

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

SAVE THESE INSTRUCTIONS.

Introduction

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

Automatic Ignition allows you to fill the hopper, set your desired room temperature and walk away. The PC 45 will adjust it's feed rate based on the temperatures received by the room sensor, and keep your home at the set temperature. The PC 45's automatic temperature control system eliminates the warm/cold cycle associated with thermostatically controlled heating systems and even turns the PC 45 on and off as needed.

Our exclusive Accordion Heat Exchanger and Air Cooled Combustion Blower allows the PC 45 to produce maximum heat without creating high exhaust temperatures. The Outside Air option can increase heat efficiency even more. The PC 45 can burn corn or grain with moisture levels up to 16%, with 14.5% or less being ideal. It can also burn pellets regardless of ash content. This allows you to buy lower cost fuel and still achieve the same results.



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

ALWAYS BE SURE THERE IS NO FUEL IN THE ASH PAN PRIOR TO BURNING THE STOVE. AFTER ANY SERVICE OR TESTING, EMPTY THE ASH PAN COMPLETELY.

THIS APPLIANCE IS ALSO APPROVED FOR INSTALLA-TION IN A SHOP.

Harman Home Heating

352 Mountain House Road Halifax, PA 17032 www.harmanstoves.com

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Assembly and Installation



Unpacking

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

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

Removing or Installing rear panels

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

Firebrick

Install the firebrick vertically on the angle above the burnpot.



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Installation

Location

Place the stove on a noncombustible floor or a floor protector providing a minimum .84 k value. Floor protection must extend 6 inches to the front, 6 inches to the sides and 1 inch to the rear of the stove.

Place the stove away from combustible walls at least as far as shown in figures 3,4 & 5. 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 recommened to protect the circuit board).

Prior to installing the flue pipe, connect a draft meter to the stove as shown in fig. 6. (The draft meter must have a minimum range of 0"- 0.5"). Turn stove to "TEST" Mode and record the draft reading ______. After the flue pipe is connected, check the draft reading again making sure all doors and windows in the home are closed. If this reading is more than.05" higher than the unconnected reading, check for possible restrictions or the need for outside air. (See page 6).

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 8.
- 3. Floor protection and clearances must be followed as shown.
- 4. Unit must be grounded to the metal frame of the mobile home.
- 5. Do not Install in a room designated for sleeping.

6. The structural integrity of the mobile home floor, walls, and ceiling/ roof must be maintained.

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 burn 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.

Installation and repair of this Harman 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, burners, and circulating air passageways of the stove be kept clean.

Mobile home installation should be done in accordance with the Manufactured Home and Safety Standard (HUD), CFR 3280, Part 24.



Requirements for Terminating the Venting

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

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

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

In addition, the following must be observed:

A. The clearance above grade must be a minimum of $18".^1$

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.¹ (**With outside air installed clearances are 18"to the side, 18" below the window/door, and 9" above the window/door.**)

C. A 12" clearance to a permanently closed window is recommended to prevent condensation on the window.

D. The vertical clearance to a ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center-line of the terminal must be a minimum of 18".

E. The clearance to an unventilated soffit must be a minimum of 12".

F. The clearance to an outside corner is 11" from center of pipe.

G. The clearance to an inside corner is 12".

H. A vent must not be installed within 3 feet (90 cm) above a gas meter/regulator assembly when measured from the horizontal center-line of the regulator.¹

I. The clearance to service regulator vent outlet must be a minimum of 6 feet. $^{1} \ensuremath{\mathsf{^{-}}}$

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".¹

(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. 1,2

M. The clearance under a veranda, porch, deck or balcony must be a minimum of 12 inches.^{1,3}(see B. also)

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

¹Certain Canadian and or Local codes or regulations may require different clearances.

²A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.

³Only permitted if veranda, porch, deck, or balcony is fully open on a minimum of 2 sides beneath the floor.

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





A combustion blower is used to extract the combustion gases from the firebox. This causes a negative pressure in the firebox and a positive pressure in the venting system as shown in fig. 7. The longer the vent pipe and more elbows used in the system, the greater the flow resistance. Because of these facts we recommend using as few elbows as possible and 15 feet or less of vent pipe. The maximum horizontal run should not exceed 48". If more than 15 feet of pipe is needed, the diameter should be increased from 3" to 4" because a larger pipe creates less flow resistance. Be sure to use approved pellet vent pipe wall and ceiling pass through fittings to go through combustible walls and ceilings. Be sure to use a starting collar to attach the venting system to the stove. The starting collar must be sealed to the stove with high temp silicone caulking.

