



# Liberty Wood Stove Owner's Manual

- Freestanding Stove
- Mobile-Home Approved
- Alcove Approved
- Hearth-Stove Approved

Save these instructions for future reference

# SAFETY NOTICE:

If this appliance is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection requirements in your area.



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### Introduction

We welcome you as a new owner of a Lopi Liberty wood-burning stove. In purchasing a Lopi Liberty 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 Lopi Liberty is one of the finest appliances the world over. This manual will explain the installation, operation, and maintenance of this appliance. Please familiarize yourself with the Owner's Manual before operating your appliance and save the manual for future reference. Included are helpful hints and suggestions which will make the installation and operation of your new appliance an easier and more enjoyable experience. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your appliance.

### Important Information

Mail your Warranty Card Today, and Save Your Bill of Sale.
To receive full warranty coverage, you will need to show evidence of the date you purchased your appliance. Do not mail your Bill of Sale to us.
We suggest that you attach your 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**



The viewing door must be closed and latched during operation.

Never block free airflow through the air vents on this appliance.



Gasoline or other flammable liquids must never be used to start the fire or "Freshen Up" the fire. Do not store or use gasoline or other flammable liquids in the vicinity of this appliance.



This appliance is designed and approved for the burning of cord wood only. Do not attempt to burn any other type of fuel other than cord wood in this appliance, it will void all warranties and safety listings.



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.



Do not touch the appliance while it is hot and educate all children of the danger of a hightemperature appliance. Young children should be supervised when they are in the same room as the appliance.



Keep furniture, drapes, curtains, wood, paper, and other combustibles a minimum of 36" away from the front of the appliance.



This appliance 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.



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 appliance as well.



Inspect the chimney connector and chimney at least twice monthly and clean if necessary. Creosote may build up and cause a house fire.

Do not connect this appliance to any chimney serving another appliance.



This appliance must be connected to a listed high temperature (UL 103 HT) residential type chimney or an approved masonry chimney with a standard clay tile, or stainless steel liner.

# **Safety Precautions**



When installed in a mobile home, this appliance 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.



Do not place clothing or other flammable items on or near this appliance.

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Never try to repair or replace any part of this appliance unless instructions are given in this manual. All other work must be done by a trained technician.



Do not make any changes or modifications to an existing masonry fireplace or chimney to install this appliance.

Do not make any changes to the appliance to increase combustion air.



Allow the appliance to cool before carrying out any maintenance or cleaning.



Overfiring the appliance may cause a house fire. If a unit or chimney connector glows, you are overfiring.



Maintain the door and glass seal and keep them in good condition.

Avoid placing wood against the glass when loading. Do not slam the door or strike the glass.



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 use a grate or other device to elevate the fire off of the firebox floor. Burn the fire directly on the bricks.



Travis Industries, Inc. grants no warranty, implied or stated, for the installation or maintenance of your appliance, and assumes no responsibility of any consequential damage(s).

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### Installation Options

- Freestanding
- Freestanding in an Alcove
- Freestanding in a Mobile Home

**Heating Specifications** 

• Freestanding Hearth Stove

#### Features

- EPA Phase II Approved
- 3.1 Cubic Foot Firebox Volume
- Single Operating Control
- Accepts Logs Up to 24" Long
- Steel Plate Construction (5/16" & 3/16")
- Heavy Duty Refractory Firebrick
- Optional High-Tech Blower

Approximate Maximum Heating Capacity (in square feet)*	1,500 to 2,500	
Maximum BTU's per Hour (Cord Wood Calculation)	74,300	
Overall Efficiency (Oregon Method)	70 %	
Maximum Burn Time	Up to 12 Hours	

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

### Dimensions



### Emissions

2.6 Grams Per Hour (EPA Phase II Approved) – Tests conducted by E.E.S.P.C.

# SAFETY NOTICE:

Please read this entire manual before you install and use your new room heater. Failure to follow instructions may result in property damage, bodily injury, or even death. Contact local building or fire officials about restrictions and installation inspection requirements in your area.

### Planning The Installation



We suggest that you have an authorized Travis Industries dealer install your stove. If you install the stove yourself, your authorized dealer should review your installation plans.

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

#### **Preparation for Installation**

- Check for damage to the exterior of the stove (dents should be reported, scratches can be fixed by applying touch up paint).
- Check the interior of the firebox (replace cracked firebrick and make sure baffle is in place).



The stove can be lightened by removing the firebricks and baffle (pg 28) - replace before operation.

