# **Installation & Operating Manual**



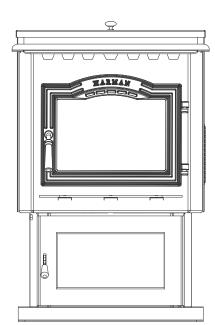
# Model(s): PC45 Freestanding Corn/Pellet Stove



PC45 Use & Care Video







# 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 stove.
- 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.

### NOTE

To obtain a French translation of this manual, please contact your dealer or visit www.harmanstoves.com

Pour obtenir une traduction française de ce manuel, s'il vous plaît contacter votre revendeur ou visitez www. harmanstoves.com

Contact your local dealer with questions on installation, operation or service.

### SAFETY NOTICE

PLEASE READ THIS ENTIRE MANUAL BEFORE YOU INSTALL AND USE YOUR NEW ROOM HEATER. FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY, OR EVEN DEATH.

FOR USE IN THE U.S. AND CANADA. SUITABLE FOR INSTALLATION IN MOBILE HOMES.

IF THIS APPLIANCE IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT. FOR YOUR SAFETY, FOLLOW INSTALLATION DIRECTIONS.

CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION

REQUIREMENTS IN YOUR AREA.

CONTACT YOUR LOCAL AUTHORITY (SUCH AS MUNICIPAL BUILDING DEPARTMENT, FIRE DEPARTMENT, FIRE PREVENTION BUREAU, ETC.) TO DETERMINE THE NEED FOR A PERMIT.

CETTE GUIDE D'UTILISATION EST DISPONIBLE EN FRANCAIS. CHEZ VOTRE CONCESSIONNAIRE DE HARMAN®.

# SAVE THESE INSTRUCTIONS.

# Introduction

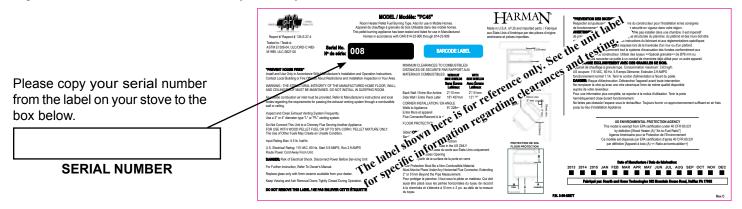
The PC 45 Multi-fuel Stove makes burning corn, pellets, or grain more convenient than ever. It's special Sidewinder Burn Pot allows corn to be burned from three days up to a week without cleaning, depending on the corn's moisture level and burn rate.

Automatic Ignition allows you to fill the hopper, set your desired room temperature and walk away. The PC 45 will adjust it's feed rate based on the temperatures received by the room sensor, and keep your home at the set temperature.

The PC 45's automatic temperature control system eliminates the warm/cold cycle associated with thermostatically controlled heating systems and even turns the PC 45 on and off as needed.

Our exclusive Accordion Heat Exchanger and Air Cooled Combustion Blower allows the PC 45 to produce maximum heat without creating high exhaust temperatures. The Outside Air option can increase heat efficiency even more.

The PC 45 can burn corn or grain with moisture levels up to 16%, with 14.5% or less being ideal. It can also burn pellets regardless of ash content. This allows you to buy lower cost fuel and still achieve the same results.



SAFETY NOTICE: IF THIS HARMAN STOVE IS NOT PROPERLY INSTALLED. A HOUSE FIRE MAY RESULT. FOR YOUR SAFETY, FOLLOW THE INSTALLATION DIRECTIONS. CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.

Always be sure there is no fuel in the ash pan prior to burning the stove. After any service or testing, empty the ash pan completely.

Listed By: Omni-Test Laboratories, Inc.

#### Report #: 135-S-27-4

Tested To: ASTM E 1509-04, "Standard Specification for Room Heaters, Pellet Fuel-Burning Type"; ULC-S627-00, "Standard for Space Heaters for Use with Solid Fuels"; ULC/ORD-C1482-M1990, "Requirements for Space Heaters for Use with Particulate Solid Fuels."

This appliance is also approved for installation in a shop.



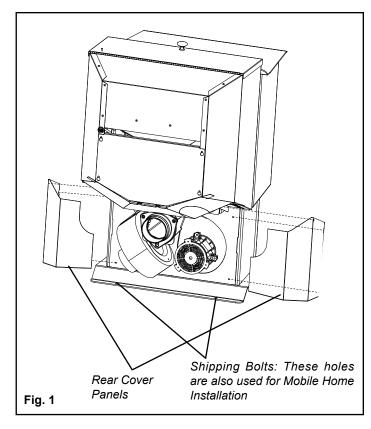
Hearth & Home Technologies 352 Mountain House Road Halifax, PA 17032 www.harmanstoves.com

→ = Contains updated information

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# Assembly and Installation



Follow these instructions along with all local codes regarding installation of this appliance.

Do **NOT** use makeshift compromises when installing this appliance, serious consequences may result.

With any hearth appliance, installation of smoke detectors is recommended on every level of the home.

#### Possible causes of smoke detector activation:

Paint curing process - Open a window near the appliance for the first few hours of burning.

Exhaust being drawn back inside the dwelling - Outside air connection to the appliance is necessary.

Vent leakage - All interior seams and joints should be sealed with silicone where applicable. Follow vent manufacturers instructions for proper sealing.

### Unpacking

The PC 45 is bolted to the skid to prevent movement during shipping.

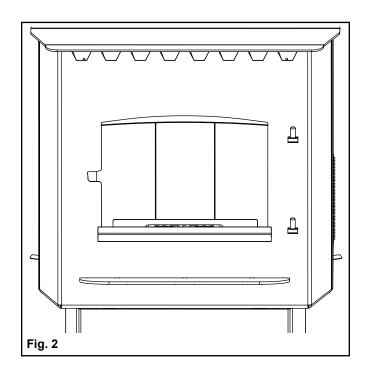
To free the stove from the skid you must remove the holddown bolts in the rear of the pedestal base.

### Removing or Installing rear panels

To remove the rear cover panels, loosen the screws slightly and slide the covers outward as shown in Fig 1. To reinstall, simply slide back into place and retighten the screws.

### Firebrick

Install the three (3) firebrick vertically on the angle above the burnpot. Fig. 2



# Installation

### Installing

Place the stove on a noncombustible type floor or floor protector that extends a minimum of 6 inches (152mm) to the front of the load door opening, 6 inches (152mm) to the sides of the door opening, and 6 inches to the rear. Floor protection must also extend 2 inches (51mm) beyond each side of any horizontal flue pipe. The minimum floor protector material is 20 gauge sheet metal. Other floor protector materials are ceramic tile, stone, brick, etc.

**NOTE for Canadian installation only:** Per ULC-S627-00, If installed on a combustible floor, the need to provide a noncombustible *floor protector* covering the area beneath the *space heater* and extending at least 17.72" (450mm) on the firing side and at least 7.87" (200mm) on the other sides.

In Canada, you may follow smaller U.S. floor protection requirements ONLY if the user agrees to completely shutdown the appliance, and allow it to cool to where all fire is extinguished and the combustion blower and its indicator light shuts off, prior to opening the firebox door or ash door.

Place the stove away from combustible walls at least as far as shown in Figures 3 and 4. Please note the difference in side wall clearance with and without side shields.

Note that the clearances shown are minimum for safety but do not leave much room for access when cleaning or servicing. Please take this into account when placing the stove.

Connect the power cord to a 120 VAC, 60 Hz grounded receptacle. (A surge protector is recommended to protect the circuit board.) Also be sure that the polarity of the outlet that the stove is plugged into is correct.

Prior to installing the flue pipe, connect a draft meter. (The draft meter must have a minimum range of 0 - .5") Record the first reading. Connect flue pipe to stove and be sure all doors and windows in the home are closed. Record the second draft reading\_\_\_\_\_. If the second reading is more than .05" lower than the first reading, check for possible restrictions or the need for outside air (see page 7). For more information on the draft test procedure, refer to Page 19.

#### **Mobile Home Installation**

When installing this unit in a mobile home, several requirements must be followed:

- 1. The unit must be bolted to the floor. This can be done with 1/4" lag screws through the 2 holes in the base plate.
- 2. The unit must also be connected to outside air. See page 6.

3. Floor protection and clearances must be followed as shown.

4. Unit must be grounded to the metal frame of the mobile home.

#### CAUTION: This appliance must be vented to the outside.

Due to high temperatures, the stove should be placed out of traffic and away from furniture and draperies.

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns to skin and/or clothing.

Young children should be carefully supervised when they are in the same room as the stove.

Clothing and other flammable materials should not be placed on or near this unit.



DO NOT INSTALL IN SLEEPING ROOM.

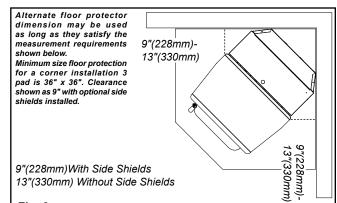
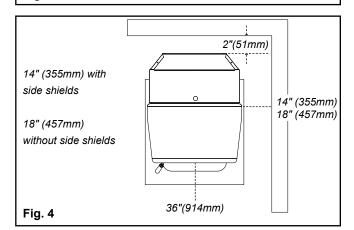


Fig. 3



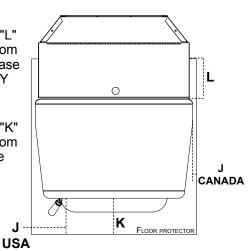
Minimum size rectangular floor protection (USA) is  $28^{5/16"}$  Deep By  $24^{3/4"}$  Wide.

\* Floor protection dimensions for the front and sides are measured from the appliance door opening in The United States. In Canada, the side dimension is measured from the widest part of the appliance.

Floor Protection Requirements		US	Canada
J	Sides	6"	200mm
Κ	Front	6"	450mm
L	Rear	6"	200mm

**NOTE:** Measurement "L" is measured from the pedestal base in the US ONLY

NOTE: Measurement "K" is measured from the glass in the US ONLY



### **Requirements for Terminating the Venting**

**WARNING:** Venting terminals must not be recessed into a wall or siding.

**NOTE:** Only PL vent pipe wall pass-throughs and fire stops should be used when venting through combustible materials.

**NOTE:** Always take into consideration the effect the prevailing wind direction or other wind currents will cause with flyash and /or smoke when placing the termination.

### In addition, the following must be observed:

- A. The clearance above grade must be a minimum of 12".
- B. The clearance to a window or door that may be opened must be a minimum of 48" to the side, 48" below the window/door, and 12" above the window/door.
- C. A 12" clearance to a permanently closed window is recommended to prevent condensation on the window.
- D. The vertical clearance to a ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center-line of the terminal must be a minimum of 18".
- E. The clearance to an unventilated soffit must be a minimum of 12".
- F. The clearance to an outside corner is 11" from center of pipe.
- G. The clearance to an inside corner is 12".
- H. A vent must not be installed within 3 feet (90 cm) above a gas meter/regulator assembly when measured from the horizontal center-line of the regulator.
- I. The clearance to service regulator vent outlet must be a minimum of 6 feet.

- J. The clearance to a non-mechanical air supply inlet to the building or the combustion air inlet to any other appliance must be a minimum of 48".
- K. The clearance to a mechanical air supply inlet must be a minimum of 10 feet.
- L. The clearance above a paved sidewalk or a paved driveway located on public property must be a minimum of 7 feet.
- M. The clearance under a veranda, porch, deck or balcony must be a minimum of 12 inches. (see B. also)

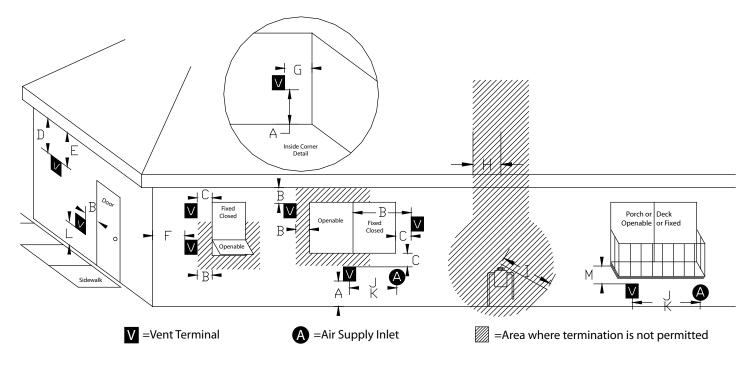
**NOTE:** The clearance to vegetation and other exterior combustibles such as mulch is 36" as measured from the center of the outlet or cap. This 36" radius continues to grade or a minimum of 7 feet below the outlet.

Certain Canadian and or Local codes or regulations may require different clearances.

A vent shall not terminate directly above a side-walk or paved driveway which is located between two single family dwellings and serves both dwellings.

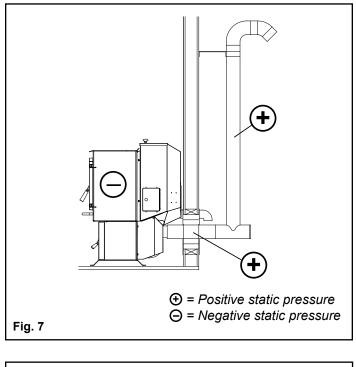
Only permitted if veranda, porch, deck, or balcony is fully open on a minimum of 2 sides beneath the floor.

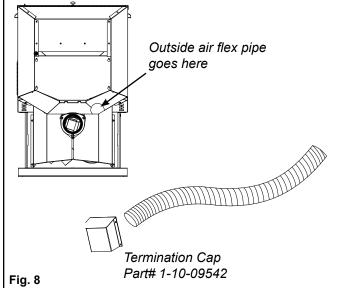
# NOTE: Where passage through a wall, or partition of combustible construction is desired, the installation shall conform to CAN/CSA-B365. (if in Canada)



### **IMPORTANT NOTICE**

### Only 3 inch or 4 inch Pellet Vent (PL) Pipe May be used.





NOTE: Simpson DuraVent PelletVent Pro Harman Adapter Part #3PVP-ADHB and PelletVent Pro Harman Adapter Increaser Part #3PVP-X4ADHB are highly recommended to be installed on the starter collar to insure a proper pipe connection to the unit. A combustion blower is used to extract the combustion gases from the firebox. This causes a negative pressure in the firebox and a positive pressure in the venting system as shown in Fig. 7. The longer the vent pipe and more elbows used in the system, the greater the flow resistance. Because of these facts we recommend using as few elbows as possible and 15 feet or less of vent pipe. The maximum horizontal run should not exceed 48". If more than 15 feet of pipe is needed, the diameter should be increased from 3" to 4" because a larger pipe creates less flow resistance. **Be sure to use approved pellet vent pipe wall and ceiling pass through fittings to go through combustible walls and ceilings. The starting collar must be secured to the flue collar with a minimum of two fasteners. Follow vent manufacturer's instructions for sealing each joint and/or seam.** 

### Vent Pipe

Pellet venting pipe (also known as "PL" vent ) is constructed of two layers with air space between the layers. Some manufacturers produce PL vent designed specifically for corn-burning. If planning to burn corn or other grains, be sure venting system is approved and warranted for corn-burning. The sections of pipe lock together to form an air tight seal, however, in some cases a perfect seal is not achieved. For this reason and the fact that the PC45 operates with a positive vent pressure we recommend that any interior joints also be sealed with silicone.

