

# Installation & Operating Manual

**NOTICE: SAVE THESE INSTRUCTIONS**

# HARMAN®

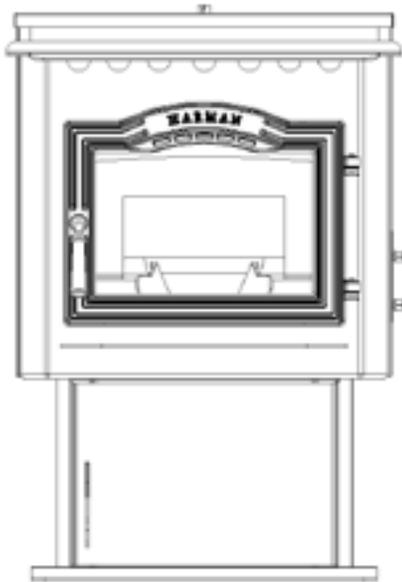
**BUILT TO A STANDARD, NOT A PRICE**

**Model(s):**

**P38+ Freestanding Pellet Stove**



P38+  
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](http://www.harmanstoves.com)

Pour obtenir une traduction française de ce manuel, s'il vous plaît contacter votre revendeur ou visitez [www.harmanstoves.com](http://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 HARMAN STOVE 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.**

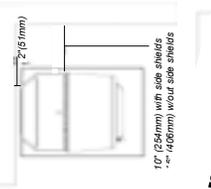
**CETTE GUIDE D'UTILISATION EST DISPONIBLE EN FRANCAIS. CHEZ VOTRE CONCESSIONNAIRE DE HARMAN HOME HEATING.**

**SAVE THESE INSTRUCTIONS.**

**HARMAN**  
 Made in U.S.A. of U.S. and imported parts. / Fabriqué aux États-Unis d'Amérique par des pièces d'origine américaine et pièces importées.

**MODEL / MODÈLE:** □ "PP38+ / □ P43"  
 Room Heater Pellet Fuel Burning Type. Also for use in Mobile Homes.  
 Appareil de chauffage à granulés de bois utilisable dans des mobile homes.  
 This pellet burning appliance has been tested and listed for use in Manufactured homes in accordance with CAR 814-23-900 through 814-23-909

**Report #** 135-S-21-6, 2 (PP38+)  
**Report #** 135-S-23-4, 1, 35-S-23b-6, 2 (P43)  
 Tested to / Testé à:  
 ASTM E 1509-04, ULC/ORD-C-1482-M190,  
 ULC-S627-00



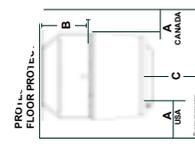
**BARCODE LABEL**

**Serial**  
 N° or

**The label shown here is for reference only. For specific information on clearances and testing, consult the actual label on the rear of the P38 fuel hopper.**

**"PREVENT HOUSE FIRES"**  
 Install and Use Only in Accordance With Manufacturer's Installation and Use Instructions. Read and Understand All Labels, Warnings, and Instructions.  
 Contact Local Building or Fire Officials About Restrictions and Requirements.  
**WARNING: THE STRUCTURAL INTEGRITY OF THE MAN AND CEILING/ROOF MUST BE MAINTAINED. DO NOT IN...**  
 An outside combustion air inlet must be provided. Refer to manufacturer's instructions for details.  
 codes regarding the requirements for passing the exhaust venting system through a combustible wall or ceiling.  
 Inspect and Clean Exhaust Venting System Frequently.  
 Use a 3" or 4" diameter type "L" or "PL" venting system.  
 Do Not Connect This Unit to a Chimney Flue, Serving Another Appliance.  
**FOR USE WITH WOOD PELLET FUEL OR UP TO 50% CORN / PELLET MIXTURE ONLY.**  
 The Use of Other Fuels May Create an Unsafe Condition.  
 Input Rating Max: 5.5 lb. fuel/hr.  
 U.S. Electrical Rating: 115 VAC, 60 Hz, Start 4.2 AMPS, Run 2.8 AMPS  
 Route Power Cord Away From Unit.

**"PREVENTION DES INCENDIES"**  
 Respecter scrupuleusement les instructions du constructeur pour l'installation et les consignes de fonctionnement. Respecter les règles de sécurité en vigueur dans votre région. Il est impératif d'obtenir l'avis des autorités locales.  
**AVERTISSEMENT POUR MOBILE HOMES:** Ne pas installer dans une chambre. Il est impératif de prévoir une prise d'air extérieur. L'intégrité structurelle du plancher, du plafond et des murs doit être strictement préservée. Se reporter aux instructions du fabricant et aux réglementations spécifiques locales concernant les précautions requises lors de la traversée d'un mur ou d'un plafond.  
 Contrôler et nettoyer fréquemment tout le système d'évacuation des fumées conformément aux recommandations du constructeur. Utiliser des tuyaux <<Spécial granulés>> de Ø76 mm ou 102 mm. Ne pas raccorder ce poêle à un conduit de cheminée déjà utilisé pour un autre appareil.  
**FONCTIONNE EXCLUSIVEMENT AVEC DES GRANULES DE BOIS**  
 Appareil de chauffage à granulés type. Consommation maximum: 2,5 kg/h.  
 US coupleur: 115 VAC, 60 Hz, 4,2 amp. Démarrer: Exécuter 2,8 AMPS.  
**DANGER:** Risque d'électrocution. Débrancher l'appareil avant toute intervention.  
 Ne remplacer la vitre qu'avec une vitre céramique 5mm de même qualité disponible auprès de votre revendeur.  
 Pour une information plus complète, se reporter à la notice d'utilisation. Tenir la porte hermétiquement close durant fonctionnement.  
 L'usage de combustibles autres que le bois peut constituer un obstacle à l'espace sous le réchauffeur. Toujours fournir un approvisionnement suffisant en air frais.



**FLOOR PROTECTION**  
 FLOOR PROTECTION / Protection Du Plancher  
 USA  
 Canada  
 Séries / Séries (A) 6" 200mm  
 Back / Arrière (B) 6" 200mm  
 Front / Avant (C) 6" 450mm  
 \*Measured from pedestal base in the US ONLY  
 \*Mesuré à partir de la base du socle aux États-Unis uniquement  
 \*Measured from Glass Opening  
 \*Mesurer à partir de la surface de la porte en verre  
 Floor Protection Must Be a Non-Combustible Material.  
 Must Also be Placed Under Any Horizontal Flue Connector.  
 Extending 2" or 51mm Beyond the Flue Measurement.  
 Pour protéger le plancher, il faut sous le poêle un matériau. Qui doit aussi être placé sous les parties horizontales du tuyau de raccord à la cheminée et s'étendre à 51mm ou 2 po. au-delà de la mesure du tuyau.

**"PREVENTION DES INCENDIES"**  
 Respecter scrupuleusement les instructions du constructeur pour l'installation et les consignes de fonctionnement. Respecter les règles de sécurité en vigueur dans votre région. Il est impératif d'obtenir l'avis des autorités locales.  
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**DO NOT REMOVE THIS LABEL / NE PAS ENLEVER CETTE ÉTIQUETTE**

**Manufacture / Date de fabrication:**

2013	2014	2015	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Fabrique par: Heath and Home Technologies 352 Mountain House Road, Halifax PA 17032

PN: 3-90-04300 Rev D

# Introduction

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➔ = Contains updated information

Safety Listing: Omni-Test Laboratories, Inc.  
 Report # 135-S-21-6.2  
 Tested to: ASTM E 1509-04, ULC/ORD-C1482-M1990,  
 ULC-S627-00

This appliance is also approved for installation into a shop.



**WARNING**

**DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.**



**WARNING**

**DO NOT USE CHEMICALS OR FLUIDS TO START THE FIRE. DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA, OR OIL.**



This label is located on the back of the unit.  
 Please copy the Serial Number for future reference.

Serial #:




Hearth & Home Technologies  
 352 Mountain House Road  
 Halifax, PA 17032

# Important Notes

**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.**

## **SPECIAL NOTE:**

**DUE TO FLY ASH BUILDUP, IT IS STRONGLY RECOMMENDED THAT YOU HAVE YOUR STOVE PROFESSIONALLY CLEANED AND SERVICED ANNUALLY. THIS INCLUDES ALL PARTS OF THE STOVE, AND THE ENTIRE VENTING SYSTEM.**

## **CAUTION**

**ALWAYS BE SURE THERE IS NO UNBURNED FUEL IN THE ASH PAN PRIOR TO LIGHTING A FIRE. THIS WILL CAUSE SMOKE AND SOOT AND OTHER UNWANTED RESULTS.**

## **CAUTION**

**DO NOT USE MAKESHIFT COMPONENTS OR OTHER COMPROMISES WHEN INSTALLING THIS APPLIANCE.**

**INSTALLATION AND REPAIR OF THIS HARMAN STOVE SHOULD BE DONE BY A QUALIFIED SERVICE PERSON. WE RECOMMEND THAT THE STOVE BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A QUALIFIED SERVICE PERSON. PERIODIC CLEANING IS REQUIRED THROUGHOUT THE HEATING SEASON AND AT THE END OF EACH WINTER FOR THE STOVE TO WORK EFFICIENTLY. REFER TO THE MAINTENANCE SECTION OF THIS MANUAL.**

## **CAUTION**

**MOBILE/MANUFACTURED HOME STANDARDS DO NOT ALLOW INSTALLATION IN ROOMS DESIGNATED FOR SLEEPING.**

## **CAUTION**

**THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED.**

**MOBILE HOME INSTALLATION SHOULD BE DONE IN ACCORDANCE WITH THE MANUFACTURED HOME AND SAFETY STANDARD (HUD), CFR 3280, PART 24.**

## **CAUTION**

**KEEP COMBUSTIBLE MATERIALS (SUCH AS GRASS, LEAVES, ETC.) AT LEAST 3 FEET AWAY FROM THE FLUE OUTLET ON THE OUTSIDE OF THE BUILDING.**

## **CAUTION**

**A CHIMNEY CONNECTOR SHALL NOT PASS THROUGH AN ATTIC OR ROOF SPACE, CLOSET OR OTHER CONCEALED SPACE, A FLOOR, OR A CEILING.**

## **CAUTION**

**DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.**

# Assembly and Installation

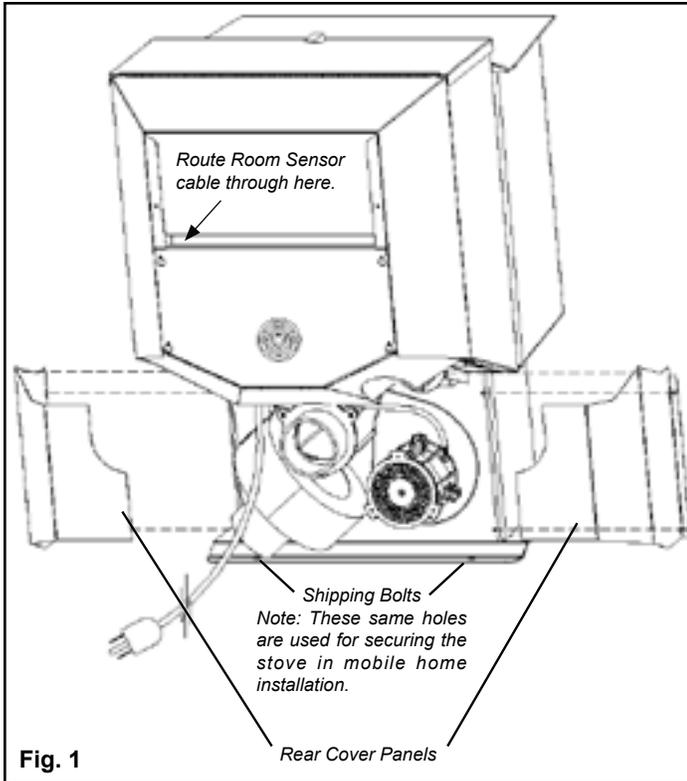


Fig. 1

## Room Sensor Installation

The room sensor (part #3-20-00906) is a small temperature sensor on the end of a 60" wire. This sensor is installed much like a standard wall thermostat. Use standard 18-2 thermostat wire to extend the distance 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 P38'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.

*The Room Sensor cable attaches to two bare terminals on the rear of the circuit board. These connections are not polarity specific.*



## Unpacking

The P38 is bolted (1/4 x 1" hex head bolts) to the skid to prevent movement during shipping.

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

## Removing rear cover panels

The rear cover panels are secured to the stove with three bolts each. Two of the bolts need only be loosened, not removed, to remove the panels. It is recommended that the rear covers are installed after the unit is in place and the vent pipe is installed, to prevent contact with hot or moving parts.

## Firebrick

Install the single firebrick horizontally on the angle bracket above the burnpot.

## Flame Guide

Install the cast iron flame guide on top of the burn pot. Make sure that the flame guide is fully seated on the vertical sides of the burn pot and that the back of the guide rests against the body of the stove.

**INSTALL EXHAUST VENT AT CLEARANCES SPECIFIED BY THE MANUFACTURER.** Most pellet vent pipe requires a minimum of 3" of clearance to combustible materials although some can be installed at 1" clearance.

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.

# 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 shut-down 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 V.A.C. 60Hz 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 10). 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 9.
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.

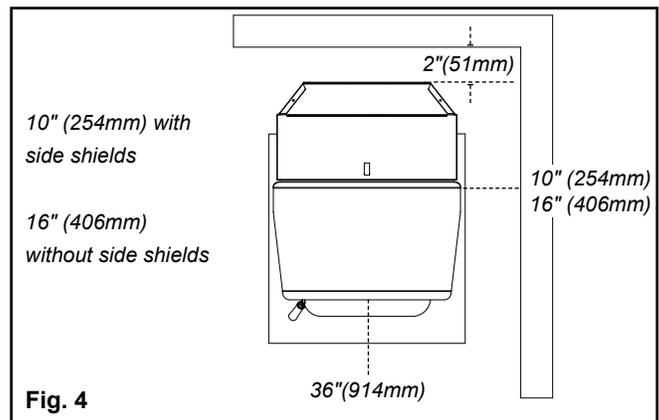
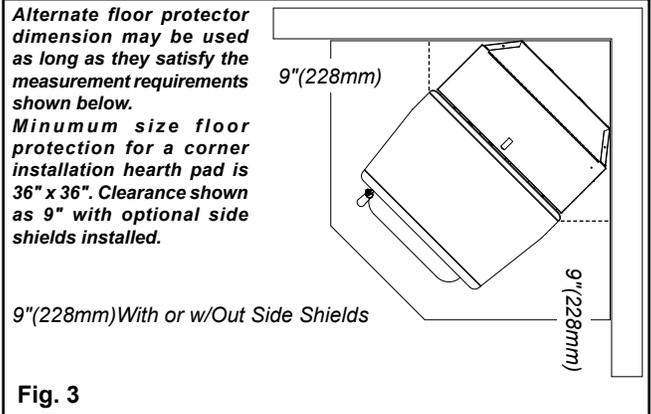
Young children should be carefully supervised when they are in the same room as the stove.

