

Owner's Manual

Care and Operation

INSTALLER: Leave this manual with party responsible for use and operation.

OWNER: Retain this manual for future reference.

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

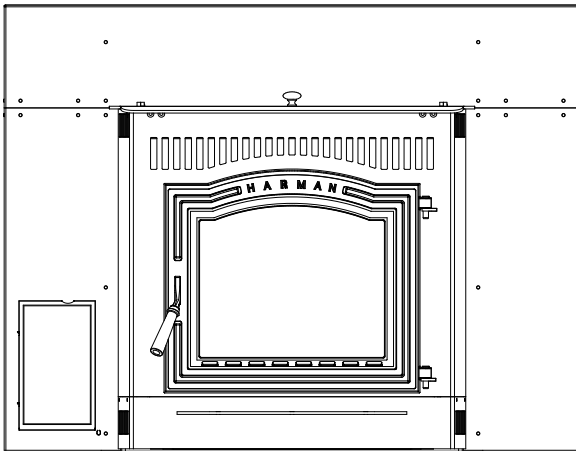
NOTICE: SAVE THESE INSTRUCTIONS

HARMAN®

BUILT TO A STANDARD, NOT A PRICE

Model(s):

P35i-C Pellet Insert



WARNING



Please read this entire manual before installation and use of this pellet fuel-burning room heater.

Failure to follow these instructions could result in property damage, bodily injury or even death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Do not overfire - If any external part starts to glow, you are overfiring. Reduce feed rate. Overfiring will void your warranty.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire.



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.



CAUTION

Check building codes prior to installation.

- Installation **MUST** comply with local, regional, state and national codes and regulations.
- Contact local building or fire officials about restrictions and installation inspection requirements in your area.



CAUTION

Tested and approved for wood pellets only burning of any other type of fuel voids your warranty. When burning higher ash content pellets more frequent cleanings may be required.

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

Read this manual before operating this appliance.
Please retain this Owner's Manual for future reference.
Read the Installation Manual before making any installation or finishing changes.

Congratulations, The Harman® P35i-C pellet insert you have selected is designed to provide the utmost in safety, reliability, and efficiency.

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

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

Your new Harman® P35i-C Pellet Insert will give you years of durable use and trouble-free enjoyment. Welcome to the Harman® family!

Note: Cast iron is an artisan crafted material, which is made the same way today as nearly 2000 years ago. Due to the intrinsic primitive nature of the casting process, part to part variation is normal and adds to the character of a hand built cast iron appliance

Listing Label Information/Location

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

Model Name **Serial Number**

MODEL / MODÈLE: "P35i-C PELLET INSERT"
Raptor Heater Pellet Fuel Burning Type
RATING PLATE FOR MOBILE HOME INSTALLATION
This pellet burning appliance has been tested and listed for use in Manufactured Homes in accordance with CAN 814.23-900 through 814.23-909

Serial No. N° de série: **HF** **BARCODE LABEL**

Tested in accordance with CAN 814.23-900 through 814.23-909
Testé en conformité avec CAN 814.23-900 through 814.23-909
This pellet burning appliance has been tested and listed for use in Manufactured Homes in accordance with CAN 814.23-900 through 814.23-909
Ce poêle à granulés a été testé et homologué pour utilisation dans les maisons mobiles conformément aux règlements 814.23-900 through 814.23-909
"PREVENT HOUSE FIRES" Install and use only in accordance with the manufacturer's installation and operation instructions. Contact local building or fire officials about restrictions and inspection in your area.
"PRÉVENIR LES INCENDIES" Installer et utiliser uniquement en conformité avec les instructions d'installation et d'exploitation du fabricant. Contactez les autorités locales de bâtiment ou de pompiers pour connaître les restrictions et les inspections dans votre région.

P1-70-784195-1 (P35i-C 19.5")
P1-70-784235-1 (P35i-C 23.5")

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIAL
ÉCARTS MINIMUM DE SÉCURITÉ

Location	Inches	Millimeter
A Insert to combustible sidewall	13	330
B Surround top to face trim	13	330
C Surround side to face trim	13	330
D Insert top to (max)	152	3850

DO NOT OBSTRUCT
NE PAS OBSTRUER
DO NOT REMOVE THIS LABEL
NE PAS ENLEVER CETTE ÉTIQUETTE

CAUTION: HOT WHILE IN OPERATION. KEEP CHILDREN AND CLOTHING AWAY. CONTACT MAY CAUSE SKIN BURNS. SEE NAMEPLATE AND INSTRUCTIONS. KEEP FURNISHINGS AND OTHER COMBUSTIBLE MATERIALS A CONSIDERABLE DISTANCE AWAY FROM THIS APPLIANCE. KEEP HOPPER LID CLOSED DURING OPERATION. FAILURE TO DO SO MAY RESULT IN EMISSION OF PRODUCTS OF COMBUSTION FROM THE HOPPER UNDER CERTAIN CONDITIONS. MAINTAIN HOPPER SEAL IN GOOD CONDITION. DO NOT OVER FILL THE HOPPER.
ATTENTION: CHAUD-NE PAS TOUCHER. TENIR LES ENFANTS ET LES VÊTEMENTS À L'ÉCART. RISQUE DE BRÛLURE. VOIR INSTRUCTIONS SUR LA PLAQUE. LAISSER UNE DISTANCE SUFFISANTE ENTRE L'APPAREIL ET LES MEUBLES OU AUTRES OBJETS À RISQUE. N'UTILISER CET APPAREIL QUE LORSQUE LE COUVERCLE DE LA TREMIE EST BIEN FERMÉ-IGNORER CETTE CONSIGNE PEUT ENTRAÎNER DES ÉMANATIONS DE PRODUITS ISSUS DE LA COMBUSTION À TRAVERS LA TREMIE DANS CERTAINES CONDITIONS- VEILLER AU BON ÉTAT DU JOINT DE LA TREMIE- NE PAS EXCÉDER LA CAPACITÉ DE LA TREMIE.

HARMAN®
US ENVIRONMENTAL PROTECTION AGENCY
Certified to comply with 2020 particulate emission standards.
Certifié conforme aux normes 2020 d'émission de particules

Date of Manufacture / Date de fabrication:
2020 2021 2022 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

Manufactured by / Fabriqué par: Harman and Home Technologies 352 Mountain House Road, Halifax NS B1Y 1Y3

▲ Safety Alert Key:

- **DANGER!** Indicates a hazardous situation which, if not avoided **will** result in death or serious injury.
- **WARNING!** Indicates a hazardous situation which, if not avoided **could** result in death or serious injury.
- **CAUTION!** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE:** Used to address practices not related to personal injury.

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➔ = Contains updated information

1 Product Specific and Important Safety Information

A. Appliance Certification

MODEL:	P35i-C Pellet Insert
LABORATORY:	OMNI-Test Laboratories, Inc., PFS-TECO
REPORT NO.	135-S-25-6.2, 0135PN025S, F19-531
TYPE:	Pellet Fueled Insert/Supplementary For Residential Use
STANDARD(s):	ASTM E 1509-12 (2017), ULC-S628-00, ASTM E 2515-11, ASTM E 2779-10
ELECTRICAL RATING:	120 VAC, 60 Hz, Start 3.6 Amps, Run 1.5 Amps
GLASS SPECIFICATION:	5mm mirrored ceramic glass

The P35i-C Pellet Insert is certified to comply with 2020 EPA particulate emission standards.



NOTE: This installation must conform with local codes. In the absence of local codes you must comply with the ASTM E 1509-12, ULC-S628-93 & (UM) 84-HUD

B. Mobile Home Approved

This appliance is approved for mobile home installations when not installed in a sleeping room and when an outside combustion air inlet is provided.

The appliance must be properly grounded to the frame of the mobile home and use only listed pellet vent, Class "PL" connector pipe.

A Harman® Outside Air Kit must be installed in a mobile home installation.



CAUTION

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

DO NOT INSTALL IN SLEEPING ROOM.



WARNING

Risk of Fire! Hearth & Home Technologies disclaims any responsibility for, and the warranty and agency listing will be voided by the below actions.

This wood heater needs periodic inspection and repair for proper operation. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual.

C. BTU & Efficiency Specifications

EPA Certification Number:	245-19
EPA Certified Emissions:	1.5 g/hr
*LHV Tested Efficiency:	74.2%
**HHV Tested Efficiency:	68.2%
***EPA BTU Output:	9,600 - 28,800
****BTU Input	12,800 - 38,400
Vent Size:	4 Inch
Hopper Capacity:	62 lbs
Fuel	Wood Pellet

**Weighted average LHV efficiency using data collected during EPA emissions test.*

***Weighted average HHV efficiency using data collected during EPA emissions test.*

****A range of BTU outputs based on EPA Default Efficiency and the burn rates from the low and high EPA tests.*

*****Based on the maximum feed rate per hour multiplied by approximately 8600 BTU's which is the average BTU's from a pound of pellets.*

This wood heater has a manufacturer-set minimum low burn rate that must not be altered. It is against federal regulations to alter this setting or otherwise operate this wood heater in a manner inconsistent with operating instructions in this manual.

This wood heater needs periodic inspection and repair for proper operation. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual.

DO NOT:

- Install or operate damaged appliance
- Modify appliance
- Install other than as instructed by Hearth & Home Technologies
- Operate the appliance without fully assembling all components
- Overfire
- Install any component not approved by Hearth & Home Technologies
- Install parts or components not Listed or approved.
- Disable safety switches

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage.

For assistance or additional information, consult a qualified installer, service agency or your dealer.

NOTE: Hearth & Home Technologies, manufacturer of this appliance, reserves the right to alter its products, their specifications and/or price without notice.

Harman® is a registered trademark of Hearth & Home Technologies.

