



# Arbor

- Horizontal Or Vertical Vent
- Freestanding Stove
- Mobile Home Approved
- Class A Chimney Retrofit
- Hearth Stove into Existing Masonry Chimney , Masonry Fireplace, or Z.C. Fireplace



- Please read this entire manual before installation and use of this pellet fuelburning room heater. Failure to follow these instructions could result in property damage, bodily injury, or even death.
- -- Contact local building or fire officials about restrictions and installation inspection requirements in your area.
- -- Save these instructions.
- Installer: After installation give this manual to the home-owner and explain operation of this stove.



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Part # 100-01191\_000

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# Introduction

We welcome you as a new owner of an Arbor pellet heater. In purchasing an Arbor you have joined the growing ranks of concerned individuals whose selection of an energy system reflects both a concern for the environment and aesthetics. The Arbor is one of the finest home heaters the world over. This manual will explain the installation, operation, and maintenance of this pellet-burning heater. Please familiarize yourself with the Owner's Manual before operating your heater and save the manual for future reference. Included are helpful hints and suggestions which will make the installation and operation of your new heater an easier and more enjoyable experience. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your heater.

# Important Information

No other Arbor heater has the same serial number as yours. The serial number is on the safety label on the back of the appliance.	Mail your Warranty Card Today, and Save Your Bill of Sale.		
This serial number will be needed in case you require service of any type. Model: Arbor PS	To receive full warranty coverage, you will need to show evidence of		
Model: <u>Arbor PS</u> Serial Number:	the date you purchased your heater. Do not mail your Bill of Sale to us.		
Purchase Date:	We suggest that you attach your		
Purchased From:	Bill of Sale to this page so that you will have all the information you need in one place should the need for service or information occur.		



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# Safety Precautions





- Do not operate the heater if you smell smoke coming from the heater. Turn the **MODE** switch to "OFF", monitor your heater, and call your dealer.
- 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.





- Contact your local building officials to obtain a permit and information on any installation restrictions or inspection requirements in your area. Notify your insurance company of this heater as well.
- The exhaust system **must** be completely airtight and properly installed. The pellet vent joints must be sealed with RTV 500° F. (260° C.) silicone sealant.



- Do not unplug the heater if you suspect a malfunction. Turn the MODE SWITCH to "OFF" and periodically inspect the heater.
- Never try to repair or replace any part of the heater unless instructions are given in this manual. All other work should be done by a trained technician.



- This unit must be properly installed to prevent the possibility of a house fire. The instructions must be strictly adhered to. Do not use makeshift methods or compromise in the installation.
- Your heater requires periodic maintenance and cleaning (see "Maintaining Your Heater"). Failure to maintain your heater may lead to smoke spillage in your home.





- The viewing door and ashpan must be closed and latched during operation.
- Never block free airflow through the open vents of the unit.
- Do not operate the heater if the flame becomes dark & sooty of if the firepot overfills with pellets. Turn the MODE SWITCH to "OFF" and periodically inspect the heater (see "Running Your Heater").

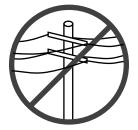




- Allow the heater to cool before carrying out any maintenance or cleaning. Ashes must be disposed in a metal container with a tight lid and placed on a non-combustible surface well away from the home or structure.
- This heater is designed and approved for pelletized wood fuel or a mixture up to 50% corn, 50% pellets. See page 26 for details on using a corn pellet mix.

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# Safety Precautions





- The heater will not operate during a power outage. If a power outage does occur, check the heater for smoke spillage and open a window if any smoke spills into the room.
- Keep foreign objects out of the hopper.



- 1
- This heater must be connected to a standard 115 V., 60 Hz grounded electrical outlet. Do not use an adapter plug or sever the grounding plug. Do not route the electrical cord underneath, in front of, or over the heater.
  - When installed in a mobile home, the heater must be bolted to the floor, have outside air, and NOT BE **INSTALLED IN THE** BEDROOM (Per H.U.D. requirements). Check with local building officials.

- This⊓ Manua



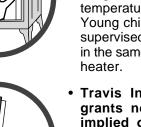
- Disconnect the power cord before performing any maintenance.
- NOTE:
- Turning the Mode Switch to "OFF" does not disconnect all power to the heater.
- Do not throw this manual away. This manual has important operating and maintenance instructions that you will need at a later time. Always follow the instructions in this manual.
- Do not place clothing or other flammable items on or near the heater. Because this heater can be controlled by a thermostat there is a possibility of the heater turning on and igniting any items placed on or near it.



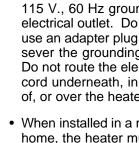
Mobile

Home

- The exhaust system should be checked twice a year minimum for any build-up of soot or creosote.



- Do not touch the hot surfaces of the heater. Educate all children of the danger of a hightemperature heater. Young children should be supervised when they are in the same room as the
- Travis Industries, Inc. grants no warranty, implied or stated, for the installation or maintenance of your heater, and assumes no responsibility of any consequential damage(s).





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# **Specifications**

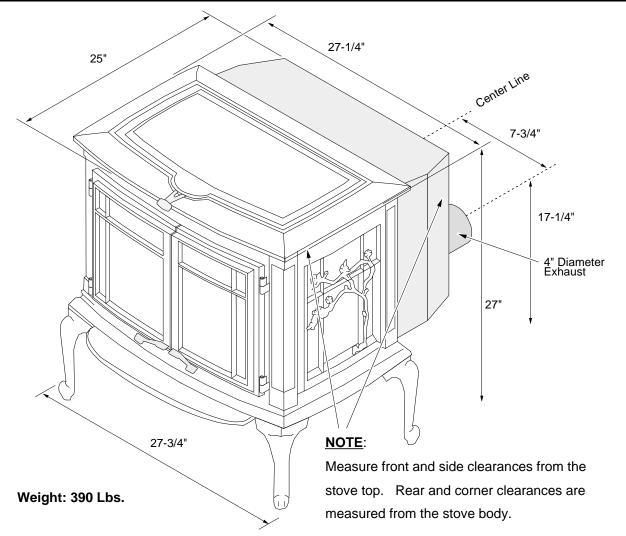
# Heating Specifications

Approximate Maximum Heating Capacity (in square feet)*	800 to 2,250 Sq. Feet
Burn Rate (Pounds per Hour)**	1.7 to 5.5
Maximum Burn Time on Low Burn**	
Hopper Capacity	50 Pounds
* Heating capacity will vary depending on the home's floor plan, degree of insulation, and the outs	

\* Heating capacity will vary depending on the home's floor plan, degree of insulation, and the outside temperature. It is also affected by the fuel size, quality, and moisture level.

\*\* Small pellets will increase or decrease the stated burn rates and burn times. Differences of plus or minus 20% depending on fuel quality may occur.

# Dimensions



# **Electrical Specifications**

Electrical Rating	
Watts During Start-Up Sequence	
Watts During Operation	

## Fuel

• This heater is designed and approved for pelletized wood fuel or a mixture up to 50% corn, 50% pellets. See page 26 for details on using a corn pellet mix.

# **EPA** Compliance

This heater has been tested exempt from EPA Phase II Requirements by OMNI-Test Laboratories, Inc.

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## Before You Begin

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

Check with local building officials for any permits required for installation of this pellet heater and notify your insurance company before proceeding with installation.

#### Packing List

- Thermostat & Wire
   • Scraper Rod Tool
   • Brush
   • Spare Fuse
   • Bottle Brush
   • Door Tool
- (2) Floor Mounting Brackets

## Installation Options

- Residential or Mobile Home (see the section "Mobile Home Requirements")
- Alcove Compatible (see the section "Alcove Installation")
- Horizontal or Vertical Vent
- Outside Air Compatible
- Vent with L-Vent, L-Vent Fireplace Liner, or Type A Chimney (with adapter)

## Planning The Installation

HINT:	Have an authorized Travis Industries dealer install this heater. If you install the heater yourself, have your dealer review your installation plans.
HINT:	Sketch out a detailed plan of the installation including dimensions. Then verify the dimensions with the requirements listed in this manual.
HINT:	When determining the location of the stove, locate the wall studs (for horizontal penetrations) and ceiling trusses (for vertical penetrations). You may wish to adjust the stove position slightly to ensure the vent does not intersect with a framing member.
HINT:	Place the heater outside and load 10 pounds of pellets inside the hopper. Plug the heater in and let it run on HIGH until the pellets run out. This will cure the paint and burn off any oil on the steel, eliminating any smell inside the home.

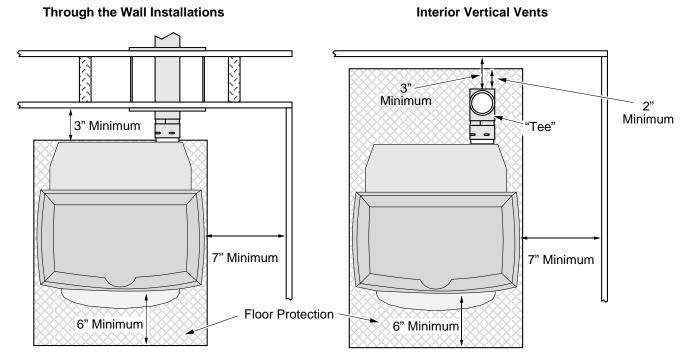
#### Stove Placement

- Stove must be placed so that no combustibles are within, or can swing within (e.g. drapes, doors), 36" of the front of the heater.
- If the stove is placed in a location where the ceiling height is less than 7', it must follow the requirements in the section "Alcove Installation Requirements".
- HINT: REDUCING CLEARANCES Clearances may be reduced by methods specified in NFPA 211, listed wall shields, pipe shields, or other means approved by local building or fire officials.
- Heater and floor protection must be installed on a level, secure floor.

