debris or blockage.	

# **B.** IntelliFire Ignition System

Symptom	Possible Cause	Corrective Action	
Pilot won't light.     The ignitor/module makes noise, but no	a. Incorrect wiring.	Verify "S" wire (white) for sensor and "I" wire (orange) for ignitor are connected to correct terminals on module and pilot assembly.	
spark.	b. Loose connections or electrical shorts in the wiring.	Verify no loose connections or electrical shorts in wiring from module to pilot assembly. Verify connections underneath pilot assembly are tight; also verify connections are not grounding out to metal chassis, pilot burner, pilot enclosure, mesh screen if present, or any other metal object.	
	c. Ignitor gap is too large.	Verify gap of igniter to right side of pilot hood. The gap should be approximately .17 in. or 1/8 in. (3 mm).	
	d. Module.	Turn ON/OFF rocker switch or wall switch to OFF position. Remove ignitor wire "I" from module. Place a grounded wire about 3/16 in. (5 mm) away from "I" terminal on module. Place ON/OFF rocker switch or wall switch in ON position. If there is no spark at "I" terminal module must be replaced. If there is a spark at "I" terminal, module is fine. Inspect pilot assembly for shorted sparker wire or cracked insulator around electrode. Replace pilot if necessary.	
Pilot won't light,     there is no noise or     spark.	a. No power.	Check batteries.	
fir	b. A shorted or loose connection in wiring configuration or wiring harness.	Remove and reinstall the wiring harness that plugs into module. Verify there is a tight fit. Verify pilot assembly wiring to module. Remove and verify continuity of each wire in wiring harness. Replace any damaged components.	
	c. Improper wall switch wiring.	Check wiring connections.	
	d. Module not grounded.	Verify black ground wire from module wire harness is grounded to metal chassis of appliance.	
	e. Module.	Turn ON/OFF rocker switch or wall switch to OFF position. Remove ignitor wire "I" from module. Place ON/OFF rocker switch or wall switch in ON position. If there is no spark at "I" terminal module must be replaced. If there is a spark at "I" terminal, module is fine. Inspect pilot assembly for shorted sparker wire or cracked insulator around electrode.	
3. Pilot sparks, but Pilot will not light.	a. Gas supply.	Verify that incoming gas line ball valve is "open". Verify that inlet pressure reading is within acceptable limits, inlet pressure must not exceed 14 in. W.C.	
	b. Ignitor gap is incorrect.	Verify that spark gap from ignitor to pilot hood is .17 in. or 1/8 in (3 mm).	
	c. Module is not grounded.	Verify module is securely grounded to metal chassis of appliance.	
	d. Module voltage output / Valve/Pilot solenoid ohms readings.	Verify battery voltage is at least 2.7 volts. Replace batteries if voltage is below 2.7.	

# IntelliFire Ignition System - (continued)

Symptom	Possible Cause	Corrective Action
4. Pilot lights but continues to spark, and main burner will not ignite.  (If the pilot continues)	A shorted or loose connection in flame sensing rod.	Verify all connections to wiring diagram in manual. Verify connections underneath pilot assembly are tight. Verify connections are not grounding out to metal chassis, pilot burner, pilot enclosure or screen if present, or any other metal object.
to spark after the pilot flame has been lit, flame rectification has not occurred.)	b. Poor flame rectification or contaminated flame sensing rod.	With fixed glass assembly in place, verify that flame is engulfing flame sensing rod on left side of pilot hood. Flame sensing rod should glow shortly after ignition. Verify correct pilot orifice is installed and gas inlet is set to pressure specifications. Polish flame sensing rod with fine steel wool to remove any contaminants that may have accumulated on flame sensing rod.
	c. Module is not grounded.	Verify module is securely grounded to metal chassis of appliance. Verify that wire harness is firmly connected to the module.
	d. Damaged pilot assembly or contaminated flame sensing rod.	Verify that ceramic insulator around the flame sensing rod is not cracked, damaged, or loose. Verify connection from flame sensing rod to white sensor wire. Polish flame sensing rod with fine steel wool to remove any contaminants that may have accumulated on flame sensing rod. Verify continuity with a multimeter with ohms set at lowest range. Replace pilot if any damage is detected.
TILE	e. Module.	Turn ON/OFF rocker switch or wall switch to OFF position. Remove ignitor wire "I" from module. Place ON/OFF rocker switch or wall switch in ON position. If there is no spark at "I" terminal module must be replaced. If there is a spark at "I" terminal, module is fine.