Vent Pipe

Pellet venting pipe (also known as type "L" or "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 only 3 inches or less, depending on the manufacturer's instructions. 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 PC45 operates with a positive vent pressure **we specify that the joints also be sealed with clear silicone.**

Outside Air

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

To install outside air use 2 3/8" I.D. flex pipe part number 1-00-08543. There is a break-away hole on the rear panel which must be removed before connecting the flex pipe. The pipe should be run outside and terminate 3 feet or more to the side or below the vent pipe outlet. Never terminate the outside air above the vent pipe outlet. The maximum length run of this pipe is 15 feet. If a longer run is needed the size must be increased to 3". Inlet cover part number 1-10-08542 should be used to keep birds, rodents etc. out of pipe.

HRV

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

Avoiding Smoke and Odors Negative Pressure and Electrical Power Failure:

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

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

Hearth & Home Technologies <u>strongly</u> recommends the use of outside air in all installations, especially lower level and main floor locations.

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

When the pellet 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 pellet appliance is roof vented;

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

The outside air connection will supply most, if not all, of the demands of the pellet appliance. However, consideration must be given to the total house demand. House demand may consume the air needed for the pellet stove. It may be necessary to add additional ventillation to the space in which the pellet appliance is located. Consult with your local HVAC professional to determine the ventillation demands for your house.

Venting Configurations

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

• Installing the pellet vent with a minimum vertical rise of five feet, preferably terminating above the roof line.

• Installing outside air with the intake located below the exhaust termination.

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

• Maintain specified clearances to windows, doors, and other air inlets, including air conditioners.

• Vents should not be placed below ventillated soffits. Whenever possible, run the venting above the roof line.

• Avoid terminating the vent in an alcove location.

• Vents should not terminate under overhangs, decks or onto covered porches.

• Maintain a minimum clearance of 12" from the vent termination to the exterior wall. If you see deposits developing on the wall, you may need to extend this distance to accomodate your installation conditions.

Optional Battery Back-Up

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

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





#1 Preferred method

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

#2 Preferred method

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

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

CAUTION

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



#3 Installing into an existing chimney

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

#4 Installing into an existing fireplace chimney

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

The damper area must be sealed with a steel plate or fiberglass. A cap should be installed on the chimney to keep out rain. If the chimney condition is questionable you may want to install a liner all the way to the top as in method #5. Check with your local regulations, some municipalities require a complete liner.



#5 Installing into an existing fireplace chimney

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

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

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

#6 Installing into an existing chimney

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

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

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



#7 Installing through the ceiling vent

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





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

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

INSTALL VENT AT CLEARANCES SPECIFIED BY THE MANUFACTURER

CAUTION

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

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Grain Cap Installation

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

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

Installation:

1. Hook the slot on the grain cap over the lip on the side rail of the burnpot, as shown on left.

2. Allow the grain cap to rest onto the burnpot sides.



Burn Pot with Smaller Holes

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

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

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



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Pellet Fuel Optimization

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





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



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



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

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



AUTOMATIC IGNITION/OPERATION

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

"MANUAL" at any time during operation.



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



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



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

Igniter switch to "AUTO"

Room 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 rate setting. This setting, generally on #2 (corn) or #4 (pellet), can be increased if higher burn rates are necessary.

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

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

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

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

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

Igniter switch to "AUTO"

Stove Temperature Mode

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

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

Shut-Down Procedure

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

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

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

AUTOMATIC START UP



Starting the Fire

Igniter Switch to"AUTO"(up position)

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

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

1.Turn the Mode Selector to "OFF"

2. Fill the hopper with corn or pellets.

3. Clean the burn pot and housing, if necessary.

4. If starting after an empty hopper, turn the feed adjuster to "TEST" until the fuel is visible in the auger tube opening. This also allows you to check the motors for operation.