### **Outside Air**

Outside air is optional except in mobile homes and where building codes require. The benefit of outside air is mainly noticed in small very tight houses.

To install outside air use 3" flex pipe. There is a break-away hole on the rear panel which must be removed before connecting the flex pipe. The pipe should be run outside and terminate 3 feet or more to the side or below the vent pipe outlet. Never terminate the outside air above the vent pipe outlet. The maximum length run of this pipe is 15 feet. If a longer run is needed the size must be increased to 3". Termination Cap part number 1-10-09542 should be used to keep birds, rodents etc. out of pipe.

### HRV

When installing in a house with a Heat Reclaiming Ventilation System (HRV) be sure the system is balanced and is not creating a negative pressure in the house.

### **Avoiding Smoke and Odors**

### **Negative Pressure and Electrical Power Failure:**

To reduce the probability of back-drafting or burn back in the appliance during power failure conditions, the appliance must be able to draft naturally, without operation of the combustion blower. Negative pressure in the house may resist this natural draft if not accounted for during the pellet stove installation.

Heat rises in the house, and leaks out at upper levels. This air must be replaced with cold air from outdoors, which flows into lower levels of the house. Vents and chimneys into basements and lower levels of the house can become the conduit for air supply, and reverse under these conditions.

# Hearth & Home Technologies recommends the use of outside air in all installations, especially lower level and main floor locations.

Per national building codes, consideration must be given to combustion air supply to all combustion appliances. Failure to supply adequate combustion air for all appliance demands may lead to backdrafting of this and other appliances.

When the appliance is side-wall vented;

The air intake is best located on the same exterior wall as the exhaust vent outlet, and located lower on the wall than the exhaust vent outlet.

When the appliance is roof vented;

The air intake is best located on the exterior wall oriented toward the prevailing wind direction, during the heating season.

The outside air connection will supply all of the demands of the appliance. However, consideration must be given to the total house demand. House demand may consume the air needed for the stove. It may be necessary to add additional ventilation to the space in which the appliance is located. Consult with your local HVAC professional to determine the ventilation demands for your house.

### **Venting Configurations**

To reduce the possibility of reverse drafting during a power failure, Hearth & Home Technologies strongly recommends:

- Installing the vent pipe with a minimum vertical rise of five feet, preferably terminating above the roof line.
- Installing outside air with the intake located below the exhaust termination.

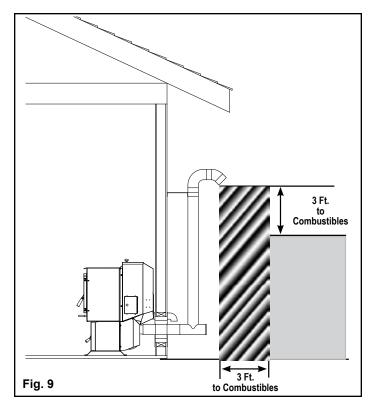
To prevent soot damage to exterior walls of the house, and to prevent re-entry of smoke, soot, or ash into the house:

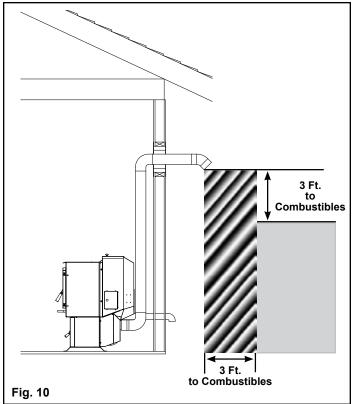
- Maintain specified clearances to windows, doors, and other air inlets, including air conditioners.
- Vents should not be placed below ventilated soffits. Whenever possible, run the venting above the roof line.
- Avoid terminating the vent in an alcove location.
- Vents should not terminate under overhangs, decks or onto covered porches.
- Maintain a minimum clearance of 12" from the vent termination to the exterior wall. If you see deposits developing on the wall, you may need to extend this distance to accommodate your installation conditions.

#### **Optional Battery Back-Up**

Hearth & Home Technologies supplies an optional battery back up system to operate the appliance during a loss of electrical power. Whether you experience frequent power failures or not, this back up system is recommended.

Hearth & Home Technologies assumes no responsibility for, nor does the warranty extend to, smoke damage caused by reverse drafting of appliances during a power failure condition.





### #1 Preferred method

This method provides excellent venting for normal operation and allows the stove to be installed closest to the wall. Two inches from the wall is safe; however, four inches allows better access to remove the rear panel. The vertical portion of the vent should be three to five feet high. This vertical section will help to provide natural draft in the event of a power failure.

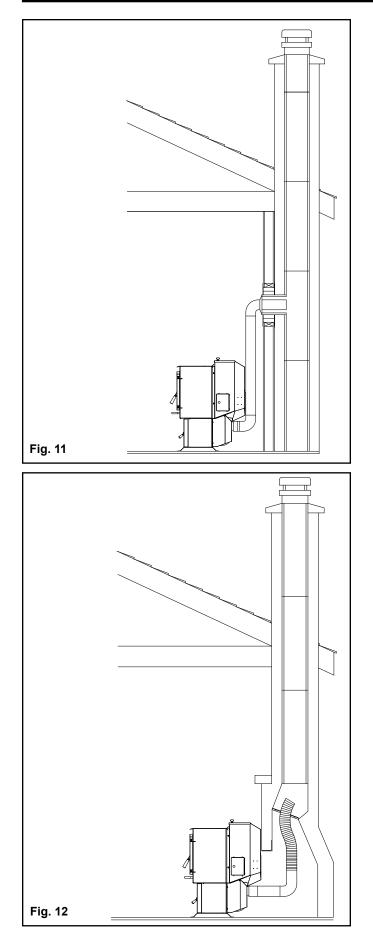
### #2 Preferred method

This method also provides excellent venting for normal operation but requires the stove to be installed farther from the wall. The vertical portion of the vent should be three to five feet high and at least three inches from a combustible wall. This vertical section will help to provide natural draft in the event of a power failure.

If the stove is installed below grade the vent termination should be at least 1 foot above grade.



Keep combustible materials (such as grass, leaves, etc.) at least 3 feet away from the flue outlet on the outside of the building.



#### #3 Installing into an existing chimney

This method provides excellent venting for normal operation. This method also provides natural draft in the event of a power failure. If the chimney condition is questionable you may want to install a liner as in method #6. Check with your local regulations, some municipalities require a complete liner.

Chimney must be of a type suitable for solid fuel burning.

Chimney and connector must be maintained in good condition and kept clean.

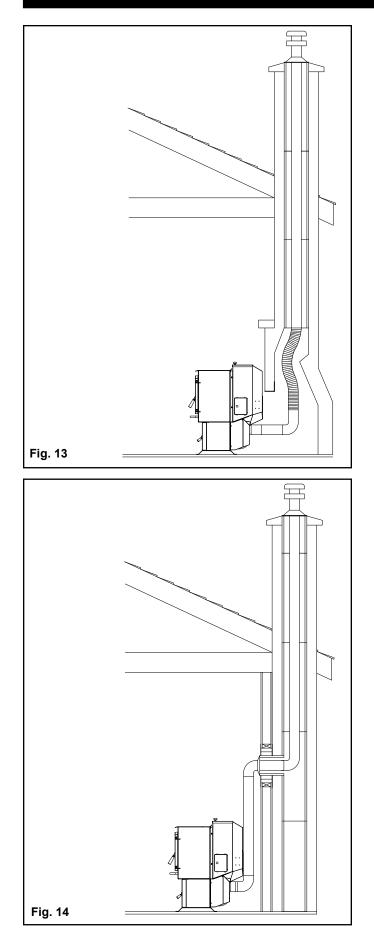
#### #4 Installing into an existing fireplace chimney

This method provides excellent venting for normal operation. This method also provides natural draft in the event of a power failure.

The damper area must be sealed with a steel plate. Kaowool, mineral wool or an equivalent non-combustible insulation is recommended to be installed on top of the sealing plate to reduce the possibility of condensation. The connector pipe should extend through the smoke chamber to the base or into the first flue tile. A cap should be installed on the chimney to keep out rain. If the chimney condition is questionable you may want to install a liner all the way to the top as in method #5. Check with your local regulations, some municipalities require a complete liner.

Chimney must be of a type suitable for solid fuel burning.

Chimney and connector must be maintained in good condition and kept clean.



#### #5 Installing into an existing fireplace chimney

This method provides excellent venting for normal operation. This method also provides natural draft in the event of a power failure.

In some places in the US and Canada, it is required that the vent pipe extend all the way to the top of the chimney. Check with your local codes.

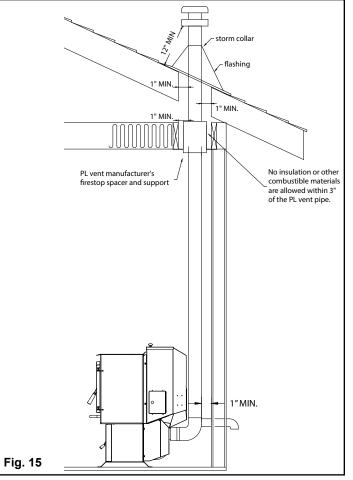
In this method a cap should also be installed on the chimney to keep out rain. Be sure to use approved pellet vent pipe fittings. Seal pipe joints with silicone in addition to the sealing system used by the manufacturer. Pipe size should be increased to 4" using this method.

#### #6 Installing into an existing chimney

This method provides excellent venting for normal operation. This method also provides natural draft in the event of a power failure.

In some places in the US and Canada, it is required that the vent pipe extend all the way to the top of the chimney. Check with your local codes. The pipe or liner inside the chimney should be 4"diameter.

In this method a cap should also be installed on the chimney to keep out rain.

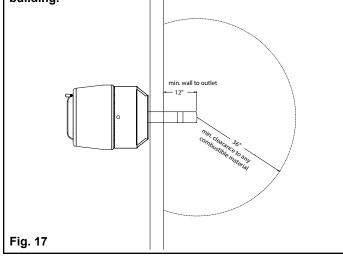


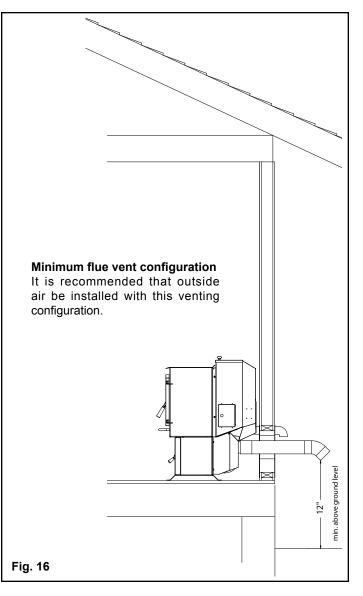
### #7 Installing through the ceiling vent

Through the ceiling vent, follow PL vent manufacturers recommendations when using wall and ceiling pass through.

### CAUTION

Keep combustible materials (such as grass, leaves, etc.) at least 3 feet away from the flue outlet on the outside of the building.





DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS UNIT.

DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.

INSTALL VENT AT CLEARANCES SPECIFIED BY THE MANUFACTURER



STOVE IS HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING, AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.

# **Grain Cap Installation**

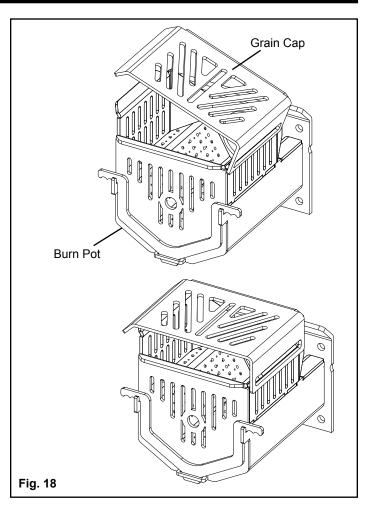
### Grain Cap

The grain cap is designed to enhance the burn quality of the fuel being burned (i.e. field corn, wheat, barley, rye, oats, etc.) Its purpose is to reflect more heat into the burn pot. This promotes a more thorough burning of the fuel and less ash. Depending on the quality of the fuel being burned, the effectiveness of the grain cap may vary.

The grain cap will need to be removed for cleaning. This part is classified as a consumable item and is excluded from the product warranty.

### Installation:

- 1. Hook the slot on the grain cap over the lip on the side rail of the burnpot, as shown.
- 2. Allow the grain cap to rest onto the burnpot sides.



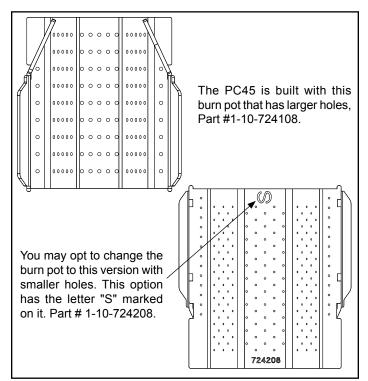
### **Burn Pot with Smaller Holes**

The PC45 stove is built with a burn pot that has .125 (1/8") combustion air holes. This grate has no identifying marks.

Included with your stove is an additional grate that has .0625 (1/16") combustion air holes. This grate can be identified with etchings on the bottom side. An 'S' is etched on one end and '724208' is etched at the other end.