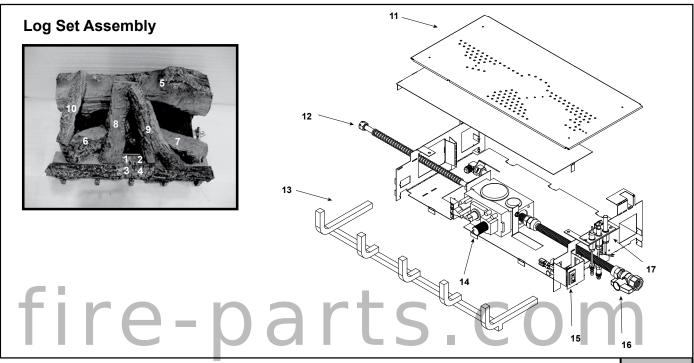


#### A. Service Parts

# CFL-18NG-C, CFL-18LP-C

Campfire 18" Gas Log Set

Beginning Manufacturing Date: Nov 2007 Ending Manufacturing Date: Active



IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.

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Stocked at Depot

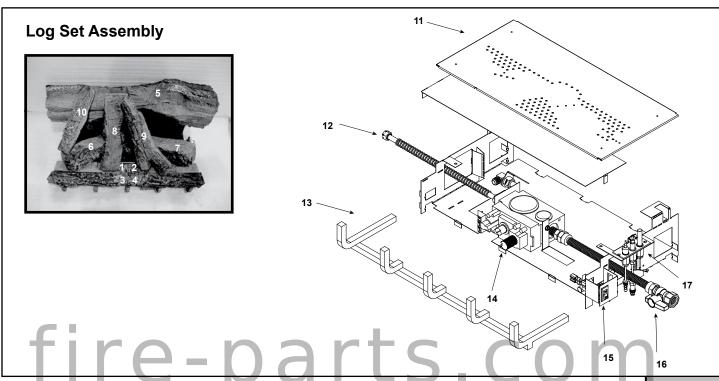
			I at Depot	
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
	Log Assembly		LOGS-CFL18	
1	Log 1		SRV481-766	
2	Log 2		SRV401-700	
3	Log 3		CD\/404 755	
4	Log 4		SRV481-755	
5	Log 5	Pre 5/15/16, Must	SRV481-701	
6	Log 6	order complete assembly	SRV481-705	
7	Log 7		SRV446-702	
8	Log 8		SRV481-703	
9	Log 9		SRV402-701	
10	Log 10		SRV446-706	
11	Burner Assembly		526-010A	Υ
12	Flexible Gas Connector		477-301A	Υ
13	Grate Assembly		526-360	
14	Valve NG		418-500	Υ
14	Valve LP		418-501	Υ
15	ON/Off Switch		060-521A	Υ
16	Flex Ball Valve Assembly		SRV302-320	Υ
17	Pilot Assembly NG		2103-010	Υ
17	Pilot Assembly LP		2103-011	Υ

Additional service parts on following page



# CFL-24NG-C, CFL-24LP-C

Beginning Manufacturing Date: Nov 2007 Ending Manufacturing Date: Active



IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.

E.
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Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
	Log Assembly		LOGS-CFL24	
1	Log 1		SRV481-766	
2	Log 2		SKV401-700	
3	Log 3		SRV481-755	
4	Log 4		SRV401-755	
5	Log 5	Pre 5/15/16, Must		
6	Log 6	order complete assembly	SRV481-705	
7	Log 7		SRV446-702	
8	Log 8		SRV481-703	
9	Log 9		SRV402-701	
10	Log 10		SRV446-706	
11	Burner Assembly		526-010A	Υ
12	Flexible Gas Connector		477-301A	Υ
13	Grate Assembly		526-360	
14	Valve NG		418-500	Υ
14	Valve LP		418-501	Υ
15	ON/Off Switch		060-521A	Υ
16	Flex Ball Valve Assembly		SRV302-320	Υ
17	Pilot Assembly NG		2103-010	Υ
_ ''	Pilot Assembly LP		2103-011	Υ