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

### WARNING

**THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED.**

**DO NOT INSTALL IN SLEEPING ROOM.**



Minimum Size floor protection (USA) is 32<sup>1/2</sup>" wide By 33" deep (825mm X 838mm).

\* 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.

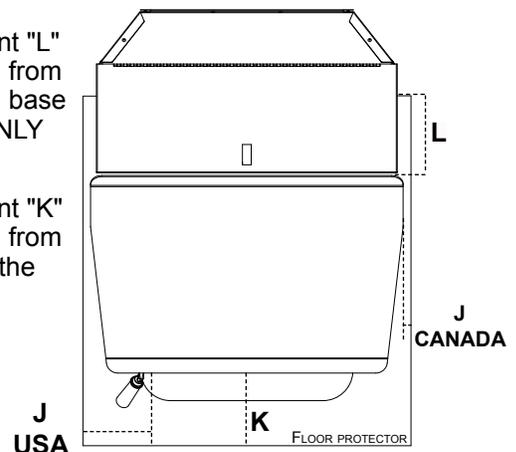
Floor Protection Requirements		US	Canada
<b>J</b>	Sides	6"	200mm
<b>K</b>	Front	6"	450mm
<b>L</b>	Rear	6"	200mm

## NOTE:

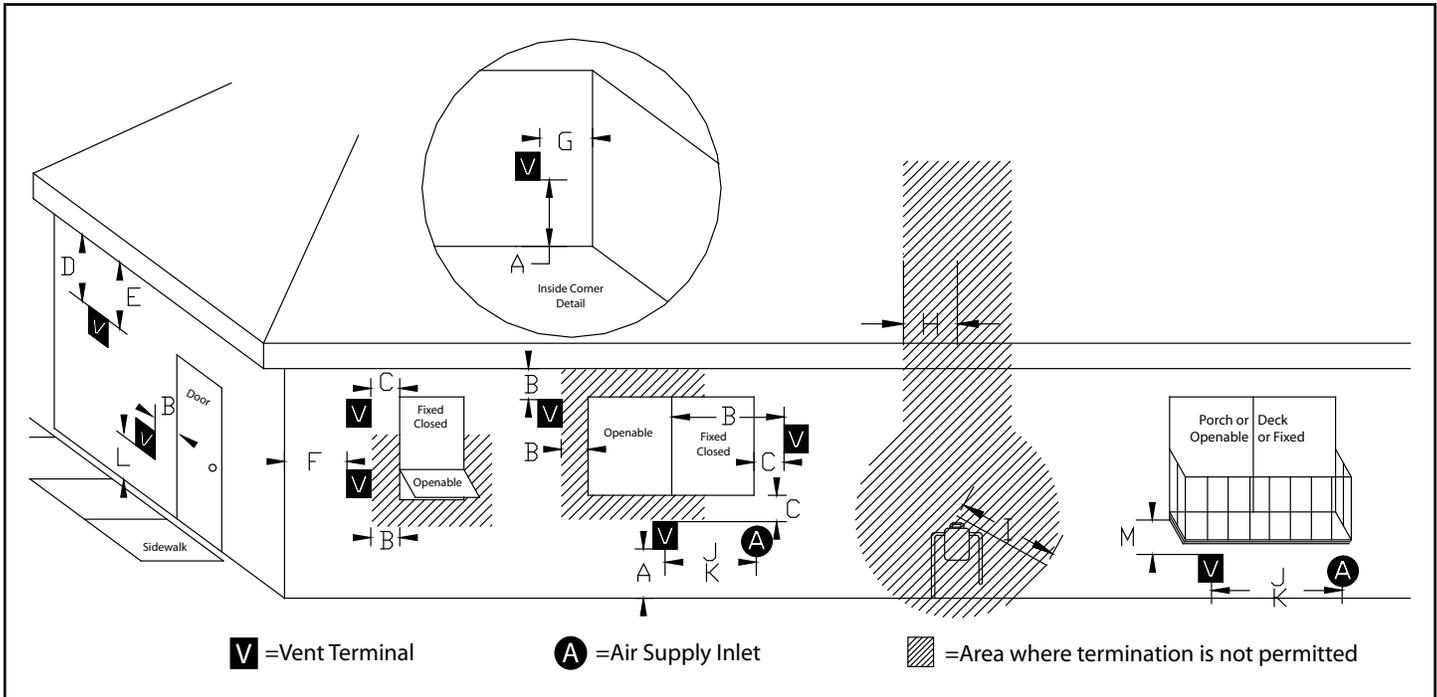
Measurement "L" is measured from the pedestal base in the US ONLY

## NOTE:

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



# Venting



## Requirements for Terminating the Venting

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

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

**NOTE:** Always take into consideration the effects of the prevailing wind direction or other wind currents that may cause flyash and/or smoke when placing the termination of the vent.

**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. (**with outside air installed, 9" to the side or below**)
- 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. (**with outside air installed, 6 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. (**B. also applies**)

**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.

**See NFPA 211 for more installation clearance reductions when using outside air.**

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

# Venting

## IMPORTANT NOTICE

Approved 3" or 4" Pellet Vent Pipe Such As, Type "PL", Must Be Used.

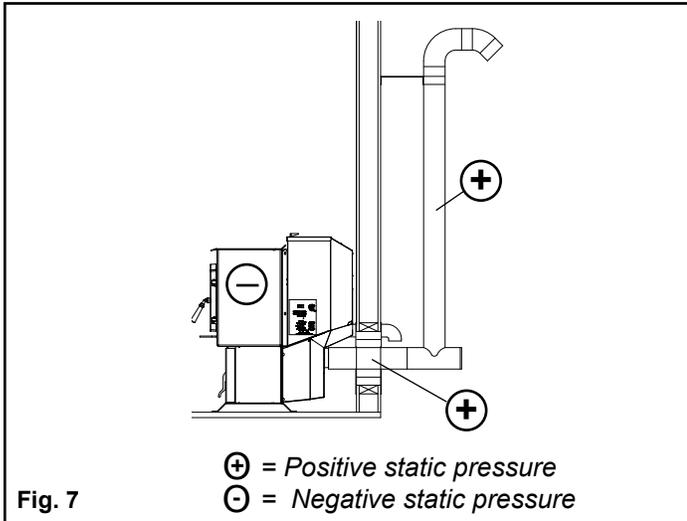


Fig. 7

## Venting

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 interior diameter should be increased from 3" to 4" because a larger pipe causes less flow resistance. **Be sure to use approved pellet vent pipe wall and ceiling pass-through fittings to go through combustible walls and ceilings. All joints for connector pipe must be fastened with a minimum of three screws and a termination cap must be installed. Follow pellet vent manufacturer instructions for properly securing each pellet vent joint. The pellet starting collar must be secured to the unit's flue collar.**

**A CHIMNEY CONNECTOR MAY NOT PASS THROUGH AN ATTIC OR ROOF SPACE, CLOSET OR SIMILAR CONCEALED SPACE, FLOOR, OR CEILING. REFERENCE LOCAL BUILDING CODES FOR DETAILS.**

## Vent Pipe

Pellet venting pipe (known as PL vent) is constructed of two layers with air space between the layers. This air space acts as an insulator and reduces the outside surface temperature to allow a clearance to combustibles of 1 inch. The sections of pipe lock together to form an air tight seal in most cases. However, in some cases a perfect seal is not achieved. For this reason and the fact that the unit operates with a positive vent pressure **we specify that the joints also be sealed with high temp (RTV) silicone.** Aluminum tape can also be used for any joint that is 1ft. or more from the outlet of the stove.

**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.**

**INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER**

**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**

## CAUTION

**DO NOT USE MAKESHIFT COMPROMISES WHEN INSTALLING THIS APPLIANCE. DAMAGE AND/OR INJURY MAY RESULT.**

## Avoiding Smoke and Odors

### Negative Pressure, Shut-down, and Power Failure:

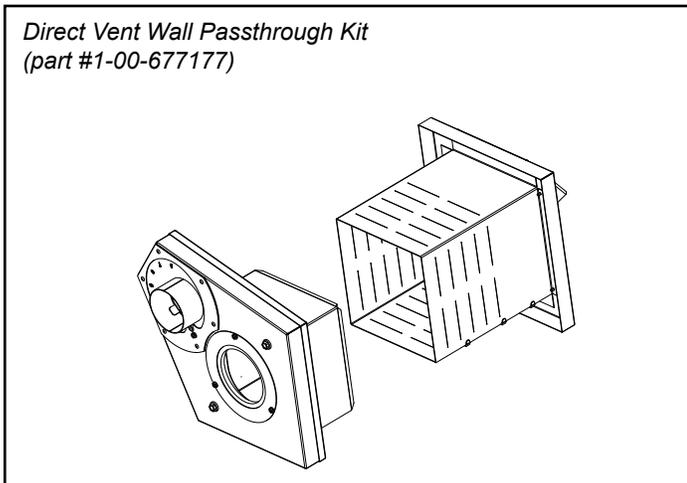
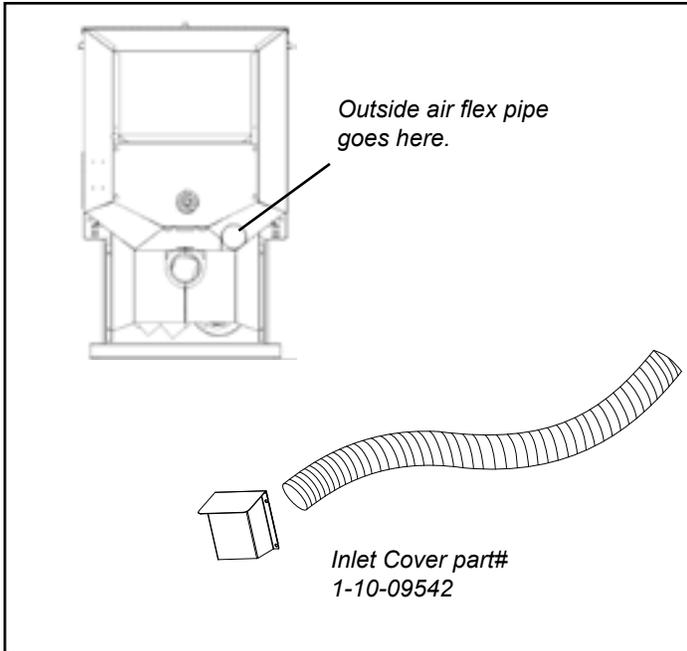
To reduce the probability of back-drafting or burn-back in the pellet burning appliance during power failure or shut-down conditions, the stove must be able to draft naturally without exhaust blower operation. Negative pressure in the house will resist this natural draft if not accounted for in the pellet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

### Outside Air:

**Hearth & Home Technologies strongly recommends attaching outside air in all installations, especially lower level and main floor locations.**

# Venting



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 back-drafting of those 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 towards the prevailing wind direction during the heating season.

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

To install outside air use 3" non-combustible flex pipe. There is a break-away hole on the rear panel of the stove which must be removed before connecting the flex pipe. The pipe should be run outside and terminate to the side or below the vent pipe outlet so the flue outlet is more than 12" from the inlet cover. The maximum length run of this pipe is 15 feet. Inlet cover, part number 1-10-09542 should be used to keep birds, rodents, etc. out of the pipe.

You may choose to use the optional Direct Vent Wall Passthrough Kit (part #1-00-677177) which incorporates the venting passthrough and outside air inlet into one component.

## Vent Configurations:

To reduce probability of reverse drafting during shut-down conditions, Hearth & Home Technologies strongly recommends:

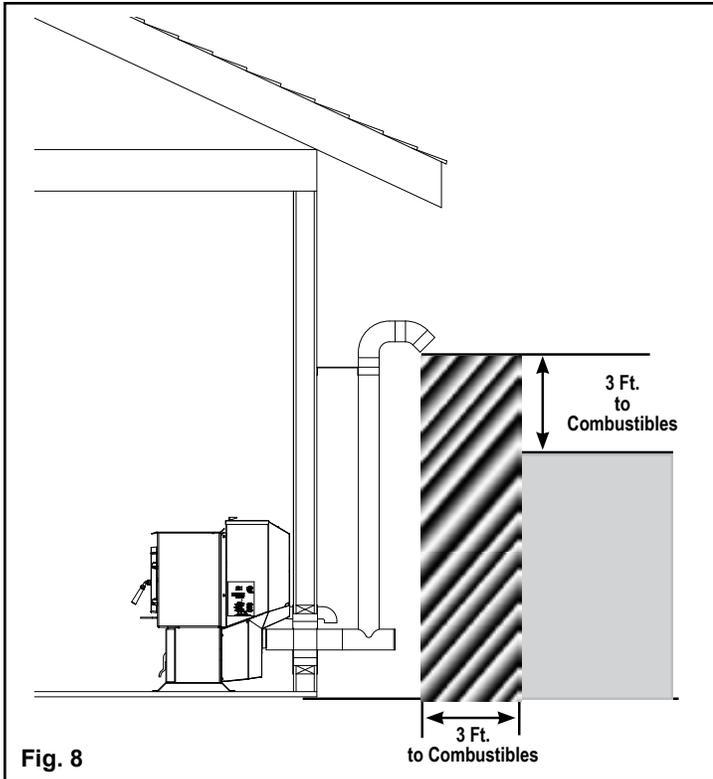
- Installing the pellet vent with a minimum vertical run of five feet, preferably terminating above the roof line.
- Installing the outside air intake at least four feet below the vent termination.

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

- Maintain specified clearances to windows, doors, and air inlets, including air conditioners.
- Vents should not be placed below ventilated soffits. Run the vent above the roof.
- Avoid venting into alcove locations.
- Vents should not terminate under overhangs, decks or onto covered porches.
- Maintain minimum clearance of 12 inches 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.