## Floor Protection Requirements

- The heater must be installed on a non-combustible floor protector extending the full width and depth of the heater and extending 6" in front (minimum 27-3/4" wide by 31" deep) (minimum .018" thick 26 gauge).
- Must extend under and 2" to each side and rear of a "Tee" (if used).

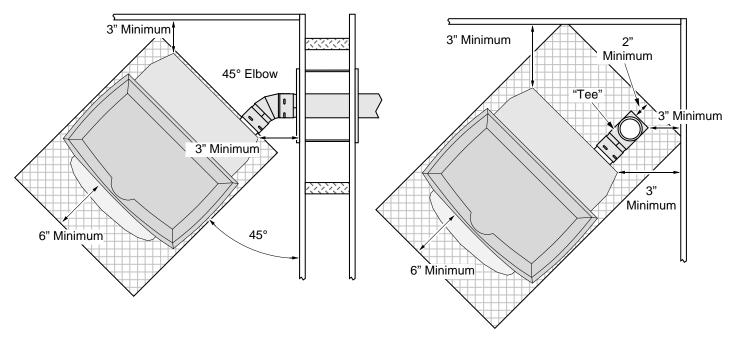
# **Clearances - Straight Installation**



# **Clearances - Corner Installation**

#### Through the Wall Vents

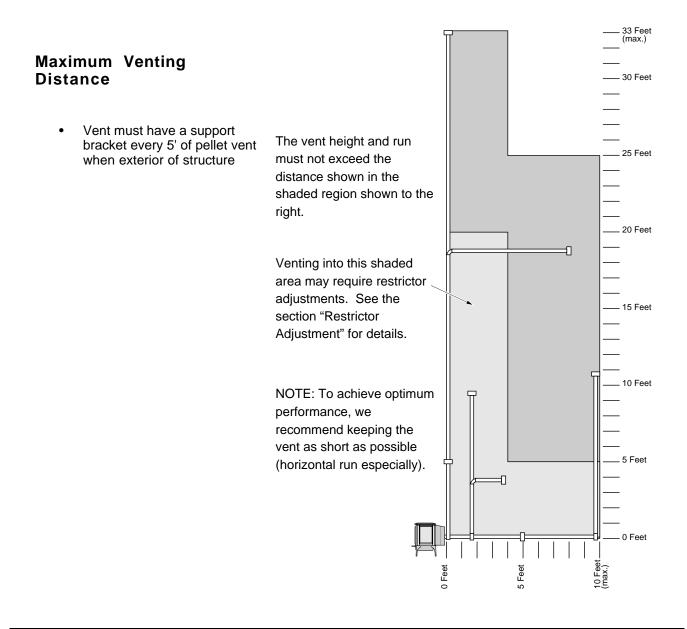
#### **Interior Vertical Vents**



**Note**: If interior vertical pellet vent is used, the clearance to the backwall is determined by the upward-turning elbow or "Tee". It will vary in depth depending on the brand of pellet vent used (it is approximately 5"). Before placing the heater, connect the elbow or "Tee" and measure off the 3" clearance.

## Venting the Pellet Stove

- PELLET VENT MUST MAINTAIN A MINIMUM 3" CLEARANCE TO ANY COMBUSTIBLE (INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER).
- DO NOT CONNECT THE PELLET VENT TO A VENT SERVING ANY OTHER APPLIANCE OR STOVE.
- DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS UNIT.
- USE AN APPROVED WALL THIMBLE WHEN PASSING THE VENT THROUGH WALLS AND A CEILING SUPPORT/FIRE STOP SPACER WHEN PASSING THE VENT THROUGH CEILINGS (MAKE SURE TO MAINTAIN 3" CLEARANCE TO ANY COMBUSTIBLES.
- No more than one tee and 180° of elbows (one tee with two 90° elbows, one tee with one 90° and two 45° elbows, etc.).



#### **Pellet Vent Type**

Must be 4" diameter Type "L" (except for masonry fireplace installations) - or - connect the vent to a factory built type "A" chimney. All vent joints (including adapters, elbows, etc...) must be sealed with 500° F. RTV silicone.

#### Installing the Pellet Vent

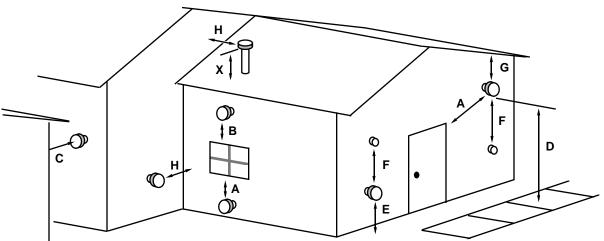


Seal each vent section (including adapters, elbows, etc...) by injecting a liberal amount of 500° F. RTV silicone into the gap between sections.

- Horizontal sections must have a 1/4" rise every 12" of travel.
- Pellet vent connections must be sealed airtight with 500° F. RTV silicone and screwed together with at least three sheet metal screws.

#### **Pellet Vent Termination**

- Vent must terminate on the exterior of the dwelling. Horizontal terminations must protrude a minimum12" from the wall. Vertical terminations must protrude a minimum 24" from the roof surface. In addition, all clearances listed below must be met.
- Must have an approved cap (to prevent water from entering) or a 45° downturn with rodent screen.
- If the termination is located on a windy side of the house, an approved house shield is recommended to prevent soot from building up on the side of the house.
- Must not be located where it will become plugged by snow or other material.

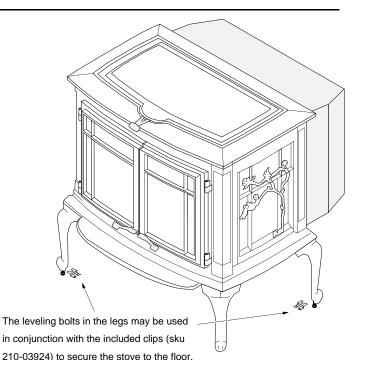


NOTE: Measure clearances to the nearest edge of the exhaust hood.

- A Minimum 4' clearance below or beside any door or window that opens
  - Minimum 1' clearance below or beside any window that does not open.
- B Minimum 1' clearance above any door or window that opens
- C Minimum 2' clearance from any adjacent building
- D Minimum 7' clearance above any grade when adjacent to public walkways
- **NOTE:** Vent may not terminate in covered walkway or breezeway.
- E Minimum 2' clearance above any grass, plants, or other combustible materials
- F Minimum 3' clearance from any forced air intake of any other appliance
- G Minimum 2' clearance below eaves or overhangs
- H Minimum 1' clearance horizontally from combustible wall
- X Must be a minimum of 2' above the roof

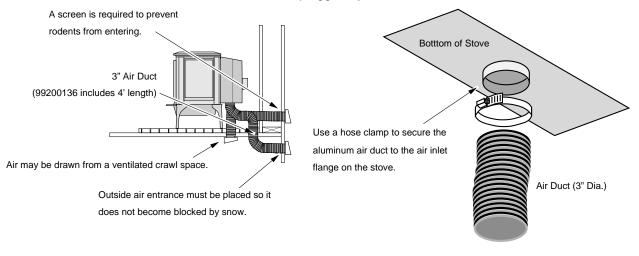
# Mobile Home Requirements

- Outside air is required (used for combustion) - see the directions below.
- The heater must be bolted to the floor (Some states do not require this; check with your local building department). See the illustration to the right.
- The heater must be grounded to the steel chassis of the mobile home (Some states do not require this; check with your local building department).
- WARNING: DO NOT INSTALL IN SLEEPING ROOM.
- CAUTION: THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED. The leveling bolts in the legs may be used in conjunction with the included clips (sku 210-03924) to secure the stove to the floor



# Outside Air (used for combustion)

- Must not be drawn from an enclosed space (garage, unventilated crawl space).
- HINT: Travis Industries strongly suggests outside air for all residential installations, especially for those that are energy efficient, air-tight homes.
- Must not be over 15' long.
- Must be made with 3" diameter or larger metal or aluminum duct with a metal screen attached to the end to keep out rodents (P.V.C. or other combustible materials may not be used). We recommend the Travis Industries Outside Air Kit (part # 99200136).
- Must not terminate above or within 1' of the chimney termination.
- Must have a rain cap or down-turned elbow to prevent water from entering.
- Must be located so that it will not become plugged by snow or other material.



# Alcove Installation Requirements

When the pellet stove is placed in a location where the ceiling height is less than 7' tall, it is considered an alcove installation. Because of the reduced height, the requirements listed below must be met.

- Minimum height is 55"
  - $\frac{1}{2}$
- Maximum depth is 48"
- Minimum width is 41-1/4"
- Minimum clearance of 7" on each side and 3" on back

## **Baffle Installation**

Install the baffles included with the stove (see page 29 for details).

## Door Seal Verification

The door is aligned prior to leaving the factory. However, shipping and installation may cause the door to become mis-aligned. Verify the door is correctly aligned and seals properly (see the section "Door Seal" under Yearly Maintenance).