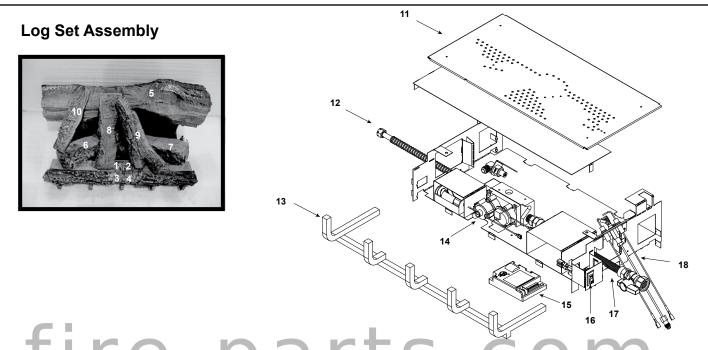


# CFL-24NG-IPI, CFL-24LP-IPI

**Beginning Manufacturing Date: Aug 2009** 

**Ending Manufacturing Date: Active** 





IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. Hearth and Home Technologies does not sell directly to consumers. Provide

model number and serial number when requesting service parts from your dealer or distributor.					
ITEM	DESCRIPTION	COMMENTS	PART NUMBER		
	Log Assembly		LOGS-CFL24		
1	Log 1		CD)/404 766		
2	Log 2		SRV481-766		
3	Log 3		SRV481-755		
4	Log 4				
5	Log 5	Pre 5/15/16, Must	SRV526-701		
6	Log 6	order complete assembly	SRV481-705		
7	Log 7	assembly	SRV446-702		
8	Log 8		SRV481-703		
9	Log 9		SRV402-701		
10	Log 10		SRV446-706		
11	Burner Assembly		526-010A	Υ	
12	Flexible Gas Connector		477-301A	Υ	
13	Grate Assembly		526-360		
14	Valve NG		593-500	Υ	
14	Valve LP		SRV593-501	Υ	
15	Control Module		593-595	Y	
16	ON/Off Switch		060-521A	Υ	
17	Flex Ball Valve Assembly		SRV302-320	Y	
10	Pilot Assembly NG		SRV2090-012	Υ	
18 -		İ			

Additional service parts on following page

Pilot Assembly LP

2090-013

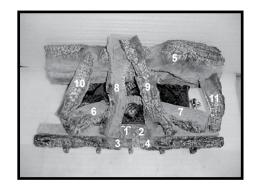
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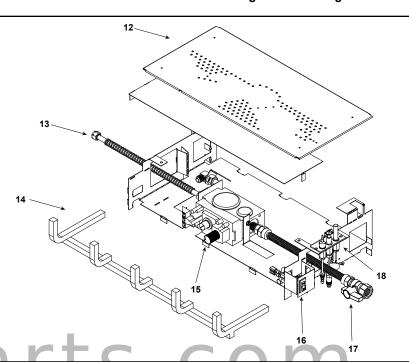


# CFL-30NG-C, CFL-30LP-C

Beginning Manufacturing Date: Nov 2007 Ending Manufacturing Date: Active







IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.



Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	•
	Log Assembly		LOGS-CFL30	
1	Log 1		SD\/E06.766	
2	Log 2		SRV526-766	
3	Log 3		OD)/506 755	
4	Log 4		SRV526-755	
5	Log 5	Pre 5/15/16, Must	SRV526-701	
6	Log 6	order complete	SRV481-705	
7	Log 7	assembly	SRV446-702	
8	Log 8		SRV481-704	
9	Log 9		SRV446-705	
10	Log 10		SRV446-706	
11	Log 11		SRV530-703	
12	Burner Assembly		526-010A	Υ
13	Flexible Gas Connector		477-301A	Υ
14	Grate Assembly		526-360	
15	Valve NG		418-500	Υ
15	Valve LP		418-501	Υ
16	ON/Off Switch		060-521A	Υ
17	Flex Ball Valve Assembly		SRV302-320	Υ
40	Pilot Assembly NG		2103-010	Υ
18	Pilot Assembly LP		2103-011	Υ