#### Additional Accessories Needed for Installation

- Door Shell (Black 99300165 Brass 99300166 see pg 32)
- Legs or Pedestal

#### **Stove Installation Considerations**

The table below details the six most common types of installations and the considerations for each type. Alternative methods of installation are available if they comply with local building codes.

Installation Type	Considerations	
Standard Ceiling with a Factory Built Chimney (Page 14)	<ul><li>Requires ceiling and roof penetration</li><li>Provides best draft</li></ul>	
Cathedral Ceiling with a Factory Built Chimney (Page 14)	<ul><li>Cathedral style chimney support required</li><li>Provides best draft</li></ul>	
Exterior Factory Built Chimney (Page 15)	<ul> <li>Uses two elbows to route chimney outside</li> <li>Exterior chimney is hidden from the room</li> <li>Elbows reduce draft</li> <li>Optional exterior chase reduces cold air blockage</li> </ul>	
Hearth Stove Positive Connection (Page 15)	<ul> <li>Utilizes existing masonry or zero clearance (metal) chimney</li> <li>Provides good draft due to full reline</li> <li>Easier to clean than direct or horizontal hearth stove</li> </ul>	
Hearth Stove Direct Connection (Page 16)	<ul> <li>Utilizes existing masonry or zero clearance (metal) chimney</li> <li>Requires construction of a "block-off plate"</li> <li>Draft reduced due to elbows &amp; chimney cross section</li> </ul>	
Interior Masonry Chimney (Page 16)	Utilizes existing masonry chimney (not approved for zero clearance (metal) fireplaces)	

### Floor Protection Requirements

- Stove must be placed on the Travis Industries legs or Pedestal.
- Floor protection must extend 6" to the sides and rear of the stove and 16" to the front of the stove (42" wide by 43" deep see Figure 2 and Figure 3).
- Floor protection must be non-combustible and at least .018" thick (26 guage).

### Stove Placement Requirements



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.

- Stove must be placed so that no combustibles are within, or can swing within (e.g. drapes, doors), 36" of the front of the stove
- 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"
- Must maintain the clearances to combustibles listed below (drywall, furniture, etc.):

#### Clearances

• The following clearances must be met (see Figure 2 and Figure 3)

Minimum Clearance		Singlewall Connector	Reduced Clearance*
А	Sidewall to stove	16"	16"
В	Backwall to stove	15"	10"
С	Cornerwall to stove	9-1/2"	7-1/2"
D	Connector to sidewall	28"	27-1/2"
Е	Connector to backwall	18-1/4"	12-3/4"
F	Connector to cornerwall	21"	18-1/2"

\*Reduced clearance installations require one of the chimneys and connectors listed below:

AMERI-TEC model DCC with model HS chimney

DURAVENT model DVL with DURATEC or DURA-PLUS chimney

METALFAB model DW connector with TG chimney

SECURITY model DP connector with SECURITY model ASHT or S2100 chimney

 $\label{eq:standard} Standard\ Masonry\ Chimney\ with\ any\ one\ of\ the\ above\ listed\ connectors$ 

<u>NOTE</u>: Reduced clearance connectors may not connect to the flue collar – an appliance adapter may be required.

**NOTE**: Standard residential installations with reduced clearance connector may use the clearance determined by the manufacturer of the connector for the connector to wall clearance or the clearance listed in this manual. Offsets must be used to maintain the stove to wall clearance.

### Stove Installation (for qualified installers only)



### **Chimney Requirements**

- DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.
- Chimney connector must be a minimum 24 MSG black or 26 MSG blued steel (6" diameter). Chimney must be used from the first floor or wall penetration to the chimney cap.
- Use 6" diameter type UL 103 HT chimney from one manufacturer (do not mix brands) or code approved masonry chimney with a flue liner.
- Chimney connector and chimney must be fastened to the stove and each adjoining section.
- Follow the chimney manufacturer's clearances and requirements.
- Use the chimney manufacturer's fire stops, attic guards, roof supports, and flashings when passing through a ceiling or thimble when passing through a combustible wall.
- No more than 180° of elbows (two 90° elbows, or two 45° & one 90° elbow, etc.).
- NOTE: Additional elbows may be allowed if draft is sufficient. Whenever elbows are used the draft is adversely affected. Additional chimney height may be required to boost draft.



fans, chimneys, air infiltration, etc.), may adversely affect draft. Travis Industries can not be responsible for external forces leading to less than optimal performance.

Standard residential installations may use single-wall connector (Mobile-Homes may not)

 Standard residential installations with reduced clearance connector may use the clearance determined by the manufacturer of the connector for the connector to wall clearance or the clearance listed in this manual. Offsets must be used to maintain the stove to wall clearance. Mobile homes must use the clearances listed in this manual under "Additional Requirements for Mobile Home Installations".