D. Appliance Safety



WARNING

If you expect that small children or vulnerable adults may come into contact with this appliance, the following precautions are recommended:

- Install a physical barrier such as:
 - A decorative fire screen.
 - Adjustable safety gate.
- Never leave children alone near a hot stove, whether operating or cooling down.
- Teach children to ***NEVER*** touch the stove.
- Consider not using the stove when children will be present.
- Use only specified components as replacement parts. Other components may not allow your stove to operate as it was intended.

Contact your dealer for more information, or visit: www.hpba.org/safety-information.

To prevent unintended operation when not using your stove for an extended period of time (summer months, vacations, trips, etc):

- Unplug stove from receptacle.

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

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns to the 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 stove.

Installation and repair of this stove should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning will be required. It is imperative that control compartments and circulating air passageways of this stove be kept clean.

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



WARNING

THIS WOOD HEATER HAS A MANUFACTURER-SET MINIMUM LOW BURN RATE THAT MUST NOT BE ALTERED. IT IS AGAINST FEDERAL REGULATIONS TO ALTER THIS SETTING OR OTHERWISE OPERATE THIS WOOD HEATER IN A MANNER INCONSISTENT WITH OPERATING INSTRUCTIONS IN THIS MANUAL.

E. California



WARNING

This product and the fuels used to operate this product (wood), and the products of combustion of such fuels, can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov

F. Clear Space



WARNING

RISK OF FIRE! Do NOT place combustible objects in front or to the sides of the appliance. High temperatures may ignite clothing, furniture or draperies.

NOTICE: Clearances may only be reduced by means approved by the regulatory authority having jurisdiction.



WARNING

RISK OF FIRE! Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.

- Do **NOT** store flammable materials in the appliance's vicinity.
- Do **NOT** use gasoline, 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 as combustible materials may ignite.



WARNING

MOBILE/MANUFACTURED HOME GUIDELINES: DO NOT ALLOW INSTALLATION IN A SLEEPING ROOM.



WARNING

USE OF IMPROPER FUELS, FIRESTARTERS OR ALTERING THE STOVE FOR HIGHER HEAT OUTPUT MAY CAUSE DAMAGE TO THE STOVE AND COULD RESULT IN A HOUSE FIRE. USE ONLY APPROVED FUELS AND OPERATION GUIDELINES

G. Helpful Hints

When operating your Harman® P35i-C Pellet Insert, follow basic safety standards. Read these instructions carefully before you attempt to operate the P35i-C Pellet Insert. Failure to do so may result in damage to property or personal injury and may void the product warranty.

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 when scraping the burnpot.

Disposal of Ashes: Ashes should be placed in a steel container with a tight fitting lid. The closed container of ashes should be placed on a non-combustible 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 thoroughly cooled. Other waste shall not be placed in this container.

Soot and Flyash 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.

When burning wood pellets on low, the potential exists for creosote to form. The venting system should be inspected periodically throughout the heating season to determine if creosote buildup has occurred. If a significant layer of creosote has accumulated (1/8" or more), it should be removed to reduce the risk of a chimney fire. If a fire occurs, call the fire department, shut down the stove, and evacuate the residence. Before using the appliance, have the venting system thoroughly inspected and replace any damaged components.

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 - Follow venting manufacturer's recommendations for sealing pipe joints.



CAUTION

This appliance must be vented to the outside

H. Fuel Specifications

The P35i-C Pellet Insert is approved for burning any grade of pelletized bio-mass fuel.

It should be noted, however, that higher ash content will require more frequent cleaning.

The moisture content of pellets must not exceed 8%. 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 cleaning and ash removal.

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
- Source material typically determines ash content

Higher Ash Content Material

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

Lower Ash Content Material

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

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.

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.

H. Fuel Specifications (Cont.)

Storage

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

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.



CAUTION

Do not burn fuel that contains an additive.

- May cause hopper fire
- Damage to product may result

Read the list of ingredients on the packaging.



CAUTION

Odors and vapors released during initial operation.

- Curing of high temperature paint.
- Open windows for air circulation.

Odors may be irritating to sensitive individuals.



CAUTION

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



WARNING

BURNING COLORED PAPER, CARDBOARD, SOLVENTS, TRASH AND GARBAGE OR ALTERING THE STOVE FOR HIGHER HEAT OUTPUT MAY CAUSE DAMAGE TO THE STOVE AND COULD RESULT IN A HOUSE FIRE. USE ONLY APPROVED FUELS AND FOLLOW ONLY THESE OPERATION GUIDELINES.



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.

I. Control Explanation

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 distribution blower.

Indicates power to combustion blower

Indicates power to the feed motor.

Indicates igniter is on.

HARMAN

POWER ○

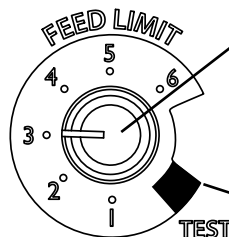
STATUS ○

DISTRIBUTION ○ BLOWER

COMBUSTION ○ BLOWER

FEED ○ MOTOR

IGNITER ○



Feed limit

Sets the maximum feed rate

Test

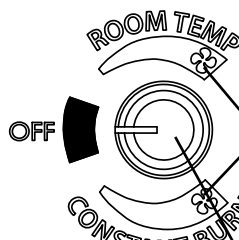
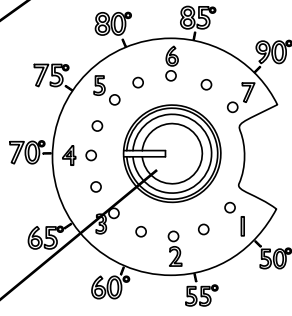
Runs all motors at full speed for one minute to check operation. Afterwards the control will simulate a minimum burn with the combustion blower remaining on low.

IGNITER
AUTO

DISABLED

Igniter switch

Set to appropriate Start-Up mode.



Distribution Blower speed adjustment range.

L = low
H = high

WARNING: HIGH VOLTAGE
Disconnect power before removing panel.

Temp dial

Allows you to adjust the room temperature setting, in Room Temp Mode, using the outer scale marked in degrees Fahrenheit. It also allows you to adjust the constant burn setting, while in Constant burn Mode, using the inner scale marked from 1 to 7.

Dealer Diagnostic Port

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

Mode Selector

Allows you to choose between Room Temp Mode, Constant burn 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.

J. General Operating Information

1. Room Sensor Calls For Heat

The appliance is like most modern furnaces; when the room sensor calls for heat, your appliance will automatically light and deliver heat.

When the room is up to temperature and the room sensor is satisfied, the appliance will shut down.

2. Heat Output Controls

The appliance will turn on and off as the room sensor demands. When the room sensor calls for heat, the appliance will always start up on High. After burning approximately 7-10 minutes, the appliance will then burn at the rate at which it was originally set. If the appliance is set at one of the lower settings, it will run quieter but take longer to heat up an area than if it were set at a higher burn rate.

Regardless of the burn rate, when the area is warm enough to satisfy the room sensor, the appliance will shut off.

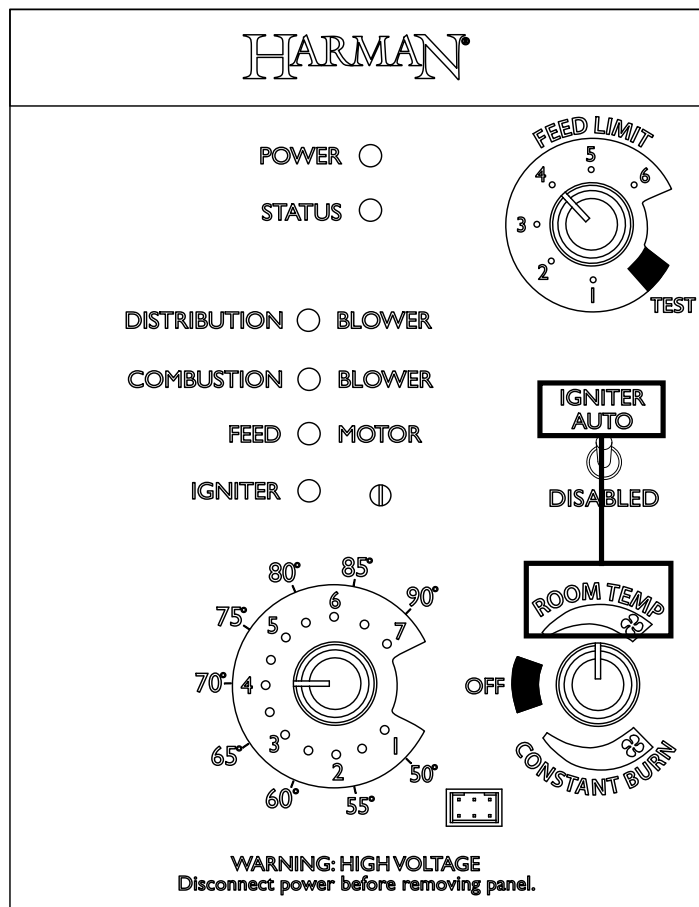


Figure 1.1



WARNING



Fire Hazard

Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.

- Do **NOT** store flammable materials in the appliance's vicinity.
- **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.**
- **DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA OR ENGINE OIL.**
- **DO NOT USE CHEMICALS OF FLUIDS TO START THE FIRE.**
- Combustible materials may ignite.

K. Frequently Asked Questions

With proper installation, operation, and maintenance your appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service person in the diagnosis of a problem and the corrective action to be taken.

Contact your dealer for additional information regarding operation and troubleshooting. Visit www.harmanstoves.com to find a dealer.