## **Restrictor Adjustment**

The restrictor "fine tunes" your appliance, ensuring it pulls the correct amount of air through the firebox. Altitude, vent configuration, and other factors make restrictor adjustment necessary for every installation.

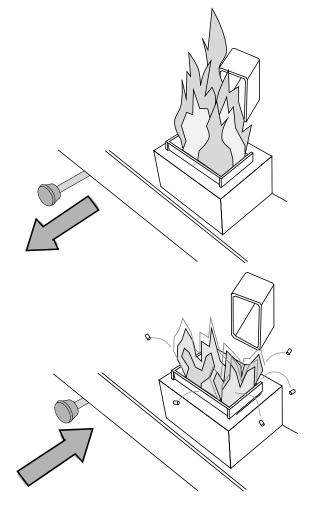
<u>NOTE</u>: the optimal restrictor position will vary over time as soot builds up inside the exhaust system – make sure the homeowner knows how to visually inspect the flame and adjust the restrictor.

#### Not Enough Air

If clinkers (ashes that solidify into a clump) develop or the flame appears lazy and slow to blow the ash out of the firepot, pull the restrictor outward until the flame becomes active and the firepot holes remain clean. NOTE: If the restrictor is fully out, yet the firepot does not remain clean, the stove needs to be cleaned and checked for air leaks (see "Maintenance" section of this manual).

#### **Too Much Air**

If the flames are too active (small, flickering flames) or if burning pellets are expelled from the firepot, move the restrictor rod inwards until the flame slows down and no burning pellets are expelled. Another symptom of too much air is the heater "blowing the fire out" – a condition in which the pellets burn faster than they are fed (this is most common on low).

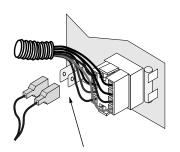


# Thermostat Installation

! Do not connect 120 VAC to the thermostat circuit of this heater (do not use a household thermostat used for a wall-board or other electical heater).

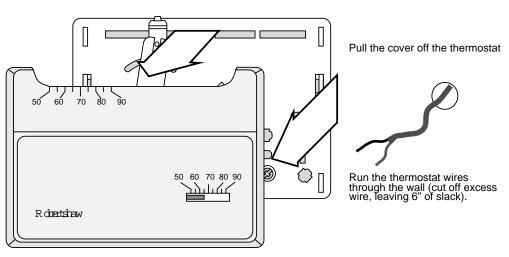
A thermostat is included with this heater (part # 99300650). Follow the directions below to install.

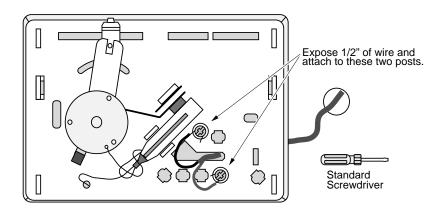
1 Attach the thermostat wire to the circuit board (see the illustration below). Route the wire through the back of the heater (away from any hot or moving components).

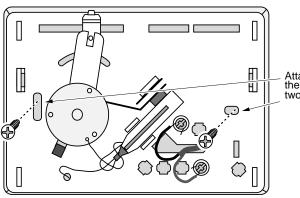


Attach the quick-connects to the two posts near the molex connector on the circuit board (orientation does not mater).

- 2 Determine a location for the thermostat that is within range of the 20' length of thermostat wire. It should be centralized in the room and away from the heater. The wire may be routed externally on the wall or behind the wall (preferred).
- 3 Follow the directions to the right to attach the thermostat and thermostat wires.



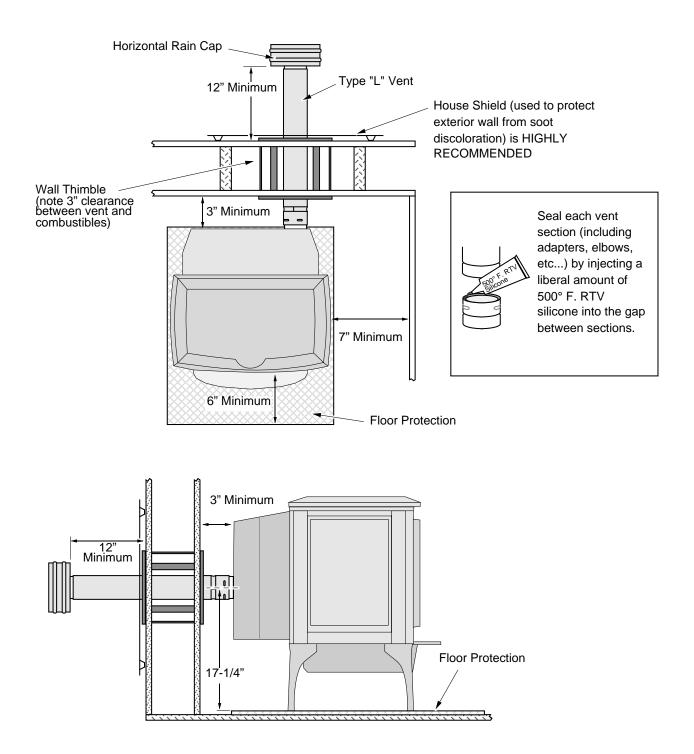




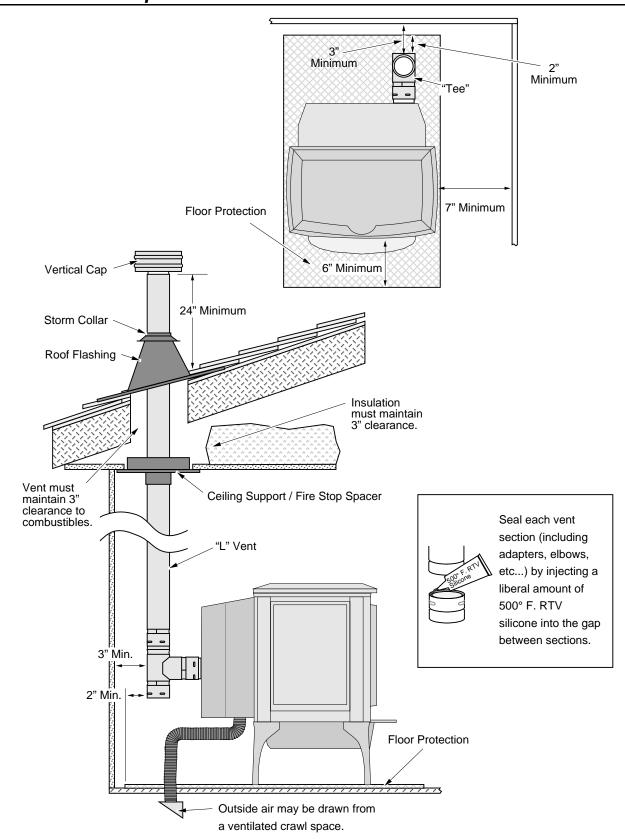
Attach the thermostat to the wall through these two holes.

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# Installation Example: Direct "Through-the-wall" Installation

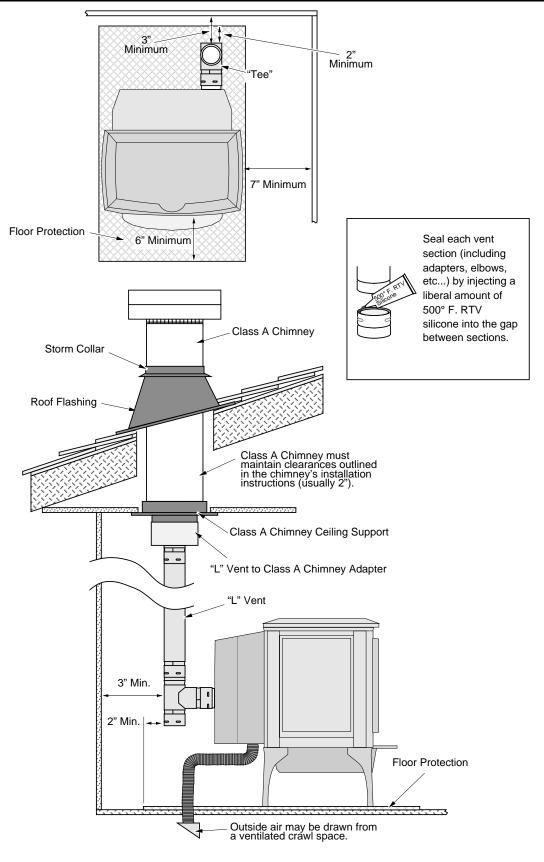


# Installation (For Qualified Installers Only)



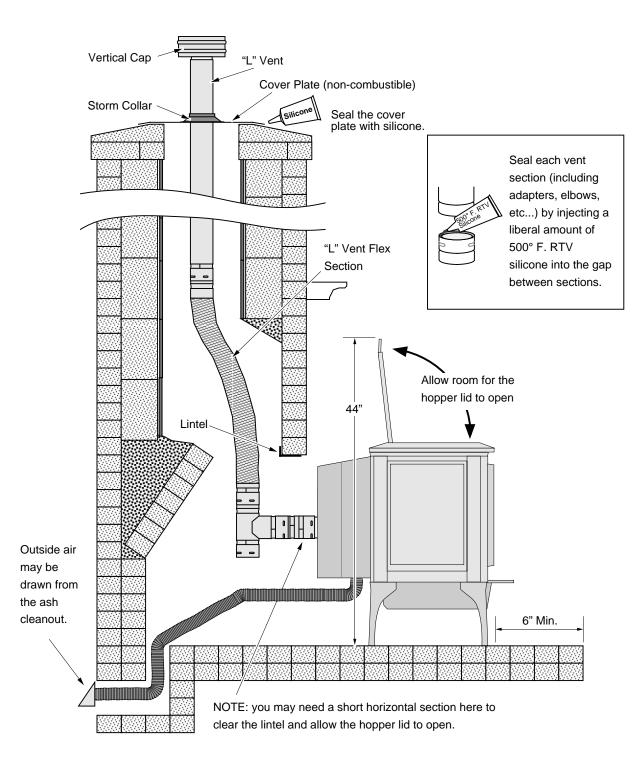
Installation Example: Interior Vertical Installation