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

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

5. Turn the feed adjuster to #2 (corn) or #4 (pellet)

6. Flip the igniter switch up into the "AUTO" position.

7. Turn the temperature dial to the desired room temperature.

8. Turn the mode selector dial to Room Temperature or Stove Temperature.

9. Fill the hopper with corn or pellets and remove the ashes as required.

Warning

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

MANUAL IGNITION/OPERATION



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

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

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



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



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

Igniter Switch to "MANUAL"

Room Temperature Mode

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

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

Igniter Switch to "MANUAL"

Stove Temperature Mode

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

During operation, with the temperature dial set at #5 or less, the distribution fan will not operate. A #5 on the temperature dial is approximately 80% output. It is not necessary to operate the distribution blower below this point. Therefore, there can be a higher burn rate (a larger viewing fire) without an excess of hot air blowing into the room.

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

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

MANUAL START UP





Pellet Burnpot Setup



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".

Starting the Fire

Igniter Switch to "MANUAL" (down position)

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

Burning Corn

1. Turn the Feed Adjuster to the desired feed rate, approximately #2.

2. Turn the Mode Selector to "OFF" and then to the desired mode. This will reset the control and start the combustion motor.

- 3. Turn the Temperature Dial to the desired setting.
- 4. Clean the burnpot and housing, if necessary.

5. Fill the burnpot with corn up to the auger shaft. Then place pellets on top of the corn as high as the shelf area. See corn burnpot shown on left.

6. Add starting gel on top of the pellets, stir gel into the pellets and corn for faster lighting.

7. Light the starting gel with a match and close the door. Operation will begin when the fire reaches the proper temperature.

8. Fill the hopper with corn and remove the ashes as required.

Burning Pellets

1. Turn the Feed Adjuster to the desired feed rate, approximately #4.

2. Turn the Mode Selector to "OFF" and then to the desired mode. This will reset the control and start the combustion motor.

3. Turn the Temperature Dial to the desired setting.

4. Clean the burnpot and housing, if necessary.

5. Fill the burnpot with pellets so that the auger tube opening is covered and slopes away from the auger tube opening. See pellet burnpot shown on left. If using corn burnpot setup, fill to same level as corn above.

6. Add the starting gel on top of the pellets. Stir the gel into the pellets for fast lighting.

7. Light the starting gel with a match and close the door. Operation will begin when the fire reaches the proper temperature.

8. Fill the hopper with pellets and remove the ashes as required.

Shut-Down Procedure

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

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

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

AUTOMATIC IGNITION ESP CONTROL



Status light error message

scale marked from 1 to 7.

3 Blinks: Indicates that the ESP (Exhaust Sensing Probe) has gone out of range. If the stove seems to be operating correctly, perform a manual reset*. If the error code persists, contact your dealer for service.

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

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

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

only. Requires special DDM monitor supplied to Harman Dealers exclusively.

6 Blinks : Indicates that the control has calculated poor or incomplete combustion occurring for more than 50 minutes. See Troubleshooting section for more details.

A six blink status may be set if the stove is allowed to run out of pellets. To reset, turn mode selector to "OFF" then back on to the desired mode. If the unit was not out of pellets, see Troubleshooting section, Page 21, for more details.

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

distribution blower speed by

turning the knob to the high or

low side of each mode.

Low Draft Voltage Adjustment



Low Draft Voltage Adjustment

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

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

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

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

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



Draft Test Instructions

1. Attach a draft meter capable of reading up to a minimum of 0.5 inches of water column (W.C.).

2. Plug the unit's power cord into a 120VAC, 60 HZ grounded outlet.

3. Close the hopper lid, front view door, and the ash pan access door. Neither fuel or a fire are required for this test.

4. With the mode selector in the "OFF" position, turn the feed adjuster to "TEST".

5. Record the high draft_____in W.C. (Normal is

-.35 to -.55) The control will be on the High Draft for a total of 2 minutes.

6. After 2 minutes is up, the combustion motor will go down to low draft and the distribution blower will go on high. Allow approximately 15 seconds to pass for the combustion motor to slow before checking the low draft.

7. If the low draft is between -.25 and -.35, record the reading _____ in W.C. If the reading is higher, slowly turn the set screw counter-clockwise until the draft lowers. If the reading is lower, <u>very slowly</u> turn the set screw clockwise until the draft increases.