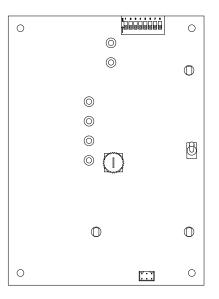
Depending on the type and the moisture content, some corn or grain will burn better with the smaller holes for combustion air, while others may work better with the larger holes.

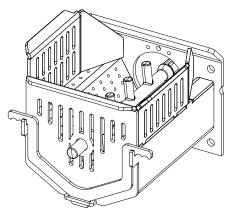
To change the burn pot grate, first remove the end gate retainer and the end gate. Pull the auger extension from the auger, and lift the grate out of the frame. Place the new grate, install the auger extension, replace the end gate and retainer clip. Refer to the diagrams on the next page for guidance.



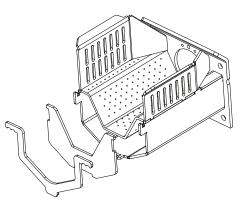
# **Pellet Fuel Optimization**

For optimal performance burning wood pellets, the pellet kit #1-00-06801 is now included. This kit allows you to convert the PC45 into a fully automatic pellet stove with 50,000 BTU capacity, fast ignition and clean viewing glass. Since there may be changes needed for the circuit board programing, it is recommended that this installation be completed by a trained service technician. Be sure the power cord is unplugged prior to adjusting circuit board switches. The pellet kit contains the instructions for the conversion, a new burn pot end gate, and a new combustion blower inlet ring.

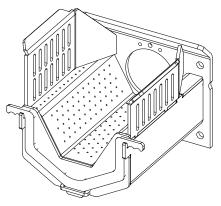




This figure shows the corn burn pot as installed from the factory.

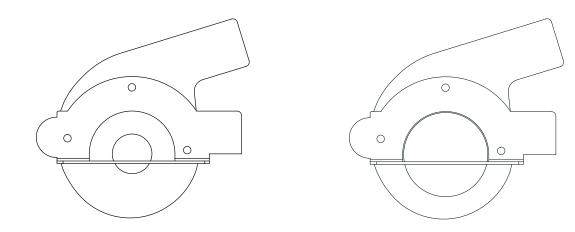


This figure shows the new end gate which gets installed without the stirring rod.

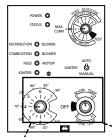


This figure shows the pellet burn pot after installing the new end gate.

The combustion blower inlet ring on the left is the one originally installed in the stove. Note the larger opening in the ring on the right. This allows the PC45 to produce more heat when burning pellets. The larger ring does the opposite when burning corn. If you want to switch back to corn or grain, exchange the inlet ring back to the smaller opening.



# **Automatic Operation**



The PC45 corn/pellet stove is more than just automatic ignition, it is also automatic temperature control. The automatic system will allow the fire size to be adjusted to match the heating needs and even put the fire out if necessary. If heat is needed after the fire is out, the PC 45 will automatically re-ignite and adjust the fire size to match the heating need. The totally automatic room sensor mode is recommended because of its efficiency. The unit can be switched between "AUTO" and "MANUAL" at any time during operation.

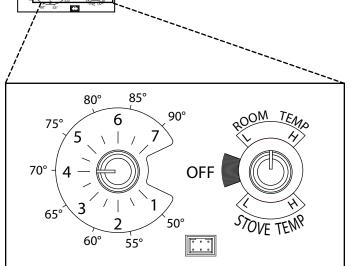
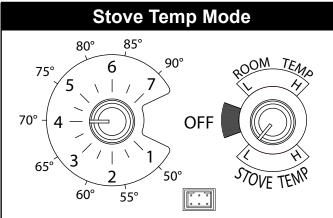


Fig. 19: Room Temp Mode: This setting will produce a room temperature of 70 degrees with the distribution blower at medium speed.



This setting will produce medium heat with the distribution blower on "low".

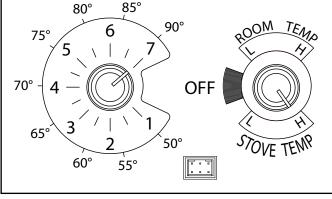


Fig. 20: This setting will produce continuous maximum heat output with the distribution blower at full speed.

### Igniter Switch to "AUTO" / Room Temp Mode

In "Room Temp Mode" heat output is controlled automatically by the Room Sensing Probe. When the Room Sensing Probe calls for heat, the stove will increase output. When the Room Sensing Probe is getting close to the set temperature, the stove will begin to level off output and keep the fire burning at just the right temperature to maintain that setting.

High output is determined by the feed rate setting. This setting, generally on #2 (corn) or #4 (pellet), can be increased if higher burn rates are necessary.

When burning corn the feed rate setting can be adjusted anywhere within the yellow range with a #3 setting being the maximum setting, #1 the lowest setting. This setting will vary depending on the quality of corn used.

When burning pellets the feed rate setting can be adjusted within the full range between #1 on the low side to #6 on the high side.

Overfeeding is not a safety concern, but the fire may be pushed off the burnpot and extinguish in the ash pan.

In "Room Temp Mode" a constant fuel consumption rate is sacrificed for exact room temperature. Therefore, as it gets colder more fuel will be burned automatically.

The distribution blower speed will vary according to the position of the mode selector pointer, and fire size.

#### Igniter Switch to "AUTO" / Stove Temp Mode

This allows for automatic ignition upon start-up only. The unit can then be set at any desired setting. The heat output and fuel consumption will remain constant regardless of room temperature.

The unit's low burn or maintenance setting is as low as it will go. It will not go out unless it runs out of fuel or is turned off.

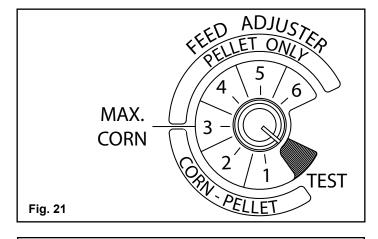
#### **Shut-Down Procedure**

To kill the fire or stop burning the stove, turn the Mode Selector to "OFF". This will cause the fire to diminish and burn out. When the fire burns out and the stove cools down everything will stop. **NOTE: The combustion blower motor will be the last component to stop.** This insures that all fuel in the burnpot and ashes located in the ash pan are completely cold before shut down of the combustion motor.

If you pull the plug to shut down the stove, all motors will stop. This may cause incomplete combustion and smoke in the firebox. If the load door is opened the smoke may escape.

The best way to shut down the stove is to simply let it run out of fuel, then the stove will shut down automatically.

# **Automatic Start Up**



## 

DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.

DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPTHA, OR ENGINE OIL.

HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING, AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.

KEEP FIREBOX AND ASH REMOVAL DOORS CLOSED DURING OPERATION. MAINTAIN SEALS IN GOOD CONDITION.

### Starting the Fire

### Igniter Switch to "AUTO" (up position)

Make sure the unit is plugged into a 120 VAC, 60 Hz electrical source. The power light should be the only light lit. Anytime there is an interruption in power at the receptacle, the combustion blower will run for 1 minute after the power is restored. The control uses this time to determine exhaust temperature and if there is a need to remain on.

### BE SURE THERE IS NO FUEL OR OTHER COMBUSTIBLES IN THE ASH PAN PRIOR TO LIGHTING.

- 1. Turn the Mode Selector to "OFF"
- 2. Fill the hopper with corn or pellets.
- 3. Clean the burn pot and housing, if necessary.
- If starting after an empty hopper, turn the feed adjuster to "TEST" until the fuel is visible in the auger tube opening. Fig 21, This also allows you to check the motors for operation.

**NOTE:** The auger motor will not operate with the view door or ash door open.

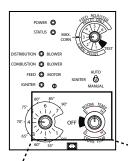
**NOTE:** The initial start-up on a new stove may require the corn to be purged into the burnpot area before continuing to step 5.

- 5. Turn the feed adjuster to #2 (corn) or #4 (pellet)
- 6. Flip the igniter switch up into the "AUTO" position.
- 7. Turn the temperature dial to the desired setting.
- 8. Turn the mode selector dial to Room Temperature or Stove Temperature.
- 9. Fill the hopper with corn or pellets and remove the ashes as required.

WARNING

NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR "FRESHEN UP " A FIRE IN THIS HEATER. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER WHILE IN USE.

# **Manual Operation**



The PC45 Corn/Pellet Stove is capable of manual operation. This also allows the operator to manually control operation during an emergency (i.e. igniter failure, when using some types of auxiliary power.)

The unit can be switched between "AUTO" and "MANUAL" at any time during operation.

NOTE: When starting the unit in the "AUTO" mode and switching to "MANUAL", wait until the igniter light (located on the control board) comes on to confirm the ignition cycle has begun.

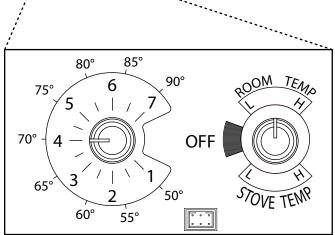


Fig. 22: Room Temperature Mode: This setting will produce a room temperature of 70 degrees with the distribution blower at medium speed.

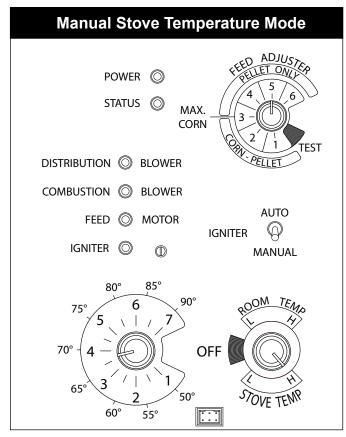


Fig. 23: This setting will produce a large viewing fire without a distribution blower operating.

### Igniter Switch to "MANUAL" / Room Temp Mode

The fire will have to be lit with starting gel and a match, or started automatically, see "Automatic Operation". Turn to "Manual" position when the ignition cycle has started.

The difference between "AUTO" Room Temperature Mode and "Manual" Room Temperature Mode is that the fire will not go out as the room temperature goes above the control board setting. The unit can only go to low burn and will remain there until it runs out of fuel or until more heat is needed and the feed rate increases. Feed rate adjustments and dial settings are the same as "AUTO" settings.

### Igniter Switch to "MANUAL" / Stove Temp Mode

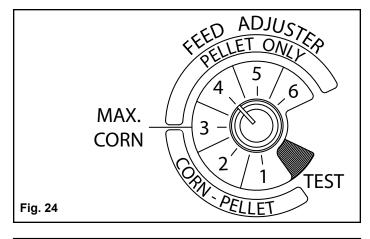
The advantage of this mode is to allow the operator to have a large viewing fire without blowing extra heat into the room.

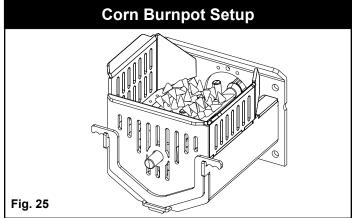
During operation, with the temperature dial set at #4 or less, the distribution fan will not operate. Therefore, there can be a higher burn rate (a larger viewing fire) without an excess of hot air blowing into the room.

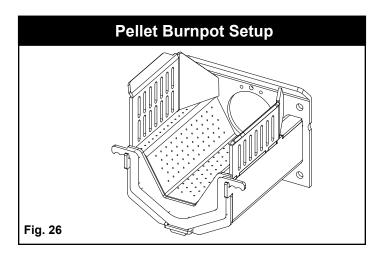
An example of when to use the Manual Stove Temperature Mode is if you want to watch a large fire and the room is already up to temperature. The Stove Temperature Mode allows you to have a larger fire and a lower sound level, without the distribution blower.

NOTE: During the use of this mode, if you keep increasing the temperature dial setting to increase the fire size, the distribution blower will automatically come on when the ESP Temperature reaches 350° F, or 81% output.

# **Manual Start Up**









NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR "FRESHEN UP " A FIRE IN THIS HEATER. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER WHILE IN USE.

### Starting the Fire / Igniter Switch to "MANUAL"

Make sure the unit is plugged into a 120 VAC, 60 Hz electrical source. The power light should be the only light lit. Anytime there is interruption in power at the receptacle, the combustion blower will run for 1 minute after the power is regained.

### Burning Corn

- 1. Turn the Feed Adjuster to the desired feed rate, approximately #2.
- 2. Turn the Mode Selector to "OFF" and then to the desired mode. This will reset the control and start the combustion motor.
- 3. Turn the Temperature Dial to the desired setting.
- 4. Clean the burnpot and housing, if necessary.
- 5. Fill the burnpot with corn up to the auger shaft. Then place pellets on top of the corn as high as the shelf area. See corn burnpot shown on left.
- 6. Add starting gel on top of the pellets, stir gel into the pellets and corn for faster lighting.
- 7. Light the starting gel with a match and close the door. Operation will begin when the fire reaches the proper temperature.
- 8. Fill the hopper with corn and remove the ashes as required.

### **Burning Pellets**

- 1. Turn the Feed Adjuster to the desired feed rate, approximately #4. Fig. 24
- 2. Turn the Mode Selector to "OFF" and then to the desired mode. This will reset the control and start the combustion motor.
- 3. Turn the Temperature Dial to the desired setting.
- 4. Clean the burnpot and housing, if necessary.
- 5. Fill the burnpot with pellets so that the auger tube opening is covered and slopes away from the auger tube opening. See pellet burnpot shown on left. If using corn burnpot setup, fill to same level as corn above.
- 6. Add the starting gel on top of the pellets. Stir the gel into the pellets for fast lighting.
- 7. Light the starting gel with a match and close the door. Operation will begin when the fire reaches the proper temperature.
- 8. Fill the hopper with pellets and remove the ashes as required.

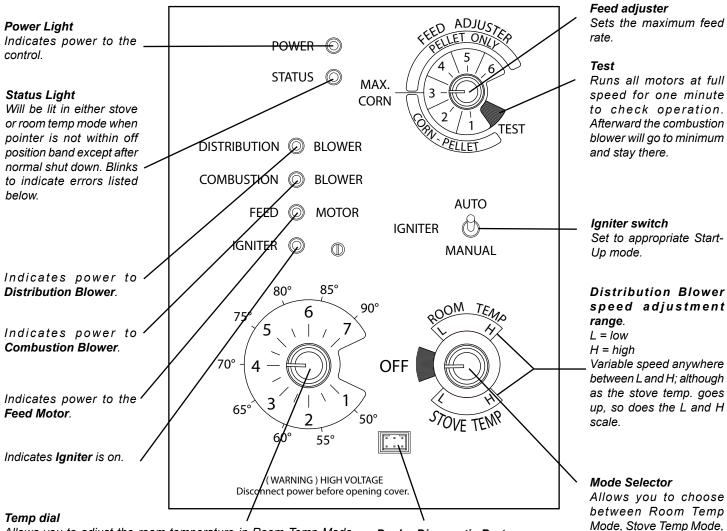
### **Shut-Down Procedure**

To kill the fire or stop burning the stove, turn the Mode Selector to "OFF". This will cause the fire to diminish and burn out. When the fire burns out and the stove cools down everything will stop. **NOTE: The combustion blower motor will be the last component to stop.** This insures that all fuel in the burnpot and ashes located in the ash pan are completely cold before shut down of the combustion motor.