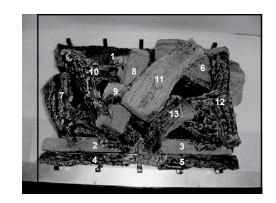


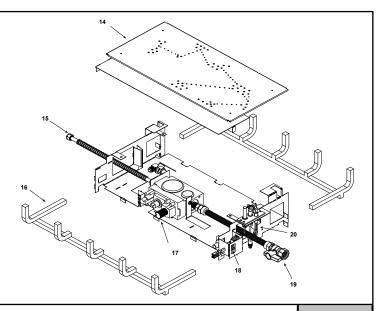
# ST-CFL-24NG-B, ST-CFL-24LP-B

HEARTH&HOME

Beginning Manufacturing Date: Nov 2007 Ending Manufacturing Date: Active

#### Log Set Assembly





IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.



Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
	Log Assemby		LOGS-STCFL	
1	Log 1		SRV569-710	
2	Log 2		CD\/500.744	
3	Log 3		SRV569-711	
4	Log 4		SRV481-755	
5	Log 5		SKV401-755	
6	Log 6	Pre 5/15/16, Must	SRV569-708	
7	Log 7	order complete	SRV569-709	
8	Log 8	assembly	SRV569-704	
9	Log 9		SRV569-706	
10	Log 10		SRV569-707	
11	Log 11		SRV569-702	
12	Log 12		SRV569-703	
13	Log 13		SRV569-705	
14	Burner Assembly		526-011A	Y
15	Flexible Gas Connector		477-301A	Υ
16	Grate Assembly		526-360	
17	Valve NG		418-500	Y
17	Valve LP		418-501	Υ
18	ON/Off Switch		060-521A	Υ
19	Flex Ball Valve Assembly		SRV302-320	Y
20	Pilot Assembly NG		2103-010	Y
20	Pilot Assembly LP		2103-011	Υ

Additional service parts on following page



# CFL-18/24/30-C & ST-24-CFL-B



Beginning Manufacturing Date: Nov 2007 Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or

М	DESCRIPTION	COMMENTS	PART NUMBER	at Dep
	Mineral Wool		050-721	
	Orifice NG (1.55)		526-801	Y
	Orifice LP (2.30 mm)		526-800	Υ
	Remote Heat Shield		526-199	
	Vermiculite		060-720	
	Standing P	ilot only		
	Piezo Ignitor		291-513	Υ
	Pilot Orifice NG		SRV2103-116	Y
	Pilot Orifice LP		2103-117	Y
	Thermocouple	L	2103-511	Υ
	Thermopile		2103-512	Υ
-	Wire Assembly 24 in	49.6	089-550A	Y
	IPI O	nly		
	Battery Pack		593-594A	Y
	Module Heat Shield		526-198	
	Pilot Orifice NG		593-528	Y
	Pilot Orifice LP		593-527	Y
	Wire Assembly		593-590A	Y
	Single Wire Assembly, 24 in		049-555A	Y
				<u> </u>

#### **B. Limited Lifetime Warranty**

# Hearth & Home Technologies LIMITED LIFETIME WARRANTY

Hearth & Home Technologies, on behalf of its hearth brands ("HHT"), extends the following warranty for HHT gas, wood, pellet, coal and electric hearth appliances that are purchased from an HHT authorized dealer.

#### **WARRANTY COVERAGE:**

HHT warrants to the original owner of the HHT appliance at the site of installation, and to any transferee taking ownership of the appliance at the site of installation within two years following the date of original purchase, that the HHT appliance will be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components manufactured by HHT are found to be defective in materials or workmanship during the applicable warranty period, HHT will, at its option, repair or replace the covered components. HHT, at its own discretion, may fully discharge all of its obligations under such warranties by replacing the product itself or refunding the verified purchase price of the product itself. The maximum amount recoverable under this warranty is limited to the purchase price of the product. This warranty is subject to conditions, exclusions and limitations as described below.