NOTE: The test mode alternates from high to low draft every 60 seconds. If more time is needed for draft adjustment, wait until the next low draft cycle.

NOTE: In some cases, the draft may not go as low as -.25 to -.35 even with the set screw completely counter-clockwise. This is not a problem.

Maintenance





Removing Ashes:

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

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

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

ASHES SHOULD BE PLACED IN A METAL CONTAINER WITH A TIGHT FITTING LID. THE CLOSED CONTAINER OF ASHES SHOULD BE PLACED ON A NONCOMBUSTIBLE FLOOR OR ON THE GROUND, WELL AWAY FROM ALL COMBUSTIBLE MATERIALS, PENDING FINAL DISPOSAL. IF ASHES ARE DISPOSED OF BY BURIAL IN SOIL OR OTHERWISE LOCALLY DISPERSED, THEY SHOULD BE RETAINED IN THE CLOSED CONTAINER UNTIL ALL CINDERS HAVE THOROUGHLY COOLED.

Cleaning:

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

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

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

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

Maintenance





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

Fig. 32





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

Fig. 34: Blower cover removed.

(Cleaning continued)

5. Remove the ash pan.

6. Remove the combustion blower cover by turning the blower cover latch vertical as shown in fig. 32. Slide the cover out of the slot on the left. This will expose the combustion blower wheel and flue outlet, fig. 33.

7. Clean the blower wheel with a brush and a vacuum cleaner.

8. Use a brush to clean the flue, being careful not to damage the ESP probe. The flue goes straight through into the vent pipe therefore, the vent pipe can also be cleaned to some extent through the flue outlet.

9. Reinstall the blower cover and relatch.

10. Slide the ash pan into the stove and close and latch the door.

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

Cleaning of Feeder Fines Area

1. Remove the rear shields to access the feeder cover.

2. Remove the wing nut on the feeder cover and slide the cover off the threaded rod.

3. Remove all fines with a vacuum.

4. Replace the feeder cover and rear shields.





Fig. 36: For further details see exploded view on page 22.

Soot and Fly Ash

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

Maintenance - Burn Pot





Fig. 39: Pellet "only" Burnpot Setup)



Burn Pot Cleaning and Maintenance

1. Be sure the stove power is turned off.

2. Lift up and remove the front plate lock and front plate. Set aside the front plate.

3. Remove the auger extension by pulling toward you, then set aside (corn burnpot only)

4. Remove burnpot grate and set aside.

5. Clean all fines and debris that has accumulated.

6. Install the "cleaned" burnpot grate making sure the 2 holes line up with the 2 tabs in the burnpot housing.

7. Now install the spare "clean" auger extension into the auger shaft. Make sure there isn't any corn or debris in the shaft opening. This will prevent the auger extension from being fully inserted into the shaft.

8. Align the auger extension through the hole in the "clean" front plate and place front plate against the burnpot grate and housing.

9. Install the front plate lock.

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

Cleaning of Burnpot Parts

Cleaning can be performed in 2 basic ways:

1. Because the corn slag buildup will absorb moisture from the air when cool, the parts can just be left exposed for several days and the slag buildup will crumble off of the parts.

2. To accelerate this process, the parts can be soaked in water for approximately 30 minutes (depending on the amount of buildup, they could be cleaned in less time).

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

The draft pressure switch senses the pressure in the hopper. Note the location of this fitting, known as the muffler. Depending on the amount of fines in the fuel, this muffler may need to be cleaned periodically. Use caution when cleaning or emptying the hopper.

PC 45 Trouble-Shooting

FEEDER DOES NOT FEED

1. No fuel in hopper.

2. Firebox draft may be too low for low draft pressure switch in feeder circuit to operate. Check for closed doors, loose or missing gasket on doors or hopper lid, faulty pressure switch.

3. Feed motor will not run until ESP senses 200° F. Maybe you did not put enough fuel in the burn pot before lighting the fire.

4. Something is restricting flow in the hopper or causing the slide plate to stick.

5. Feed motor has failed.

PARTIALLY BURNED FUEL

1. Feed rate too high.

2. Draft too low.

3. Burn pot may need to be cleaned.

4. Combination of all the above.

5. #6 status blink: A 6 blink control board status indication is caused by poor or incomplete combustion. The circuit board has the ability to track the combustion through feed settings and ESP temperatures. When the control board has calculated poor or incomplete combustion it will shut down the unit as a safety feature. (Poor or incomplete combustion is a contributer of creasote 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. There is no fuel in the hopper.