If you pull the plug to shut down the stove, all motors will stop. This may cause incomplete combustion and smoke in the firebox. If the load door is opened the smoke may escape.

The best way to shut down the stove is simply let it run out of fuel, then the stove will shut down automatically.

# **ESP** Control



Allows you to adjust the room temperature in Room Temp Mode using the outer scale marked in degrees Fahrenheit. It also allows you to adjust the stove temperature while in Stove Temp Mode using the inner scale marked from 1 to 7.

#### Status light error message

3 Blinks: Indicates that the ESP (Exhaust Sensing Probe) has gone out of range too many times in a specified time. Perform a manual reset\*, If the code returns immediately, the ESP may be damaged or disconnected. Otherwise, the exhaust system may need cleaned ...

4 Blinks: Can occur only in Room Temp Mode and indicates Room Sensing Probe failed or not installed. If a Room Sensing Probe is then installed, the status light will automatically reset.

NOTE: Unit will not start in "AUTO" with this status error.

5 Blinks (In Igniter Auto. Mode Only): Indicates that the unit has failed to light within the 45 minute start cycle. To reset -Turn Mode Selector to "OFF", then turn to either mode again.

**Dealer Diagnostic Port** 

For dealer maintenance use only. Requires special DDM monitor supplied to Harman Dealers exclusively.

6 Blinks : Indicates that the control has calculated poor or incomplete combustion occurring for more than 25 minutes. See Troubleshooting section for more details.

A six blink status may be set if the stove is allowed to run out of pellets. To reset, turn mode selector to "OFF" then back on to the desired mode. If the unit was not out of pellets, see Troubleshooting section for more details.

\* Manual reset - Disconnect the power cord for a few seconds and reconnect. If error still occurs call your Harman Dealer.

or OFF. Also allows you

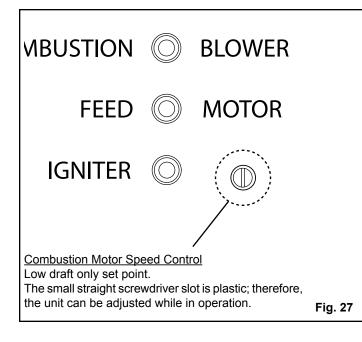
to vary the distribution

blower speed by turning

the knob to the high or low

side of each mode.

# Low Draft Voltage Adjustment



### Low Draft Voltage Adjustment

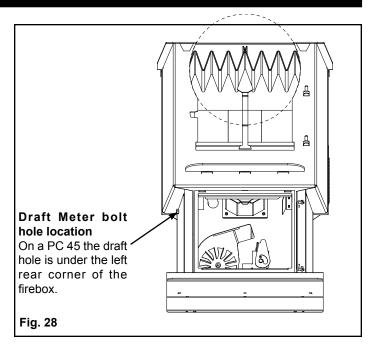
These units are pre-tested at the factory with exactly 120 VAC, 60 Hz. They are checked and adjusted for firebox tightness, gasket leakage, motor operation and ignitor operation. The PC 45 is then factory set at a mid-point adjustment and in most cases will not need any adjustments. **NOTE: The factory low draft setting may not be correct for the unit's permanent installation conditions.** 

The control board on the PC45 is equipped with a low draft adjustment port. Located on the control face just to the right of the igniter light. This voltage adjustment is provided to allow the unit to be adjusted for the household voltage where the unit is going to be in permanent operation. NOTE: The line voltage varies from area to area and often home to home.

The low draft voltage should be adjusted to achieve the most efficient burn on low burn or "maintenance". This voltage adjustment allows the installer to change the low voltage set point approximately 10 volts. This adjustment should be done by the installer during set up because a draft meter reading is **required** to insure proper set up.

If the unit is not adjusted properly, it does not cause a safety concern. If the unit is adjusted too high, only efficiency is lost. If the unit is adjusted too low, the low draft pressure switch will not allow the feeder motor or the igniter to operate.

A simple draft test should be performed after completing the flue pipe installation. To record the results for future reference:



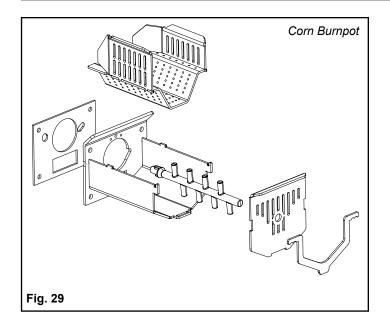
### **Draft Test Instructions**

- 1. Attach a draft meter capable of reading up to a minimum of 0.5 inches of water column (W.C.).
- 2. Plug the unit's power cord into a 120 VAC, 60 Hz grounded outlet.
- 3. Close the hopper lid, front view door, and the ash pan access door. Neither fuel or a fire are required for this test.
- 4. With the mode selector in the "OFF" position, turn the feed adjuster to "TEST".
- 5. Record the high draft\_\_\_\_\_in W.C. (Normal is -.35 to -.55) The control will be on the High Draft for a minute.
- After 1 minute is up, the combustion motor will go down to low draft and the distribution blower will go on high. Allow approximately 15 seconds to pass for the combustion motor to slow before checking the low draft.
- If the low draft is between -.25 and -.35, record the reading in W.C. If the reading is higher, slowly turn the set screw counter-clockwise until the draft lowers. If the reading is lower, <u>very slowly</u> turn the set screw clockwise until the draft increases.

NOTE: In some cases, the draft may not go as low as -.25 to -.35 even with the set screw completely counterclockwise. This is not a problem. Vertical runs of venting may add natural draft.

If the draft reading does not drop at all when the test mode switches from high to low, be sure to check for restrictions in the appliance air intake.

### Maintenance



Heat Exchanger Fins Fins Fins Scraper Flue Outlet Blower Wheel Fig 30

#### Creosote:

The chimney or venting system must be inspected regularly during the heating season to determine if a creosote build-up has occurred. If a significant layer of creosote has accumulated (3mm or more), it should be removed to reduce the risk of a chimney fire.

### **Removing Ashes:**

The frequency of which you will need to empty the ash pan will vary depending on the conditions that the stove has been operating in. For example: A stove burning corn on high continuously will probably need the ashes removed every 1 to 2 days, whereas a stove burning corn on low or cycling off periodically may be able to go 3 to 8 days or longer. With pellets, after about 1 ton.

It is recommended that the stove is cold and shut down when removing the ash pan.

- 1. Pull up on the latch handle to swing the ash pan access door out and to the right.
- 2. Use the ash pan handle to carry and dispose of ashes.
- 3. Slide the ash pan back into the stove.
- 4. Close and latch the ash pan access door.

Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.

### **Cleaning:**

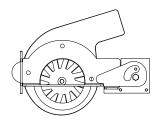
If you have been burning corn, the stove will need to be cleaned approximately once a month. The amount of corn burned and the frequency of these cleanings will vary depending on the quality of the corn used.

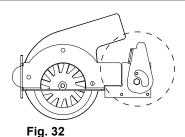
If you have been burning pellets, the stove will need to be cleaned approximately every 2 to 3 months. The amount of pellets burned and the frequency of these cleanings will vary depending on the quality of the pellets used.

- 1. Shut down the stove and **disconnect the power cord** to insure that all motors are stopped.
- 2. Clean the heat exchanger with the scraper as shown in Fig. 30.
- 3. Brush or scrape the inside walls of the stove to remove fly ash.
- 4. Remove the burn pot for cleaning by:
- · Lift up and remove the front plate lock & front plate.
- Remove the auger extension (if installed).
- · Remove the burnpot grate.
- · Clean all fines and debris.
- · Reinstall in reverse order.

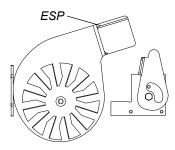
NOTE: See burnpot maintenance section for a more detailed description on burnpot maintenance and cleaning.

### Maintenance





**Fig. 31** Latch "closed "with blower cover in place.



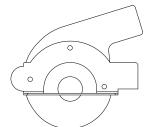
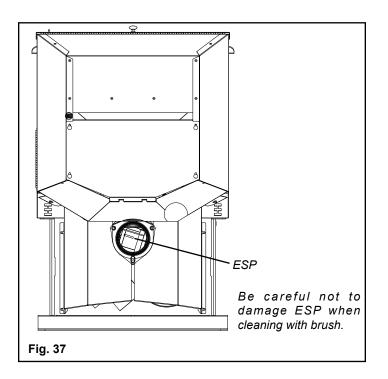


Fig. 33 Exposed blower wheel and flue opening, NOTE: ESP is visible.

Fig. 34 Blower cover removed.



(Cleaning continued)

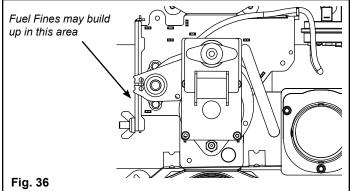
- 5. Remove the ash pan.
- 6. Remove the combustion blower cover by turning the blower cover latch vertical as shown in Fig. 32. Slide the cover out of the slot on the left. This will expose the combustion blower wheel and flue outlet. Fig. 33.
- 7. Clean the blower wheel with a brush and a vacuum cleaner.

- 8. Use a brush to clean the flue, being careful not to damage the ESP. The flue goes straight through into the vent pipe therefore, the vent pipe can also be cleaned to some extent through the flue outlet.
- 9. Reinstall the blower cover and relatch.
- 10. Slide the ash pan into the stove and close and latch the door.

NOTE: ASHES MAY BE FINER THAN YOUR VACUUM FILTER. USE CAUTION WHEN VACUUMING AND KEEP FILTER CLEAN.

### Cleaning of Feeder Fines Area (Fig. 36)

- 1. Remove the rear shields to access the feeder cover.
- 2. Remove the wing nut on the feeder cover and slide the cover off the threaded rod.
- 3. Remove all fines with a vacuum.
- 4. Replace the feeder cover and rear shields.



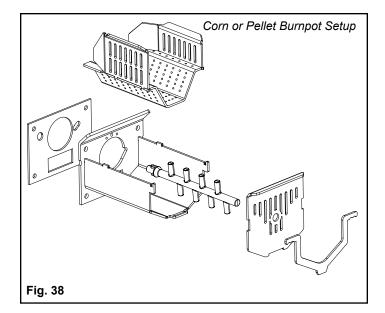
### Soot and Fly Ash

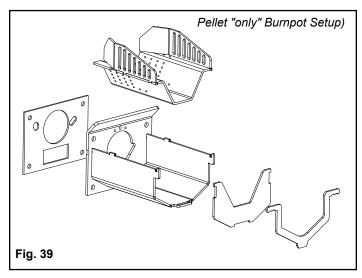
Formation and Need For Removal- The products of combustion will contain small particles of fly ash. The fly ash will collect in the exhaust venting system and restrict the flow of the flue gases. Incomplete combustion, such as occurs during startup, shutdown, or incorrect operation of the room heater, will lead to some soot formation which will collect in the exhaust venting system. The exhaust venting system should be inspected after the first month of burning to determine the frequency of cleaning that will be required, and at least yearly thereafter. NOTE: The frequency could vary from once a month to once a season depending on the quality of the fuel being used.

If You Experience A Chimney Fire; Do NOT disconnect power to the appliance. Do NOT put water on the fire.

Turn the selector dial to the OFF position and allow the unit to shut down on its' own. Have the appliance and venting system professionally inspected and cleaned prior to using.

# **Burn Pot Maintenance**





### **Burn Pot Cleaning and Maintenance**

- 1. Be sure the stove power is turned off.
- 2. Lift up and remove the front plate lock and front plate. Set aside the front plate.
- 3. Remove the auger extension by pulling toward you, then set aside (corn burnpot only)
- 4. Remove burnpot grate and set aside.
- 5. Clean all fines and debris that has accumulated.
- 6. Install the "cleaned" burnpot grate making sure the 2 holes line up with the 2 tabs in the burnpot housing.
- 7. Now install the spare "clean" auger extension into the auger shaft. Make sure there isn't any corn or debris in the shaft opening. This will prevent the auger extension from being fully inserted into the shaft.
- 8. Align the auger extension through the hole in the "clean" front plate and place front plate against the burnpot grate and housing.
- 9. Install the front plate lock.

NOTE: After cleaning of these parts, inspect for excessive wear and replace as needed.

### **Cleaning of Burnpot Parts**

Cleaning can be performed in 2 basic ways:

- 1. Because the corn slag buildup will absorb moisture from the air when cool, the parts can just be left exposed for several days and the slag buildup will crumble off of the parts.
- To accelerate this process, the parts can be soaked in water for approximately 30 minutes (depending on the amount of buildup, they could be cleaned in less time).

**NOTE:** Cleaning of these parts is not necessary until you see that there is a noticeable decrease in the quality of the flame in the burnpot. Example: Unburned fuel being pushed over the burnpot.

### **Safety Features**

The low draft sensor which is a vacuum differential switch, monitors the negative pressure (draft) in the firebox through a port on the rear of the feeder. Poor draft can be caused by blockage in the exhaust, excessive build-up on the combustion blower fan blades, a failed combustion blower, or a door or other opening to the firebox not sealed properly.

The circuit board is monitoring the position of this switch. If this switch were to open, power to the igniter and the feed motor are interrupted. The indicator lights for these components may be illuminated even though power is not flowing to the components. Be sure all doors, including the hopper lid, are securely closed when operating the appliance.

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Adhesive gasket

Retainers and screws

Glass

Door Frame

### **Glass Care and Replacement**

The glass in your Harman stove is a special 5mm mirrored ceramic glass.