ISSUES	SOLUTIONS
Metallic noise.	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of your appliance.
White ash buildup on glass.	This is normal. Clean the glass using any non-abrasive glass cleaner.
Glass has buildup of black soot	Excessive build-up of ash. The lower burn settings will produce more ash, the higher burn settings produce less. The more it burns on low the more frequent cleaning of the glass is required.
Glass has turned dirty.	Excessive build up of ash. The lower burn settings will produce more ash, the higher burn settings produce less. The more it burns on low the more frequent cleaning of the glass is required.
Fire has tall flames with black tails and is lazy.	The feed rate needs to be reduced or the burnpot needs cleaning. Heat exchanger or exhaust blower needs cleaning.
Smoky start-up or puffs of smoke from the airwash.	Burnpot may be dirty, Clean the burnpot.
Large flame at start-up.	This is normal. Flame will settle down once the fire is established.
Missed Ignition	Ensure pellets in burnpot Ensure holes in burnpot are clear of obstructions above the igniter. See Burnpot Maintenance. Check to see if the ignitor is getting hot, if not replace ignitor. *See addendum for manual ignition instructions for emergency heating needs.

2 Operating Instructions

A. Starting Your First Fire

1. A room sensor is required for proper operation of this appliance in "Room Temp" mode. At this time, fill the hopper with pellets, insure the control is set to "OFF". Figure 2.1. Plug the power cord into a properly grounded, nearby outlet.
2. Once power is present, the unit it will run through a quick diagnostics test to insure the control is operating properly. This is normal.
3. For your first fire it may be necessary to purge the auger system by putting the feed limit knob to "Test" prior to starting the unit. Figure 2.2. This insures that plenty of fuel enters the burn pot for proper ignition.
4. Flip toggle switch to desired mode "Auto or Disabled". Figure 2.3. Set feed limit knob to desired setting and turn mode dial to "Room Temp" or "Constant burn" Figure 2.4.
Note: Feed rate of #4 is a good starting point. Adjustments may need to be made depending on fuel quality and/or heat output desired.
5. The fuel feed system and the igniter should now be on.
6. Once the appliance has ignited, let it burn for approximately 7-10 minutes. After this time, the igniter light should turn off and the unit should begin to operate per the settings at the control.

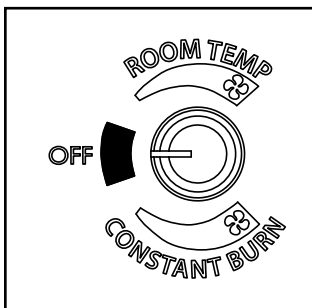


Figure 2.1

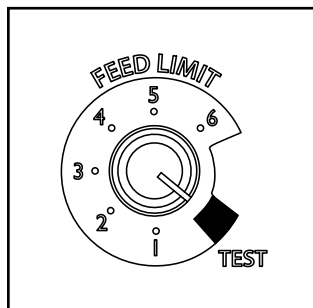


Figure 2.2

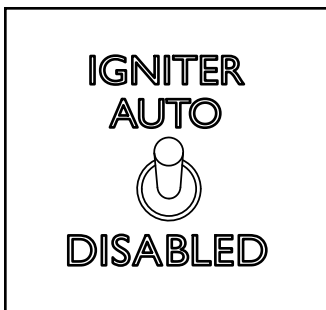


Figure 2.3

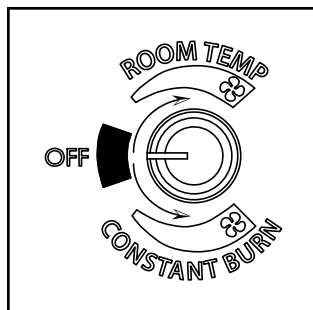


Figure 2.4

B. Fire Characteristics

A properly adjusted fire has a medium active flame pattern that extends out of the burn pot approximately 6 inches (152mm).

C. Feed Limit Instructions

The Feed Limit control is factory set at #4, and should be adequate for most fuels.

However, if the flame height is too high or too low, you will need to adjust the Feed Limit. Wait until the appliance has been burning for 15 minutes before making your adjustments and allow 15 minutes for feed adjustment to take effect.



CAUTION

Odors and vapors released during initial operation.

- Curing of high temperature paint.
- Open windows for air circulation.

Odors may be irritating to sensitive individuals.

D. Ignition Cycles

1. At the beginning of each ignition cycle, it is normal to see some smoke in the firebox. The smoke will stop once the fire starts.
2. The distribution blower will automatically turn on after your appliance has reached the set temperature.

This blower transfers heat from your appliance into the room, and will continue to run in "constant burn" mode at the set speed you have the control knob at. In "room temp" mode however, the blower will turn on and off in accordance to what temperature the room sensor is reading. When the room sensor is satisfied the blower will shut down until the room sensor sees a demand for heat.
3. Occasionally the appliance may run out of fuel and shut itself down. When this happens, the unit will need to be turned to the off position and restarted.

If needed, follow the instructions in Section A "Starting Your First Fire".



WARNING



Fire Risk

Do NOT operate appliance:

- With appliance door open.
- Burnpot floor open.
- Cleaning slide plates open.

Do NOT store fuel:

- Closer than required clearances to combustibles to appliance
- Within space required for loading or ash removal.

E. Automatic Ignition

Adjust Feed Limit. If this is your first fire or you are trying different pellets, set the feed limit to #4, Figure 2.5 This is a conservative number and will probably need to be increased. After you know a Feed Limit setting that works well, use that setting. Remember, if your feed rate is too high you may waste fuel.

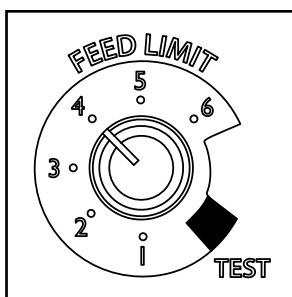


Figure 2.5

Setting the feed limit # for maximum burn: With the unit burning in "AUTO", turn to "Constant Burn" and put the fan on "H". Set the Temperature Dial to #7. Allow the unit to burn for about 30 minutes and check ash on front of burn pot. Figure 2.6. If the ash line is larger than 1", turn the feed limit 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 at maximum burn rate and during normal operation, the ash bed will be larger.

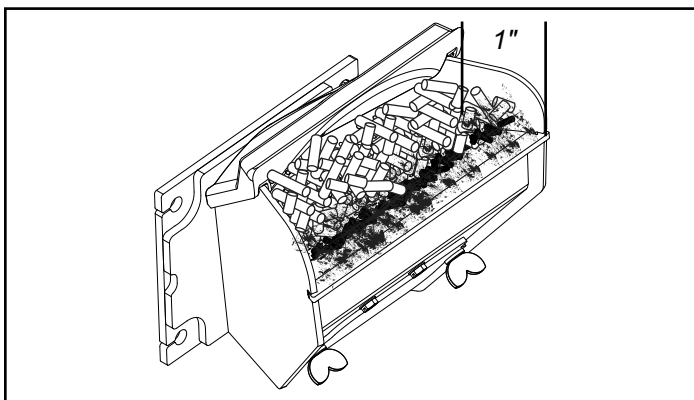


Figure 2.6

Note: The firebox low pressure switch will not allow the auger motor or the igniter element to operate if the view door is open.

Igniter Switch to "AUTO" (up position)

Make sure the unit is plugged into a properly grounded, 120 VAC, 60 Hz electrical source. The power light should be the only light lit.

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

1. Turn Mode Selector to "OFF".
2. Fill hopper with pellets.
3. Clean burn pot with scraper, if necessary.
4. If starting after an empty hopper, turn Feed Limit to "TEST" (for one 60 second cycle). This will flow pellets into the auger tube and also allow you to check the motors for operation.

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

5. Turn Feed Limit to #4.
6. Flip the Igniter Switch up into the "AUTO" position.
7. Turn the Temperature Dial to the desired room temperature.
8. Turn Mode Selector to Room Temperature or Constant Burn mode.
9. Fill hopper with pellets and remove ashes as required. Keep the hopper lid and firebox doors closed while in operation. Maintain door seals in good condition. Failure to do so will affect operation of the appliance and may permit escape of smoke or gases into the living space causing smoke detectors to sound.



WARNING

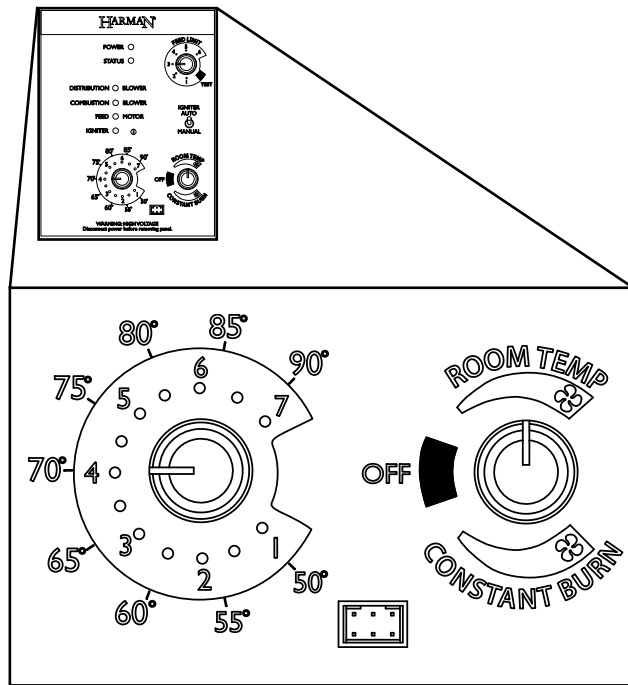
BURNING GARBAGE, USE OF IMPROPER FUELS, FIRESTARTERS OR ALTERING THE STOVE FOR HIGHER HEAT OUTPUT MAY CAUSE DAMAGE TO THE STOVE AND COULD RESULT IN A HOUSE FIRE. USE ONLY APPROVED FUELS AND FOLLOW ONLY THESE OPERATION GUIDELINES.