COMBUSTION BLOWER RUNS AFTER SHUT DOWN

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

SMOKE SMELL

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

FIRE HAS GONE OUT

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

SMOKE IS VISIBLE COMING OUT OF VENT

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

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LOW HEAT OUTPUT

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

Helpful Hints

Cleaning Burn Pot

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

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

Removing Ashes

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

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

Keep the stove free of dust and dirt.

Fuel

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

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

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

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

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

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

Specifications



Options



Optional Trim

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

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

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

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

Decorative Tile

Decorative tile is available in several configurations, there are four choices in slate, ten ceramic picture tiles, or one brushed stainless deer tile (shown above) to choose from. The tile installs behind the trim on the ash door.

Cleaning Plated Trim

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

Direct Vent Wall Passthrough

The direct vent wall passthrough allows you to bring outside air in for combustion, and safely pass your pellet venting through the wall while only needing to make one hole. The pass through is adjustable for different wall thickness from $4\frac{1}{2}$ " to $10\frac{1}{8}$ " thick. Item # 1-00-677077 is compatible with 3" venting only.



Optional Hopper Screen (Corn Strainer)

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

Burnpot Grates

The PC-45 includes two burn grates. You'll notice that they each have different sized air holes in them. Use the grate that fits your fuel the best. In most cases, the smaller holes will be best with corn and the large holes will be best for pellets. Feel free to experiment with both grates.

OPTIONS

Room Sensor Installation



The room sensor is a small temperature sensor on the end of a 60" wire. This sensor is installed much like a standard wall thermostat. Because it is so small, it can be hidden along the trim of a doorway or even up the leg of a coffee table. There is a remote room sensor port on the rear of the unit for easy external connection. Use standard 18-2 thermostat wire to extend the distance to the desired location (100' 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.

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

Hopper Extension

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



On the rear of the stove hopper there is a hole to fasten the hopper extension into place. On some units, this hole will need to be opened. You will notice a small uncut area on rear of the knockout. Push downward with a screwdriver or like tool until the knockout is rotated as far back to the inside of the hopper as possible. This will allow the swell latch of the hopper extension to fully expand to the bottom side of the hole for a proper seal.

Ceramic Log Set

Side Heat Shields

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



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



PC 45 Wiring Diagram



Hearth & Home Technologies Inc. LIMITED LIFETIME WARRANTY

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



Service Parts

PC45 Pellet

Service Parts Diagram Steel Pellet Stove Beginning Manufacturing Date: N/A Ending Manufacturing Date: Active

1-90-06800-1 (Black), 1-90-06800-2 (Charcoal), 1-90-06800-3 (Goldenfire), 1-90-06800-4 (Metallic Blue), 1-90-06800-5 (Honey Glo), 1-90-06800-10 (Mojave Red), 1-90-06800-12 (Forest Green)



PC45 Pellet

Stocked

at Depot

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

PART NUMBER

IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

Description

1	Hopper Assembly		1-10-08622	
2	Feeder Assembly		1-10-724129A	
3	Flue Tail Pipe		3-00-247237	Y
4	Auger Motor Cover		2-00-02676P	Y
5	Auger Motor Shield		2-00-06467P	Y
6	Differential Switch		3-20-6866	Y
7	Distribution Blower		3-21-22647	
8	Combustion Blower		3-21-08639	Y
9	Rear Cover Left		2-00-06468-1P	Y
10	Rear Cover Right		2-00-06468-2P	Y
11	Combustion Intake Weldment		1-10-02677W	Y
12	Retainer Assembly		1-10-08533S	Y
13	Ash Pan		1-10-05800	
14	Ash Door Assembly		1-10-06724S	
15	Bolt on Hinge Weldment		2-00-06952B	
16	Cast Door Frame		4-00-06800P	
17	Glass Panel		3-40-950133125	
18	Door Handle Assembly	Pre 1529	1-00-08704	Y
10		Post 1529	1-00-453001	Y
	Wooden Handle, Load Door		3-40-00247	
19	Burn Pot			
Δ	Pure Bot Crote Weldmont	Large Hole	1-10-724108	Y
		Small Hole	1-10-724208	
В	Burn Pot Housing Weldment		1-10-724103	
С	Auger Extension		3-00-02676	
D	Burn Pot Front Plate		2-00-724107	Y
E	Burn Pot Front Plate Lock		2-00-724105	Y
20	Fire Brick 4-1/2 x 9 x 1-1/4"	Qty 3 req	3-40-900450125	
21	Hopper Heat Shield		2-00-06471B	
22	Feeder Cover		2-00-773826L	
23	Circuit Board		3-20-05887	Y
	Circuit Board Plate		1-10-02678	
	Knob, Contol Board/D-Shaft	Qty 3 req	3-31-605	
	Control Knob Shaft, D-Shaped	Qty 3 req	3-31-015	
	Gasket Placement			
А	Gasket, Pellet Burn Pot		3-44-00409	
В	Gasket, Burn Pot		3-44-724115	Y
D	Insert, Ceramic		3-20-05238	Y
С	Insert Plate, Ceramic		2-00-724104	Y