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### **Chimney Termination Requirements**

- Must have an approved cap (to prevent water from entering)
- Must not be located where it will become plugged by snow or other material
- Must terminate at least 3' above the roof <u>and</u> at least 2' above any portion of the roof within 10' (see Figure 5)



### **Outside Air Requirements**

- Required for mobile homes & in certain localities (check with building officials)
- Must not be drawn from an enclosed space (garage, unventilated crawl space)
- Requires the optional outside air boot (for legs) or pedestal.



### Alcove Installation Requirements

Whenever the 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 special installation requirements listed below must be met.

• Chimney connector and chimney must be one of the following types:

AMERI-TEC model DCC with model HS chimney DURAVENT model DVL with DURATEC or DURA-PLUS chimney METALFAB model DW connector with TG chimney SECURITY model DP connector with SECURITY model ASHT or S2100 chimney Standard Masonry Chimney with any one of the above listed connectors NOTE: Reduced clearance connectors may not connect to the flue collar – an appliance adapter may be required.

Alcoves are classified as combustible or non-combustible. Non-combustible alcoves must have walls and a ceiling that are 3 1/2" thick of a non-combustible material (brick, stone, or concrete - see Figure 7). This non-combustible material must be spaced and ventilated at least 1" off of all combustible materials (walls, ceiling, etc.) to allow air to move around the non-combustible walls and ceiling. All other alcoves are considered combustible. The clearances below must be met:

	ium Clearance he Figure 7 below)	Combustible Alcove	Non-Combustible Alcove
Α	Sidewall to stove	16"	6"
В	Backwall to stove	10"	2"
D	Connector to sidewall	27-1/2"	17-1/2"
E	Connector to backwall	12-3/4"	4-3/4"
G	Maximum depth of alcove	48"	48"
Н	Minimum width of alcove	62"	42"
J	Minimum height of alcove	84"	6" above stove top



Figure 7

### Mobile Home Requirements

- Outside air must be installed see "Outside Air Requirements" on page 11
- Chimney connector and chimney must be one of the following types: AMERI-TEC model DCC with model HS chimney DURAVENT model DVL with DURATEC or DURA-PLUS chimney METALFAB model DW connector with TG chimney SECURITY model DP connector with SECURITY model ASHT or S2100 chimney Standard Masonry Chimney with any one of the above listed connectors NOTE: Reduced clearance connectors may not connect to the flue collar – an appliance adapter may be required.
- Stove placement must maintain the following clearances to combustibles (drywall, furniture, etc.)



Measure all clearances from the

nearest edge of the stove top.

	num Clearance the illustration above)	Reduced Clearance Connector
А	Sidewall to stove	16"
В	Backwall to stove	10"
С	Cornerwall to stove	7-1/2"
D	Connector to sidewall	27-1/2"
Е	Connector to backwall	12-3/4"
F	Connector to cornerwall	18-1/2"

- If using offsets, use the connector clearance listed in Figure 9, not the connector manufacturer's clearance.
- The appliance must be secured to the floor (consult your building official). Secure the outside air boot to the floor and stove to insure the stove does not dislocate.
- Mobile home installations require a spark arrester at the chimney termination.
- The appliance must be grounded to the chassis of the mobile home (consult your building official).
- WARNING:DO NOT INSTALL IN SLEEPING ROOM.
- CAUTION:THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED.



Figure 8

### Stove Installation (for qualified installers only)



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### **Exterior Factory Built Chimney**

#### NOTE:

Exterior chimneys are subject to greater moisture and creosote accumulation due to the lower temperatures. An insulated chase will reduce these accumulations (the proper clearances to the chimney must be maintained).

#### **Hearth Stove** Positive Connection

#### NOTE:

Most factory-built chimney manufacturers make stainless steel chimney liners, either flexible or rigid. This provides a wide variety of installation options. Make sure to follow the manufacturer's instructions for installation and support.



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# Stove Installation (for qualified installers only)

#### **Hearth Stove Direct** Connection

#### NOTE:

Direct connections require installation of an airtight, non-combustible block-off plate or damper adapter.



Figure 15

### Interior or Exterior Masonry Chimney

#### NOTE:

This type of installation requires a UBC approved masonry connector or a factory built (U.L. Listed) wall thimble.

NOTE: The chimney must have a clay tile liner. If it does not, the installation must use a positive connection (full reline). The entire fireplace and chimney must be clean, undamaged, and meet all local building codes (UBC, etc.). Damage must be repaired prior to installation. The chimney

### Safety Notice



If this appliance is not properly installed, a house fire may result. For your safety, follow the installation directions. Contact local building or fire officials about restrictions and installation inspection requirements in your area.