# Installation Example: Class A Chimney Retrofit

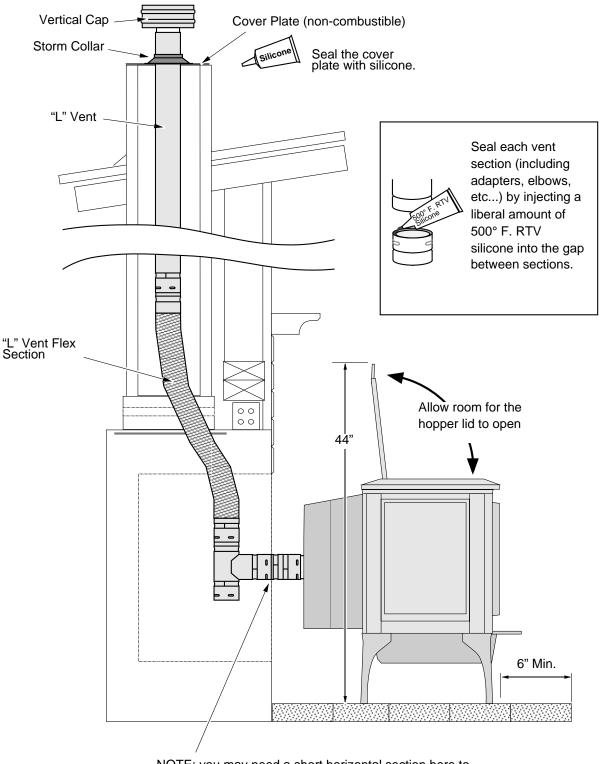


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# Installation Example: Masonry Fireplace Hearth Stove



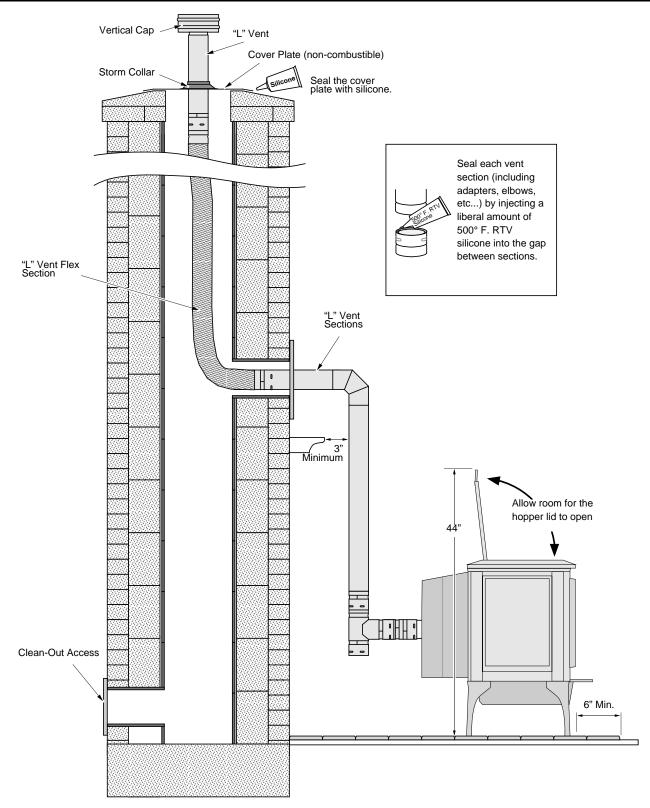
# Installation Example: Zero-Clearance (Metal) Fireplace Hearth Stove



NOTE: you may need a short horizontal section here to clear the lintel and allow the hopper lid to open.

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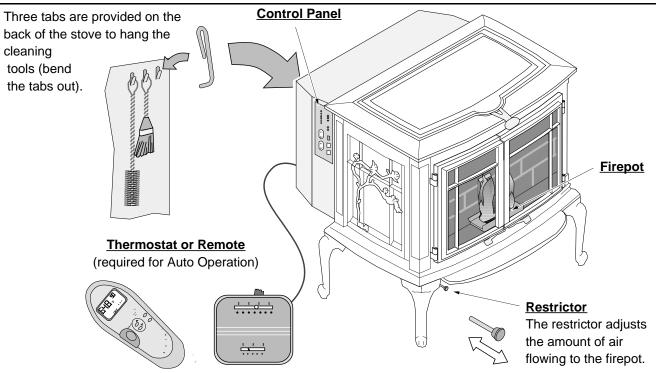
# Installation Example: Freestanding Masonry Chimney



# Safety Notice

Read this entire manual (especially the "Safety Precautions" on pages 4 and 5) before using this stove. Failure to follow the instructions may result in property damage, bodily injury, or even death.

- ! Do not unplug the stove to turn it off. This stove relies upon electricity to push the flue gases out the pellet vent unplugging it may lead to smoke entering your room.
- Failure to maintain your heater will lead to a restricted combustion air system, leading to poor performance and in some cases, smoke spillage into the room. See the "Maintenance" section for details.



## Location of Controls

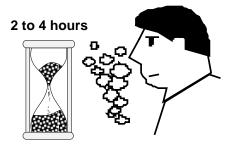
# Starting the Heater for the First Time

## Start the Heater - Let it Burn for 1 Hour - THEN OPEN THE DOOR

The stove paint is cured through heat. To prevent it from bonding to the door gasket, you must burn the heater for approximately 1 hour, then open and close the door to break any bonding.

#### **Curing the Paint**

This stove uses a heat-activated paint that will emit some fumes while starting the first fire. Open doors and windows to the room to vent these fumes. You may also notice oil burning off of the interior of the stove. This ruststopping agent will soon dissipate.



#### Priming the Auger

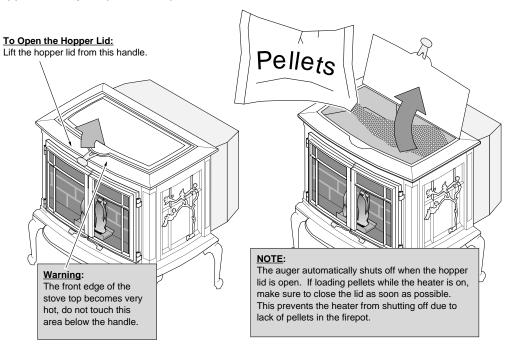
Because of its electronic control panel, this stove does not require priming. If you run out of pellets you may notice it will take approximately 5 minutes longer for the stove to start.

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# Loading Pellets

Lift the hopper lid to its vertical position. Pour pellets into the hopper until full. NOTE: The hopper holds approximately 50 pounds of pellets.



**<u>HINT</u>**: To prevent the pellet stove from inadvertently shutting down due to the auger disabling switch, we recommend pressing the "START" button after reloading the stove.

# The Two Modes of Operation

#### Manual

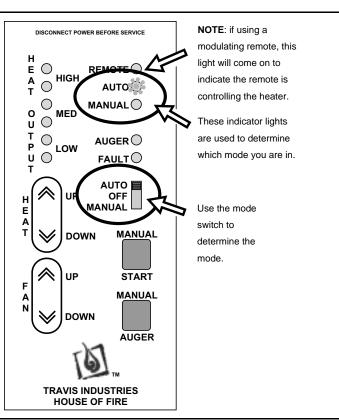
Manual mode requires the user to turn the heater on and off manually.

#### Auto (requires a thermostat)

Auto mode allows you to use a thermostat to control room temperature. The stove automatically turns on when the temperature drops below the thermostat setting. Once the stove reaches operating temperature, the stove then runs at the heat output setting selected.

# Switching Modes While in Operation

Whenever the stove is switched from one mode to another while in operation, the stove will enter the "startup" sequence for a minimum of 20 minutes.



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## Manual Mode

Manual mode requires the user to turn the heater on and off manually.

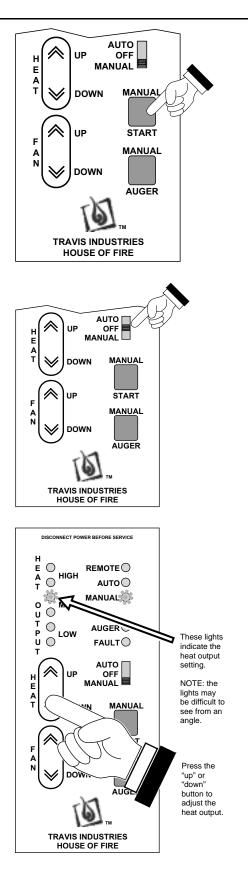
#### To Start

Press the "Manual Start" button. That's it. The stove automatically goes to a medium burn rate and high fan while the igniter starts the fire burning within 10 minutes. During this period the lowest "HEAT OUTPUT" light will flash. If the stove does not start in 30 minutes, the stove turns off.