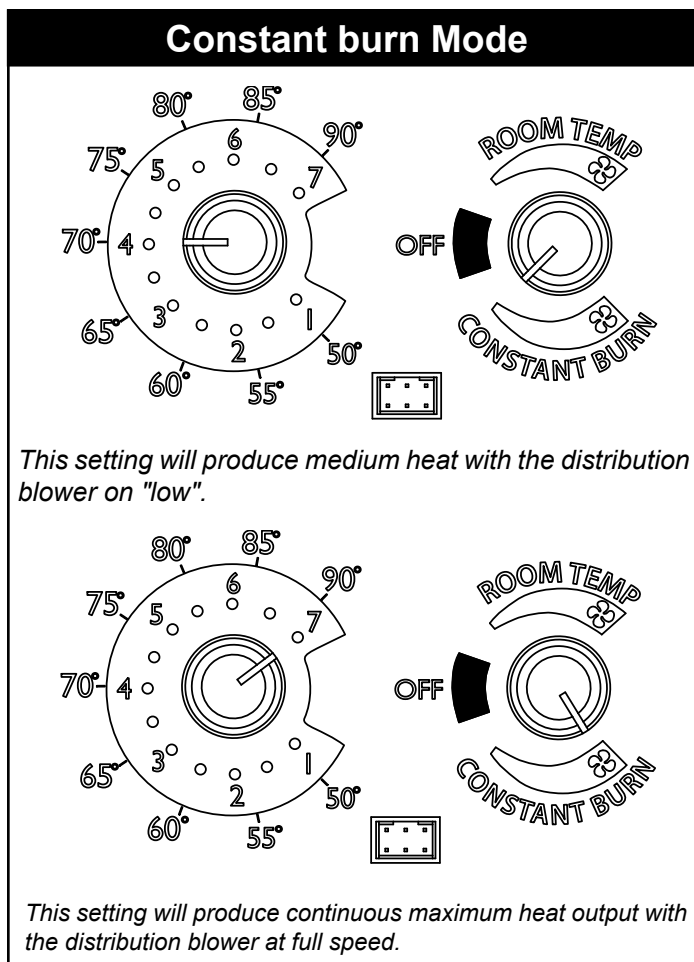
WARNING

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.

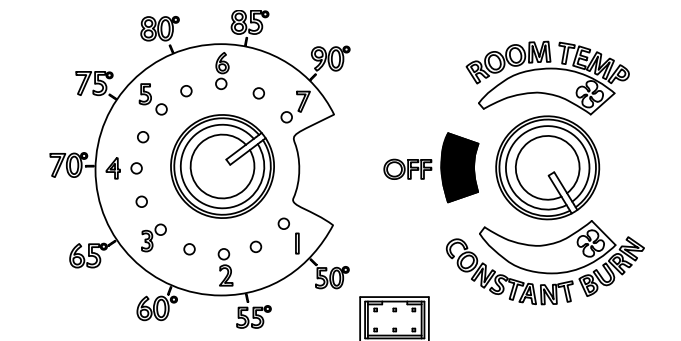
E. Automatic Ignition (Continued)



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



Constant Burn Mode: This setting will produce medium heat with the distribution blower on "low".



Constant Burn Mode: This setting will produce continuous maximum heat output with the distribution blower at full speed.

The P35i-C Pellet Insert 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 P35i-C Pellet Insert 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 "DISABLED" at any time during operation.

Igniter switch to "AUTO"

Room Temperature 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 Limit setting. This setting, generally on #4, can be increased if higher burn rates are necessary (Figure 2.5). The unit's maximum burn rate should not create less than 1" of ash on the burn pot front edge (Figure 2.6). Overfeeding is not a safety concern, but fuel may be wasted if unburned pellets fall into the ash pan.

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

Constant Burn 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 maximum feed rate should not create less than 1" of ash on the burn pot front edge. Figure 4.7.

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.


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 pellets, then the stove will shut down automatically.

3 Maintenance & Service

When properly maintained, your stove will give you many years of trouble-free service. **Contact your dealer** to answer questions regarding proper operation, trouble-shooting and service for your appliance. Visit www.harmanstoves.com to find a dealer. We recommend annual service by a qualified service technician.

A. Proper Shutdown Procedure

**CAUTION**

**Shock and Smoke Hazard**

- Turn unit to the off position, let appliance completely cool and combustion fan must be off. Now you can unplug appliance before servicing.
- Smoke spillage into room can occur if appliance is not cool before unplugging.
- Risk of shock if appliance not unplugged before servicing appliance.

Follow the detailed instructions found in this section for each step listed in the chart below.

NOTICE

The type of fuel you are burning will dictate how often you have to clean your burnpot. Clean more frequently if you encounter heavy build-up of ash at the recommended interval or you see soot coming from the vent. **Not properly cleaning your appliance on a regular basis will void your warranty.**

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 fly ash and soot. USING A VACUUM WHICH IS NOT EQUIPPED WITH A FINE DUST FILTER WILL BLOW FLY ASH AND SOOT OUT INTO THE ROOM.

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

B. Quick Reference Maintenance Chart

Frequency	Cleaning Procedure	Safety Measures	Tips
Daily	Scrape Burn pot	Wear flame resistant gloves ³	Vigorous, strong scraping specifically near neck of burn pot. Scrape every time you add pellets or at least every 3 bags of fuel. ²
Weekly	Empty Ash Pan	Wear protective gloves. ¹ Put ashes into a steel non-combustible container with tight fitting lid outside.	Unit does not need to be turned off. Reduce to low burn during removal.
	Clean the Glass	Stove must be turned off and cold.	
Monthly	Scrape & Vacuum Heat Exchanger	Stove must be turned off and cold.	Use provided scraper. Scrape back and sides of firebox.
	Brush & vacuum the distribution fan	Stove must be turned off, cold and unplugged from power supply.	Use provided paint brush. This should be done approximately every 25 bags. ²
	Inspect Hopper lid gasket for damage		Replace gasketing if frays, tears or other visible damage to gasket. This should be done approximately every 50 bags. ²
	Clean Igniter	Stove must be turned off, cold and unplugged from power supply. Wear protective gloves. ¹ Put ashes into a steel non-combustible container with tight fitting lid outside.	Use provided paint brush. Vacuum loose ash from around igniter and inside burn pot.
Stove MUST be turned off, cold and unplugged from power supply for Yearly Cleaning.			
Yearly ⁴	Brush & vacuum the combustion fan and venting/exhaust path	Wear protective gloves. ¹ Put ashes into a steel non-combustible container with tight fitting lid outside.	Use provided paint brush to brush fan blades. *Use flue brush to clean venting being careful not to damage the ESP. ²
	Inspect door gasket		Replace gasketing if frays, tears or other visible damage to gasket.
	Brush & vacuum venting system	Wear protective gloves. ¹ Put ashes into a steel non-combustible container with tight fitting lid outside.	

* A flue brush of appropriate size and length may need to be purchased for proper maintenance.

1. Protective gloves will help prevent skin abrasion while working on steel surfaces.
2. Frequency of cleaning depends largely on fuel type. Lower quality pellets require most frequent cleaning.
3. Flame resistant gloves will help protect your skin from potential contact with heat or flames.
4. Yearly cleaning is also known as a Total Clean. This requires completing all the Daily, Weekly, Monthly and Yearly maintenance mentioned. This should be done before you begin burning the unit each heating season.

C. Unit Maintenance

Daily/Weekly Maintenance: It is recommend that the burn pot be scraped whenever adding fuel; taking the opportunity to clean the burn pot will insure proper daily operation.

Scraping the Burn Pot-

- Using flame resistant gloves, vigorously scrape the top holed surface and sides of the burn pot down to auger tube, be sure to concentrate in the neck of the burnpot. Figure 3.1.
- Scrape loosened material over edge of burnpot grate into the ashpan.
- If needed, empty the ash pan while adding fuel and after scraping the burn pot.

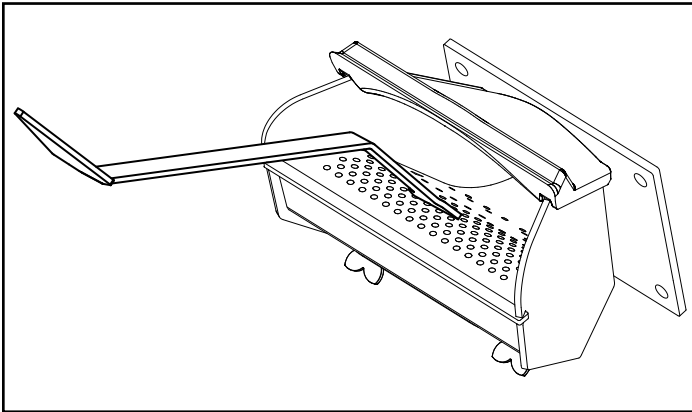


Figure 3.1

Monthly Maintenance: It is recommend that the unit be shut down and unplugged from any power source for a monthly cleaning. Monthly cleanings will insure proper operation of your unit throughout the heating season.

- Cleaning Glass - Once unit is cold, use a non-abrasive glass cleaner on glass and wipe clean.
- Scrape and Vacuum Heat Exchanger.

Cleaning the Heat Exchanger-

Using the scraper provided run the straight edge along the flat surface of the Heat Exchanger removing any carbon deposits or ash build-up, Figure 3.2.

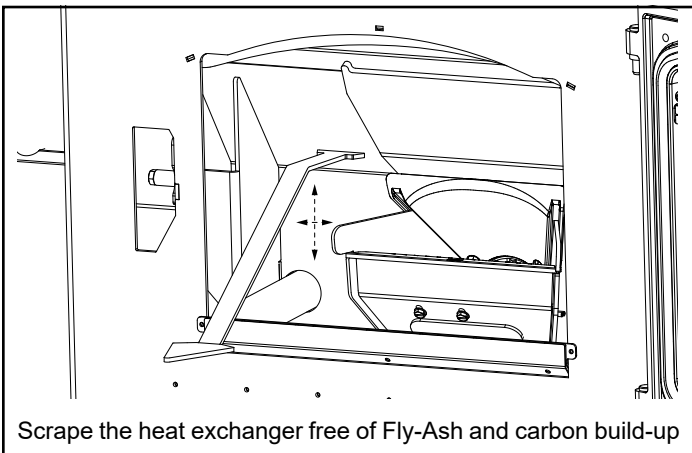


Figure 3.2

Cleaning the Burn Pot-

- Vigorously scrape the top holed surface and sides of the burn pot down to auger tube, as suggested in the Daily/Weekly Maintenance Section.
- Use the supplied allen wrench to remove any build-up that may have accumulated in the holes of the burn pot grate. Simply push the allen wrench down through each hole ensuring it is clear of any build-up paying attention not to damage the igniter element in the process. Figure 3.3.