**Hearth & Home Technologies assumes no responsibility for, nor does the warranty extend to, smoke damage caused by reverse drafting of pellet appliances under shut-down or power failure conditions.**

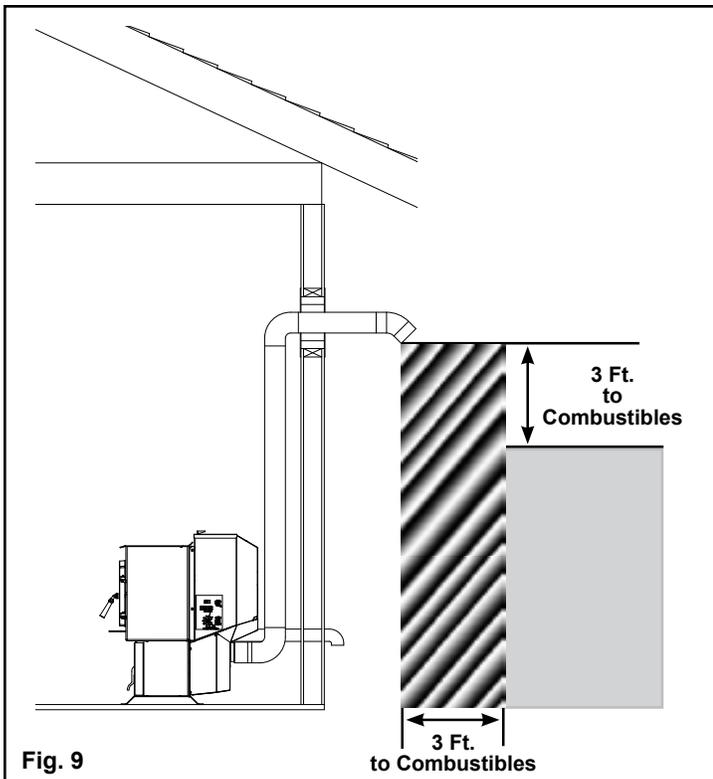
# Venting



## #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 provide natural draft in the event of a power failure.

**Note: Do not place joints within wall pass-throughs.**



## #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 provide natural draft in the event of a power failure.

If the stove is installed below grade be sure the vent termination is at least 12" above grade. The outlet must also be 1 foot from the house/building.

**Note: Do not place joints within wall pass-throughs.**



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

# Venting

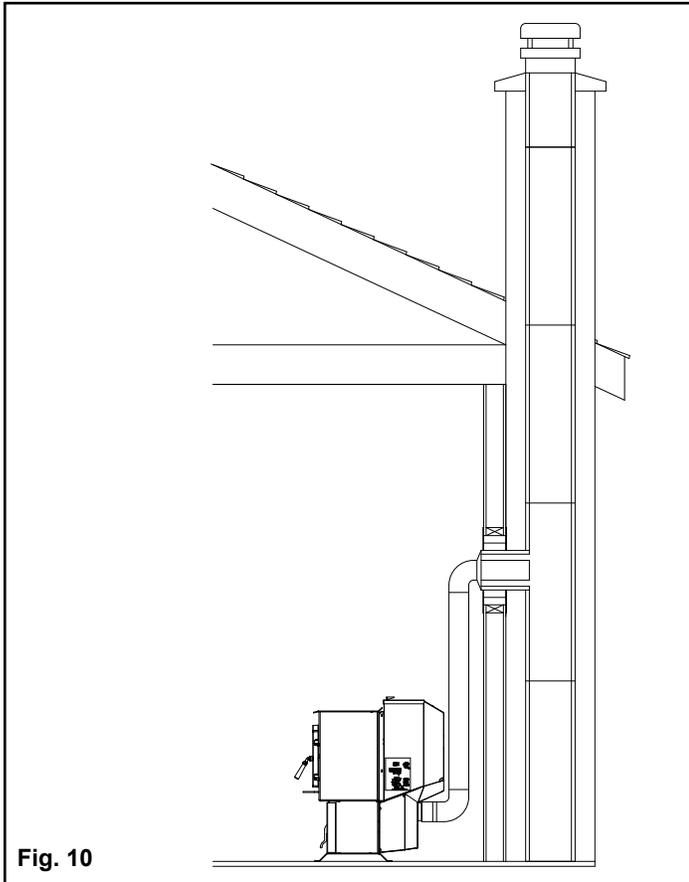


Fig. 10

## #4 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 #7.

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.

\*The chimney should be inspected and cleaned before installing your stove. If you discover that the chimney does not have a clay tile liner or has cracks or flaking of the tile liner you will need to install a stainless steel liner within the chimney. In most cases the inside diameter of this liner should be 4". Either flexible or rigid liner may be used for this purpose. Refer to Method 6 & 7.

Be sure to design the venting so that it can be easily cleaned.

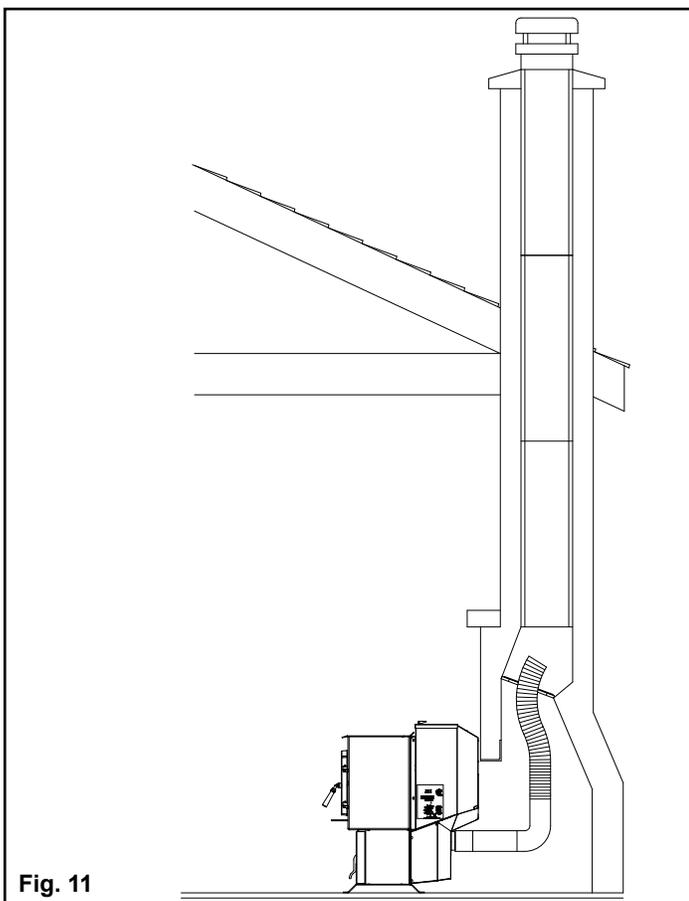


Fig. 11

## #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. If the chimney condition is questionable\* you may want to install a liner as in method #6.

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.

\*The chimney should be inspected and cleaned before installing your stove. If you discover that the chimney does not have a clay tile liner or has cracks or flaking of the tile liner you will need to install a stainless steel liner within the chimney. In most cases the inside diameter of this liner should be 4". Either flexible or rigid liner may be used for this purpose. Refer to Method 6 & 7.

The chimney should be sealed at the damper using 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.

Be sure to design the venting so that it can be easily cleaned.

# Venting

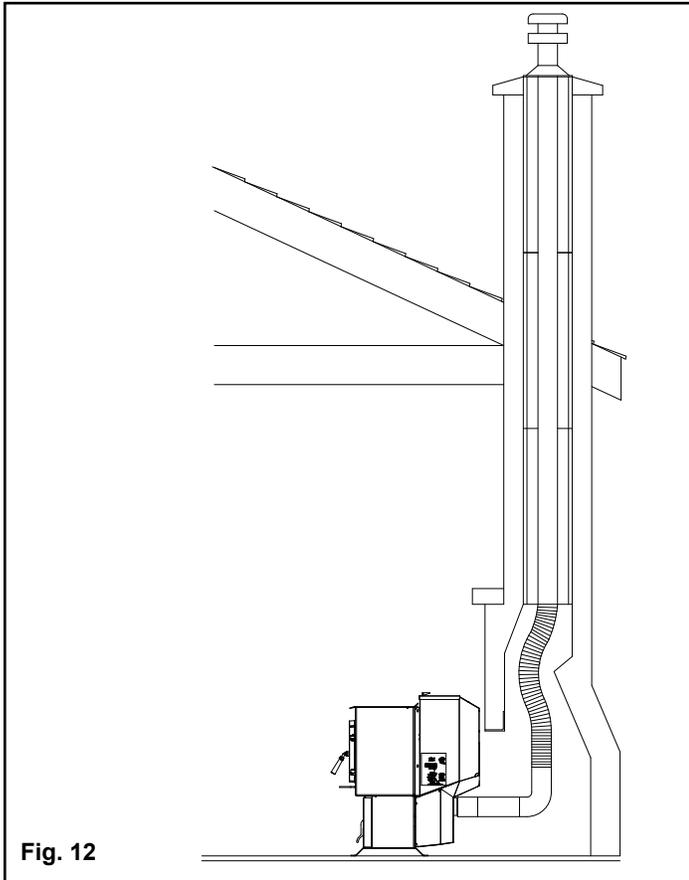


Fig. 12

## #6 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. 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. Be sure to use approved pellet vent pipe fittings. Seal pipe joints with silicone or aluminum tape in addition to the sealing system used by the manufacturer. Pipe size should be increased to 4" using this method.