Once up to temperature, the stove will then run at the heat output setting selected on the control panel (see "To Adjust the Heat" below).

#### To Shut Down

Move the mode switch to "OFF". The exhaust blower will still run until the heater cools down.



#### To Adjust the Heat

Press the "Heat" buttons to adjust the heat output.

NOTE: During start-up you may adjust the heat setting. This heat setting will take affect once the start-up sequence is complete.

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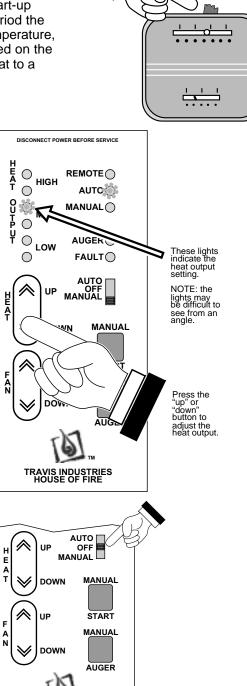
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# Auto Mode

Auto mode allows you to use a thermostat to control room temperature. The stove automatically turns on when the temperature drops below the thermostat setting. Once the stove reaches operating temperature, the stove then runs at the heat output setting selected.

#### To Adjust Room Temperature (or Start the Stove)

Move the thermostat to the heat setting desired. If the room is cooler than the setting, the stove will go through the start-up sequence for approximately 10 minutes. During this period the lowest "HEAT OUTPUT" light will flash. Once up to temperature, the stove will then run at the heat output setting selected on the control panel. If the room is too hot, move the thermostat to a lesser setting.



#### To Adjust the Heat

Press the "Heat" buttons to adjust the heat output.

#### HINT:

If you find that the stove turns on and off repeatedly, you may wish to turn the heat output to a lesser setting. The lower setting will provide a more consistent heat output over time, eliminating the need for the thermostat to repeatedly turn the stove off.

#### NOTE:

If the thermostat calls for heat while the stove is still cooling down, the stove will go through the start-up sequence (for a minimum of 20 minutes).

#### To Shut Down

Move the mode switch to "OFF". The exhaust blower will still run until the heater cools down.

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TRAVIS INDUSTRIES HOUSE OF FIRE

# **Restrictor Adjustment**

The restrictor "fine tunes" your appliance, adjusting the amount of air flowing to the flame.

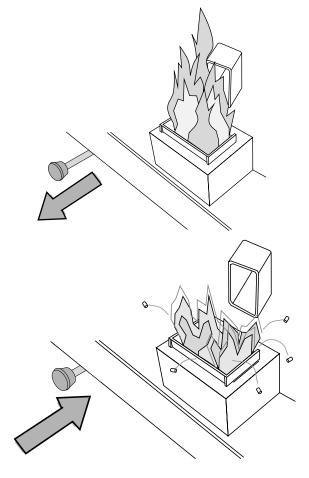
NOTE: the optimal restrictor position will vary over time as soot builds up inside the exhaust system.

#### Not Enough Air

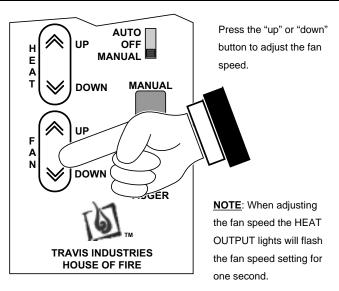
If clinkers (ashes that solidify into a clump) develop or the flame appears lazy and slow to blow the ash out of the firepot, pull the restrictor outward until the flame becomes active and the firepot holes remain clean. NOTE: If the restrictor is fully out, yet the firepot does not remain clean, the stove needs to be cleaned and checked for air leaks (see "Maintenance" section of this manual).

#### **Too Much Air**

If the flames are too active (small, flickering flames) or if burning pellets are expelled from the firepot, move the restrictor rod inwards until the flame slows down and no burning pellets are expelled. Another symptom of too much air is the heater "blowing the fire out" – a condition in which the pellets burn faster than they are fed (this is most common on low).



# Adjusting the Fan Speed



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# Start-Up Sequence

This stove utilizes a start-up sequence whenever the mode switch is changed or the heater is started when cold. This is to ensure proper operation through all possible settings and operational states (hot or cold, pellets burning or not burning, etc.). This sequence over-rides all user settings (except the "OFF" position) to set the auger feed rate to medium, the exhaust blower to high, and the igniter on. During this period the lowest "HEAT OUTPUT" light will flash.

## "MANUAL AUGER" Button

This button turns the auger on. It is used to "prime" the auger after the hopper has run out of pellets.

# "AUGER ON" Light

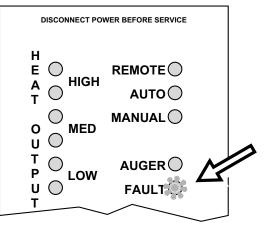
This light comes on when the auger is turning. This allows the operator to determine when the auger is turning.

# "FAULT" Light

This light comes on when an error occurs:

- The stove runs out of pellets
- During initial start-up (for a split second) or for improper electrical frequency
- A start-up sequence that does not result in the heater coming up to temperature

To reset the fault light, turn the mode switch to off and re-start the stove.



#### Fault Codes (for qualified service personnel only)

Fault and #2 (LOW) Light Flash = Flow Switch Fault

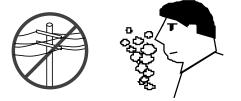
Fault and # 4 (MID) Light Flash = System Snap Disk Fault (pellets run out & stove goes cold)

Fault and # 6 (HIGH) Light Flash = Safety Snap Disk Fault

# **Power Outages**

If a sustained power outage occurs while in "Manual", the stove will go to a "cool down" mode to vacate smoke once power returns. If the power outage was short, the heater will go to the start-up sequence. If in "Auto", the stove will re-start (if the room is cool).

Because this stove relies upon a blower to evacuate the smoke, some smoke may enter the home during a power outage. To keep to a minimum, leave the door closed.



# Using a Pellet/Corn Mix with This Heater

This heater may burn a mixture of corn and wood pellets up to a 50% - 50% proportion by volume. Shelled corn burned in Travis pellet appliances must be clean (free of husk and cob residue) and have a moisture content no greater than 15%.

# DO NOT BURN A MIX WITH MORE THAN 50% CORN TO WOOD PELLETS. THOROUGHLY MIX THE TWO FUELS TOGETHER TO BE SURE OF AN EVEN BURN RATE.

- If combustion is slow, if the fire is slow to start, or if clinkers (ashes that solidify into a clump) build up rapidly in the fire pot, decrease the proportion of corn and increase the proportion of wood pellets until you find a proportion that works well in your appliance.
- If your stove or insert is operated with a thermostat, you may notice the automatic igniter at times fails to light a 50/50 corn to pellet mix. If you experience this, decrease the proportion of corn and increase the proportion of wood pellets in the mix.

For an optimum fire and greatest efficiency, it is important to keep the fire pot free of built up ashes. If you are burning only high quality wood pellets, you should check and clean the fire pot at least every two weeks or after ten bags of pellets.

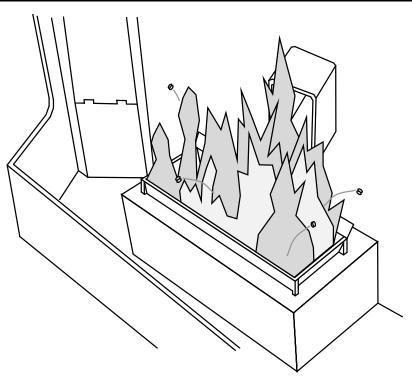
If the pellets you are burning have a high ash content or if you burn a corn/wood pellet mixture, we recommend that you check the fire pot every day and clean it if necessary.

# Daily Maintenance (whenever using the stove)

#### Inspect the Burn

When burning on high, the flames should be bright orange with embers jumping from the firepot.

<u>NOTE</u>: the optimal restrictor position will vary over time as soot builds up inside the exhaust system. See "Restrictor Adjustment" for details.

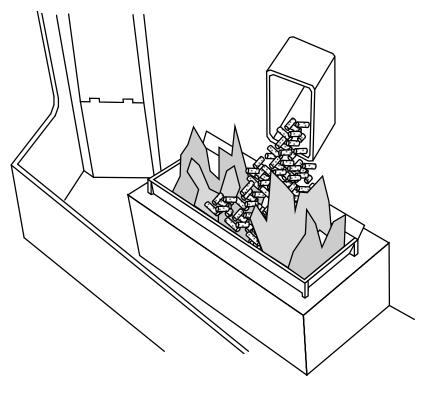


#### Make Sure Pellets are Not Piling Up

If the pellets pile up over the burn pot, turn the mode switch to "OFF".

The most likely causes are:

- Restrictor needs adjustment (see "Restrictor Adjustment" in the installation section of this manual)
- The door, glass, or ashpan is open or has an air leak
- The firepot requires cleaning
- The exhaust system requires cleaning



# Maintenance

# Daily Maintenance (whenever using the stove) - Continued

#### Check Firepot for Clinkers

If the flames seem to be coming only from the sides, or are orange/black, turn the heater off and check for clinkers (ashes that solidify into a clump).