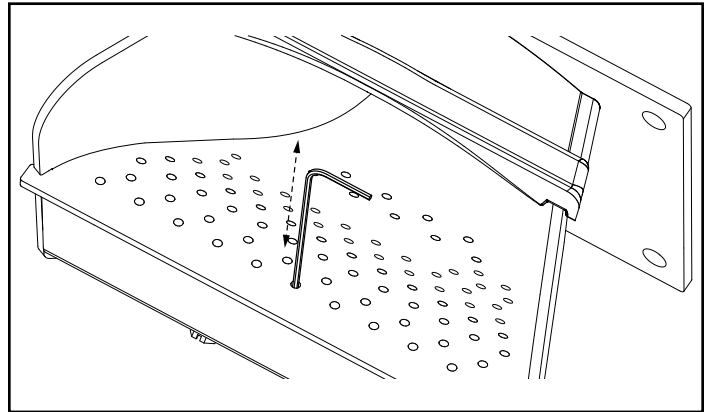


Figure 3.3



DANGER

Disconnect the power to the unit before removing cover.

- Loosen the (2) wing thumb screws on the lower front angle of the burn pot. Figure 3.4

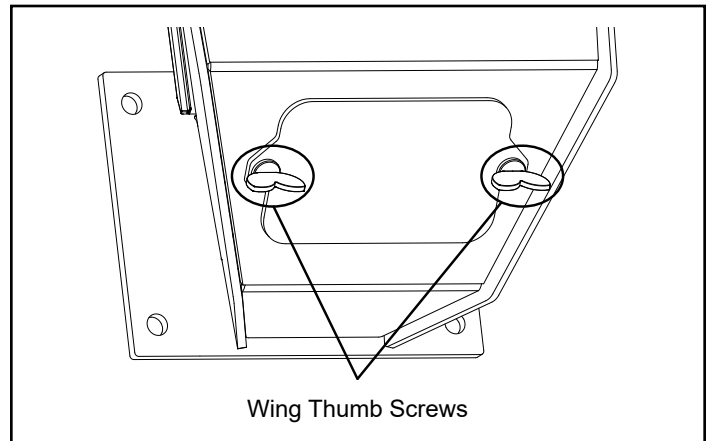


Figure 3.4

- Lift off the clean-out cover to open the bottom clean-out chamber. Figure 3.4
- 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. It also helps knock ash buildup from the igniter element and bracket.

Cleaning Igniter Bracket-

Check cleanliness of the igniter and inner burnpot. If the igniter has ash buildup it must be removed to insure proper ignition. Use the provided brush to remove ash buildup from in and around the igniter. Once ash is loose vacuum around igniter and at the base of burn pot. Figure 3.5.



WARNING

Use caution when cleaning burn pot clean-out chamber. Do not damage the high temperature igniter wires.

Note: The hot lead/cold lead connection must always be pulled to the rear of the feeder body before operation.

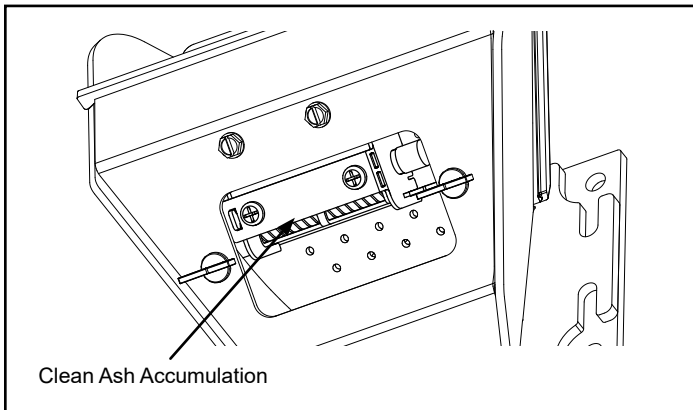


Figure 3.5

Yearly Maintenance: Cleaning the Combustion Fan Chamber-

It is recommended that you use a vacuum that is designed for ash, as ashes may block conventional vacuum filters.

1. Remove the left and right corner cleanout covers by removing the wing-screws (one per). Figure 3.6.

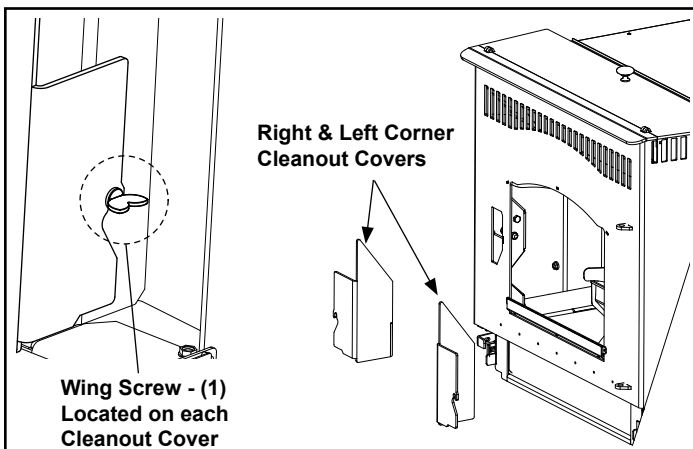


Figure 3.6

2. Brush or vacuum the remaining ash from the firebox.
3. Guide the vacuum hose upward into the exhaust passage in the right rear corner of the firebox. Figure 3.7.

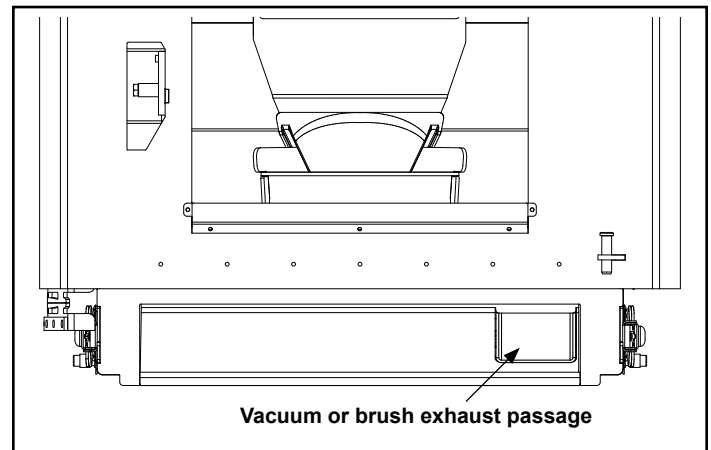


Figure 3.7

4. You can now re-install the right and left cleanout covers into the firebox and close the door.
5. Release the right and left side spring latches and slide the insert body out onto the hearth or onto the service rail kit, if purchased. Figure 3.8.

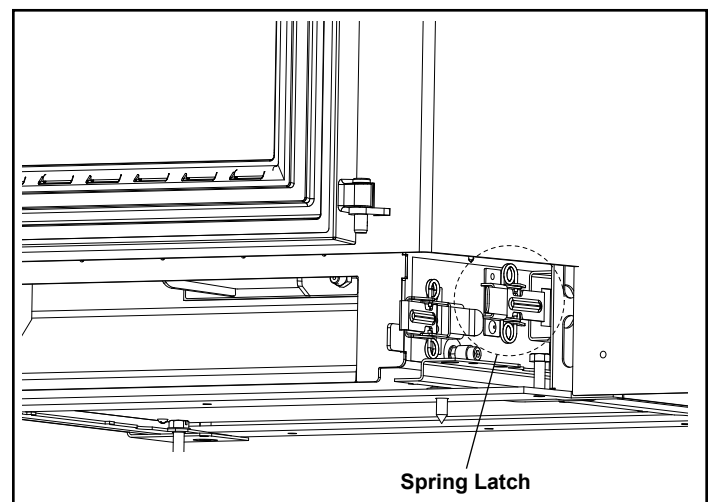


Figure 3.8

6. Remove the exhaust chamber access cover on the right rear of the insert. Figure 3.9.
7. With this cover removed, you can vacuum the paddle fan and the inside of the chamber. Be careful not to bend the blades on the paddle fan.

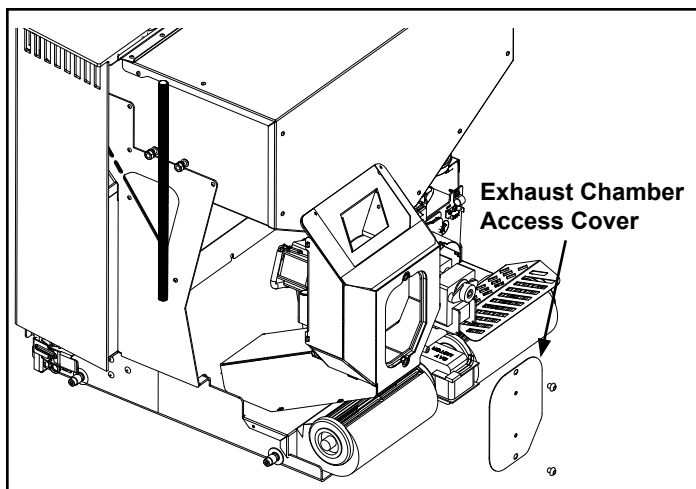


Figure 3.9

8. Before reinstalling the access cover, make sure the insulation between the two layers is in tact.

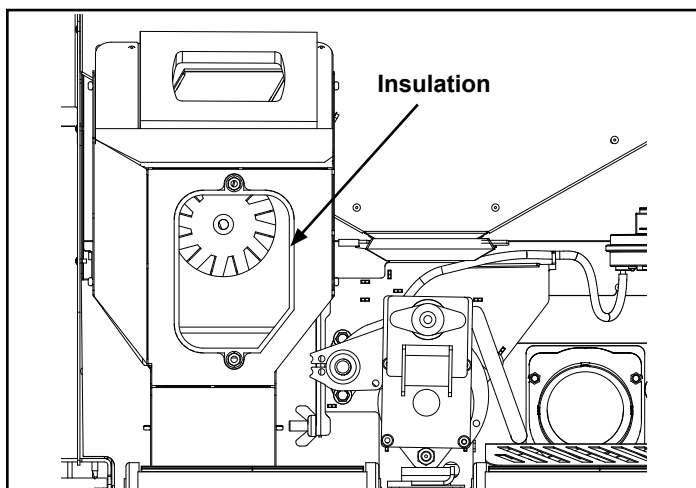


Figure 3.10

9. Whenever the hopper is empty, inspect and remove any large amounts of sawdust or fines. Although this finer material will mostly feed through with the fuel, large quantities of sawdust may restrict feeder flow.