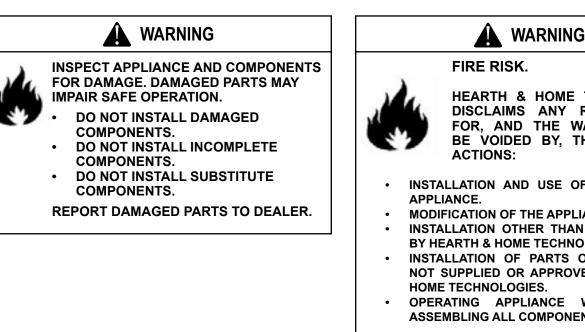
- Do not abuse the glass by striking or slamming the door.
- Never burn the appliance if the door glass is cracked or broken.
- Replace only with Harman supplied glass. Do NOT Use Substitutes.

Soot and/or fly-ash may accumulate on the viewing glass, and will occasionally need to be cleaned. Clean the glass with a soft cloth and mild glass cleaner. Do not clean the glass when hot, and avoid the use of abrasive cleaners.

Glass replacement

Carefully remove all remaining glass and gasket materials prior to replacing the glass.

Lay the door face down on a flat surface. Remove the glass retainers and screws. Apply the gasket material to the face of the new glass. Lay the glass into the door, making sure that the glass is contained within the channels and raised areas of the door itself. Lay the glass retainers into position and install the screws. Tighten each screw evenly to avoid making any stress points.



**HEARTH & HOME TECHNOLOGIES** DISCLAIMS ANY RESPONSIBILITY FOR, AND THE WARRANTY WILL BE VOIDED BY, THE FOLLOWING

- INSTALLATION AND USE OF ANY DAMAGED
- **MODIFICATION OF THE APPLIANCE.**
- INSTALLATION OTHER THAN AS INSTRUCTED **BY HEARTH & HOME TECHNOLOGIES.**
- INSTALLATION OF PARTS OR COMPONENTS NOT SUPPLIED OR APPROVED BY HEARTH & HOME TECHNOLOGIES.
- OPERATING APPLIANCE WITHOUT FULLY ASSEMBLING ALL COMPONENTS.

OR ANY SUCH ACTION THAT MAY CAUSE A FIRE HAZARD.

### FEEDER DOES NOT FEED

- 1. No fuel in hopper.
- Firebox draft may be too low for low draft pressure switch in feeder circuit to operate. Check for closed doors, loose or missing gasket on doors or hopper lid, faulty pressure switch.
- 3. Feed motor will not run until ESP senses 200° F. Maybe you did not put enough fuel in the burn pot before lighting the fire.
- 4. Something is restricting flow in the hopper or causing the slide plate to stick.
- 5. Feed motor has failed.

### PARTIALLY BURNED FUEL

- 1. Feed rate too high.
- 2. Draft too low.
- 3. Burn pot may need to be cleaned.
- 4. Combination of all the above.
- 5. #6 status blink: A 6 blink control board status indication is caused by poor or incomplete combustion. The circuit board has the ability to track the combustion through feed settings and ESP temperatures. When the control board has calculated poor or incomplete combustion it will shut down the unit as a safety feature. (Poor or incomplete combustion is a contributor of creosote which may cause a chimney fire)

### A 6 blink status may be caused by several things:

- 1. Blocked or partially blocked flue.
- 2. Blocked or partially blocked inlet air.
  - a. backdraft damper on the inlet pipe may be stuck closed.
  - b. If outside air is installed the Termination Cap may be blocked.
- 3. The air chamber under the burnpot may be filled with fines and small bits of ash.
- 4. The holes in the burnpot may be getting filled with ash or carbon buildup.
- 5. Combustion blower fan blades may need cleaned.
- 6. There is no fuel in the hopper.

### COMBUSTION BLOWER RUNS AFTER SHUT DOWN

This is a normal function. The combustion blower will run for 5 hours after the stove is completely cool.

### SMOKE SMELL

Seal the vent pipe joints and connection to stove with silicone.

### FIRE HAS GONE OUT

- 1. No fuel in hopper.
- 2. Draft setting is too low.
- 3. Something is restricting fuel flow.
- 4. Feed motor or draft motor has failed.
- 5. Power failure or blown fuse.

### SMOKE IS VISIBLE COMING OUT OF VENT

- 1. Air-fuel ratio is too rich.
  - a. Feed rate too high.
- b. Draft too low caused by a gasket leak.
- 2. Unit is in an ignition cycle.

### LOW HEAT OUTPUT

- 1. Feed rate too low
- 2. Temperature setting too low (Stove Temp Mode)
- 3. Draft too low because of gasket leak.
- 4. Poor quality or high moisture fuel.

### **Helpful Hints**

### **Cleaning Burn Pot**

Whenever your stove is not burning, take the opportunity to scrape the burn pot to remove carbon buildup. A vacuum cleaner is handy to remove the residue. Be sure the stove is cold if you use a vacuum.

Carbon buildup can be scraped loose with the fire burning using the special tool provided with your stove. Scrape the sides of the burnpot (corn grate), and the floor and sides (pellet grate). The carbon will be pushed out by the incoming fuel. Always wear gloves to do this.

### **Removing Ashes**

Turn the Temp Dial to number 1 approximately 30 minutes before removing ashes. This will result in a cooler stove and ash pan.

Maximum Feed Adjuster settings are not needed in most cases. Operating in the normal range (#2 corn) (#4 pellet) is recommended when maximum heat output is not required. The ESP prevents the stove from being over-fired.

Keep the stove free of dust and dirt.

### Fuel

The PC 45 can burn corn with moisture levels up to 16%, with 14.5% or less being ideal.

Pellet fuels are put into 3 categories in terms of ash content. Premium at 1% or less, Standard at 3% or less and all others at 3% or more.

The PC 45 is capable of burning all 3 categories of pellets due to a patented feeder and burn pot system.

It should be noted, however, that higher ash content will require more frequent ash removal and may provide less BTU's per pound. Normally, standard and high ash pellets cost less than premium pellets and can be cost effective when burned in the PC 45.

The moisture content of pellets must not exceed 8%. Higher moisture will rob BTU's and may not burn properly.

The PC45 is capable of burning grains other than corn, such as wheat, oats or barley. Grains vary widely from area to area, as will stove performance. When burning grains other than corn, it may be necessary to make changes to the settings on the circuit board for optimum performance. Contact your Harman Dealer for instructions.

# **Fuel Specification Details**

### **Fuel and Fuel Storage**

Pellet fuel quality can fluctuate from manufacturer to manufacturer, and even from bag to bag.

Hearth & Home Technologies recommends using only fuel that is certified by the Pellet Fuels Institute (PFI).

### Fuel Material

- Made from sawdust and/or other wood by-products
- Shelled field corn
- · Source material typically determines ash content

### Higher Ash Content Material

- Hardwoods with high mineral content
- Bark and leaves as source material
- "Standard" grade pellets, corn and other biomass

### Lower Ash Content Material

- Softwood; pine, fir, etc.
- Materials with lower mineral content
- "Premium" grade pellets

### Shelled field corn other grains

- Must be 15% moisture content or less
- Must be clean and free of debris
- Stalk parts, excessive fines and cob remnants may cause feed system jams or blockage

# CAUTION! Do not burn fuel that contains an additive; (such as soybean oil)

- May cause hopper fire
- Damage to product may result

Read the list of ingredients on the packaging. If you are buying field corn, the only ingredient listed should be field corn.

### WARNING! Risk of Chemical Poisoning!

Do NOT burn treated seed corn

- Chemical pesticides are harmful or fatal if swallowed
- · Burning treated seed corn will void the product warranty

### **Clinkers**

Minerals and other non-combustible materials, like sand, will turn into a hard glass-like substance when heated.

Trees from different areas will vary in mineral content. For this reason, some fuels will produce more clinkers than others.

### <u>Moisture</u>

Always burn dry fuel. Burning fuel with high moisture content takes energy to dry and tends to cool the appliance thus, robbing heat from your home. Damp pellet fuel could turn back into sawdust which does not flow properly through the feed system.

### <u>Size</u>

- Pellets are either 1/4 inch or 5/16 inch (6-8mm) in diameter
- Length should be no more than 1-1/2 inches (38mm)
- Pellet length can vary from lot to lot from the same manufacturer

### **Performance**

- Higher ash content requires more frequent maintenance.
- "Premium" grade pellets will produce the highest heat output.
- Burning pellets longer than 1-1/2 inches (38mm) can cause inconsistent feeding and/or ignition.

We recommend that you buy fuel in multi-ton lots whenever possible. However, we do recommend trying different brands prior to purchasing multi-ton lots, to ensure your satisfaction.

**CAUTION!** Tested and approved for use with wood pellets, shelled field corn, and grains such as wheat, barley, and oats ONLY. Burning of any other fuel will void your warranty.

When changing between fuels, the FEED ADJUSTER will likely need adjusted. When under maximum demand, ensure there is no unburned fuel being pushed into the ash pan.

### Storage

- Wood pellets should be left in their original sealed bag until ready to use, to prevent moisture.
- Shelled corn and grains should be stored in a tightly sealed container to prevent moisture and to deter pests
- Do not store fuel within the specified clearance areas, or in a location that will interfere with routine cleaning and maintenance procedures.

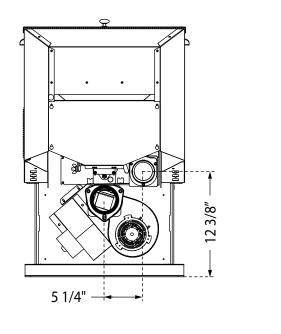


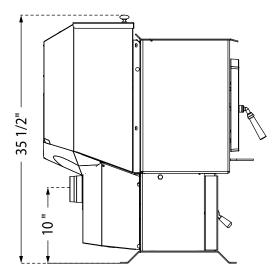
Tested and approved for use with wood pellets and biomass fuels ONLY. Burning of any other fuel will void your warranty.

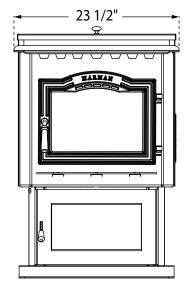
### NOTICE

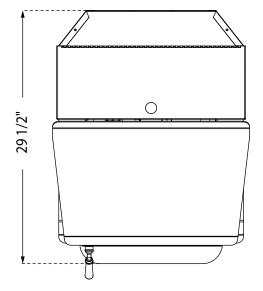
Hearth & Home Technologies is not responsible for stove performance or extra maintenance required as a result of using fuel with higher ash or mineral content.

# Specifications









Weight	249 lbs.
Blower	135 cfm
Feed Rate	0 to 5.0 lbs. per hr.
Hopper Capacity	80 lbs.
Fuel	Corn & Wood Pellets
Flue Size	3 inch
Outside Air Size	3 inch
Fuse Rating	6 amp

### **Optional Trim**

There are three different finishes to choose from, gold, brushed stainless, and bright nickel. Each trim kit includes a door frame, a drill bit for the load door holes, an ash door tile trim, and an ash fender trim. The ash door tile frame can be installed with or without the decorative tile. Fig. 41.

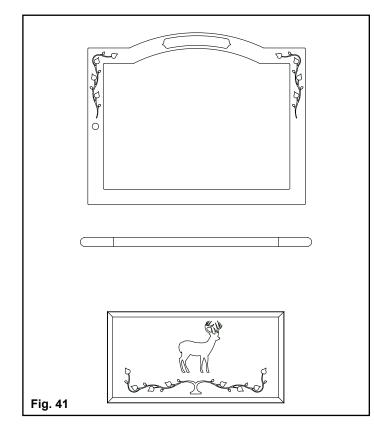
To install the door frame, lay the frame face down on a soft surface. Fasten door frame by inserting the 4 threaded posts on the frame through the door. The posts should line up with the 4 holes located at the corners of the door. Once the posts are through the door, fasten frame with 4 nuts and tighten until the frame is snug.

To install ash lip trim, simply slide the trim over the ash lip and into the groove on the trim.

The ash door frame includes a bent spring clip. Insert the spring clip into one end of the frame. Start the frame into the recessed area of the ash door with the clip end first. Push tension on the spring clip while inserting the other end of the frame into the recess.

### **Decorative Tile**

Decorative tile is available in four choices of slate or a brushed stainless deer cutout (shown below). The tile installs behind the trim on the ash door.

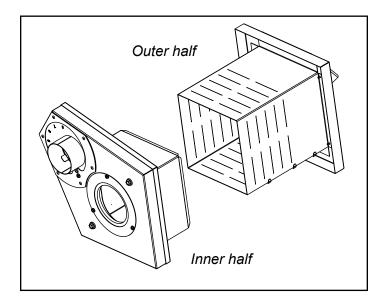


### **Cleaning Plated Trim**

Gold or nickel plated hardware should never be buffed or polished. Abrasive cleansers and metal polishes will remove the plating and therefore should never be used. If the plating needs to be cleaned, wait until the stove is completely cool, then use a sponge, soap and water to gently remove dirt and stains. Before relighting the stove, remove all soap residue and wipe dry.

### Direct Vent Wall Pass-through

The direct vent wall pass-through allows you to bring outside air in for combustion, and safely pass your pellet venting through the wall while only needing to make one hole. The pass through is adjustable for different wall thickness from  $4\frac{1}{2}$ " to  $10\frac{1}{6}$ " thick. Item # 1-00-677077 is compatible with 3" venting only.



### **Optional Hopper Screen (Corn Strainer)**

The hopper screen/corn strainer was designed to sift the corn as it is loaded into the hopper. This sifting will catch unwanted materials from being burned. The strainer also includes a removable funnel to aid in fuel handling.

### **Burnpot Grates**

The PC45 includes two burn grates. You'll notice that they each have different sized air holes in them. Use the grate that fits your fuel the best. In most cases, the smaller holes will be best with corn and the large holes will be best for pellets. Feel free to experiment with both grates.

## Options

### **Room Sensor Installation**

The room sensor is a small temperature sensor on the end of a 60" wire. This sensor is installed much like a standard wall thermostat. There is a remote room sensor port on the rear of the unit for easy external connection. Use standard 18-2 thermostat wire to extend the sensor to the desired location (50' maximum). The room sensor should be installed in the location where you want to control the temperature.

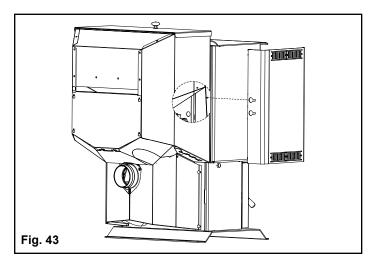
**NOTE:** Distances of more than 25 feet from the unit or in another room are not recommended. The room sensor is essential for the PC45's excellent efficiency.