The most likely causes are:

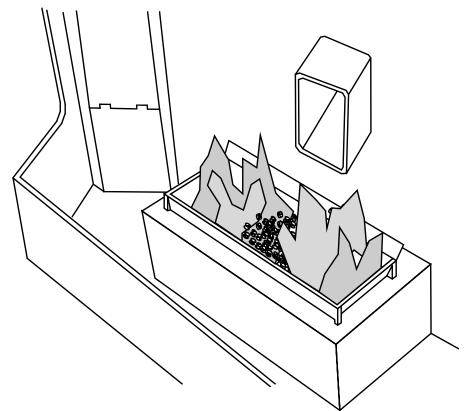
- Restrictor needs adjustment (see "Restrictor Adjustment" in the installation section of this manual)
- Poor pellet quality
- The door or glass has an air leak
- The exhaust system requires cleaning

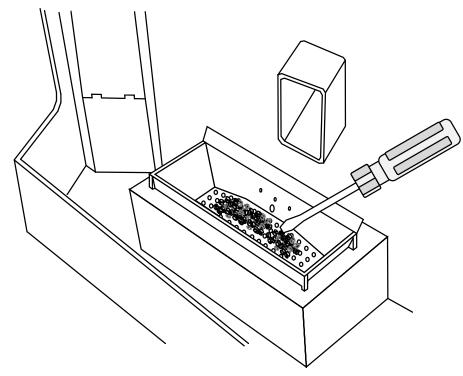
#### **Cleaning the Firepot**

#### WARNING:

Make sure the heater has fully cooled (approximately 25 minutes) before opening the door and conducting service.

To clean the firepot, open the door (see page 27) and knock away any debris on the firepot with a screwdriver. If severely clogged, remove the firepot to gain better access.

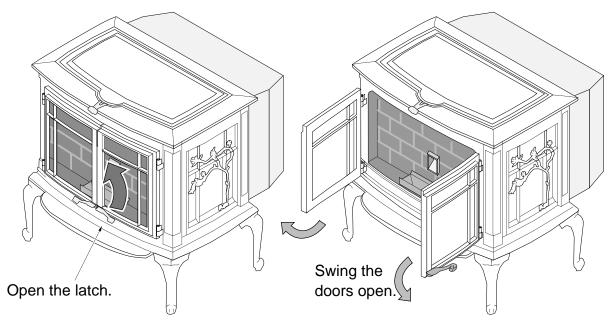




# Daily Maintenance (whenever using the stove) - Continued

#### **Door Opening**

**WARNING**: Make sure the heater has fully cooled (approximately 25 minutes) before opening the door and conducting service.



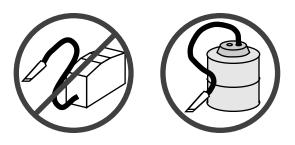
**WARNING**: Do not swing the doors past 90°. This may cause the doors to strike the body of the stove and cause damage.

**NOTE**: When closing the doors, close the left door first. Then shut the right door and tighten the latch.

# Bi-Weekly Maintenance (or every 10 bags of pellets)

#### **Flyash Removal**

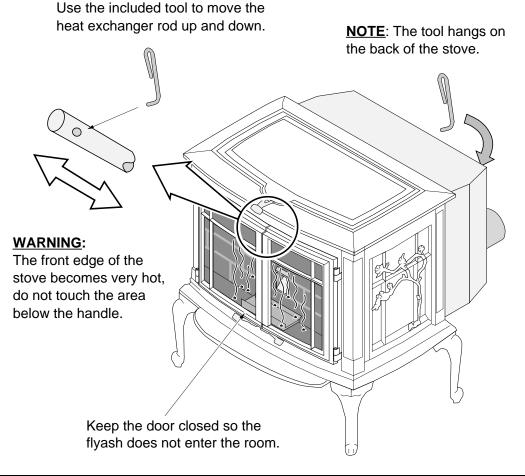
This heater was designed to allow for easy flyash removal with the included tools. However, to ease maintenance, several pellet stove owners have purchased vacuums specifically made to remove flyash. Furthermore, some of these vacuums are heat-resistant to allow for flyash removal while it is still warm. **Do not use a standard vacuum on this appliance** (except to clean the pellet dust out of the hopper). Standard vacuums may spread the fine particles inside the flyash into the home and are not heat-resistant (hot flyash may cause the internal portion of vacuums to ignite).



#### **Clean the Hopper**

Run the stove until the pellets run out. Open the hopper and remove the dust and debris near the bottom of the hopper.

#### **Clean the Heat Exchange Tubes**



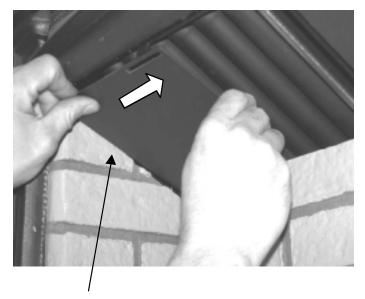
# Bi-Weekly Maintenance (or every 10 bags of pellets) - continued

#### **Clean the Baffles**

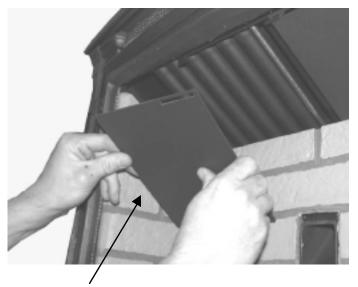
WARNING: Make sure the heater has fully cooled (approximately 25 minutes) before conducting service.

**HINT**: The more often you clean out flyash, the more efficient your heater will burn.

The baffles are found along the top of the firebox. The front edge has a slot that slides into a hook on the top of the firebox. The back rests on the back refractory. To remove, slide them inwards, pull them forward, and tilt them back to allow the accumulated flyash fall off into the firebox. Replace after cleaning.



Push up on the front portion of the left baffle and slide it to the right. Note how the rear edge of the baffle rests on the rear refractory.



Move the baffle forward and tilt the back down. This allows any built-up flyash to fall off the top of the baffle.



The right side baffle is removed in the same fashion. Note how the right side baffle is larger than the left side baffle.

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# Maintenance

# Bi-Weekly Maintenance (or every 10 bags of pellets) - continued

#### Sweep Ash Into Ashpan

**WARNING**: Make sure the heater has fully cooled (approximately 25 minutes) before conducting service.

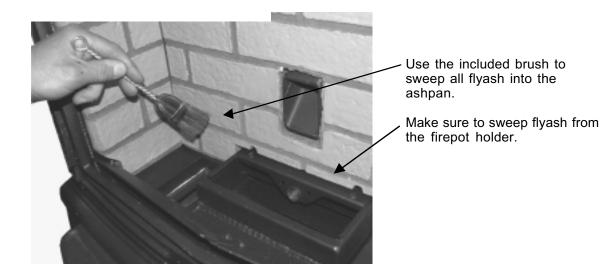
Remove the two ashdump covers on the floor of the firebox using the included hook tool. Remove the firepot and place it aside. Sweep accumulated flyash through the holes in the firebox floor into the ashpan. Replace the covers and firepot after cleaning.



Use the included hook tool to remove the ashdump covers (both side).



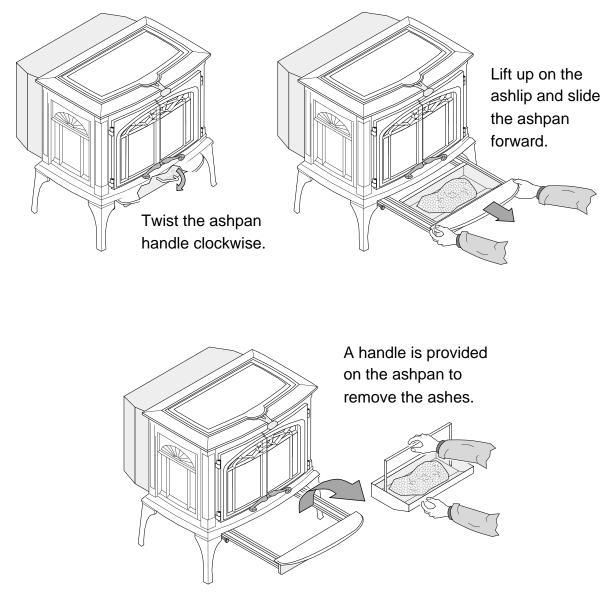
Lift the firepot out of the firebox.



# Bi-Weekly Maintenance (or every 10 bags of pellets) - continued

#### Check Ashpan, Dispose if necessary

**WARNING**: Make sure the heater has fully cooled (approximately 25 minutes) before conducting service. **WARNING**: The ashpan must be in place while the heater is in use.



**Disposal of Ashes** – 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 the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have been thoroughly cooled.

#### **Clean the Glass**

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Open the doors and clean the glass with a non-abrasive glass cleaner and rag.

## Yearly Maintenance (or every two tons)

The following section details extensive maintenance procedures. We strongly suggest these items be carried out by a trained service technician, possibly by a service agreement set up with your dealer.

# WARNING: Disconnect the power cord and make sure the heater has fully cooled prior to conducting service.

**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.

#### **Clean the Vertical Exhaust Duct**

Remove the baffles at the top of the firebox (see page 31). Remove the firepot and ashdump covers (see page 32). Remove the side and back refractory (see the pictures below).





Using the included latch tool, remove the two duct covers on the inside of the firebox (see the pictures below)..