Caring for your Glass-

The glass used in your stove is manufactured to exact standards to withstand the high heat of the fire, but like all glass, it must be treated with common sense and care. Never abuse the glass by slamming the door shut or striking the glass with a heavy object. If the glass is broken or damaged, do not operate the stove until it has been replaced.

Glass - Replacement

If the stove's glass is cracked or broken, you must replace it before operating your stove. Remove pieces carefully. Replace glass only with Harman® replacement glass; **do not use substitutes.**

Carefully remove damaged glass, gasket material, and hold down clips (set aside).

Install the self adhesive 1/4" gasket material around the front face of the glass. Set the glass panel and gasket gently onto the door. Install the hold down clips and tighten with bolts.

Glass - Cleaning

Sometimes it will be necessary to clean accumulated ash from the glass surface; allowing this ash to remain on the glass for long periods can result in "etching" due to the acidity of the ash. Never clean the glass while it is hot, and **do not** use abrasive substances. Wash the surface with cool water, and rinse thoroughly. You may wish to use a non-abrasive cleaner specifically designed for use on stove glass. In any case, dry thoroughly before relighting your stove.

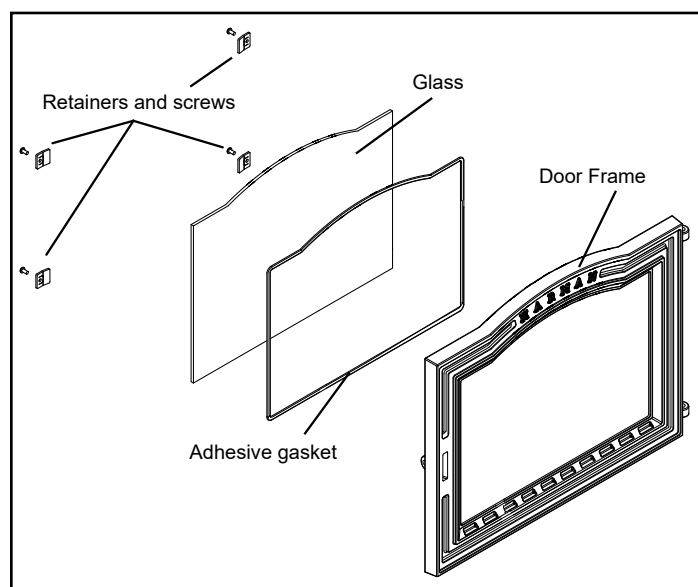


Figure 3.14

Inspect all Gaskets-

While the unit is cool, inspect all door gaskets to insure proper seal. The gasket should be continuous without frays or tears; having plyable gasket means having a correct seal for proper operation. Figures 3.14 & 3.15.

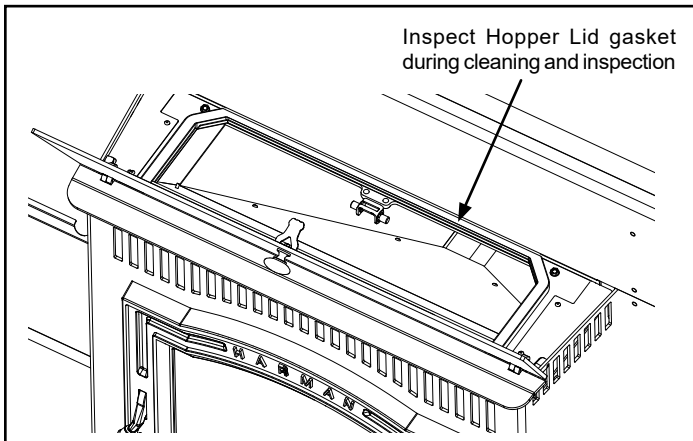


Figure 3.15

Distribution Blower-

Checking the distribution blowers yearly is a good habit to get into. Dust, animal hair or anything else that can make its way into that area can drastically cut down on the air movement throughout the unit ultimately causing less of a heating efficiency.

Once the unit is shut down and cooled, unplug the unit from its power supply. Behind each side panel release (1) spring latches that holds the unit to the inserts cage. Figure 3.16.

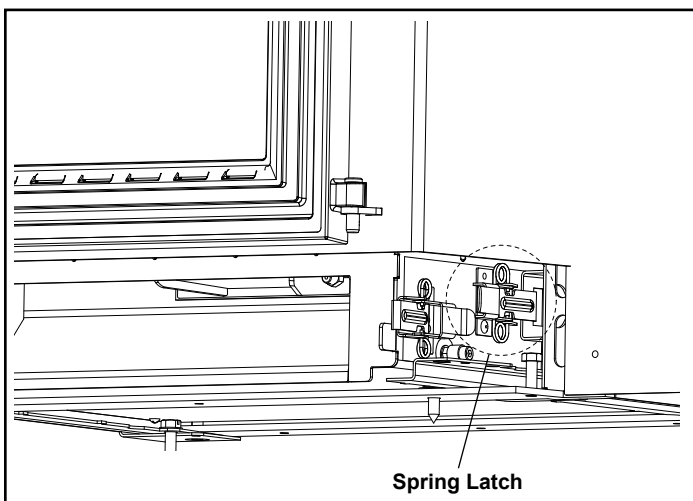


Figure 3.16

Once unit is pulled away from the fireplace, thoroughly vacuum around the Distribution Blowers. Figure 3.17.

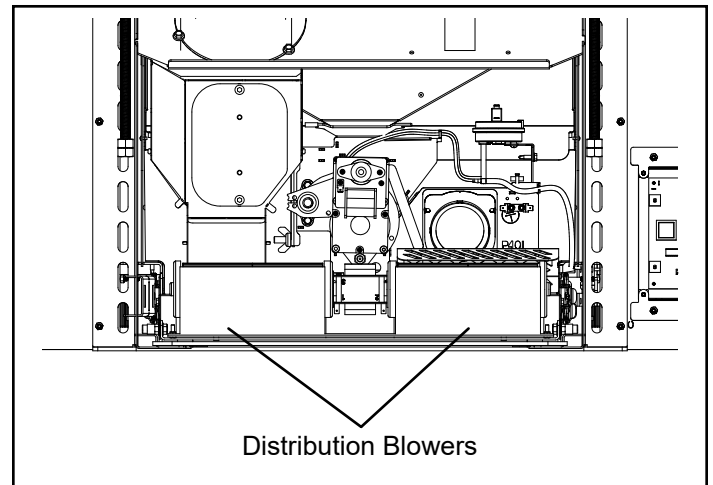


Figure 3.17

Cleaning Venting System-

Its is recommend that a certified chimney sweep perform service and inspection to your chimney system to insure your unit is vented safely and in accordance to local code.

4 Reference Material

A. Service Parts



Service Parts

Pellet Insert

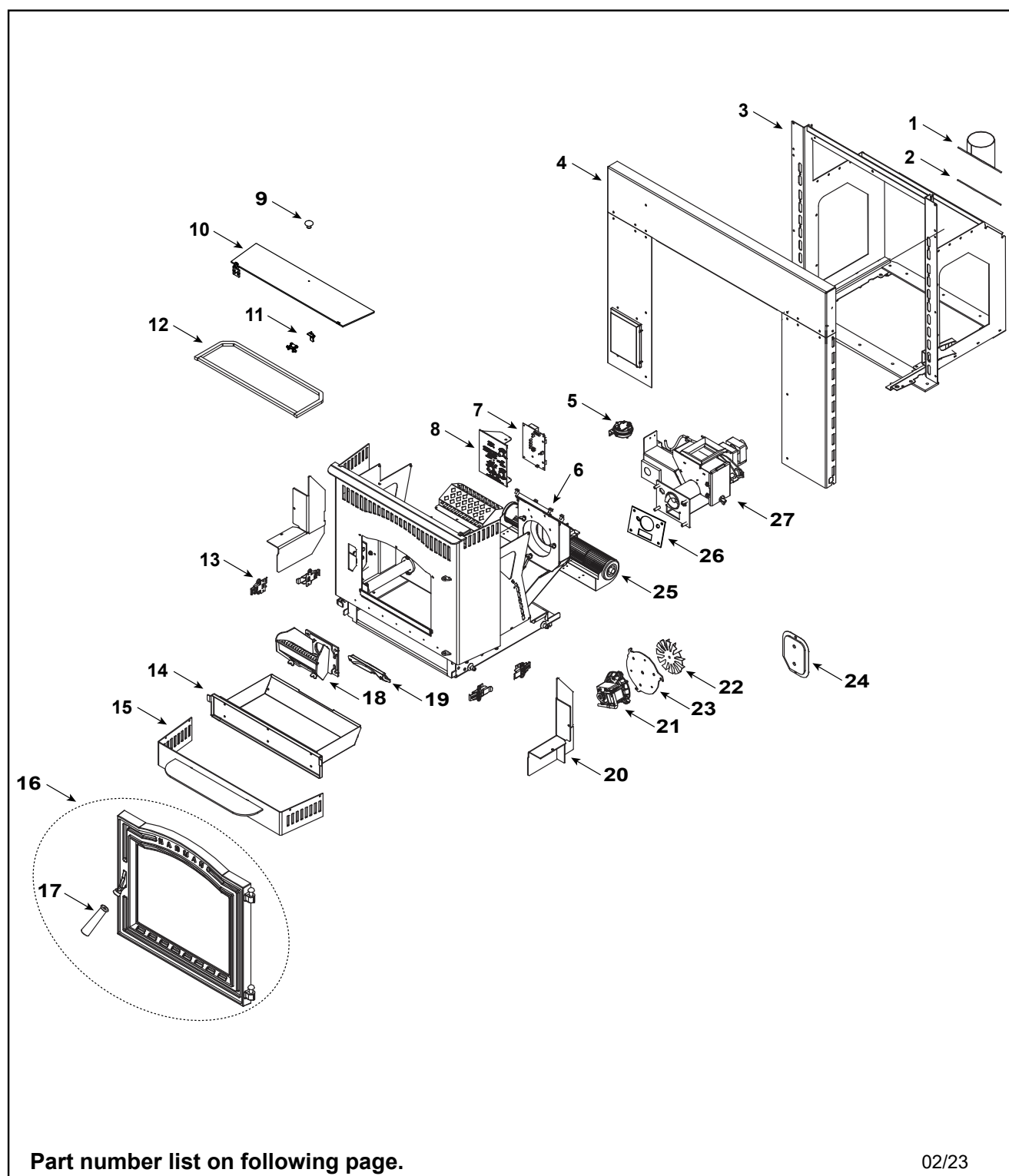
1-70-784195-1 (Black, 19.5 inch)