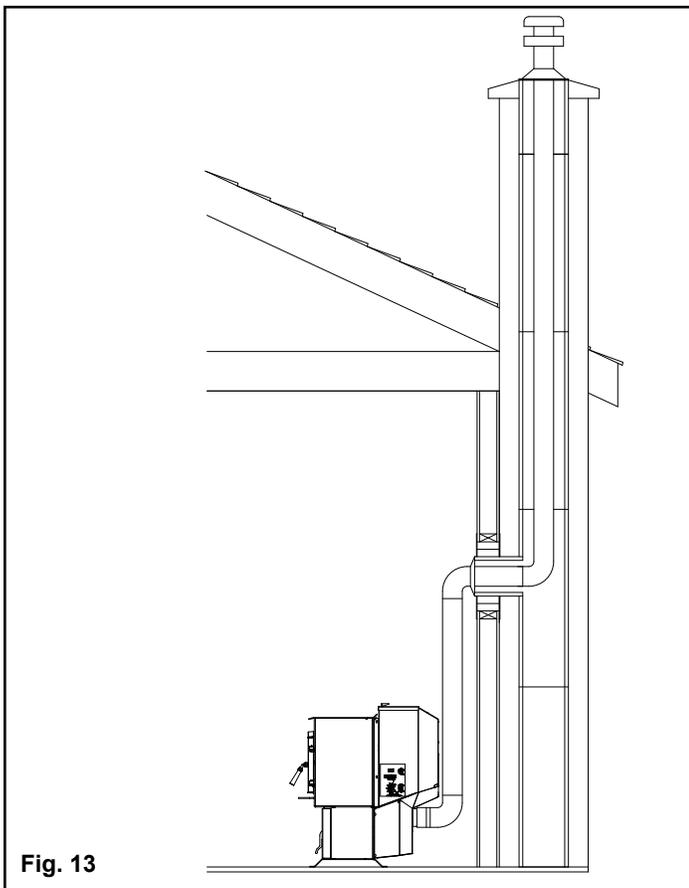


Fig. 13

## #7 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. 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.

# Venting

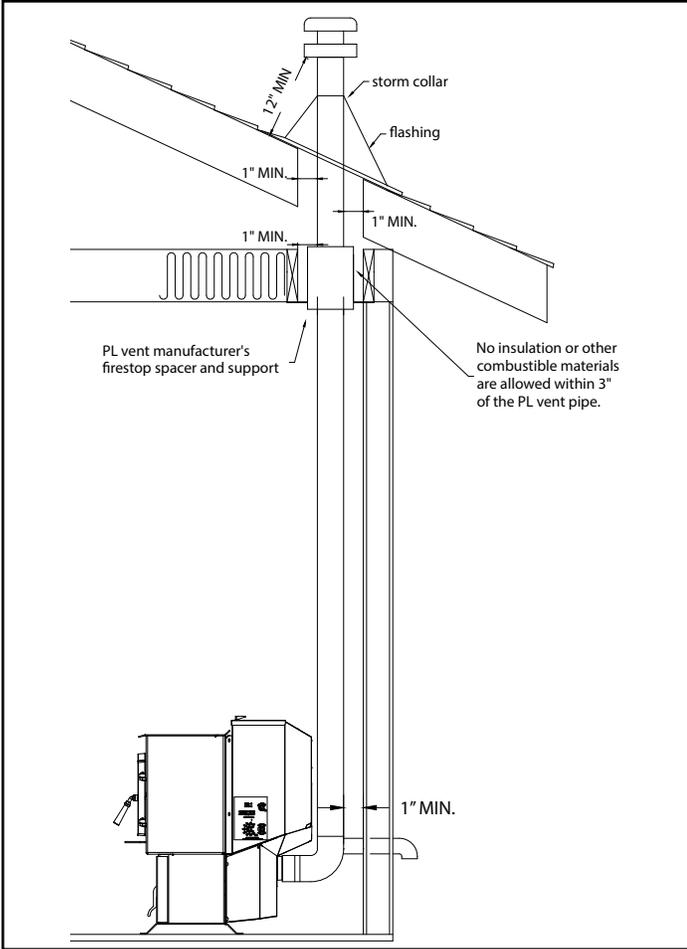


Fig. 14

## #8 Installing through the ceiling

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

**Note: Do not place joints within wall pass-throughs.**

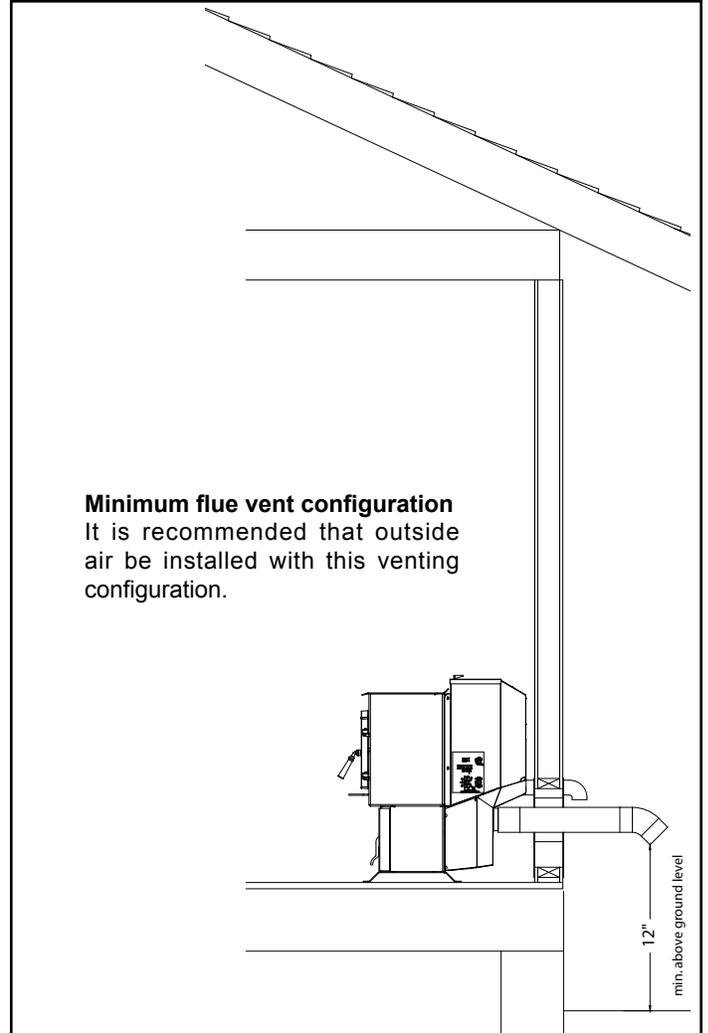


Fig. 15

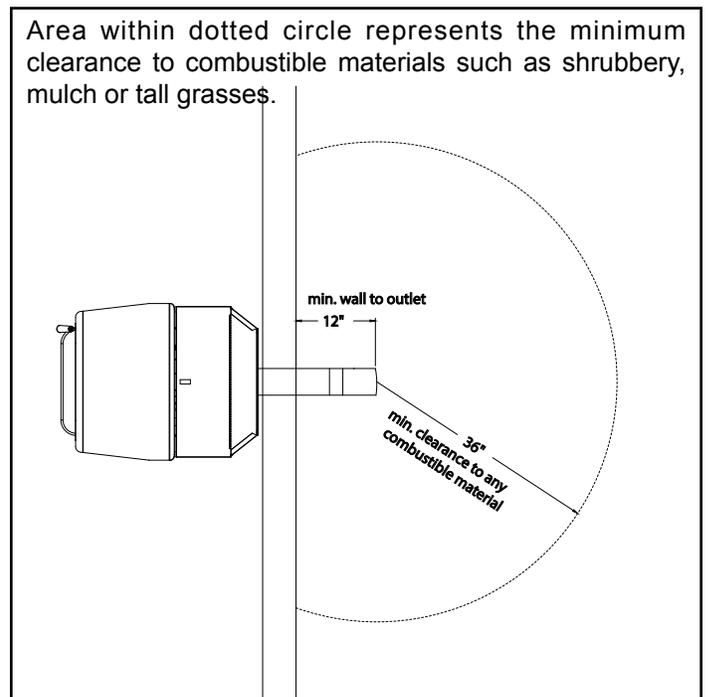


Fig. 16

# ESP Control

## Power Light

Indicates power to the control.

## Status Light

Will be lit in either stove or room temp mode when pointer is not within off position band except after normal shut down. Blinks to indicate errors listed below.

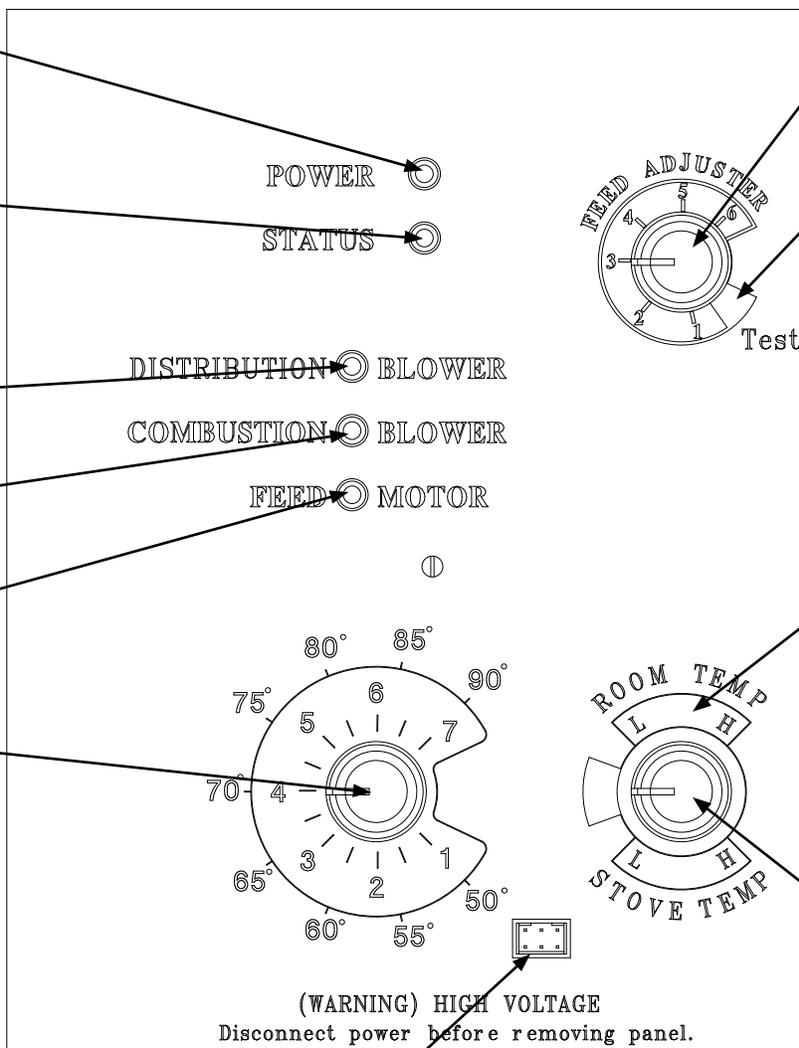
Indicates power to the distribution blower.

Indicates power to the combustion blower

Indicates power to the feed motor.

## Temperature Dial;

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.



## Feed adjuster

Sets the maximum feed rate

## Test

Runs all motors at full speed for one minute to check operation. Afterwards, the control will simulate a minimum burn and the combustion blower will remain on low for draft test convenience.

## Distribution Blower speed adjustment range.

L = low  
H = high

Variable speed anywhere between L and H; although as the stove temp. goes up, so does the low end of the scale.

## Mode Selector

Allows you to choose between Room Temp Mode, Stove Temp Mode, or OFF. Also allows you to vary the distribution blower speed by turning the knob to the high or low side of each mode.

## Dealer Diagnostic Port

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

## Status Light Error Messages

**3-Blinks:** Indicates that the ESP has gone out of range too many times. Could be an indicator of build up of ash, etc. in the flue pipe or heat exchange. Perform a Manual Reset.

**4-Blinks:** Indicates that the room sensor circuit is not complete. May mean a poor connection or short in the sensor wire. (Will only occur in "Room Temp" mode.)

**6-Blinks:** Indicates the control has measured incomplete combustion occurring for more than 25 minutes. This error may be set if the feed system runs out of fuel. Turn the control to "OFF" and back to the desired mode to resume operation. If the lack of fuel was not the cause, refer to the troubleshooting section.

**Manual Reset:** Turn the mode selector to "OFF", and disconnect power for a second. Restore power and return to original setting.

# Operation

The P38+ features two operating modes; **Stove Temperature Mode** and **Room Temperature Mode**. In Stove Temperature Mode, you select a burn rate and the stove will remain at the same burn rate regardless of the room temperature.

In the Room Temperature Mode, with the optional room sensor attached, the stove constantly monitors the temperature in the room and adjusts the size of the fire and the heat output of the stove so that the room is kept at a constant temperature.

## Room Temperature Mode

Most consumers use the stove in the Room Temperature Mode because it is the easiest and most efficient method of keeping the room at a given temperature. In the Room Temperature Mode, the Room Sensing Probe constantly monitors room temperature. As the weather changes outside and your home needs varying amounts of heat to be at a desired temperature, the stove will automatically increase fire size and heat output so that a constant even temperature is maintained. If the weather warms up and no heat is required, the stove will gradually slow down and hold at the minimum burn rate. When the house cools down, the stove will automatically bring the room temperature to the precise temperature you desire.

In the Room Temperature Mode, the distribution blower speed can be increased or decreased by adjusting the Room Temp/Off/Stove Temp dial between L and H. As output of the stove increases, the speed of the blower will increase automatically to insure that more heat is transferred into the room.



## CAUTION

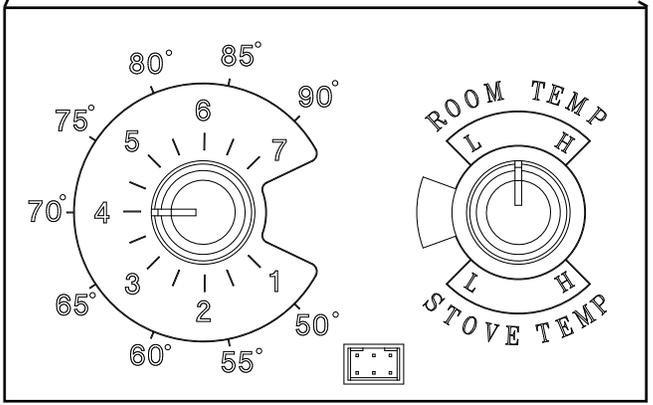
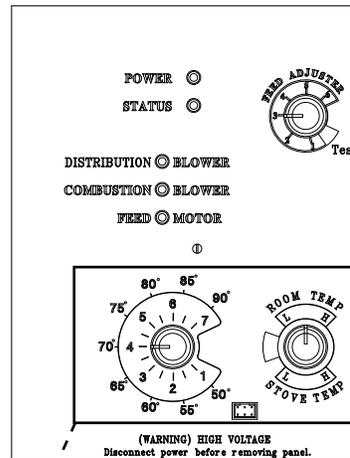
**DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.**

**DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA, 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.**

## Room Temperature Mode



**Room Temperature Mode:** This setting, see above, will produce a room temperature of 70 degrees with the distribution blower at medium speed.



## CAUTION

**DO NOT USE CHEMICALS OR FLUIDS TO START THE FIRE. FOR EXAMPLE: 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 IT IS IN USE.**

# Operation

## Stove Temperature Mode

In the Stove Temperature Mode, the stove can be adjusted to the desired setting using the same temperature control dial as is used in the Room Temperature Mode. The heat output and fuel consumption will remain constant regardless of room temperature. The settings from 1 to 7 on the inner ring of the temperature dial provide for relative heat output settings with 1 being low and 7 being the maximum.

Never pull the plug to shut down the stove. This will stop the combustion blower and smoke will escape through window and door gaskets.

## Feed Adjuster Knob

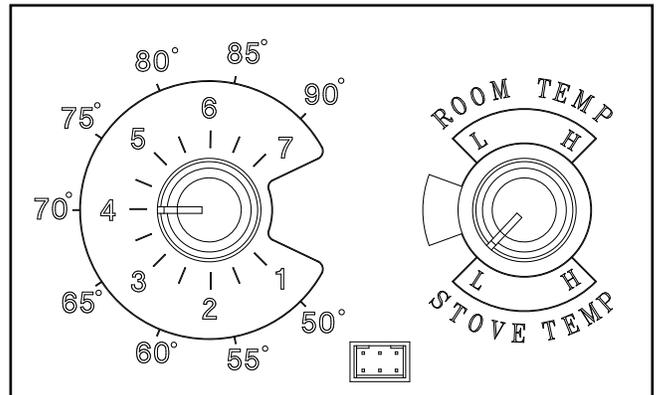
For most premium grade pellet fuels the Feed Adjuster Knob should be set at 4. If higher ash fuels are used the setting should be increased to 5 or 6. Also higher settings are required if you would like to get the maximum heat output from the stove. At the maximum burn rate (with the temperature dial on 7/90° and the feed adjuster at 6) there should be 1" or more of ash on the front of the burn pot. If there is less than 1" of ash, turn the feed adjuster knob down to a lower setting.

## Shut Down Procedure

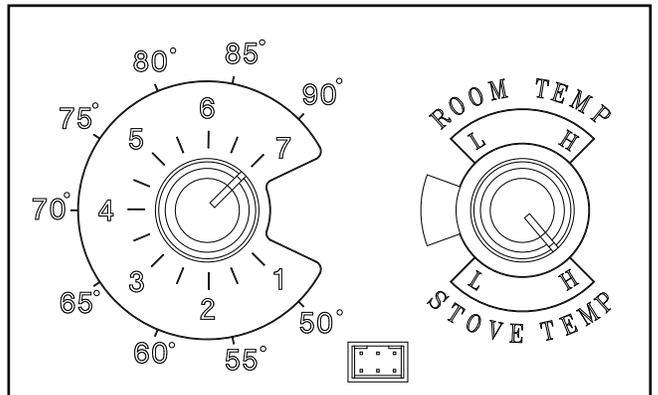
The best way to shut down the stove is to simply let it run out of pellets. The stove will shut down automatically. Alternatively, you can turn the Mode Selector to "off". This will cause the fire to gradually die down and go out. The fire will not go out immediately and may take more than an hour to fully shut down, depending on the burn rate.

If the stove is left to run out of fuel, you may get a 6 blink status light. If this happens, simply reset the control board by turning the mode selector to OFF and back ON.