Read and follow all of the warnings on pages 4 and 5 of this manual.

### **Before Your First Fire**

#### Verify the Installation

Before starting the stove, verify that the stove is properly installed and all of the requirements in this manual have been followed.



Keep all flammable materials 36" away from the front of the stove (drapes, furniture, clothing, etc.).

### **Curing the Paint**

This heater 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. This typically lasts two to four hours. You may also notice oil burning off of the interior of the heater. This rust-stopping agent will soon dissipate.

**Door Gasket** - The door gasket might adhere to the paint on the front of the heater. Leave the door slightly ajar for the first fire and be careful when opening the door after the first fire.



#### **Over-Firing the Stove**

This stove was designed to operate at a high temperature. But due to differences in vent configuration, fuel, and draft, this appliance can be operated at an excessive temperature. If the stove top or other area starts to glow red, you are over-firing the stove. Shut the air control down to low and allow the stove to cool before proceeding.



Over-firing may lead to damage of plated surfaces. If you are uncertain of over-firing conditions, we suggest placing a stove thermometer (e.g. Rutland® Model 710) directly over the door on the stove top - temperatures exceeding 800° are generally considered over-firing and will void the warranty.

### **Opening the Door**





The door becomes hot during use. Use a glove to open the door if the handle is hot.

To prevent smoke from entering the room, open the bypass before opening the door (see following page for directions). You can also open the door a small amount and let air enter the firebox.

### **Bypass Operation**

The bypass controls the flow of smoke inside the heater. When pulled out, smoke goes directly up the flue, creating more draft. When pushed in, the smoke goes around the baffle, utilizing the secondary combustion and making the heater more efficient.

- When starting or re-loading, pull the bypass out.
- During normal operation, push the bypass in.

Use the included pull tool to operate the bypass rod

Bypass Pulled Out

Used for starting and re-loading





Bypass Pushed In Used for normal operation



## Starting a Fire

Since the dawn of time man has debated the best way to start a fire. Some use the boy-scout "tee-pee", some prefer the "tic-tac-toe" stack. Either way, review the hints and warnings below to ensure proper fire starting.

• Make sure the air control is pushed in and by-pass pulled out. If additional air is needed, open the doors 1/4" during the first five minutes of start-up.



<u>Never</u> use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or "freshen up" a fire in this stove. Keep all such liquids well away from the stove while it is in use.



If using a firestarter, use only products specifically designed for stoves - follow the manufacturer's instructions carefully.

If the smoke does not pass up the chimney, ball up one sheet of newspaper, place it in the center of the firebox and light it. This should start the chimney drafting (this eliminates "cold air blockage").

Use plenty of kindling to ensure the stove reaches a proper temperature. Once the kindling is burning rapidly, place a few larger pieces of wood onto the fire.



### Adjusting the Burn Rate

Use the air control slider to control the burn rate of the stove. See the illustration below for details.



**Approximate Air Control Settings** 

Overnight Burn Medium Burn Medium High Burn High Burn Fully out to 9/32" open 9/32" open to 5/16" open 5/16" open to 7/16" open 7/16" open to pushed fully in



The air control becomes hot during operation - use gloves or a tool to prevent burns.

The air control may take several minutes to influence the burn rate. When making adjustments, you may wish to let the stove burn for 10 minutes to gauge performance.

### Ash Removal



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, away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.

### **Optional Blower Operation**

The blower will turn on once the stove is up to temperature. This is typically 15 to 30 minutes after starting the fire. Follow the directions below to alter the blower speed.





The blower may be used to affect heat output (i.e.: to reduce heat output, turn the blower down).

Route the power cord in a location where it will not come in contact with the appliance or become hot.

### **Re-Loading the Stove**

Follow the directions below to minimize smoke spillage while re-loading the stove.

- 1 Open the air control (push it in). Open the bypass (pull it out).
- 2 Open the door slightly. Let the airflow inside the firebox to stabilize before opening the doors fully.
- **3** Load wood onto the fire.

### Overnight Burn

This stove is large enough to accommodate burn times up to eight hours. Follow the steps below to achieve an overnight burn.

- 1 Move the air control to high burn and let the stove become hot (burn for approximately 15 minutes).
- 2 Load as much wood as possible. Use large pieces if possible.
- 3 Let the stove burn on high for 15 minutes to keep the stove hot, then turn the air control to low.
- 4 In the morning the stove should still be hot, with embers in the coal bed. Stir the coals and load small pieces of wood to re-ignite the fire, if desired.