1-70-784235-1 (Black, 23.5 inch)

P35i-C Pellet Insert

Beginning Manufacturing Date: Jan 2020

Ending Manufacturing Date: Active



02/23

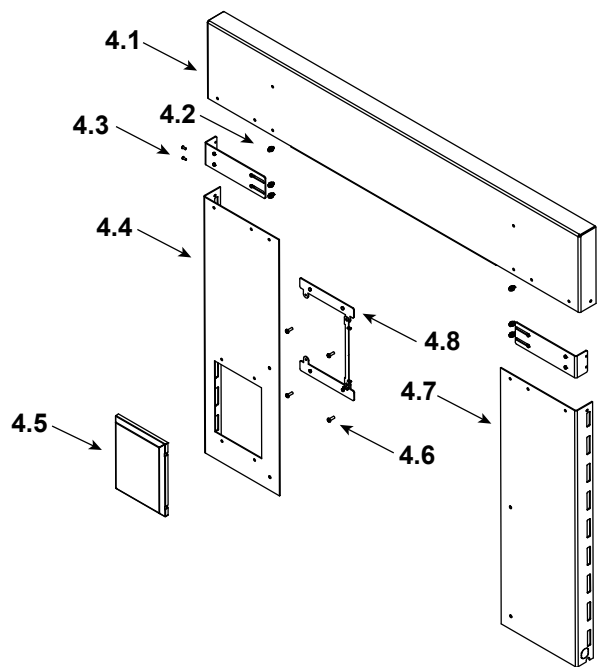
IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.



**Stocked
at Depot**

ITEM	Description	COMMENTS	PART NUMBER	
1	Pipe Stub/4 in Flex w/gasket		1-00-574034	
	3" Stub Kit		1-00-674039	
2	Gasket Set, Burnpot/Pipe Stub	Set of 5	1-00-07384	Y
3	Mounting Frame Assembly		1-10-774235A	
	Screw - HCS 5/16-18 X 1	Pkg of 12	27887/12	Y

#4 Surround Assembly



4	Wing Assembly	Over-size-Black	1-00-774250-1	
		Standard Black	1-00-774221-1	
		Custom	1-00-774221-SPL	
4.1	Surround Top	Standard	1-10-774222	
		Over-size	1-10-774250	
4.2	Machine Screw Nut10-24, Pkg of 100	Pkg of 100	3-30-8002-100	Y
4.3	Pop Rivet 1/8 X 1/8 Black	Pkg of 50	3-30-9004-50	
4.4	Surround Left	Standard	1-10-774220	
		Over-size	1-10-774248	
4.5	Control Door w/Hinge		1-00-774310	
4.6	Screw, PHM 8 X 1/2 Black	Pkg of 100	3-30-5000-100	Y
4.7	Surround Right	Standard	1-10-774221	
		Over-size	1-10-774249	
4.8	Control Board Mount	1 Set	1-00-774251	
	Wing Splices	Set of 2	2-00-774178-2	

Additional service parts on following page.

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**Stocked
at Depot**

ITEM	Description	COMMENTS	PART NUMBER	
5	Differential Switch		3-20-6866	Y
6	Docking Gasket		3-44-06108	Y
7	Circuit Board w/Knobs & Shafts		1-00-05886	Y
	Knobs & Shafts	Pkg of 25	1-00-015605	Y
8	Circuit Board Plate		1-10-774114A	Y
	5 Amp Fuses, Pkg of 5		1-00-05237	Y
	Control Panel Sticker		3-90-07766	
9	Knob w/Screw	Black	1-00-02000-1	
10	Top Assembly		1-10-774325A	Y
11	Hopper Latch	2 Sets	1-00-0669697	Y
12	3/8X1/2 Silicone PSA-20FT For hopper top		1-00-375501	Y
13	Spring Latch	Qty 4 req	3-31-00927	Y
14	Ash Pan W/Gasket		1-10-774207	Y
	Ash Pan Gasket		3-44-774211	Y
15	Ash Pan Cover Assembly		1-10-774205A	
16	Load Door	Painted Only	3-00-06718P	
	Door glass w/Gasket		1-00-00688	Y
	1/4 Rd Black PSA For glass	15 Ft	1-00-2312	Y
	Glass Clips & Hdwr		1-00-249140	Y
	Latch Kit		1-00-73553	Y
	Ball Plungers	Pkg of 3	3-31-5500-3	
	Ball Spring Bracket		2-00-06714	
	Spring Retainers, 5/16"	Pkg of 100	3-31-94807-100	
	Cast Front Door Latch		3-00-249119P	Y
	Door Latch Adjuster		2-00-06713D	
	3/8 4 Strand White-30 Ft	15 Ft	1-00-1203589	Y
	Slick Pins, 1 Pair		1-00-110	Y
17	Wood Handle w/Bolt		1-00-00247	Y
18	Burnpot w/Cleanout		1-10-774286	Y
	Igniter Cradle		1-00-777907	
	Burnpot Cleanout Cover	Set of 2	1-00-06623	Y
	Wingscrews, 1/4-20 x 5/8	Pkg of 10	3-31-782108-10	Y
19	Flame Guide		3-00-03000	Y
	Flame Guide Extension		1-00-774338	Y
20	Cleanout Cover Set	Left & Right	1-00-774213	

Additional service parts on following page.

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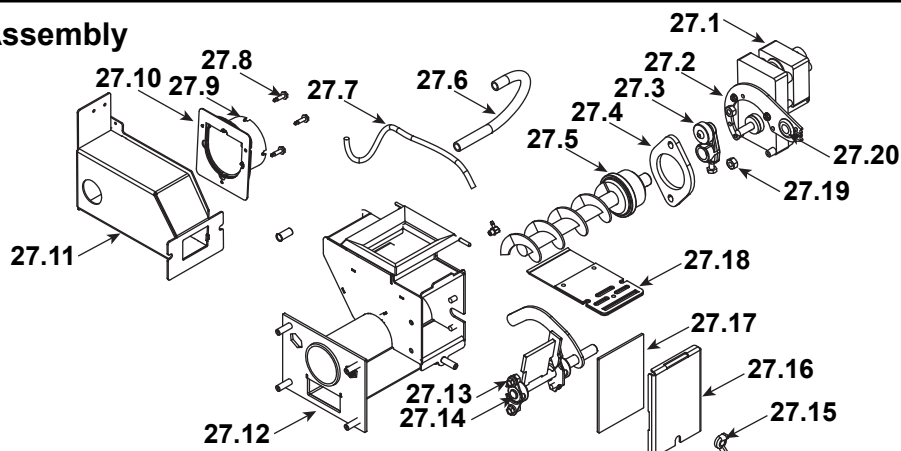


**Stocked
at Depot**

ITEM	Description	COMMENTS	PART NUMBER	
21	Combustion Blower		3-21-08639	Y
	Combustion Blower Mounting Screws (Pkg of 100)	Commonly required for Combustion Blower replacement	1-00-53483208	
22	Motor Blade, 4-3/4" Single Paddle		3-21-00661	Y
23	Combustion Blower Mount		1-10-677006	
24	Combustion Cleanout		1-10-774167A	Y
25	Distribution Blower		1-00-29145	Y
26	Gasket, Burnpot/Pipe Stub	Pkg of 5 sets	1-00-07384	Y
27	UL Feeder Assembly		See following page	
	14 Ft Power cord		3-20-674200	Y
	306W/120V Igniter 15 Fin		3-20-677200	Y
		Pkg of 10	1-00-677200	Y
	Ash Lip Trim	Brushed Stainless	3-43-08400-7	
		Bright Nickel	3-43-08400-8	
	Burnpot Scrapers	Pkg of 10	2-00-773850-10	
	Component Pack		SRV8784-000	
	Diagnostic Display Module		3-20-05401	Y
	DDM Replacement Cable		1-00-05402	
	Disconnect, 3/16" Female	Pkg of 25	1-00-08529	Y
	Disconnect, Female	Pkg of 25	1-00-00959	Y
	Disconnect, Male	Pkg of 25	1-00-00957	Y
	Door Hinge		2-00-06707L	
	Leaf Door Trim	Brushed Stainless	3-43-06717-7	
		No longer available	3-43-06717-8	
	Modern Door Trim	Brushed Stainless	3-43-06797-7	
	Draft Meter Assembly		1-00-00637	Y
	Draft Meter Bolt & Tube		1-00-04004	
	ESP-RED/RED		3-20-00844	Y
	Labels, Caution & Danger	10 Sets	1-00-200408541	
	Lintel, All Thread	Qty 2 req	3-31-00949	
	Pipe Insulation		3-44-774282	Y
	Pop Rivets, 1/8" Black	Pkg of 100	3-30-1104-100	Y
	Roller Hardware	4 Sets	1-00-05232	Y
	Room Sensor		3-20-00906	Y
	Touch up Paint, Black		3-42-19905	
	Wiring Harness		3-20-08727	Y

Additional service parts on following page.