Additional service parts on following page.

Service Parts ARM O M E H G E А N

ITEM

Service Parts List **Steel Pellet Stove**

COMMENTS

PC45 Pellet

Stocked



Service Parts

Service Parts List Steel Pellet Stove Beginning Manufacturing Date: N/A Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

in this m	is manual may be ordered from an authorized dealer.				
ITEM	Description	COMMENTS	PART NUMBER		
	Air Pump		3-20-02679	Y	
	Air Pump Filter		3-20-02679A		
	Air Pump Fitting		3-20-02679B		
	Air Pump Rebuild Kit		1-00-724135		
	Arrow Burn Pot Scraper		2-00-773850		
	Fan Blade, 5" Single Paddle (Combustion Blower)		3-20-40985	Y	
	Fuse, 6 Amp		3-20-49447	Y	
	Gasket, 1/4" Rope Black W/PSA Per Inch (Glass)		1-00-2312	Y	
	Gasket, 3/8" Rope White LD Per Inch (Ash Door or Load I	Door)	1-00-00888	Y	
	Gasket, Hopper		1-00-00248	Y	
	Gasket, Pellet Tailpipe		3-44-06179	Y	
	Glass Clip	Qty 4 req	2-00-773862		
	Hopper Lid W/Hinge		1-10-09109		
	Igniter		3-20-02677	Y	
	Igniter Barb Fitting		3-10-724203		
	Igniter Mounting Bracket		2-00-724121B	Y	
	Latch, Swell/Hopper		3-31-199110		
	Outside Air Vent		1-10-08542		
	Room Sensor		3-20-00906		
	Rubber Feet, Air Pump		3-20-02679C		
		Pre 008055031	1-00-00744	Y	
	Thermister Probe (ESP Probe)	Post 008055031	3-20-00844	Y	
	Wiring Harness		3-20-02680		
	Owners Manual		3-90-02686		
		Black	3-42-1990		
		Metalic blue	3-42-6196		
	Touch Paint (12 ounce)	Forest Green	3-42-6198		
	(Charcoal	3-42-6201		
		Mojave Red	3-42-6319		
		,	-	I	

Additional service parts on following page.



Service Parts

Service Parts Diagram Steel Pellet Stove

PC45 Pellet

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



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number. All parts listed in this manual may be ordered from an authorized dealer.

ITEM	Description	COMMENTS	PART NUMBER	
1	Air Intake Damper		1-10-06810A	
2	Air Intake Weldment		1-10-06461	
3	Feeder Weldment		1-10-724128	
4	Slide Plate Assembly		1-10-08037	
5	Pusher Arm Assembly		1-10-08535	Y
6	Gasket, EPDM Feeder		3-44-677153	Y
7	Feed Cover		2-00-677152B	Y
8	Auger Assembly		3-50-00465	Y
9	Cam Bearing		3-31-3014	Y
10	Bearing Flange		2-00-04035L	
11	Bracket, Gear Motor		2-00-01534L	
12	Gear Motor, 4 RPM		3-20-60906	Y
13	Feeder Cam Block		3-00-00153	
	9 mm Silicone Tubing		1-00-511427	

Stocked

at Depot