## Stove Temperature Mode



*The setting above will produce continuous medium heat output with the distribution blower at low speed.*



*The setting above will produce continuous maximum heat output with the distribution blower at full speed.*



## CAUTION

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

# Operation

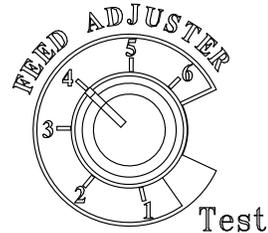


Fig. 17

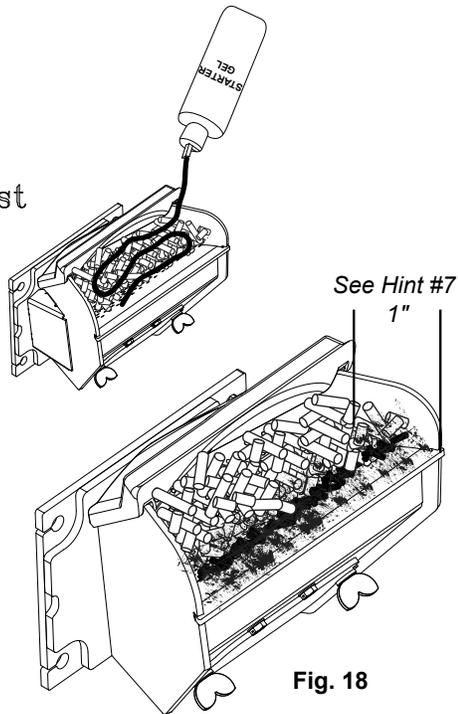


Fig. 18

## Starting First Fire

Make sure the unit is plugged into a 100 VAC, 50 Hz electrical source. The power light should be the only light lit.

**NOTICE:** Be sure there is no unburned fuel or other combustibles in the ash pan prior to lighting.

1. Turn **FEED ADJUSTER** to desired feed rate. No. 4 is good for most pellets.
2. Turn the **MODE SELECTOR** to "OFF" and then to the desired mode. This will reset control and start the combustion motor.
3. Turn the **TEMPERATURE DIAL** to the desired setting.
4. Clean burn pot with scraper if necessary.
5. Fill burn pot with pellets, only level with front edge. (Do Not Over Fill).
6. Add starting gel on top of the pellets. Stir gel into pellets for fast lighting.
7. Light starting gel with a match, and close the door. Operation will begin when the fire reaches the proper temperature.
8. Fill hopper with pellets and remove ashes as required.

**KEEP THE APPLIANCE DOORS AND HOPPER LID CLOSED DURING OPERATION.**

1. Fines are small pieces of broken pellets (sawdust). Fines do not flow easily and often build up on the hopper funnel bottom angles. You can push these fines into the feeder opening and then fill the hopper with pellets. As the system works, they will be burned. Or you can clean them out before filling the hopper.
2. The "TEST" cycle will operate the feeder motor for exactly one minute. Turning to "TEST" again and again may load too much fuel into the burn pot causing excessive smoke on start-up.
3. The firebox low pressure switch will not allow the auger motor to operate if the view door or the ash pan door are open.
4. Adjust Feed Rate. If this is your first fire or you are trying different pellets, set the feed adjuster to #4, Fig. 17. This is a conservative number and will probably need to be increased. After you know a feed rate setting that works well, use that setting. Remember, if your feed rate is too high you may waste fuel.
5. This is usually a weekly maintenance procedure. Cleaning the burn pot with the scraper with a small amount of new fuel in the bottom is not a problem. First, scrape the ashes off the front of the burn pot into the ash pan. Then, scrape the top surface of the burn pot downward into the base of the burn pot. When the stove is ignited these scrapings will be pushed out by the feeder and burned.
6. The ash pan can hold the ashes from approximately 1 ton of premium fuel. This means the ashes will only need to be emptied a few times a year.
7. Allow the unit to burn for about 30 minutes and check ash on front of burn pot. Fig. 18. If the ash line is larger than 1", turn the feed adjuster from #4 to #5. Allow another 30 minutes of burn time and check again. If, at #6 setting, a 1" or less ash bed is not obtainable, it is not a problem. The 1" ash bed is only a maximum burn rate and at most normal settings the ash bed will be larger.

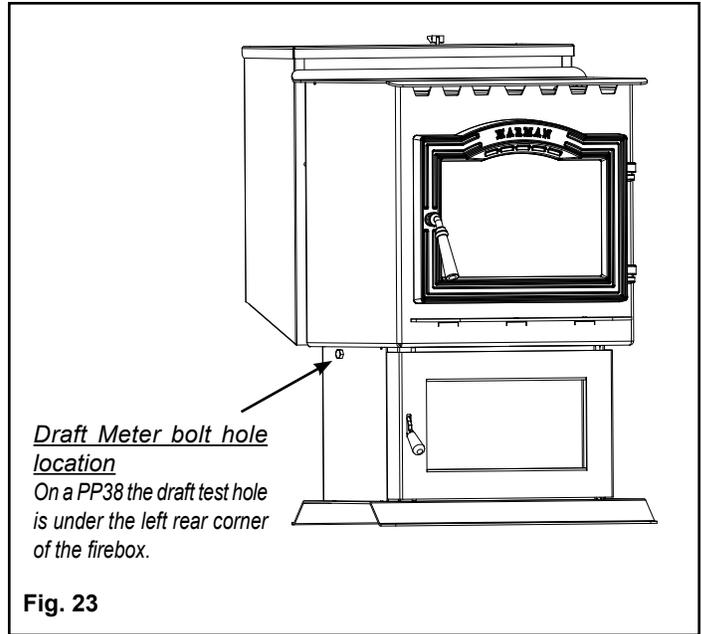
# Draft Test Procedure

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

1. Plug the unit into a 100 VAC, 50 Hz outlet.
2. Close the hopper lid, front view door, and the ash pan. Neither pellets or a fire are required for this test.
3. With the mode selector in the "OFF" position, turn the feed adjuster to "TEST".
4. Record the high draft \_\_\_\_\_ in W.C. (Normal is -.50 to -.60) The control will be on the High Draft for a minute.
5. After 1 minute, 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.
6. If the low draft is between -.25 and -.35, record the reading \_\_\_\_\_ in W.C.

If the reading is lower, check for resistance in the venting configuration. Too many elbows, or excessive horizontal runs will add resistance. Also, be sure the doors and hopper lid are properly secured.

As long as the draft reading drops when the combustion blower goes to low speed, higher readings are not an issue. Long vertical runs can actually increase the readings due to the addition of natural draft. If the draft reading does not drop, there is likely restriction on the air intake. Be sure the intake flapper is opening and check for resistance in the outside air conduit if installed.



# Maintenance

## Minimizing Creosote:

Whenever wood is burned slowly, the potential exists for creosote to form in the venting. The chimney or venting system should be inspected periodically throughout the heating season to determine if a creosote buildup 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. A professional chimney sweep is recommended, since they would normally have the correct equipment to ensure proper creosote removal.

**If you experience a fire in the venting system**, turn the stove to "OFF" to allow the unit to shut down. Call the fire department, and be sure everyone is out of the residence. Before re-using the appliance, have it, and the venting system thoroughly inspected and replace any damaged components.

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

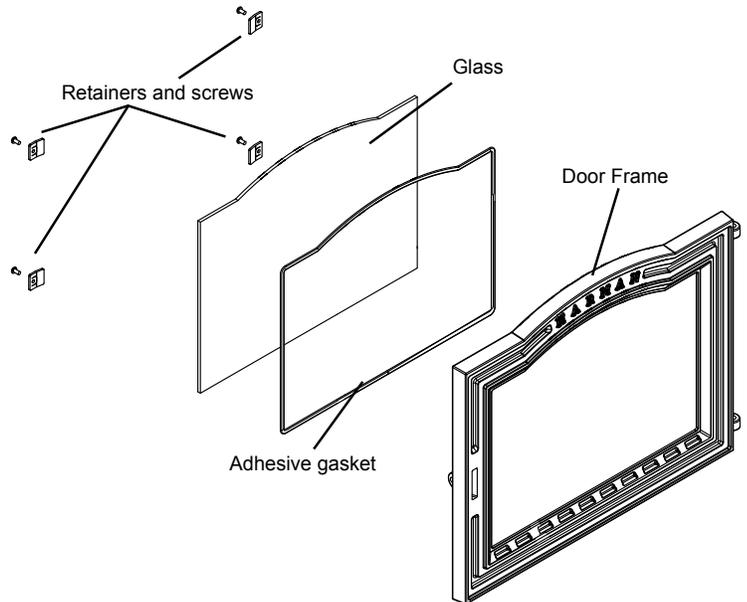
- Do not abuse the glass by striking or slamming the door.
- Never burn the appliance if the door glass is cracked or broken.
- Replace only with Harman supplied glass. Do NOT Use Substitutes.

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.



## WARNING



**INSPECT APPLIANCE AND COMPONENTS FOR DAMAGE. DAMAGED PARTS MAY IMPAIR SAFE OPERATION.**

- DO NOT INSTALL DAMAGED COMPONENTS.
- DO NOT INSTALL INCOMPLETE COMPONENTS.
- DO NOT INSTALL SUBSTITUTE COMPONENTS.

**REPORT DAMAGED PARTS TO DEALER.**

## WARNING



**FIRE RISK.**

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

- **INSTALLATION AND USE OF ANY DAMAGED APPLIANCE.**
- **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.**

# Maintenance

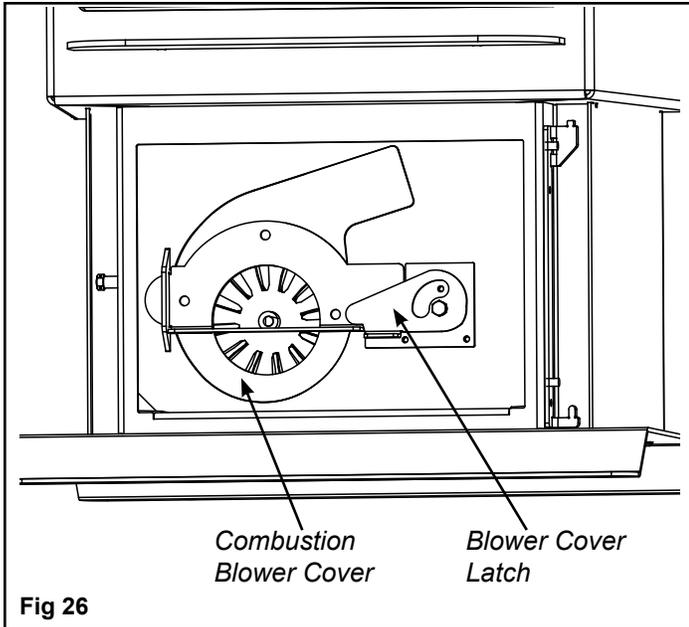


Fig 26

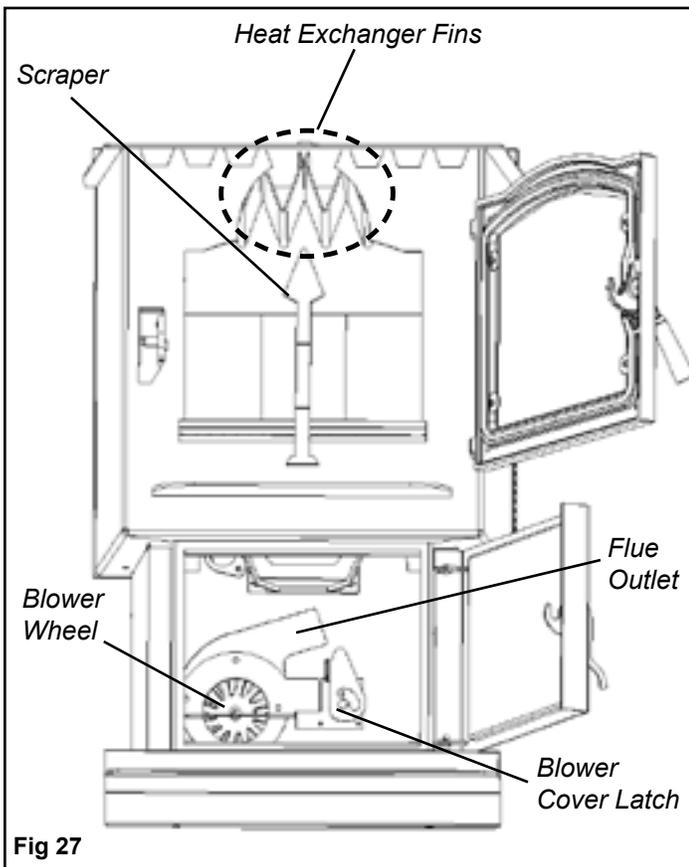


Fig 27

## Scraping the burn pot:

Whenever adding fuel to the hopper, take the time and scrape the grate surface of the burnpot, using the scraper tool provided. This can be done while a fire is burning.

Wearing heat resistant gloves, open the firebox door. Scrape any accumulated ashes from in front of the fire, into the ash pan. Now, scrape under the fire, in a downward direction, to loosen any carbon deposits. Do not scrape the fire out of the pot. Whatever you loosen will be pushed out with the flow of new fuel into the pot.

## Removing Ashes:

After approximately 1 ton of pellets has been burned, it will be necessary to empty the ash pan.

**Disposal of Ashes-** Ashes should be placed in a steel container with a tight fitting lid. The closed container of ashes should be moved outdoors immediately and placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have been thoroughly cooled. Other waste shall not be placed in this container.

## Cleaning:

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

1. Lift the latch handle to open the ash door and remove the ash pan. Use ash pan handle to carry and dispose of ashes.
2. Slide the ash pan back into the stove and latch the door by pushing down on the latch handle when closed.

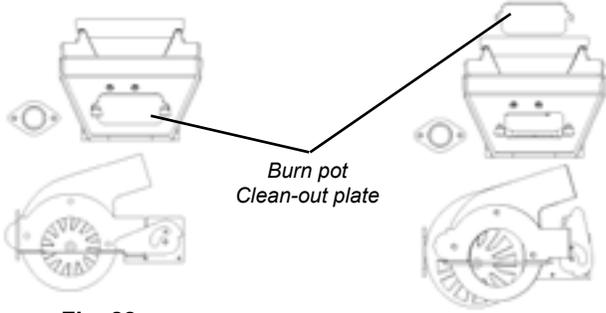
## Cleaning:

The stove should be shut-down and thoroughly cleaned after each ton of pellets consumed. The cleaner the stove, the more efficient it will be.