**NOTE:** It is recommended that the room sensor be installed, even if only installed on the rear of the unit as a return air sensor.



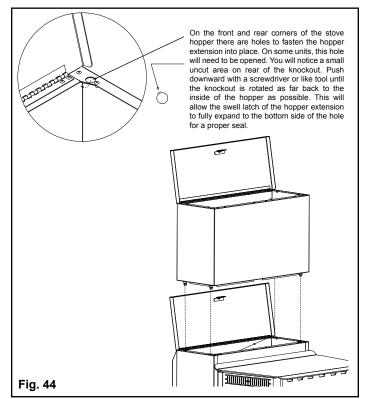
### Side Heat Shields

Side heat shields are available to reduce the clearance to combustible materials. See Fig. 43.



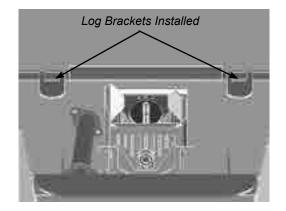
### **Hopper Extension**

The hopper extension allows you to put more fuel in the hopper which extends burn time on one load of fuel. The hopper extension adds 65 pounds to the existing hopper capacity. The hopper extension secures to the hopper with three latches. There may be some knockouts to remove prior to installation. Fig. 44.

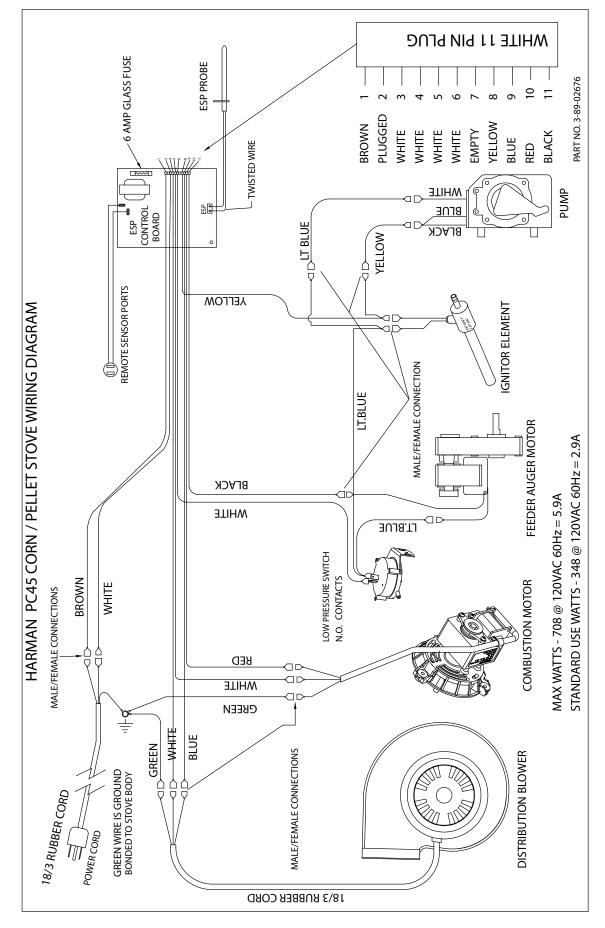


### Ceramic Log Set

There is a 3-piece log set available Item # 3-40-5647. Log bracket # 1-00-724122 is also needed for installation of the log set. In place of the firebricks, the log brackets attach to the brick channel. The logs stack from largest to smallest onto the brick channel and bracket set.



# Wiring Diagram



### 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 Y	'ear	х	х	х	х	х	x	х	All parts and material except as covered by Conditions, Exclusions, and Limitations listed	
2.14				Х	Х	х			Igniters, electronic components, and glass	
2 ye	ears	Х	Х	Х	Х	Х			Factory-installed blowers	
			Х						Molded refractory panels	
3 ye	ears			Х					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	
		All replacement parts beyond warranty period								

See conditions, exclusions, and limitations on next page.

### 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.
- Minor 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.



Pellet/Corn/Grain Stove 1-90-06800-1 (Black)

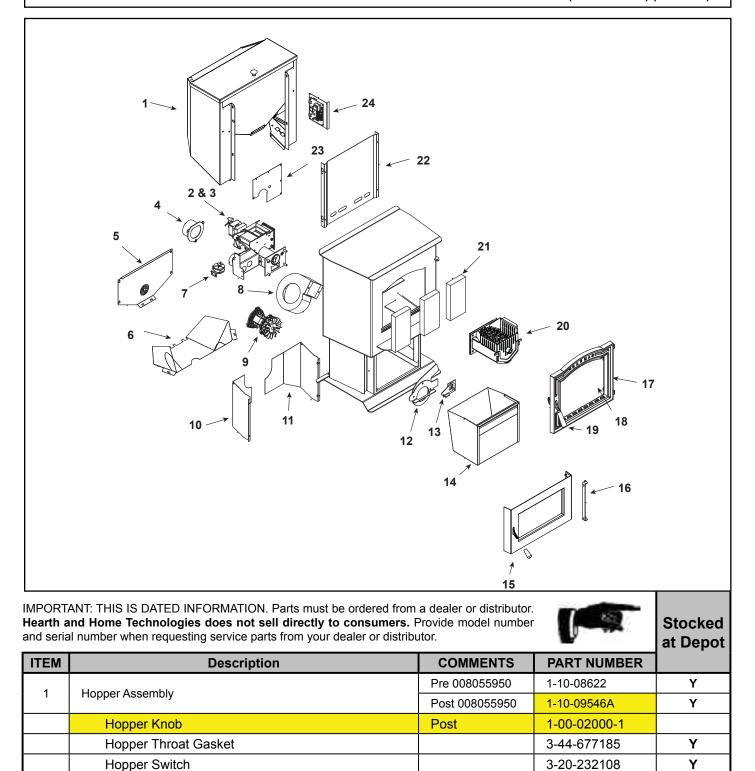
**Retired Units** 

**PC45** Pellet

Beginning Manufacturing Date: N/A Ending Manufacturing Date: Active

1-90-06800-2 (Charcoal) (June 2011) 1-90-06800-3 (Goldenfire) (June 2011) 1-90-06800-4 (Metallic Blue) (Jan 2010)

1-90-06800-5 (Honey Glo) (June 2009) 1-90-06800-10 (Mojave Red) Jan 2010) 1-90-06800-12 (Forest Green) (Jan 2010)



Additional service parts on following page.

Retrofit Hopper Switch Kit for Extension

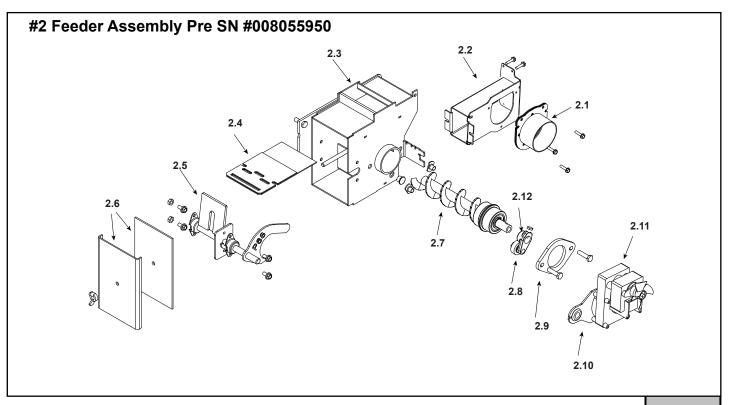
**Y** 1/14

1-00-06826



**PC45** Pellet

Beginning Manufacturing Date: N/A 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.

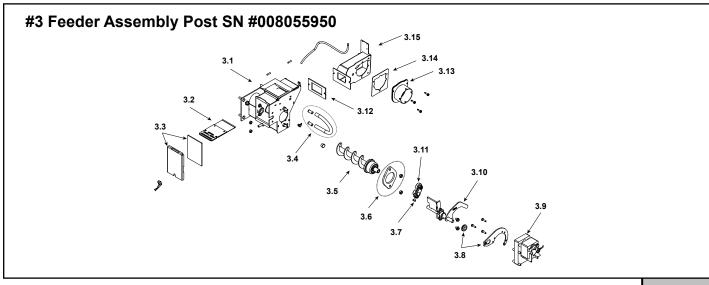
Stocked at Depot

ITEM	Description	COMMENTS	PART NUMBER	1	
2	Feeder Assembly		1-10-724129A		
2.1	Pellet Air Intake Assembly		1-10-06466W		
2.2	Air Intake Weldment		1-10-06461		
2.3	Feeder Weldment		1-10-724128		
2.4	Slide Plate Assembly		1-10-08037	Y	
2.5	Pusher Arm Assembly		1-10-08535	Y	
2.6	Feed Cover and Gasket	2 Sets	1-00-677152	Y	
2.7	Auger Assembly		3-50-00465	Y	
2.8	Cam Bearing		3-31-3014	Y	
2.9	Bearing Flange w/Hardware		1-00-04035	Y	
2.10	Bracket, Gear Motor	Pkg of 2	1-00-01534	Y	
2.11	Gear Motor, 4 RPM		3-20-60906	Y	
	Fan Blade, Feed Motor	Pkg of 3	3-20-2046399-3	Y	
2.12	Cast Cam Block		3-00-00153	Y	
	Feeder Air Crossover Kit		1-00-67900	Y	
	9 mm Silicone Tubing	5 FT	1-00-511427	Y	
	Gasket, Feeder, Air Intake	Pkg of 6	3-44-72224-6	Y	
	Motor Bracket Grommet	Pkg of 12	3-31-2761-12		
	Pillow Block	Pkg of 4	3-31-3614087-4	Y	



# **PC45** Pellet

Beginning Manufacturing Date: N/A Ending Manufacturing Date: Active



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ITEM	Description	COMMENTS	PART NUMBER	
3	Feeder Assembly		1-10-73505A	
3.1	UL Feeder Body		1-10-73504	
3.2	Slide Plate Assembly		1-10-677121A	Y
3.3	Feed Cover and Gasket	2 Sets	1-00-677122	Y
3.4	Feeder Air Crossover Kit		1-00-67900	Y
	9MM Silicone Tube	5 FT	1-00-511427	Y
3.5	UL Feeder Auger Assembly		3-50-00665	Y
3.6	Bearing Flange w/Hardware		1-00-04035	Y
3.7	Cast Cam Block		3-00-677154	Y
3.8	UL Motor Mount W/Grommet		1-00-247406	Y
3.9	Gear Motor, 4 RPM	2 Sets	3-20-60906	Y
3.10	UL Feeder Pusher Arm		1-10-677187W	Y
3.11	Cast Cam Block		3-31-3014	Y
3.12	Gasket Ultra Air Intake	Pkg of 10	3-44-677160-10	Y
3.13	Pellet Air Intake Assembly		1-10-06810A	
3.14	Gasket Feeder Air Intake	Pkg of 6	3-44-72224-6	Y
3.15	UL Feeder Air Intake		1-10-72228	
	Hopper Switch Feeder Fitting	Pkg of 2	1-00-142818	Y
	Motor Bracket Grommet	Pkg of 12	3-31-2761-12	
	Pillow Block	Pkg of 4	3-31-3614087-4	Y
	Silicone Tubing, 1/8"	5 Ft	1-00-5113574	Y
4	Flue Tail Pipe		3-00-247237	Y
5	Auger Motor Cover		2-00-02676P	Y
6	Auger Motor Shield		2-00-06467P	Y

# **PC45** Pellet

Stocked

Beginning Manufacturing Date: N/A Ending Manufacturing Date: Active

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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.

TO A STANDARD,

<b>EM</b>	Description	COMMENTS	PART NUMBER	
1	Differential Switch		3-20-6866	Y
8	Distribution Blower		3-21-33647	Y
9	Combustion Blower		3-21-08639	Y
	Grommets & Spacers	Pkg of 25	1-00-960026	
	Combustion Blower Mounting Screws	Pkg of 100	1-00-53483208	
10	Rear Cover Left		2-00-06468-1P	Y
11	Rear Cover Right		2-00-06468-2P	Y
	Combustion Intake Weldment. For Corn/Grain		1-10-02677W	Y
12 -	Combustion Intake Weldment, For burning Pellet		1-10-08516S	Y
13	Retainer Assembly, for Combustion Intake Weldment		1-10-08533S	Y
14	Ash Pan		1-10-05800	Y
4.5	Ash Door Assembly	Pre	1-10-06724S	
15		Post	1-10-06798A	
	Wood Knob	Pkg of 3	3-40-08746-3	
16	Bolt on Hinge Weldment		2-00-06968B	
17	Cast Door Frame		4-00-06800P	
	Cast Door w/Glass		1-10-06800A	
18	Glass Panel		3-40-950133647	Y
	Class Clip w/Hardware (Dkg of 4)	Pre 00855001	1-00-773862	
	Glass Clip w/Hardware, (Pkg of 4)	Post 00855001	1-00-249140	Y
19	Door Handle Assembly	Pre 1529	1-00-08704	Y
19	Door Handle Assembly	Post 1529	1-00-453001	Y
	Wooden Handle w/Hardware, Load Door	2 Sets	1-00-00247	Y

Large Hole 1-10-724108 Υ 20.1 Burn Pot Grate Weldment Small Hole 1-10-724208 **Burn Pot Housing Weldment** 1-10-724103 20.2 20.3 Auger Extension 3-00-02676 Υ Υ 20.4 **Burn Pot Front Plate** Pkg of 2 2-00-724107-2 Pellet End Plate 2-00-724111-3 20.5 Burn Pot Front Plate Lock Pkg of 5 2-00-724105-5 Υ Grain Cap 2-00-724205 Υ

BUILT TO A STANDARD, NOT A PRICE

**Service Parts** 

**PC45** Pellet

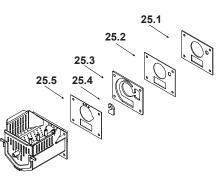
Beginning Manufacturing Date: N/A Ending Manufacturing Date: Active

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.