#27 Feeder Assembly



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



**Stocked
at Depot**

ITEM	Description	COMMENTS	PART NUMBER	
27	UL Feeder Assembly		1-10-774000A	Y
27.1	Pellet Feeder CW Motor-4 RPM		3-20-60906	Y
27.2	Feeder Motor Bracket w/ Grommet		1-00-247406	Y
27.3	Bearing 3/8 ID X 1-1/8 OD		3-31-3014	Y
	Cast Cam Block		3-00-677154	Y
27.4	Pellet Feeder Bearing RETNR w/Bolts		1-00-04035	Y
27.5	Pellet Feeder Auger		3-50-00565	Y
27.6	Feeder Air Crossover Kit		1-00-67900	Y
	9MM X 13MM Tubing Kit	5 Ft	1-00-511427	Y
27.7	1/8 Silicone Tubing	5 Ft	1-00-5113574	Y
27.8	Screws-HWH TEKS 10 X 3/4	Pkg of 100	3-30-5004-100	Y
27.9	Pellet Air Intake w/Gasket		1-10-06810A	
27.10	Gasket, Feeder Air Intake	Pkg of 6	3-44-72224-6	Y
27.11	Snout Weldment w/Gasket		1-10-774143A	
27.12	Pellet Feeder Weldment		1-10-724132	Y
27.13	Flange 1/4-20 X 3/8	Pkg of 50	3-30-2000-50	Y
27.14	Pillow Block-1/2 in	Pkg of 4	3-31-3614087-4	Y
27.15	Wing Nut, 5/16-18	Pkg of 25	3-30-8012-25	Y
27.16	Short Feed CVR & Gasket		1-00-677122	Y
27.17	Pusher Arm Assembly		1-10-774354W	Y
27.18	Slide Plate		1-10-677121A	Y
27.19	Nut, FHN 5/16-18 Z 5	Pkg of 100	3-30-8005-100	Y
27.20	Grommet-1/2 in ID-Thick	Pkg of 12	3-31-2761-12	
	Silicone Cap	Pgk of 10	3-99-123/10	
	Gasket Hopper Throat		3-44-677185	Y
	Gasket, Snout	Pkg of 10	3-44-677160-10	Y
	Hopper Switch Feeder Fitting	Pkg of 2	1-00-142818	Y

B. Limited Lifetime Warranty

Hearth & Home Technologies LIMITED LIFETIME WARRANTY

Hearth & Home Technologies, on behalf of its hearth brands ("HHT"), extends the following warranty for HHT gas, wood, pellet 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 for consumers begins at the date of installation. 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. However, 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 and pellet 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					
Parts	Labor	Gas	Pellet	Wood	Electric	Venting	Components Covered
1 Year		X	X	X	X	X	All parts including handles, external enameled components and other material except as covered by Conditions, Exclusions, and Limitations listed
2 years			X	X			Igniters, Auger Motors, Electronic Components, and Glass
		X					Electrical components limited to modules, remotes/wall switches, valves, pilots, blowers, junction boxes, wire harnesses, transformers and lights (excluding light bulbs)
		X		X			Molded Refractory Panels, Glass Liners
3 years			X				Firepots, burnpots, mechanical feeders/auger assemblies
5 years	1 year	X					Vent Free Burners, Vent Free Logs
			X	X			Castings, Medallions and Baffles
6 years	3 years			X			Catalyst - Limitations Listed
7 years	3 years		X	X			Manifold tubes, HHT Chimney and Terminations
10 years	1 year	X					Burners, logs and refractory
Limited Lifetime	3 years	X	X	X			Firebox and heat exchanger, FlexBurn® System (engine, inner cover, access cover and fireback)
1 Year	None	X	X	X	X	X	All replacement parts beyond warranty period

See conditions, exclusions and limitations on the 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 or distributor 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.
- Limited Catalyst Warranty
 - o For wood burning products containing a catalyst, the catalyst will be warranted for a six-year period to the original purchaser at the site of original installation. The purchaser must provide the name, address, and telephone number of the location where the product is installed, proof of original purchase date, date of failure, and any relevant information regarding the failure of the catalyst.

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 are not covered. These parts include: paint, wood and pellet gaskets, firebricks, grates, flame guides, batteries and the discoloration of glass.
- Expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the appliance in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the appliance; (2) failure to install the appliance in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/incorrectly performed repairs (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operation 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 connections 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 the appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

This warranty is void if:

- The appliance has been over-fired, 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, deformation/warping of interior cast iron structure or components, 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.

C. Loss of Power

Harman pellet burning appliances rely on a combustion blower to remove exhaust from the firebox. A power failure will cause the combustion blower to stop running, which may lead to exhaust see page into the room. Vertical rise in the venting system can help create natural draft, which may reduce the likelihood of exhaust leakage into the home.

Installation of a low-cost uninterruptible power supply (UPS) or battery backup system can help ensure the units shuts down without any minor smoke leakage into the home. Harman recommends the installation of one of these two systems for areas prone to power outages.

There is one Harman® approved UPS option for your appliance:

Uninterruptible Power Supply UPS 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:

- **TrippLite model INTERNET750U** is 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.**

- A Inverter/Charger connects to a 12 volt deep cycle battery that will run your appliance for up to eight (8) hours. It includes a trickle charge feature that keeps your battery charged when power is available. **NOTE:** If the power is out for longer than battery life, smoke leakage may still occur unless your stove has been safely shut down.

For an approved Inverter/Charger refer to www.harmanstoves.com.

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

- In **“Automatic” Mode**, units equipped with automatic ignition will respond to the set point and ESP temperature and resume normal operation.
- In **“Idle” Mode**, 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.

IMPORTANT! : UPS or Battery Backup cannot prevent smoke leakage from an improperly maintained unit. Keep the venting system clean and free from obstructions and maintain all gaskets to keep an airtight seal.



WARNING

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

C. Emergency Manual Ignition

Harman® pellet stoves and inserts should be lit using the automatic ignition system. This is the safest and most reliable way for igniting the unit. In the event the automatic igniter is not functioning, the steps below may be followed to manually light the stove or insert in the “Constant Burn” mode. Manual lighting is for emergency purposes only, and the igniter should be repaired or replaced as soon as practical.



WARNING

Only use firestarter commercially marketed for pellet stoves and inserts, including wax coated wood chips, pellet starter gel and pellet igniter blocks. Use of any other type of firestarter is prohibited.

To avoid serious injury or death read and follow manufacturer’s warning and instructions for use of firestarter. Use of firestarter is only permitted when performing a cold start.

Never attempt to manually light a stove or insert that has been operated recently and is not at room temperature. If automatic ignition was attempted, be sure to give the stove or insert at least 30 minutes or longer to cool to room temperature.

Be sure that the stove or insert is in the “Igniter - Disabled” mode of operation.

Once all the precautions have been taken, follow these steps:

1. Turn the Mode Selector to “OFF”.
2. Fill burn pot with pellets, only half way. (Do Not Over Fill).
3. Add firestarter to pellets following manufacturer’s instructions.
4. Light pellet gel with a match, and close the door, turn Mode Selector to Constant Burn. Operation will begin when the fire reaches the proper temperature.

D. Error Code Description

Status light error messages:

2 Blinks: Indicates an open feed circuit, typically from pressure switch or hopper switch. Blink status automatically clears when feed circuit is complete. Does not blink if door/hopper is opened when stove is off.

3 Blinks: Indicates that the ESP (Exhaust Sensing Probe) has failed, has a broken connection, or has gone out of range too many times. This requires a manual reset*.

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 36 minute start cycle. To reset - Turn Mode Selector to "OFF", then turn to either mode again.)

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

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 power cord for a few seconds and reconnect. If error still occurs call your Dealer.

E. Troubleshooting

ISSUES	SOLUTIONS
Stove does not feed	<ul style="list-style-type: none">No fuel in hopper.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.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 (In Constant Burn, Manual Light Only.)Restriction in the hopper or feeder. Remove all fuel and examine. Clear the obstruction.Feed motor has failed.
Partially burned pellets	<ul style="list-style-type: none">Feed rate too high.Poor air to fuel mixture. (Check burn pot clean-out cover and air intake).Burn pot may need to be cleaned.Combination of all the 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	<ul style="list-style-type: none">No fuel in hopper.Draft is too low, blocked flue.Something is restricting fuel flow.Hopper lid not closed properly.Feed motor or combustion fan has failed.
Smoke is visible coming out of vent	<ul style="list-style-type: none">Air-fuel ratio is too rich.<ul style="list-style-type: none">- Feed rate too high.- Draft too low caused by a gasket leak.
Low heat output	<ul style="list-style-type: none">Feed rate too lowDraft too low because of gasket leak.Poor quality or damp pelletsCombination of 1 and 2.

F. Contact Information

HARMAN®
a brand of
Hearth & Home Technologies
352 Mountain House Road, Halifax, PA 17032
www.harmanstoves.com

Please contact your Harman® dealer with any questions or concerns.
For the location of your nearest Harman® dealer,
please visit www.harmanstoves.com.

- NOTES -

NOTICE



DO NOT DISCARD THIS MANUAL

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



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