**Note:** Fuel with higher ash and/or moisture content will require more frequent cleanings.

1. Shut down the stove and **disconnect power cord** to insure that all motors are stopped.
2. Clean heat exchanger with scraper as shown in fig 27.
3. Brush or scrape the inside of the stove to remove fly ash.
4. Scrape burnpot with flat end of scraper provided with the stove. Inspect the holes on the burnpot surface. See Fig. 33.
5. Open burn pot clean-out. Clean fly ash from burn pot and replace cover.

# Maintenance

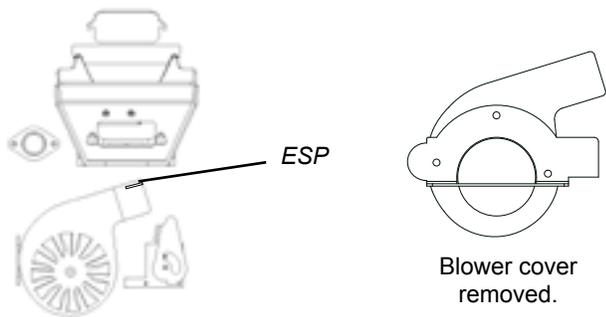


**Fig. 28**

Latch "closed" with blower cover in place. Burn pot clean-out is closed.

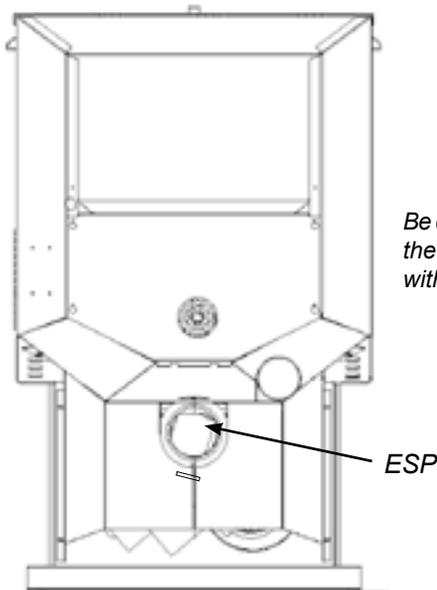
**Fig. 29**

Latch "open" with blower cover partly removed. Burn pot clean-out is open.



**Fig. 30**

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



**Fig. 31**

*Be careful not to damage the ESP when cleaning with brush.*

6. Remove the ash pan and properly dispose of the ashes.
7. Remove combustion blower cover by turning the blower cover latch vertical, see Fig.26. Sliding the cover out of the slot on the left. This will expose the combustion blower wheel and flue outlet, Fig.27.
8. Clean the combustion blower wheel with a brush and a vacuum cleaner. Note: Do not use a household vacuum to clean the stove. We recommend that you use a shop vacuum that is equipped with a fine dust filter called a HEPA filter or a vacuum specially made for ashes and soot. **Using a vacuum which is not equipped with a fine dust filter may clog and disperse fly ash and soot into the room.**

**NOTE: THE STOVE MUST BE COMPLETELY OUT BEFORE YOU VACUUM THE STOVE. LIVE PELLETS, IF SUCKED INTO THE VACUUM WILL LIGHT THE VACUUM ON FIRE AND MAY ULTIMATELY CAUSE A HOUSE FIRE.**

9. Use a brush to clean the flue, being careful not to damage the ESP, see Fig. 30. The flue goes straight through into the vent pipe (Fig.27) therefore, the vent pipe can also be cleaned, to some extent, through the flue outlet.
10. Reinstall the blower cover and close the latch.
11. Slide the ash pan into stove and latch the door.

## Soot and Fly Ash

**Formation and Need for Removal** - The products of combustion will contain small particles of flyash. The flyash 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 at least once every year to determine if cleaning is necessary.**

Removing fly ash and soot improves efficiency and insures that the flue venting passageway is clear and unobstructed. The stove should be cleaned after each ton of pellets (50 bags) and the venting system inspected and cleaned after each heating season.

# Maintenance - Burn Pot

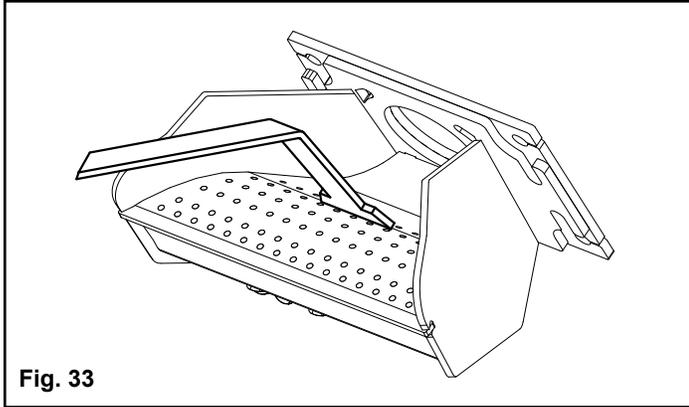


Fig. 33

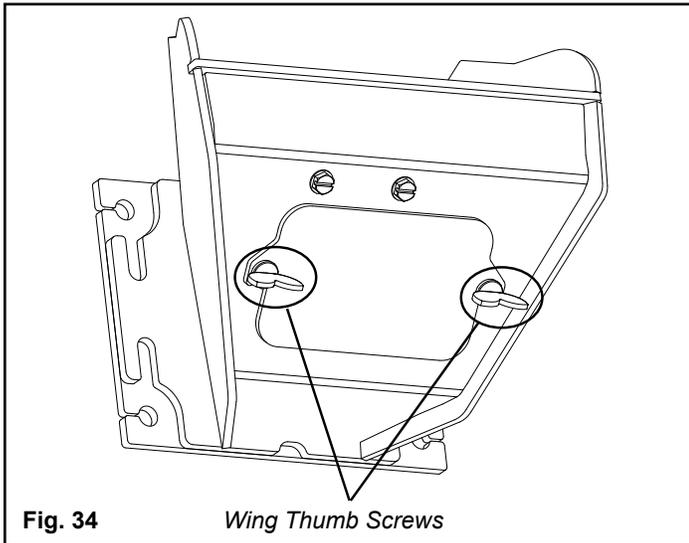


Fig. 34

Wing Thumb Screws

## **Burn Pot Cleaning and Maintenance**

1. Scrape the top holed surface and sides of the burn pot. (Fig 33) It is not necessary to completely remove all material from the burn pot. The excess will be pushed out during the next use.



**DANGER**

**Disconnect the power to the unit before removing cover.**

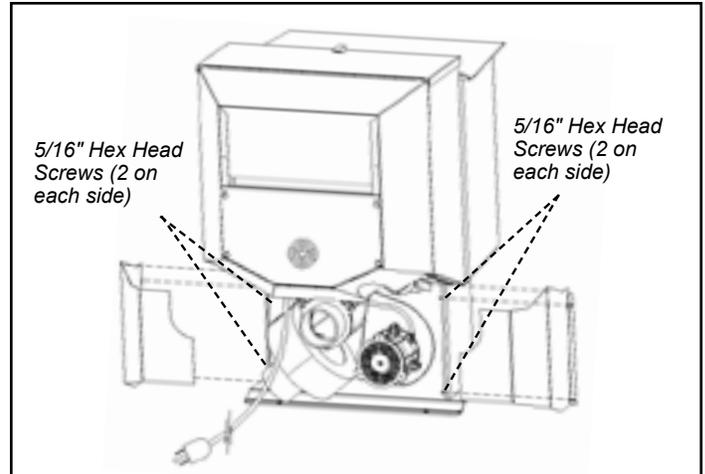
2. Loosen the (2) wing thumb screws on the lower front angle of the burn pot. (Fig. 34)
3. Lift off the clean-out cover to open the bottom clean-out chamber.
4. Clean ash buildup from inside the chamber while cover is off. Use the scraper to tap on the top front edge of the burn pot. This will help knock pieces of ash, loosened by the scraping process, down through the holes.
5. Be sure the cover is in place on the screws and hand-tighten the wing screws.

# Maintenance - Cleaning the Feeder Body

Pellet fines may accumulate in the feeder body over a period of time; therefore, a yearly inspection and cleaning of this area must be performed.

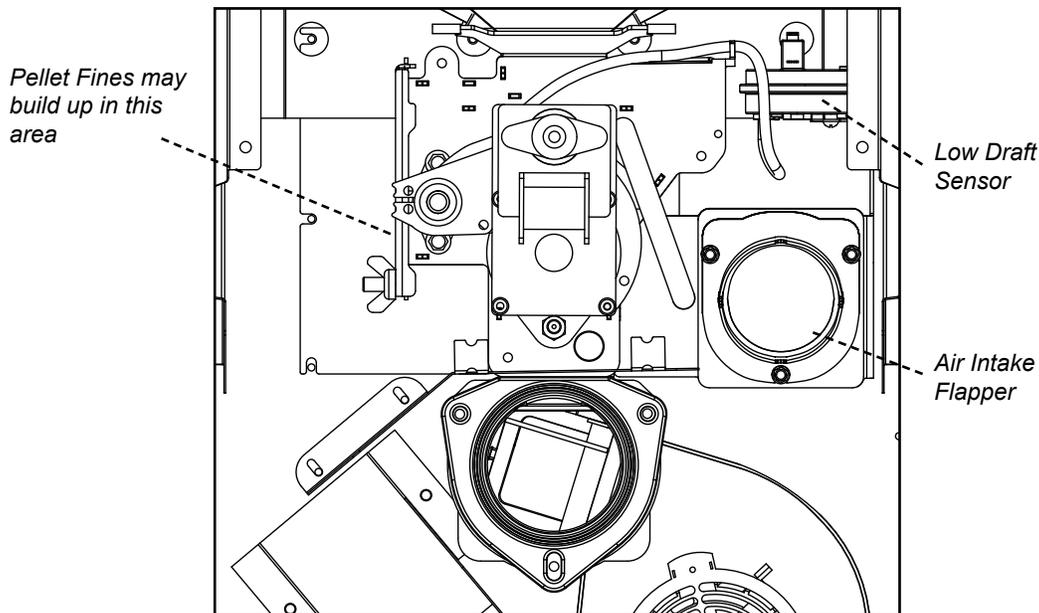
To clean out fines:

1. Remove the rear cover panels.
2. Remove wing nut and feeder cover on the side of the feeder.
3. Use a vacuum cleaner to remove all fines.
4. Reinstall feed cover, wing nut, and rear cover panels.



## 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 will result in an interruption of power to the feeder motor. 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. During a feed cycle, if this switch were to open, the feed motor light on the control will stay illuminated with the power being interrupted by the switch. If the switch opens when the cycle is at rest, the power light for the feed motor will not illuminate. Be sure all doors, including the hopper lid, are securely closed when operating the appliance.



# Trouble-Shooting

## STOVE DOES NOT FEED

1. No fuel in hopper.
2. Firebox draft may be too low for sensing switch in feeder circuit to operate. **Check for closed doors**, loose or missing gasket on doors or hopper lid.
3. Feed motor will not run until the ESP control senses a certain temperature. Maybe you did not put enough fuel or starting gel in the burn pot before manually lighting the fire.
4. Restriction in the hopper or feeder. Remove all fuel and examine. Clear the obstruction.
5. Feed motor has failed.

## PARTIALLY BURNED PELLETS

1. Feed rate too high.
2. Poor air to fuel mixture. (Check burn pot clean-out cover and air intake).
3. Burn pot or heat exchanger tubes 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 inlet cover 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. Fuel restrictions as noted above.

## SMOKE SMELL

Seal the vent pipe joints and connection to stove with silicone. The exhaust vent is the only part of the system that is under positive pressure.

### FIRE HAS GONE OUT- Check for status light.

1. No fuel in hopper.
2. Draft is too low, blocked flue.
3. Something is restricting fuel flow.
4. Hopper lid not closed properly.
5. Feed motor or combustion blower has failed.

## 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.

## LOW HEAT OUTPUT

1. Feed rate too low
2. Draft too low because of gasket leak.
3. Poor quality or damp pellets
4. Combination of 1 and 2.

---

## 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 floor and sides of the burn pot. 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 (#4) is recommended when maximum heat output is not required. The ESP control prevents the stove from being over-fired.

Keep the stove free of dust and dirt.

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## Fuel

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.

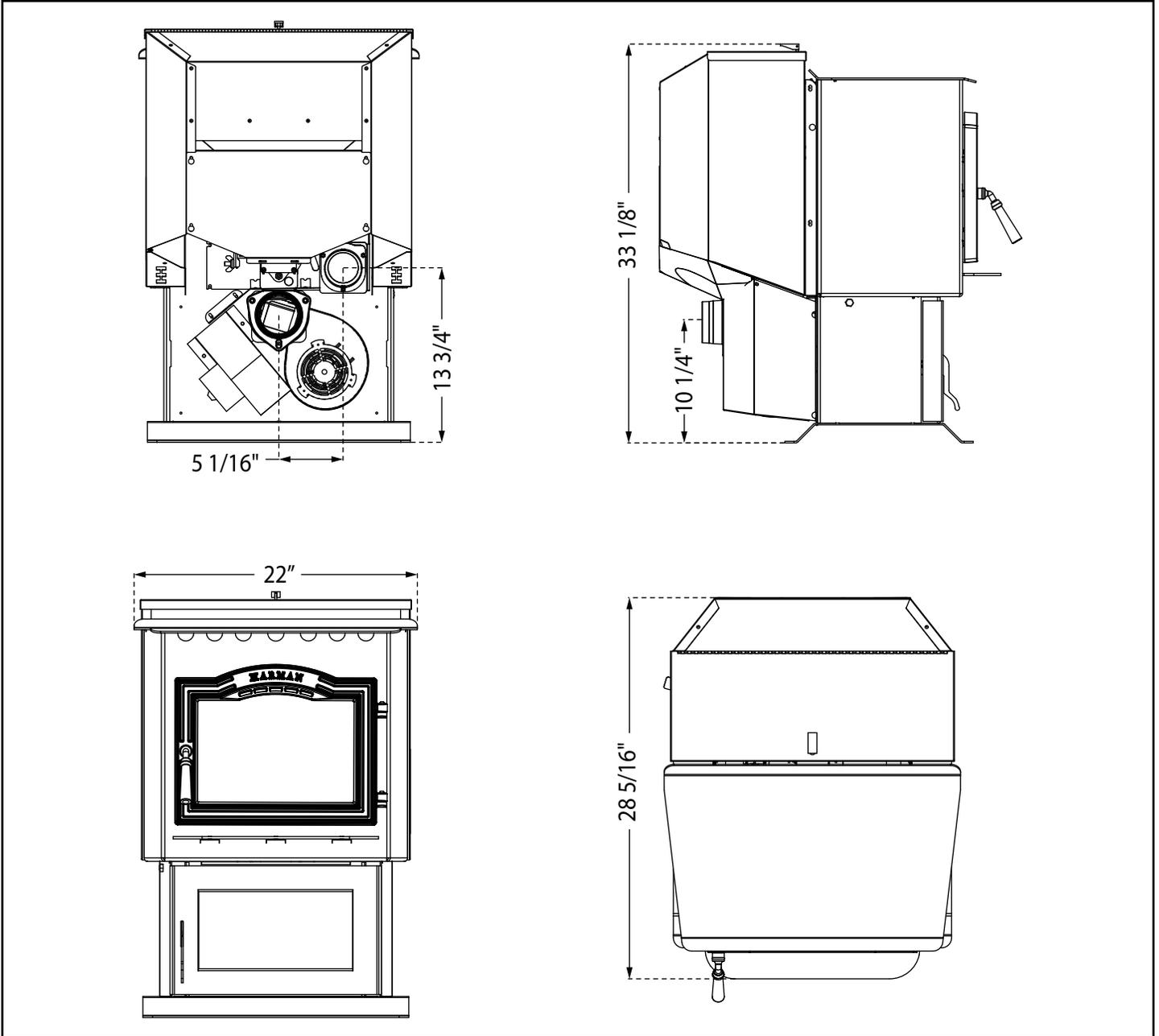
The P38+ is capable of burning all 3 categories of pellets due to a patented feeder and burn pot system.