450	Stocked
	at Depot

				at Dopot
ITEM	Description	COMMENTS	PART NUMBER	
21	Fire Brick 4-1/2 x 9 x 1-1/4"	Pkg of 7	1-00-900450125	Y
	Fire Brick , Full Skid	414 Pcs	3-40-900450-414	
22	Hopper Heat Shield		2-00-06471B	
23	Feeder Cover		2-00-773826L	
24	Circuit Board w/Knobs & Shafts		1-00-05887	Y
	Circuit Board Plate, Studded w/Label		1-10-02678	
	Knob, Contol Board/D-Shaft	25 Sets	1-00-015605	Y

#25 Burn Pot Gasket Placement



		1		
25	Gasket Placement			
25.1	Gasket, Pellet Burn Pot/Tailpipe	Pkg of 5	1-00-07381	Y
25.2	Gasket, Ceramic Insert	Pre 008055950	3-44-724114	Y
25.2	Insert Plate, Ceramic	Pre 008055950	2-00-724104	Y
25.3	Insert Plate, Non-Ceramic	Post 008055950	2-00-73545L	Y
25.4	Insert, Ceramic	Pre 008055950	3-20-05238-10	Y
25.5	Gasket, Burn Pot	Pre 008055950	3-44-724115	Y
	Ignition Air Pump (Pressure Igniton)		3-20-02679	Y
	Air Pump Filter & Fittings		1-00-02679	Y
	Air Pump Mounting Kit (does not contain air pump)	Pre SN 008055762	1-00-724209	Y
	Air Pump Rebuild Kit		1-00-724135	Y
	Airwash O-rings	Pkg of 10	1-00-939639	Y
	Arrow Burn Pot Scraper	Pkg of 10	2-00-773850-10	
	Cast Weld on Door Hinge	Qty 2 req	3-00-773813	
	Diagnostic Display Module		3-20-05401	Y
	DDM Replacement Cable		1-00-05402	
	Disconnect, Female	Pkg of 25	1-00-00959	Y
	Disconnect, Male	Pkg of 25	1-00-00957	Y
\ ddition	al service parts on following page			



# **PC45 Pellet**

Beginning Manufacturing Date: N/A 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        Draft Meter Assembly      1-00-00637      Y        Draft Meter Bit and Tube      1-00-04004        Fan Blade, 5" Single Paddle (Combustion Blower)      3-20-40985      Y        Gasket, 1/4" Rope Black W/PSA (Glass)      15 Ft      1-00-0248      Y        Gasket, 1/4" Rope Black W/PSA (Glass)      15 Ft      1-00-0248      Y        Gasket, 1/4" Rope Black W/PSA (Glass)      10 Ft      1-00-00248      Y        Hopper Lid W/Hinge      10 Ft      1-00-00248      Y        Ignifer      1-10-01090      Y        Ignifer      1-10-01090      Y        Ignifer      1-10-010450      Y        Labels, Caution & Danger      10 ea      1-00-724121B      Y        Labels, Caution & Danger      10 ea      1-00-2048641      10        Labels, Caution & Danger      10 ea      1-00-0048641      10        Labels, Caution & Danger      10 ea      1-00-0048641      10        Coutside Air Termination Cap      1-10-09542      P      P        Power Cord      3-20-39685      Y      3-20		· · · · · · · · · · · · · · · · · · ·			at Depot
Draft Meter Bolt and Tube      1-00-04004        Fan Blade, 5° Single Paddle (Combustion Blower)      3-20-49985      Y        Fuse, 6 Amp      Pkg of 5      3-20-49985      Y        Gasket, 1/4" Rope Black W/PSA (Glass)      15 Ft      1-00-02312      Y        Gasket, 1/4" Rope Black W/PSA (Glass)      15 Ft      1-00-0238      Y        Gasket, J/4" Rope Black W/PSA (Glass)      10 Ft      1-00-00248      Y        Hopper Lid W/Hinge      10 Ft      1-00-00248      Y        Igniter      100-10450      Y        Igniter      100-10450      Y        Label, Caution      10 ea      1-00-20408541        Label, Caution      3-10-724203      10 ea        Igniter Mounting Bracket      2-00-724121B      Y        Swell Latch & Spacer      Pre      1-00-199110      Y        Rubber spacers      Pkg of 10      3-31-901311-10      0        Outside Air Termination Cap      1-10-09542      Power Cord      3-20-09865      Y        Room Sensor      3-20-00864      Y      Pre 008055031      3-20-01679.4      Y        Thermister Probe (ESP Probe) </th <th>ITEM</th> <th>Description</th> <th>COMMENTS</th> <th>PART NUMBER</th> <th></th>	ITEM	Description	COMMENTS	PART NUMBER	
Fan Blade, 5" Single Paddle (Combustion Blower)      3-20-40985      Y        Fuse, 6 Amp      Pkg of 5      3-20-49447-5      Y        Gasket, 1/4" Rope Black W/PSA (Glass)      15 Ft      1-00-2312      Y        Gasket, 3/8" Rope White LD (Ash Door or Load Door)      30 Ft      1-00-00288      Y        Gasket, Hopper Top      10 Ft      1-00-00288      Y        Hopper Lid W/Hinge      10 Ft      1-00-00288      Y        Igniter      1-00-10450      Y        Igniter Barb Fitting      No longer available      3-10-724203        Igniter Mounting Bracket      2-00-724121B      Y        Labels, Caution & Danger      10 ea      1-00-00247        Swell Latch & Spacer      Pre      1-00-199110      Y        Rubber spacers      Pkg of 10      3-31-901311-10      Outside Air Termination Cap      3-20-02679-4        Sillicone Tubing, 1/4"      5 Ft      1-00-199110      Y      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-02679-4      St        Thermostat Extension      3-20-02681      Y      Y        Touch up Paint, Black      Pre 008055031 <td></td> <td>Draft Meter Assembly</td> <td></td> <td>1-00-00637</td> <td>Y</td>		Draft Meter Assembly		1-00-00637	Y
Fuse, 6 Amp      Pkg of 5      3-20-49447-5      Y        Gasket, 14/4* Rope Black W/PSA (Glass)      15 Ft      1-00-2312      Y        Gasket, 3/8* Rope White LD (Ash Door or Load Door)      30 Ft      1-00-00888      Y        Gasket, Moper Top      10 Ft      1-00-00888      Y        Hopper Lid W/Hinge      10 Ft      1-00-010450      Y        Igniter      1-00-10450      Y        Igniter Barb Fitting      No longer available      3-10-724203        Igniter Mounting Bracket      2-00-724121B      Y        Labels, Caution & Danger      10 ea      1-00-10450      Y        Rubber spacers      Pre      1-00-10450      Y        Swell Latch & Spacer      Pre      1-00-20408541      10        Outside Air Termination Cap      11-0-09542      10      3-31-901311-10        Outside Air Termination Cap      1-10-09542      10      3-20-0906      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-0906      Y      10      3-20-0906      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-11744      Y      10      20-0		Draft Meter Bolt and Tube		1-00-04004	
Gasket, 1/4" Rope Black W/PSA (Glass)      15 Ft      1-00-2312      Y        Gasket, 3/8" Rope White LD (Ash Door or Load Door)      30 Ft      1-00-00888      Y        Gasket, Hopper Top      10 Ft      1-00-00248      Y        Hopper Lid W/Hinge      1-10-09109      Y        Igniter      1-00-10450      Y        Igniter Barb Fitting      No longer available      3-10-724203        Igniter Mounting Bracket      2-00-724121B      Y        Label, Caution & Danger      10 ea      1-00-010450      Y        Label, Caution & Danger      10 ea      1-00-200408541      140-140-149110      Y        Rubber spacers      Pre      1-00-199110      Y      Y      1-00-199110      Y        Rubber spacers      Pkg of 10      3-31-901311-10      Outside Air Termination Cap      1-10-09542      P        Power Cord      3-20-00906      Y      3-20-02679-4      Silicone Tubing, 1/4"      5 Ft      1-00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-00607      Y        Thermostat Extension      3-20-006617      Y      Y <t< td=""><td></td><td>Fan Blade, 5" Single Paddle (Combustion Blower)</td><td></td><td>3-20-40985</td><td>Y</td></t<>		Fan Blade, 5" Single Paddle (Combustion Blower)		3-20-40985	Y
Gasket, 3/8" Rope White LD (Ash Door or Load Door)      30 Ft      1-00-00888      Y        Gasket, Hopper Top      10 Ft      1-00-00248      Y        Hopper Lid Wi/Hinge      1-10-09109      Y        Igniter      1-00-10450      Y        Igniter Barb Fitting      No longer available      3-10-724203        Igniter Mounting Bracket      2-00-724121B      Y        Labels, Caution & Danger      10 ea      1-00-200408541        Labels, Caution & Spacer      Pre      1-00-199110      Y        Rubber spacers      Pkg of 10      3-31-901311-10      Y        Outside Air Termination Cap      1-10-05452      Y      Y        Room Sensor      3-20-00906      Y      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-02679-4      Y        Silicone Tubing, 1/4"      5 Ft      1-00-5113521      Y        Thermister Probe (ESP Probe)      Post 008055031      3-20-02679-4      Y        Touch up Paint, Black      Pre 008056237      3-42-1990      Y        Wiring Harness, Main      3-20-02681      3-20-02680      Y        Wiring Harness, Neut		Fuse, 6 Amp	Pkg of 5	3-20-49447-5	Y
Gasket, Hopper Top      10 Ft      1-00-00248      Y        Hopper Lid W/Hinge      1-10-09109      Y        Igniter      1-00-10450      Y        Igniter Barb Fitting      No longer available      3-10-724203      Y        Igniter Mounting Bracket      2-00-724121B      Y      Y        Labels, Caution & Danger      10 ea      1-00-200408541      Y        Label, Caution & Danger      10 ea      1-00-200408541      Y        Label, Caution & Danger      10 ea      1-00-200408541      Y        Mubber spacers      Pre      1-00-199110      Y        Outside Air Termination Cap      11-10-09542      Y        Power Cord      3-20-39685      Y        Room Sensor      3-20-00906      Y        Rubber Freet, Air Pump      Pkg of 4      3-20-00906      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-11744      Y        Thermostat Extension      3-20-00607      Y        Touch up Paint, Black      Pre 008056237      3-42-19905        Wiring Harness, Main      3-20-02680      States 3-43-06802-4		Gasket, 1/4" Rope Black W/PSA (Glass)	15 Ft	1-00-2312	Y
Hopper Lid Wi/Hinge      1-10-09109      Y        Igniter      1-00-10450      Y        Igniter Barb Fitting      No longer available      3-10-724203        Igniter Mounting Bracket      2-00-724121B      Y        Labels, Caution & Danger      10 ea      1-00-109501      Y        Labels, Caution & Danger      10 ea      1-00-200408541      1        Label, Caution & Danger      10 ea      1-00-199110      Y        Rubber spacers      Pre      1-00-199110      Y        Rubber spacers      Pkg of 10      3-31-901311-10      2        Outside Air Termination Cap      1-10-09542      2      2        Power Cord      3-20-030855      Y      3-20-09066      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-02679-4      5      5      T      1-00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-11744      Y      Y        Touch up Paint, Black      Pre 008056237      3-42-1990      3-20-02681      3-20-02681      3-20-02680      3-43-06802-7      E      Brushed Stainless      3-43-06802-4		Gasket, 3/8" Rope White LD (Ash Door or Load Door)	30 Ft	1-00-00888	Y
Igniter      1-00-10450      Y        Igniter Barb Fitting      No longer available      3-10-724203      Y        Igniter Barb Fitting      10 ea      1-00-20048541      Y        Labels, Caution & Danger      10 ea      1-00-20048541      Y        Label, Caution      3-90-00247      Swell Latch & Spacer      Pre      1-00-199110      Y        Rubber spacers      Pkg of 10      3-31-901311-10      Y      Y        Qutside Air Termination Cap      1-10-09542      Y      Y        Room Sensor      3-20-39685      Y      Y        Rober Feet, Air Pump      Pkg of 4      3-20-0906      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-02679-4      Silicone Tubing, 1/4"      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-11744      Y        Touch up Paint, Black      Pre 008056237      3-42-1990      Y        Wring Harness, Main      3-20-02681      3-20-02680      S-20-02680        Wiring Harness, Neutral      Gold      3-43-06802-4      S-20-02680        Leaf Door Trim      Brushed Stainless      3-43-06802-7		Gasket, Hopper Top	10 Ft	1-00-00248	Y
Igniter Barb Fitting      No tonger available      3-10-724203        Igniter Mounting Bracket      2-00-724121B      Y        Labels, Caution & Danger      10 ea      1-00-200408541        Label, Caution      3-90-00247        Swell Latch & Spacer      Pre      1-00-199110        Rubber spacers      Pkg of 10      3-31-901311-10        Outside Air Termination Cap      1-10-09542        Power Cord      3-20-39685      Y        Room Sensor      3-20-002679-4        Silicone Tubing, 1/4"      5 Ft      1-00-2113521        Y      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-00804        Thermostat Extension      3-20-00807      Y        Touch up Paint, Black      Pre 008056237      3-42-1990        Wiring Harness, Main      3-20-02681      3-20-02681        Leaf Door Trim      Gold      3-43-06802-7        Bright Nickel      3-43-06802-7      Bright Nickel        Ash Lip Trim      Gold      3-43-06802-7        Thread      Gold      3-43-06802-7        Bright Nickel      3-43-06802-7 <td< td=""><td></td><td>Hopper Lid W/Hinge</td><td></td><td>1-10-09109</td><td>Y</td></td<>		Hopper Lid W/Hinge		1-10-09109	Y
Igniter Mounting Bracket      2:00-724121B      Y        Labels, Caution & Danger      10 ea      1:00-200408541        Label, Caution      3:90-00247        Swell Latch & Spacer      Pre      1:00-199110        Quisde Air Termination Cap      1:10-09542        Power Cord      3:20-39685      Y        Room Sensor      3:20-0066      Y        Rubber Feet, Air Pump      Pkg of 4      3:20-02679-4        Silicone Tubing, 1/4"      5 Ft      1:00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3:20-00844      Y        Thermostat Extension      3:20-00865237      3:42-1990      Y        Touch up Paint, Black      Pre 008056237      3:42-1990      Y        Wiring Harness, Main      3:20-02680      3:20-02681      3:20-02681        Leaf Door Trim      Gold      3:43-06802-7      Brushed Stainless      3:43-06802-7        Brushed Stainless      3:43-06802-7      Brushed Stainless      3:43-06802-8      3:43-06802-7        Modern Door Trim      Brushed Stainless      3:43-06802-7      Brushed Stainless      3:43-06802-7        Ash Li		Igniter		1-00-10450	Y
Labels, Caution & Danger      10 ea      1-00-200408541        Label, Caution      3-90-00247      3-90-00247        Swell Latch & Spacer      Pre      1-00-199110      Y        Rubber spacers      Pkg of 10      3-31-901311-10      Y        Outside Air Termination Cap      1-10-09542      1-00-39685      Y        Power Cord      3-20-09066      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-09066      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-09066      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-00807      Y        Thermostat Extension      3-20-00807      Y        Touch up Paint, Black      Pre 008056237      3-42-19905        Wiring Harness, Main      3-20-02680      3-20-02680        Wiring Harness, Neutral      3-20-02680      3-20-02680        Leaf Door Trim      Brushed Stainless      3-43-06802-7        Bright Nickel      3-43-06802-7      Bright Nickel      3-43-06802-7        Ash Lip Trim      Brushed Stainless      3-43-06802-7      Bright Nickel      3-43-06802-7        Brushed Stainless		Igniter Barb Fitting	No longer available	3-10-724203	
Label, Caution      3-90-00247        Swell Latch & Spacer      Pre      1-00-199110      Y        Rubber spacers      Pkg of 10      3-31-901311-10      Y        Outside Air Termination Cap      1-10-09542      1-10-09542        Power Cord      3-20-39685      Y        Room Sensor      3-20-09066      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-02679-4        Silicone Tubing, 1/4"      5 Ft      1-00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-11744      Y        Touch up Paint, Black      Pre 008056237      3-42-1990      Y        Touch up Paint, Black      Pre 008056237      3-42-19905      Y        Wiring Harness, Main      3-20-02681      3-20-02681      S        Wiring Harness, Neutral      Gold      3-43-06802-4      S        Leaf Door Trim      Brushed Stainless      3-43-06802-7      S        Modern Door Trim      Brushed Stainless      3-43-06802-7      S        Bright Nickel      3-43-08400      S      S-43-08400        Brushed Stainless      3-43-08400-7 <t< td=""><td></td><td>Igniter Mounting Bracket</td><td></td><td>2-00-724121B</td><td>Y</td></t<>		Igniter Mounting Bracket		2-00-724121B	Y
Swell Latch & Spacer      Pre      1-00-199110      Y        Rubber spacers      Pkg of 10      3-31-901311-10      1        Outside Air Termination Cap      1-10-09542      1        Power Cord      3-20-39685      Y        Room Sensor      3-20-0906      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-02679-4        Silicone Tubing, 1/4"      5 Ft      1-00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-10744      Y        Thermostat Extension      3-20-00607      Y        Touch up Paint, Black      Pre 008056237      3-42-1990        Wiring Harness, Main      3-20-02680      3-20-02680        Wiring Harness, Neutral      3-20-02681      1        Leaf Door Trim      Gold      3-43-06802-4        Brushed Stainless      3-43-06802-7      1        Ash Lip Trim      Gold      3-43-06802-7        Gold      3-43-06800-7      1        Brushed Stainless      3-43-06800-7        Bright Nickel      3-43-08400      1        Brushed Stainless      3-43-08400-7		Labels, Caution & Danger	10 ea	1-00-200408541	
Rubber spacers      Pkg of 10      3-31-901311-10        Outside Air Termination Cap      1-10-09542        Power Cord      3-20-39685      Y        Room Sensor      3-20-00906      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-02679-4        Silicone Tubing, 1/4"      5 Ft      1-00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-00607      Y        Thermostat Extension      3-20-00607      Y        Touch up Paint, Black      Pre 008056237      3-42-1990        Wiring Harness, Main      3-20-02680      9        Wiring Harness, Neutral      3-20-02680      9        Leaf Door Trim      Gold      3-43-06802-4      9        Brushed Stainless      3-43-06802-7      9      9        Modern Door Trim      Brushed Stainless      3-43-06802-8      9        Modern Door Trim      Brushed Stainless      3-43-06802-7      9        Brushed Stainless      3-43-06802-7      9      9        Brushed Stainless      3-43-06802-7      9      9        Brushed Stainless      3-43-06802-7		Label, Caution		3-90-00247	
Outside Air Termination Cap      1-10-09542        Power Cord      3-20-39685      Y        Room Sensor      3-20-00906      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-02679-4        Silicone Tubing, 1/4"      5 Ft      1-00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-00844      Y        Thermostat Extension      3-20-00807      Y        Touch up Paint, Black      Pre 008056237      3-42-1990        Viring Harness, Main      3-20-02680      9        Wiring Harness, Neutral      3-20-02681      3-20-02680        Wiring Harness, Neutral      Gold      3-43-06802-4        Leaf Door Trim      Brushed Stainless      3-43-06802-7        Bright Nickel      3-43-06802-7      Bright Nickel        Ash Lip Trim      Gold      3-43-06802-7        Brushed Stainless      3-43-06802-7      Bright Nickel        Ash Lip Trim      Brushed Stainless      3-43-06802-7        Bright Nickel      3-43-0800-7      Bright Nickel        Therme      Gold      3-43-06802-7        Bright Nickel      3-43-06802-		Swell Latch & Spacer	Pre	1-00-199110	Y
Power Cord      3-20-39685      Y        Room Sensor      3-20-00906      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-02679-4        Silicone Tubing, 1/4"      5 Ft      1-00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-11744      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-008044      Y        Thermostat Extension      3-20-00607      Y        Touch up Paint, Black      Pre 008056237      3-42-1990        Wiring Harness, Main      3-20-02680      Post 008056237      3-42-19905        Wiring Harness, Neutral      3-20-02680      Seconda 1000      Seconda 1000        Wiring Harness, Neutral      3-20-02680      Seconda 1000      Seconda 1000        Wiring Harness, Neutral      Gold      3-43-06802-4      Seconda 1000        Leaf Door Trim      Brushed Stainless      3-43-06802-7      Seconda 1000        Modern Door Trim      Brushed Stainless      3-43-06802-8      Seconda 1000        Ash Lip Trim      Gold      3-43-08400      Seconda 1000      Seconda 1000        Thermise      Gold		Rubber spacers	Pkg of 10	3-31-901311-10	
Room Sensor      3-20-00906      Y        Rubber Feet, Air Pump      Pkg of 4      3-20-02679-4      5        Silicone Tubing, 1/4"      5 Ft      1-00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-01744      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-01744      Y        Thermostat Extension      3-20-00607      Y        Touch up Paint, Black      Pre 008056237      3-42-1990        Wiring Harness, Main      3-20-02680      9        Wiring Harness, Neutral      3-20-02680      9        Leaf Door Trim      Gold      3-43-06802-4      9        Leaf Door Trim      Brushed Stainless      3-43-06802-7      9        Ash Lip Trim      Gold      3-43-06802-7      9        Tile Frame      Gold      3-43-08400      9        Tile Frame      Brushed Stainless      3-43-08400-7      9        Right Nickel      3-43-08400-7      9      9        Silicone Trim      Brushed Stainless      3-43-08400-7      9        Bright Nickel      3-43-08400-7      9		Outside Air Termination Cap		1-10-09542	
Rubber Feet, Air Pump      Pkg of 4      3-20-02679-4        Silicone Tubing, 1/4"      5 Ft      1-00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-11744      Y        Thermostat Extension      3-20-00607      Y        Touch up Paint, Black      Pre 008056237      3-42-1990        Wiring Harness, Main      3-20-02680		Power Cord		3-20-39685	Y
Silicone Tubing, 1/4"      5 Ft      1-00-5113521      Y        Thermister Probe (ESP Probe)      Pre 008055031      3-20-11744      Y        Thermostat Extension      3-20-00844      Y        Touch up Paint, Black      Pre 008056237      3-42-1990        Wiring Harness, Main      3-20-02680      9        Wiring Harness, Neutral      3-20-02680      3        Leaf Door Trim      Gold      3-43-06802-4        Leaf Door Trim      Brushed Stainless      3-43-06802-8        Modern Door Trim      Brushed Stainless      3-43-06802-8        Modern Door Trim      Brushed Stainless      3-43-06802-8        Thermine      Gold      3-43-08400        Ash Lip Trim      Brushed Stainless      3-43-08400        Trile Frame      Gold      3-43-08400-7        Tile Frame      Gold      3-43-08400-7        Brushed Stainless      3-43-08400-7        Bright Nickel      3-43-08400-7        Bright Nickel      3-43-08400-7        Bright Nickel      3-43-06729-4        Brushed Stainless      3-43-06729-7        Bright Nickel      3-43-06729-7		Room Sensor		3-20-00906	Y
Pre      008055031      3-20-11744      Y        Thermister Probe (ESP Probe)      Post 008055031      3-20-00844      Y        Thermostat Extension      3-20-00607      Y        Touch up Paint, Black      Pre 008056237      3-42-1990        Wiring Harness, Main      3-20-02680      9        Wiring Harness, Neutral      3-20-02681      3-20-02681        Leaf Door Trim      Gold      3-43-06802-4      9        Leaf Door Trim      Brushed Stainless      3-43-06802-7      9        Modern Door Trim      Brushed Stainless      3-43-06802-8      9        Modern Door Trim      Brushed Stainless      3-43-06802-7      9        Therme      Gold      3-43-06802-8      9      9        Modern Door Trim      Brushed Stainless      3-43-06802-8      9        Therme      Gold      3-43-08400      9      9        Trile Frame      Brushed Stainless      3-43-08400-7      9        Trile Frame      Brushed Stainless      3-43-06729-4      9        Trile Frame      Brushed Stainless      3-43-06729-7      9        <		Rubber Feet, Air Pump	Pkg of 4	3-20-02679-4	
Thermister Probe (ESP Probe)      Post 008055031      3-20-00844      Y        Thermostat Extension      3-20-00607      Y        Touch up Paint, Black      Pre 008056237      3-42-1990        Wiring Harness, Main      3-20-02680      3-20-02680        Wiring Harness, Neutral      3-20-02681      3-20-02681        Leaf Door Trim      Gold      3-43-06802-4      3-43-06802-7        Brushed Stainless      3-43-06802-7      3-43-06802-7      3-43-06802-7        Modern Door Trim      Brushed Stainless      3-43-06802-7      3-43-06802-7        Modern Door Trim      Brushed Stainless      3-43-06802-7      3-43-06802-7        Ash Lip Trim      Brushed Stainless      3-43-06802-7      3-43-06802-7        Therme      Gold      3-43-06802-7      3-43-06802-7        Therme      Brushed Stainless      3-43-06802-7      3-43-06802-7        Therme      Brushed Stainless      3-43-06802-7      3-43-06802-7        Bright Nickel      3-43-08400-7      3-43-08400-7      3-43-08400-7        Tile Frame      Gold      3-43-06729-4      3-43-06729-7      3-43-06729-7        Tile Frame <td></td> <td>Silicone Tubing, 1/4"</td> <td>5 Ft</td> <td>1-00-5113521</td> <td>Y</td>		Silicone Tubing, 1/4"	5 Ft	1-00-5113521	Y
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Gold      3-43-08400        Ash Lip Trim      Brushed Stainless      3-43-08400-7        Bright Nickel      3-43-08400-8      3-43-08400-8        Tile Frame      Gold      3-43-06729-4        Brushed Stainless      3-43-06729-7      3-43-06729-7        Bright Nickel      3-43-06729-8      3-43-06729-8			Bright Nickel	3-43-06802-8	
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Tile Frame  Brushed Stainless  3-43-06729-7    Bright Nickel  3-43-06729-8			Bright Nickel	3-43-08400-8	
Bright Nickel 3-43-06729-8			Gold	3-43-06729-4	
		Tile Frame	Brushed Stainless	3-43-06729-7	
Spring Clips (Required for the installation of Tile Frame)      Pkg of 20      3-31-232547-20			Bright Nickel	3-43-06729-8	
		Spring Clips (Required for the installation of Tile Frame)	Pkg of 20	3-31-232547-20	