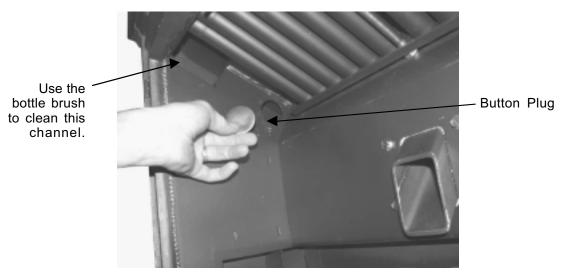
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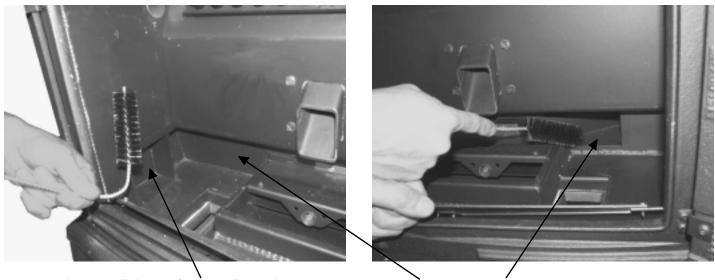
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## Yearly Maintenance (or every two tons) - continued

Remove the button plugs at the top of the firebox (both sides). Once removed, use the bottle brush to dislodge any flyash from the exhaust channel behind the button plug.



Use the included bottle brush to remove accumulated flyash from the vertical exhaust channels (both sides). You may need to bend the bottle brush to allow it to access this area. Remove accumulated flyash from the horizontal exhaust channels along the perimeter of the firebox and leading to the exhaust blower. Sweep the flyash out of the exhaust channels and into the ashpan.



Vertical Exhaust Channel (behind the firebox walls – accessed from below).

**<u>HINT</u>**: You can remove dry flyash from the vertical exhaust channels by "tapping" on the walls (be careful to prevent flyash from flying into the air).

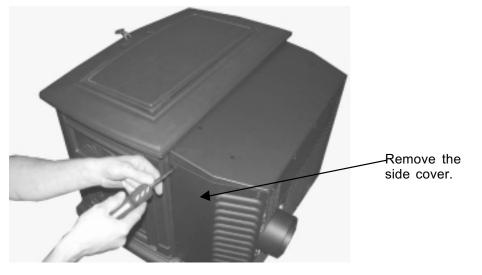
Horizontal Exhaust Channel

# Maintenance

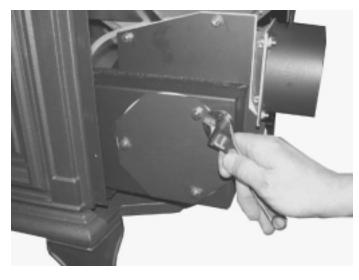
# Yearly Maintenance (or every two tons) - continued

#### **Clean the Exhaust Blower**

The exhaust blower cover is held in place with 4 screws.



Remove the cover plate on the exhaust blower. Clean the area inside the blower, removing all flyash.



Remove these 3 nuts to expose the exhaust blower.



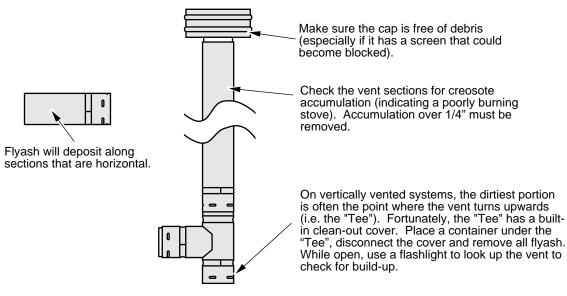
Use the bottle brush to disoldge any flyash near the exahust blower and in the horizontal exhaust channel. Take care to not damage the impeller on the exhaust blower.

# Yearly Maintenance (or every two tons) - continued

#### **Clean the Convection Blower**

Remove all dust and debris from the convection blower. Take care to prevent damage to the convection blower impellers.

#### **Clean the Vent**



Warning: Whenever any portion of the pellet vent is disconnected, the joints must be sealed with RTV 500° F. silicone sealant.

#### Adjusting the Door Hinge and Latch

The door latch should pull the door against the face of the stove (but not so tight as to not allow full handle rotation). To adjust the door latch, adjust the position of the striker plate that attaches to the front plate of the stove.

#### Check for Air Leaks Around the Door, Glass, and Ashpan

- ! Air leaks into the firebox will decrease the stove's performance greatly, leading to excessive sooting, inefficient burning, and perhaps a malfunction.
- Inspect the door gasket to make sure it is fully attached. Use stove gasket cement to re-attach if necessary. If the door gasket is worn or flattened, replace.
- If the glass is cracked, replace. The glass is held in place by glass clips. See the illustration below for details.
- Remove the ashpan and inspect the gasket around the perimeter of the ashpan. Re-attach, or replace the gasket if necessary.

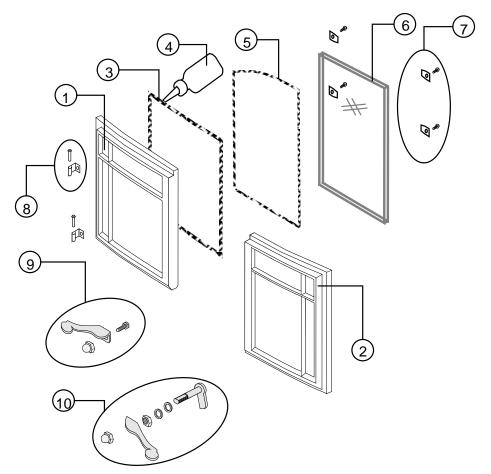
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# Maintenance

# **Replacement Parts**

## **Door Replacement Parts**



ID #	Description	Qty	Part #	ID#	Description	Qty	Part #
1	Door, Left	1		2	Door, Right	1	
3	Door Gasket	1		4	Gasket Cement	1	
5	Glass Gasket	1		6	Glass	2	
7	Glass Clip w Screws, Gasket	4		8	Door Hinge w Pins	4	
9	Left Door Handle w Hardware	1		10	Right Door Handle w Hardware	1	

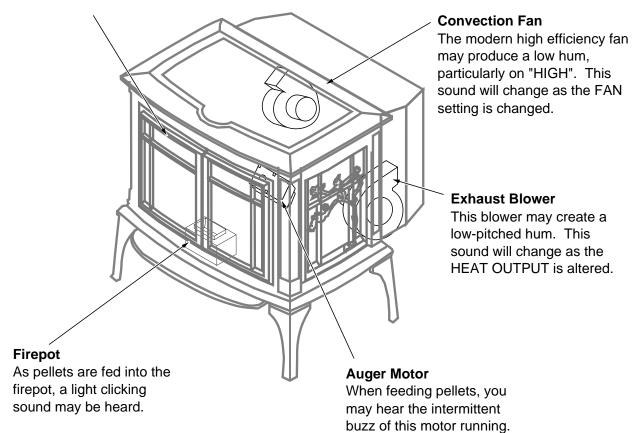
#### **Replacement Parts**

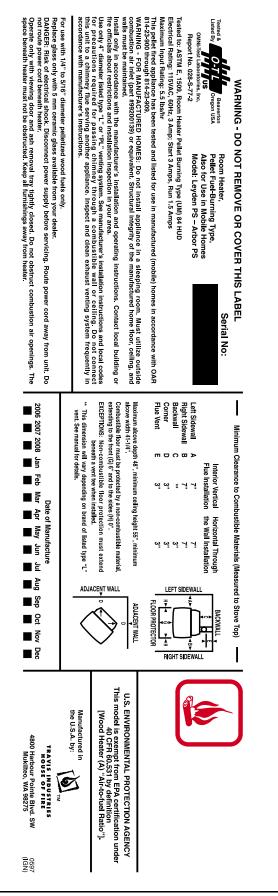
Description	Part #	Description	Part #
ASHPAN ASSY - COMPLETE - SERVICE PART	250-00160	GROMMET, IGNITOR WIRE - LG P/S - BLACK RUBBER	100-02811
AUGER DRIVE COLLAR, 1997 & UP - LARGE/SMALL PEL STOVE/INS	91002021	GSKT, CLEAN-OUT CVR, AST/LG PI - 3.250 x 2.750	100-03235
AUGER FLIGHT INSPECTION COVER - 16 GA EG - 6.812 x 4.674	210-02702	GSKT, COMB BLOWER (BODY), LRG - 10.505" x 7.782" x 1/8"	100-03206
AUGER FLIGHT, 2000+ LRG PEL 2" PITCH	91002013	GSKT, COMB BLOWER(MOTOR), LRG - 7.000" dia	100-03231
AUGER MOTOR, ALL PS/PI EXCEPT - 93-96 PELLET INSERT (93-0194)	90-0191	GSKT, EXHAUST PLATE - LG PEL# - 4.250" x 4.250"	100-03230
BLOWER, COMB, PELLET - LARGE - 2000 & UP	93005535	HOSE NIPPLE, BARBED (DRAFT)	100-04307
BLOWER, CONV, P2-8/11-15/G1-2 - 93-95BV, 91-96PS/PI, 00 LRG PS	98900755	IGNITER, LG PS/PI - 2000 & UP - 250 WATT ELEMENT	250-00243
BRUSH, BROOM STYLE # - REPLACES 93005530 & 93005531 BURN POT. LG PS/PI-CORN & PEL - LRG- PS/PI ONLY - SERVICE PART	100-04301 250-00128	OIL PAN, COMB BLOWER - LG PEL - 20 GA ALZ - 5.414 x 1.881	210-03216 93005015
CNTRL BRD. ALL PEL 1997 & UP# - LARGE OR SMALL PS & PI	250-00128	POWER CORD, PS/PI 1997 & UP # - 16 ga AWG w/RING & FML CNCTRS SHL, ASH DRAWER - ARBOR - CAST IRON - SERVICE PART	250-00159
CORD RESTRAINER	100-00112	SNAP-DISC - 120deg CERAMIC # - NORMALLY OPEN	100-00232
DR STRIKER PLATEW/SCRWS - SERVICE PART	250-00143	SNAP-DISC - 120deg NO # - NORMALLY OPEN	100-00232
DRAFT (FLOW) SWITCH # - ALL PS/PI	90-0791	SNAP-DISC - 200deg NC # - NORMALLY CLOSED	100-00233
DRAFT FLOW TUBING, ALL PS/PI - ALL PELLET FS & INSERTS	99300164	THERMOSTAT. PELLET	100-00250
FACE HINGE LEAF - SERVICE PART	250-00227	TOOL, GLASS LATCH/RESTRICTOR/ - SCRAPER	100-02302
FUSE - 5AMP CONTROL BOARD# - NEW DIAGNOSTIC BOARD 2006'	250-00081	WIRE HRNS, PEL, JUMPER, LRG PELLET	100-00390
FUSE HOLDER (IN-LINE)	100-00210	WIRE HRNS, PEL, PS/PI 2005+ - REPLACES OLD HARNESS 100-00393	250-00017
FUSE, 5AMP, 5 - FOR INLINE # - FUSE ASSEMBLY - 93 & UP PEL	93-0695	WIRE HRNS, THERMOSTAT (20')	100-00400
FUSE, 6AMP, 5 - CONTROL BOARD - 1997 TO 2005' PS & PI	93005019		
GLASS - ARBOR WOOD - 11.062 x 8.437 SERVICE PART	250-00142		
GLASS RPLCMNT SCRW PAK- ARBOR - 8- STANDARD & 8- OVERSIZE	250-00179		