It should be noted, however, that higher ash content, and when mixing with corn, will require more frequent ash removal, scraping of the burn pot, 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 P38+.

The moisture content of pellets must not exceed 8%, and corn 15%. Higher moisture will rob BTU's and may not burn properly.

Fuel should **not** be stored within the stove installation clearances or within the space required for charging and ash removal. See Page 7.

# Specifications

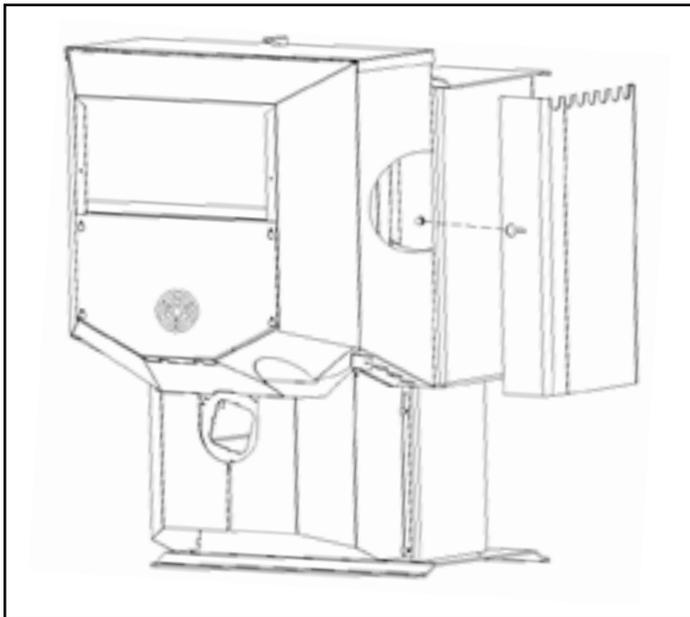


<b>Weight</b>	<b>212 lbs.</b>
<b>Blower</b>	<b>135 cfm</b>
<b>Feed Rate</b>	<b>approximate .75lb. to 5.5 lbs per hr</b>
<b>Hopper Capacity</b>	<b>50 lbs</b>
<b>Fuel</b>	<b>Wood Pellets</b>
<b>Flue Size</b>	<b>3 inch</b>
<b>Outside Air Size</b>	<b>3 inch</b>
<b>Fuse Rating</b>	<b>6 amp</b>

# Options

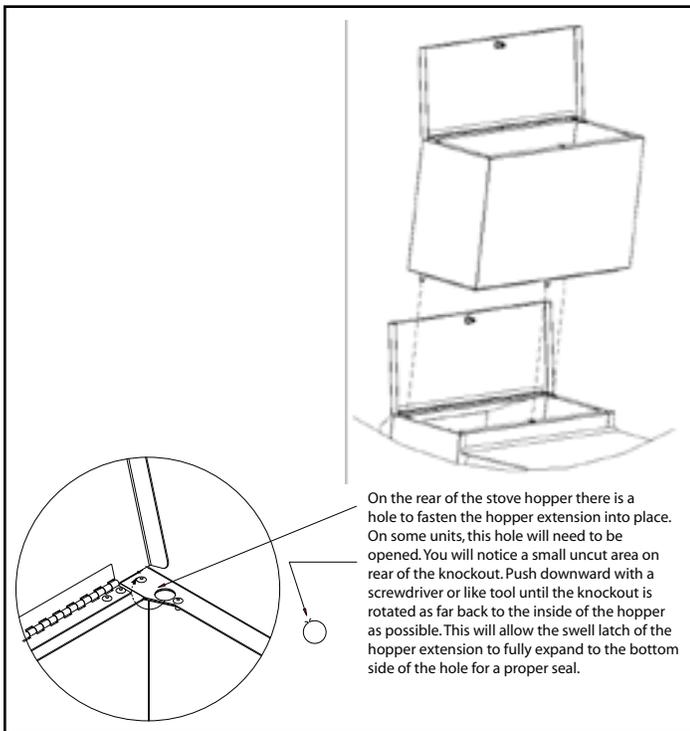
## Side Heat Shields -Part #1-00-773863

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



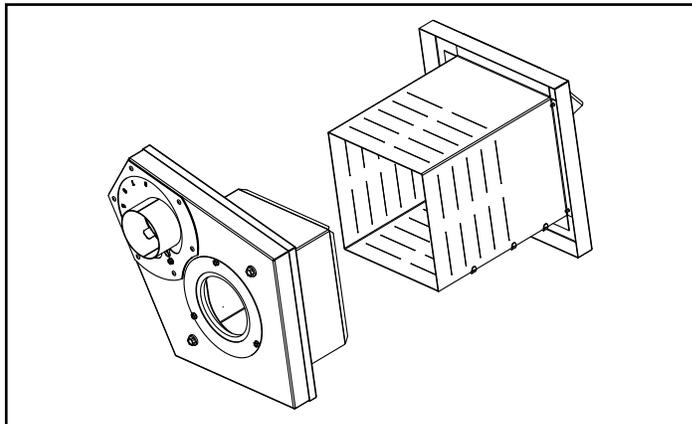
## Hopper Extension -Part #1-00-08536

The hopper extension allows you to put more pellet fuel in the hopper which extends the burn time on one load of pellets. The hopper extension adds 60 pounds to the existing hopper capacity, allowing you to load 120 pounds of pellets at one time. The extension seals to the unit hopper with three latches. Some models will require a knockout be removed from the unit hopper prior to installing the extension.



## Direct Vent Wall Passthrough Kit

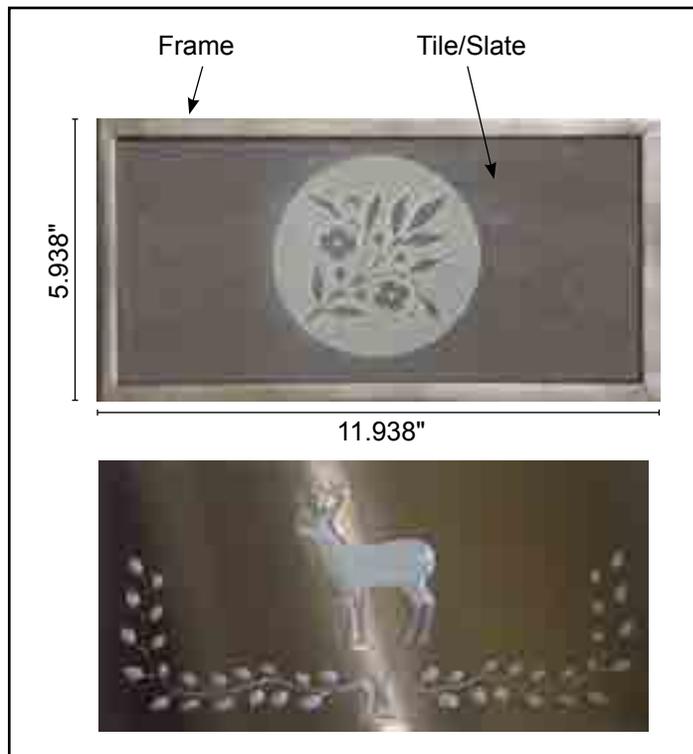
You may choose to use the optional Direct Vent Wall Passthrough Kit (part #1-00-677177) which incorporates venting passthrough and outside air into one component.



## Decorative Tile/Grey Slate Options

The slate tiles measure 11.938" x 5.938". The tile frame (part of trim kit) is necessary to hold the slate in place on the stove. There are 4 decorative slate choices. See dealer for samples.

The Brushed Stainless deer cutout, pictured below, is another option available. This cutout reveals the color of the stove through the cut out shapes.



## Addendum for Burning Corn and Pellet Fuel Mixture

Harman® pellet burning, free-standing stoves and inserts have been tested to ASTM E1509 for burning shelled corn in a mixture with wood pellets. The listing approves up to a 50% corn and 50% pellet mixture. Different mixtures of corn will have distinctively different burn characteristics depending upon moisture content and variety. The operator should closely monitor the stove's operation when burning a new corn/pellet mixture or a different variety of corn, and make any necessary adjustments to feed rate. Since corn is typically higher in ash and moisture content, cleaning and ash removal will be needed more frequently.

### Operation in Stove Temp mode

Set feed adjuster to # 3. Set temperature knob to #3, Turn mode selector knob onto "Stove Temp" mode. After the fire has lit, watch that the fuel does not feed too fast that it pushes the red glowing fuel bed off of the burn pot grate. If it does, lower the feed adjuster setting or use a lower percentage of corn in the mixture. After the stove has burned for 10 minutes and the entire fuel bed is burning, the feed adjuster and temperature knobs may be adjusted for higher heat output if desired. Maximum feed has been reached when the fire bed is about ½ to 1 inch from the end of the burn pot. Settings will vary with different types, moisture levels and mix ratios of corn. If you are having difficulty burning a 50% corn / 50% wood pellet mixture, try a lower percentage of corn.

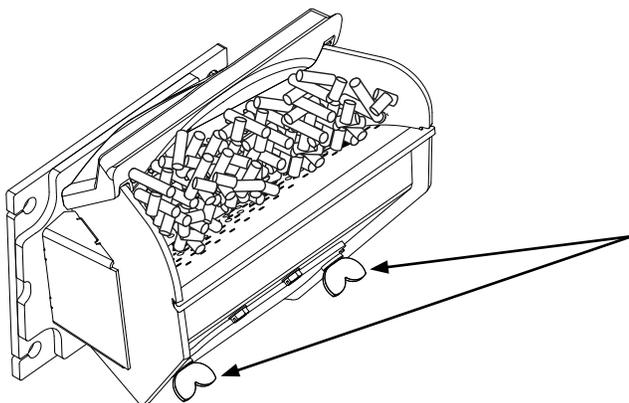
### Operation in Room Temp mode

Set feed adjuster to # 2 or # 3. Set temperature knob to desired amount. Turn mode selector knob onto "Room Temp" mode. After the fire has lit, watch that the fuel does not feed too fast that it pushes the red glowing fuel bed off of the burn pot grate. After the stove has burned for 10 minutes and the entire fuel bed is burning, the feed adjuster may be set to a higher output level if desired. Maximum feed has been reached when the fire bed is about ½ to 1 inch from the end of the burn pot. It is recommended that after burning at the desired settings, turn the stove off and allow it to cool, then turn it back on in "Room Temp" mode and watch the stove restart and verify correct operation. Settings will vary with different types, moisture levels and mix ratios of corn. If you are having difficulty burning a 50% corn 50% wood pellet mixture, try a lower percentage of corn.

### Changes to Maintenance Schedule

Wood pellets average around 6% moisture content or less. Corn will be 14 or 15% moisture. With more moisture in the fuel, more maintenance will be incurred. Burn pot scraping may need to be done once per day. The ash pan will fill more quickly and may need emptied weekly. Most importantly, remove the burn pot cleanout cover weekly to clean the air passage and the igniter element. Excessive buildup on the igniter may lead to shortened igniter life.

**Venting Consideration:** Check with your venting manufacturer regarding possible exclusions when a mixture of corn and pellets is burned.



Loosen these two wing screws for access to clean the air passage and igniter.

# Fuel Specifications

## 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 (when mixed with wood pellets)
- 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

- Must be 15% moisture content or less
- Must be clean and free of debris
- Must be mixed with wood pellets. (Up to 50%)
- 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.

### Moisture

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.

### Size

- 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!** Attempting to burn fuels such as charcoal has the potential of generating Carbon Monoxide which is DEADLY. Never burn fuels other than those listed on the appliance safety label.

When changing from wood pellets to a corn/pellet mixture, the FEED ADJUSTER will likely need adjusted to a lower setting. 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 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.