### Minimizing Smoke During Loss of Power Using Battery Back-up

# Harman® strongly recommends installing battery back-up to minimize entry of smoke into the room in the event of power loss.

Your pellet/biomass burning appliance relies on a combustion blower to remove exhaust. A power failure will cause the combustion blower to stop. This may lead to exhaust seeping into the room. Vertical rise in the venting may provide natural draft. It is, however, no guarantee against leakage.

### There are two Harman® approved battery back-up options for your appliance:

<u>Uninterruptible Power Supply (UPS) UPS</u> battery back-ups are available online or at computer and office equipment stores. Your Harman® appliance with Rev E or later software available beginning in November 2010 may be plugged directly into a Harman® approved UPS:

• The APC (American Power Conversion) model #BX1500G and the TrippLite OMNIVS1500 are tested and approved. Other brands or models may not be compatible.

When power is lost, a fully charged UPS will power a safe, combustion blower only shut-down. Your appliance will pulse the blower every few seconds to clear exhaust until the fire is out. **NOTE: The UPS provides safe shut-down only. It is not intended for continued operation.** 

Your appliance will recognize when power is restored. What happens depends on ESP temperature and whether it is equipped with automatic ignition:

- In "Automatic" setting, units equipped with automatic ignition will respond to the set point and ESP temperature and resume normal operation.
- In "Manual" setting or for units without automatic ignition:
  - If the ESP is cool, the appliance will remain shut down.
  - If the fire is out and the ESP is still warm, the feeder may restart. Since the fire is out, the ESP temperature will not rise. The unit will then shut-down, and may flash a six-blink status error. (See ESP error codes)
  - If the fire is still burning, it will resume normal operation.

Contact your dealer if you have questions about UPS compatibility with your appliance.

CAUTION! Always keep appliance doors and hopper lid closed and latched during operation and during power failures to minimize risk of smoke or burn-back.

CAUTION! Use only Harman® approved battery back-up devices. Other products may not operate properly, can create unsafe conditions or damage your appliance.

# Service & Maintenance Log

Date Of Service	Performed By	Description Of Service

# Service & Maintenance Log

Date Of Service	Performed By	Description Of Service

At Harman, we build each product to a standard, not a price. This powerful heating appliance boasts uncompromising attention to detail and helps preserve our planet by using environmentally responsible fuels.

(Signature of Boxer)

Your premium quality hearth product designed and assembled by the experienced and skilled members at Harman in Halifax, PA, USA.



Proudly Printed On 100% Recycled Paper