# **Normal Operating Sounds**

#### Heat Exchanger Tubes

You may hear the heated air being forced through these tubes by the convection fan.





#### 100-01191\_000

# Limited 7 Year Warranty

To register your TRAVIS INDUSTRIES, INC. 7 Year Warranty, complete the enclosed warranty card and mail it within ten (10) days of the appliance purchase date to: TRAVIS INDUSTRIES, INC., 4800 Harbour Pointe Blvd. SW, Mukilteo, WA 98275. TRAVIS INDUSTRIES, INC. warrants this appliance (appliance is defined as the equipment manufactured by Travis Industries, Inc.) to be defect-free in material and workmanship to the original purchaser from the date of purchase as follows:

Check with your dealer in advance for any costs to you when arranging a warranty call. Mileage or service charges are not covered by this warranty. This charge can vary from store to store.

Auger Motor, Convection Blower, Exhaust Blower, Circuit Board, Snap Disks, Wiring Harness, Vacuum Switch

Warranted against breakage, cracking, or burn through

<u>Accessories</u>

Ceramic Log with Log Shelf, Remote

**Re-Installation Allowance** 

One-Way Freight Allowance

In cases where heater must be removed from home for repairs, a partial cost of re-installation is covered (pre-authorization required)

One-way freight allowance on pre-authorized repair done at factory is covered.

#### Years 1 & 2 - COVERAGE: PARTS & LABOR

Firebox Assembly:

Firepot, Firepot Holder, Ash Cleanout Doors, Ashbox or Ash Dump, Cast Fireback, Heat Exchanger Tubes, Exhaust Manifold Exhaust Box Door Assembly:

#### Door Frame, Latch Assembly, Glass Retainers

Auger Assembly Auger Flight, Auger Tube, Auger Bushings

> Exclusions: Paint, Gasketing

#### Years 3 Through 5 - COVERAGE: PARTS & LABOR

Firebox Assembly:

Firepot, Firepot Holder, Ash Cleanout Doors, Ashbox or Ash Dump, Cast Fireback, Heat Exchanger Tubes, Exhaust Manifold, Exhaust Box

#### Door Assembly:

Ceramic Glass

Igniter System

Cast Iron Parts

Electrical System

Igniter, Igniter Leads

Glass (breakage from thermal shock)

One-Way Freight Allowance Door Frame, Latch Assembly, Glass Retainers One-way freight allowance on pre-authorized repair done at Auger Assembly factory is covered. Auger Flight, Auger Tube, Auger Bushings

Exclusions: Paint, Gasketing, Ceramic Glass, Igniter System, Electrical System, Cast Iron Parts, Accessories, Re-Installation Allowance

#### Years 6 & 7 - COVERAGE: PARTS ONLY

Firebox Assembly:

#### Door Assembly: Door Frame, Latch Assembly, Glass Retainers

Firepot, Firepot Holder, Ash Cleanout Doors, Ashbox or Ash Dump, Cast Fireback, Heat Exchanger Tubes, Exhaust Manifold, Exhaust Box

Paint, Gasketing, Ceramic Glass, Igniter System, Electrical System, Cast Iron Parts, Accessories, Auger Assembly, Re-Installation Exclusions: Allowance, One-Way Freight Allowance, Labor

#### **CONDITIONS & EXCLUSIONS**

- 1.
- This new appliance must be installed by a qualified installer. It must be installed, operated, and maintained at all times in accordance with the instructions in the Owner's Manual. Any alteration, willful abuse, accident, neglect, or misuse of the product shall nullify this warranty. This warranty is nontransferable, and is made to the ORIGINAL purchaser, provided that the purchase was made through an authorized Travis dealer. Discoloration and some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, not covered under warranty. 2. 3.
- The warranty, as outlined within this document, does not apply to the chimney components or other Non-Travis accessories used in conjunction with the installation of this product. If in doubt as to the extent of this warranty, contact your authorized Travis retailer before installation. Travis Industries will not be responsible for inadequate performance caused by environmental conditions such as nearby trees, buildings, roof tops, wind, hills 4.
- 5. or mountains or negative pressure or other influences from mechanical systems such as furnaces, fans, clothes dryers, etc.
- 6.
- This Warranty is void if: a. The unit has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals
  - b. The unit is subject to submersion in water or prolonged periods of dampness or condensation
- c. Any damage to the unit, combustion chamber, heat exchanger or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.
  Exclusions to this 7 Year Warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration or adjustment of the manufacturer's settings of components, lack of proper and regular maintenance, damage incurred while the appliance is in transit, alteration, or act of God. 7.
- This 7 Year warranty excludes damage caused by normal wear and tear, such as paint discoloration or chipping, worn or torn gasketing, chipped or cracked firebrick, etc. Also excluded is damage to the unit caused by abuse, improper installation, modification of the unit, or the use of fuel other than that for which the unit is configured. 8.
- Damage to gold or nickel surfaces caused by fingerprints, scratches, melted items, or other external sources left on the gold or nickel from the use of cleaners other than denatured alcohol is not covered in this warranty. TRAVIS INDUSTRIES, INC. is free of liability for any damages caused by the appliance, as well as inconvenience expenses and materials. Incidental or 9.
- 10.
- consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply. This warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the Travis appliance without the express written permission of TRAVIS INDUSTRIES, INC. and bearing a TRAVIS INDUSTRIES, INC. label of approval. 11.
- 12 Any statement or representation of Travis products and their performance contained in Travis advertising, packaging literature, or printed material is not part of this 7 year warranty.
- This warranty is automatically voided if the appliance's serial number has been removed or altered in any way. If the appliance is used for commercial purposes, it is excluded from this warranty. No dealer, distributor, or similar person has the authority to represent or warrant Travis products beyond the terms contained within this warranty. INDUSTRIES, INC. assumes no liability for such warranties or representations. Travis Industries will not cover the cost of the removal or re-installation of hearths, facing, mantels, venting or other components. If for any reason any section of this warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect. 13.
- 14
- 15
- 16. 17. This 7 year warranty is the only warranty supplied by Travis Industries, Inc., the manufacturer of the appliance. All other warranties, whether express or implied, are hereby expressly disclaimed and purchaser's recourse is expressly limited to the warranties set forth herein.

#### IF WARRANTY SERVICE IS NEEDED:

- If you discover a problem that you believe is covered by this warranty, you MUST REPORT it to your Travis dealer WITHIN 30 DAYS, giving them proof of purchase, the purchase date, and the 1. model name and serial number
- 2. 3.
- model name and senal number. Travis Industries has the option of either repairing or replacing the defective component. If your dealer is unable to repair your appliance's defect, he may process a warranty claim through TRAVIS INDUSTRIES, INC., including the name of the dealership where you purchased the appliance, a copy of your receipt showing the date of the appliance's purchase, and the serial number on your appliance. At that time, you may be asked to ship your appliance, freight charges prepaid, to TRAVIS INDUSTRIES, INC. TRAVIS INDUSTRIES, INC., at its option, will repair or replace, free of charge, your appliance if it is found to be defective in material or workmanship within the time frame stated within this 7 year warranty. TRAVIS INDUSTRIES, INC. will return your appliance, freight charges (years 1 to 5) prepaid by TRAVIS INDUSTRIES, INC., to your regional distributor, or dealership. Check with your dealer in advance for any costs to you when arranging a warranty call. Mileage or service charges are not covered by this warranty. This charge can vary from store to even
- 4. store.

**Travis Industries**  $\odot$ 

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