#### **WARRANTY PERIOD:**

Warranty coverage begins on the date of original purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the product by an independent, authorized HHT dealer/ distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from HHT, regardless of the installation or occupancy date. The warranty period for parts and labor for covered components is produced in the following table.

The term "Limited Lifetime" in the table below is defined as: 20 years from the beginning date of warranty coverage for gas appliances, and 10 years from the beginning date of warranty coverage for wood, pellet, and coal appliances. These time periods reflect the minimum expected useful lives of the designated components under normal operating conditions.

Warrant	Warranty Period HHT Manufactured Appliances and Venting								
Parts	Labor	Gas	Wood	Pellet	EPA Wood	Coal	Electric	Venting	Components Covered
1 Year		Х	Х	Х	Х	Х	Х	Х	All parts and material except as covered by Conditions, Exclusions, and Limitations listed
				Х	Х	Х			Igniters, electronic components, and glass
2 y€	ears	Х	Χ	Х	Х	Χ			Factory-installed blowers
		V	Х						Molded refractory panels
3 ye	ears	X		Х					Ignition Modules Firepots and burnpots
5 years	1 year			Х	Х				Castings and baffles
7 years	3 years		Х	Х	Х				Manifold tubes, HHT chimney and termination
10 years	1 year	Х							Burners, logs and refractory
Limited Lifetime	3 years	Х	Х	Х	Х	Х			Firebox and heat exchanger
90 Days		Х	Х	Х	Х	Х	Х	Х	All replacement parts beyond warranty period

See conditions, exclusions, and limitations on next page.

#### B. Limited Lifetime Warranty (continued)

#### **WARRANTY CONDITIONS:**

- This warranty only covers HHT appliances that are purchased through an HHT authorized dealer or distributor. A list of HHT authorized dealers is available on the HHT branded websites.
- This warranty is only valid while the HHT appliance remains at the site of original installation.
- This warranty is only valid in the country in which the HHT authorized dealer or distributor that sold the appliance resides.
- Contact your installing dealer for warranty service. If the installing dealer is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the product.
- Check with your dealer in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this warranty.

#### **WARRANTY EXCLUSIONS:**

This warranty does not cover the following:

- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items, or other external sources and residues left on the plated surfaces from the use of abrasive cleaners or polishes.
- Repair or replacement of parts that are subject to normal wear and tear during the warranty period. These parts include: paint, wood, pellet and coal gaskets, firebricks, grates, flame guides, batteries and the discoloration of glass.
- Expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the appliance in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the appliance; (2) failure to install the appliance in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/incorrectly performed repairs; (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operating instructions; (7) installation or use of components not supplied with the appliance or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the appliance.
- Non-HHT venting components, hearth components or other accessories used in conjunction with the appliance.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas appliance is installed.
- HHT's obligation under this warranty does not extend to the appliance's capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper appliance for the application. Consideration must be given to appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

#### This warranty is void if:

- The appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals. Over-firing can be identified by, but not limited to, warped plates or tubes, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
- The appliance is subjected to prolonged periods of dampness or condensation.
- There is any damage to the appliance or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation.

#### **LIMITATIONS OF LIABILITY:**

• The owner's exclusive remedy and HHT's sole obligation under this warranty, under any other warranty, express or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above. In no event will HHT be liable for any incidental or consequential damages caused by defects in the appliance. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific rights; you may also have other rights, which vary from state to state. EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE.

4021-645H 10/15 Page 2 of 2

#### C. Contact Information



Hearth & Home Technologies 7571 215th Street West, Lakeville, MN 55044 www.hearthnhome.com

Please contact your Hearth & Home Technologies dealer with any questions or concerns. For the location of your nearest Hearth & Home Technologies dealer, please visit www.hearthnhome.com.

- NOTES -

# fire-parts.com

# · Import

#### CAUTION

#### DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.



This product may be covered by one or more of the following patents: (United States) 5613487, 6006743, 6019099, 6053165, 6145502, 6374822, 6484712, 6601579, 6769426, 6863064, 7077122, 7074035, 7098269, 7258116, 7322819, 7470729, 7726300, 8147240, 9625149 or other U.S. and foreign patents pending.

2000-945D