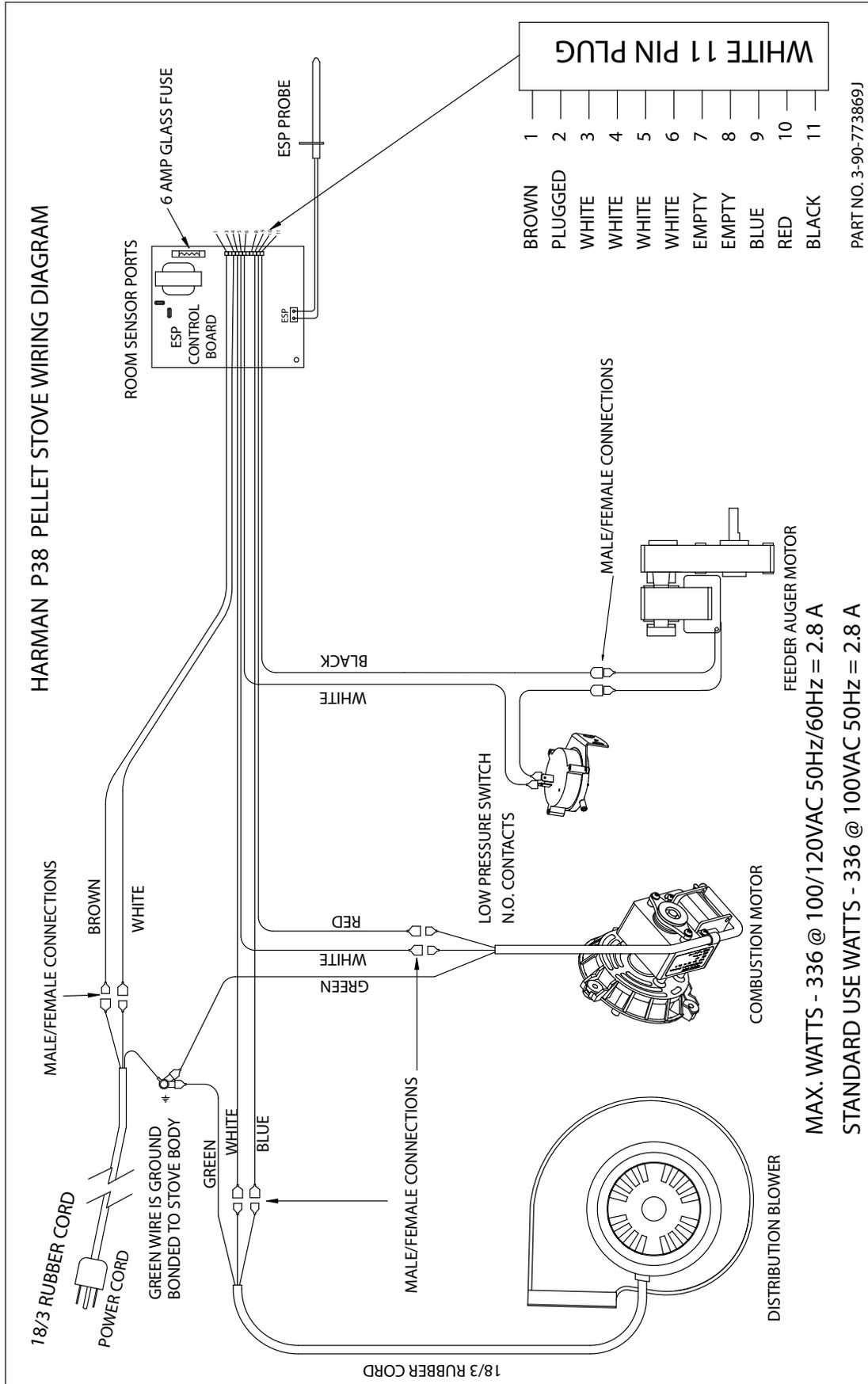
## CAUTION

Tested and approved for use with wood pellets and a mixture of shelled field corn and wood pellets 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.

# 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.

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

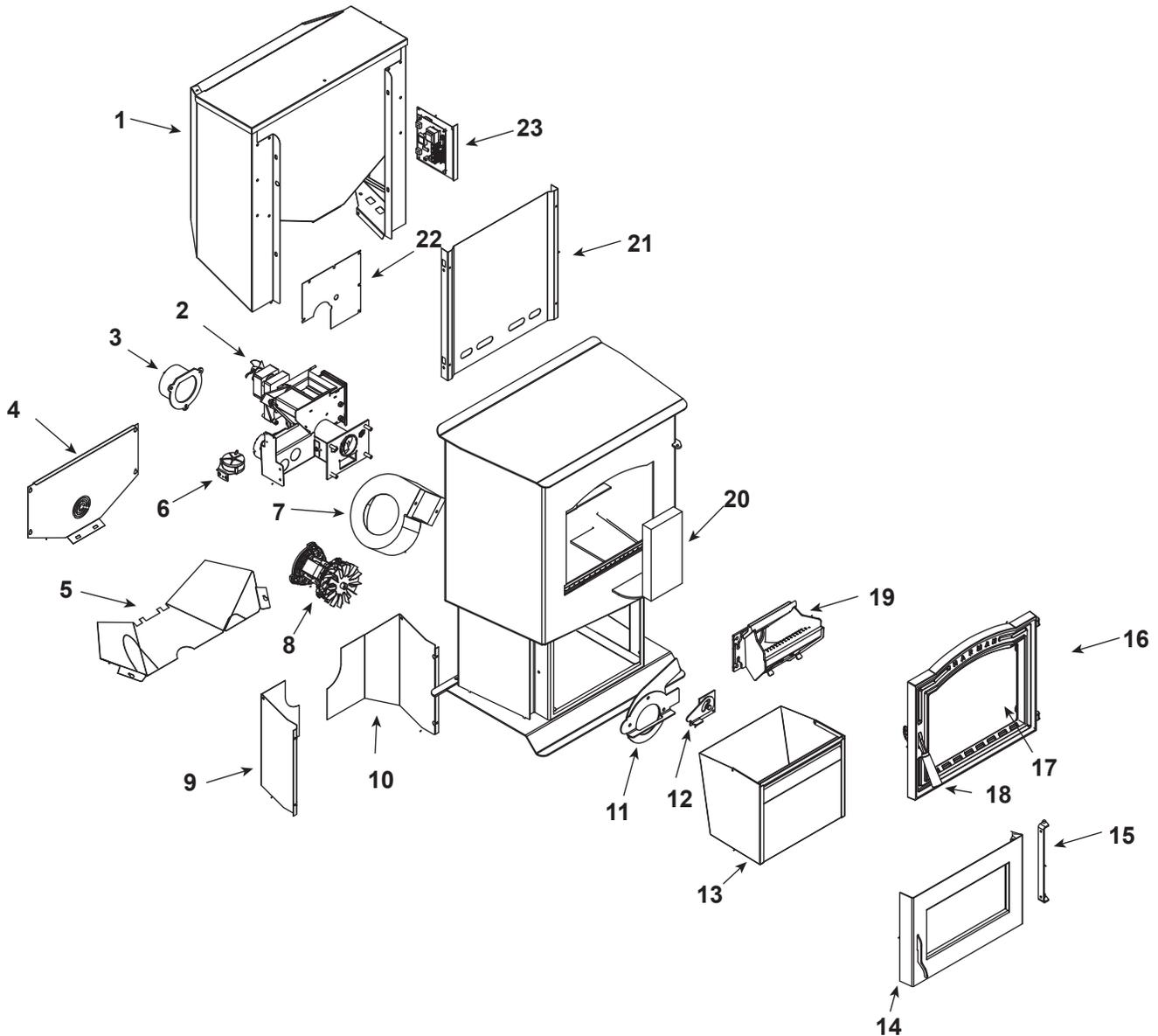
## **LIMITATIONS OF LIABILITY:**

- 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.

1-90-08505-1 (Black),

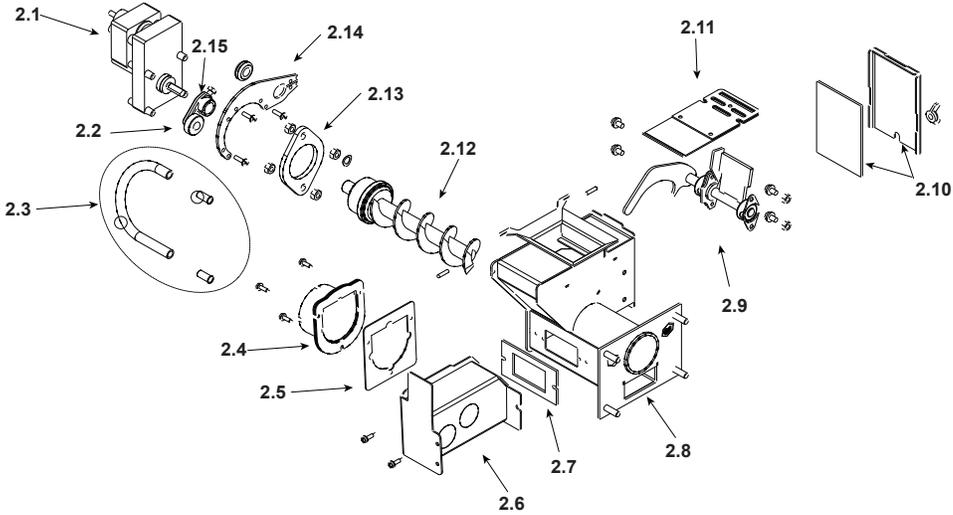
Ending Manufacturing Date: June 2011

1-90-08505-2 (Charcoal), 1-90-08505-3 (Goldenfire))



Part number list on following page.

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

ITEM	Description	COMMENTS	PART NUMBER
1	Hopper Assembly		1-10-09539A
	Hopper Throat Gasket		3-44-677185
	Hopper Switch 48"		3-20-232108
<h3>#2 Feeder Assembly</h3> 			
2	Feeder Assembly		1-10-09535JA
2.1	Pellet Feeder Gear Motor, 4 RPM		3-20-50120
2.2	UL Feeder Cam Bearing		3-31-3014
2.3	Feeder Air Crossover Kit		1-00-67900
	9MM Silicone Tube	5 Ft	1-00-511427
2.4	Pellet Air Intake Assembly		1-10-06810A
2.5	Gasket Feeder Air Intake	Pkg of 6	3-44-72224-6
2.6	UL Feeder Air Intake		1-10-72222
2.7	Gasket Ultra Air Intake	Pkg of 10	3-44-677160-10
2.8	Ultra Feeder Weldment		1-10-724132
2.9	UL Feeder Pusher Arm		1-10-677187W
2.10	Gasket, UL Feeder Cover		1-00-677122
2.11	Slide Plate Assembly		1-10-677121A
2.12	UL Feeder Auger Assembly		3-50-00565
2.13	Bearing Flange w/Hardware		1-00-04035
2.14	UL Feeder Gear Motor Bracket w/Grommet		1-00-247406
2.15	UL Feeder Cam Block		3-00-677154
	Hopper Switch fitting	Pkg of 2	1-00-142818
	Motor Bracket Grommet	Pkg of 12	3-31-2761-12
	Pillow Block	Pkg of 4	3-31-3614087-4

Additional service parts on following page.

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

ITEM	Description	COMMENTS	PART NUMBER
3	Flue Tail Pipe		3-00-247237
4	Auger Motor Cover		2-00-773852J
5	Auger Motor Shield		2-00-773815P
6	Differential Switch		3-20-6866
7	Distribution Blower		3-21-33647
8	Combustion Motor		3-21-09640
	Combustion Blower Mounting Screws	Pkg of 100	1-00-53483208
9	Rear Cover Left		2-00-773828-1P
10	Rear Cover Right		2-00-773828-2P
11	Combustion Intake Weldment		1-10-08516S
12	Retainer Assembly		1-10-08533S
13	Ash Pan		1-10-7738108A
14	Ash Door Assembly		1-10-7738106A
15	Bolt on Hinge Weldment		2-00-06952B
16	Cast Door Frame		4-00-06800P
	Cast Door w/Glass		1-10-06800A
17	Glass Panel		3-40-950133125
18	Door Handle Assembly (Contains: Paw Bolt, Wooden Handle, Washers and Screws.)		1-00-453001
	Wooden Handle, Load Door		1-00-00247
19	Burn Pot Weldment		1-10-08514
	Flame Guide		3-00-08534
	Clean Out Cover		2-00-06112
	Thumb Screw	Pkg of 10	3-31-782108-10
20	Fire Brick 4-1/2 x 9 x 1-1/4"	Pkg of 7	1-00-900450125
	Fire Brick, Full Skid	414 Pcs	3-40-900450-414
21	Hopper Heat Shield		2-00-773854B
22	Feeder Cover		2-00-773853
23	Circuit Board w/Knobs & Shafts		1-00-06142
	Circuit Board Plate		1-10-08649
	Knob, Contol Board/D-Shaft	25 Sets	1-00-015605

Additional service parts on following page.

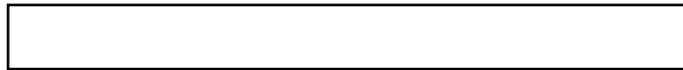
IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	Description	COMMENTS	PART NUMBER
	Airwash O-Rings	Pkg of 10	1-00-939639
	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
	DDM Replacement Cable		1-00-05402
	Disconnect, Female	Pkg of 25	1-00-00959
	Draft Meter Assembly		1-00-00637
	Draft Meter Bolt & Tube		1-00-04004
	Fan Blade, 5" Double Paddle (Combustion Blower)		3-20-502221
	Fuse, 6 Amp	Pkg of 5	3-20-49447-5
	Gasket, 1/4" Rope Black W/PSA (Glass)	15 Ft	1-00-2312
	Gasket, 3/8" Rope White LD (Ash Door or Load Door)	30 Ft	1-00-00888
	Gasket, Burn Pot/Tailpipe	Pkg of 5	1-00-07381
	Gasket, Hopper	10 Ft	1-00-00248
	Glass Clip & Hardware	1 Set	1-00-249140
	Hopper Lid W/HInge		1-10-08518
	Labels, Caution & Danger	10 ea	1-00-200408541
	Label, Caution		3-90-00247
	Latch, Swell/Hopper And Spacer		1-00-199110
	Rubber Spacers	Pkg of 10	3-31-901311-10
	Outside Air Vent		1-10-09542
	Power Cord		3-20-39685
	Room Sensor		3-20-00906
	Screw, #10-24 x 3/8" Alloy Steel Black Oxide Button Head Cap	Pkg of 100	3-30-3011-100
	Silicone Tubing, 1/8"	5 Ft	1-00-5113574
	Thermister Probe (ESP Probe)		3-20-00844
	Wiring Harness	Pre 008190059	3-20-773868
	Wiring Harness	Post 008190059	3-20-08727
	Tile Frame	Gold	3-43-06729-4
		Brushed Stainless	3-43-06729-7
		Bright Nickel	3-43-06729-8
	Spring Clips (Required for installation of Tile Frame)	Pkg of 20	3-31-232547-20
	Leaf Door Trim	Gold	3-43-06802-4
		Brushed Stainless	3-43-06802-7
		Bright Nickel	3-43-06802-8
	Modern Door Trim	Brushed Stainless	3-43-06839-7
	Ashlip Trim	Gold	3-43-08400
		Brushed Stainless	3-43-08400-7
		Bright Nickel	3-43-08400-8





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.

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