Differences if chimney height and draft may lower overall burn times.

### Normal Operating Sounds

#### Creaks and Clicks:

The 3/16" and 5/16" steel may creak or click when the stove heats up and cools down - this is normal.

#### Blower Sounds:

The blower will make a slight "humm" as it pushes air through the stove.

#### <u>Hint:</u>

Make sure the leveling bolts on legs are extended - preventing the hearth from amplifying any vibrations.



### Hints for Burning

- Get the appliance hot before adjusting to low burn
- Use smaller pieces of wood during start-up and high burns to increase temperature
- Use larger pieces of wood for overnight or sustained burns
- Stack the wood tightly together to establish a longer burn
- Leave a bed of ashes (1/2" deep) to allow for longer burns
- Be considerate of neighbors & the environment: burn dry wood only
- Burn small, intense fires instead of large, slow burning fires when possible
- Learn your appliance's operating characteristics to obtain optimum performance

### Selecting Wood

- Dry Wood is Key
- Dry wood burns hot, emits less smoke and creates less creosote.
- Testing Wood Moisture
- Split wood stored in a dry area will be fully dry within a year. This insures dry wood. If purchasing wood for immediate use, test the wood with a moisture meter. Some experienced wood burners can measure wood moisture by knocking pieces together and listening for a clear "knock" and not a "thud".



### Why Dry Wood is Key

Wet wood, when burned, must release water stored within the wood. This cools the fire, creates creosote, and hampers a complete burn. Ask any experienced wood burner and he or she will agree: dry wood is crucial to good performance.

### Wood Cutting and Storage



# Troubleshooting

Problem	Possible Cause
Smoke Enters Room During Start-Up	<ul><li>Open the bypass (pg. 18).</li><li>Open the air control (pg. 20).</li></ul>
	<ul> <li>Cold Air Blockage - burn a piece of newspaper to establish a draft.</li> </ul>
	<ul> <li>If the flame is not getting enough air, a small crack in the door is all that is needed.</li> </ul>
Kindling Does Not Start - Fire	• Open the bypass (pg. 18).
Smolders	• Open the air control (pg. 20).
	<ul> <li>Not enough starter paper - use additional newspaper if necessary.</li> </ul>
	• If the flame is not getting enough air, a small crack in the door is all that is needed.
Smoke Enters Room While Re-	• Open the bypass before opening the door (pg. 18).
Loading	• Open the air control before opening the door (pg. 20).
	• Let the air stabilize before fully opening the door. Then open the door approximately 1 inch. Let air go into the firebox for a few seconds. Once the smoke appears to be flowing up the chimney consistently, open the door.
	<ul> <li>Insufficient Draft - Chimney height and outside conditions can negatively affect draft. In these cases a small amount of smoke may enter the home. Adding more pipe or a draft-inducing cap may help.</li> </ul>
Stove Does Not Burn Hot Enough	<ul> <li>Wood is Wet - see the section "Selecting Wood" on page 22 for details on wood.</li> </ul>
	• Make sure the air control is all the way open. Slide the control back and forth to insure the control is not stuck.
	<ul> <li>Insufficient Draft - Chimney height and outside conditions can negatively affect draft. In these cases the fire may burn slowly. Adding more pipe or a draft- inducing cap may help.</li> </ul>
Blower Does Not Run	• Stove is Not Up to Temperature - This is normal. The blower will come on when the stove is hot - usually 15 to 30 minutes.
	• Electricity is Cut to the Blower - Check the household breaker or fuse to make sure it is operable.
Stove Does Not Burn Long Enough	• Depending upon wood, draft, and other factors, the burn time may be shorter then stated. Make sure the doors are sealing and not allowing air into the firebox - See the section "Door and Glass Inspection" on page 25 for details.
	<ul> <li>Check the ash bed for coals. Often, coals are still glowing under a slight bed of flyash. By raking these into a pile you can re-start your stove quickly.</li> </ul>

# **Maintaining Your Appliance**



Failure to properly maintain and inspect your appliance may reduce the performance and life of the appliance, void your warranty, and create a fire hazard.

### Daily Maintenance (while stove is in use)

#### Remove Ash (if necessary)

- Ash removal is <u>not</u> required once it builds up. 1/2" to 1" of ash may be desirable because it slows the burn rate. Generally, remove ash once it has built up over 1". Follow the directions below to remove ash.
  - 1 Let the stove cool completely (at least two hours after the last coal has extinguished).
  - 2 Place a cloth or cardboard protector over the hearth to catch ash and protect against scratching.
  - **3** Open the doors and scoop the ash into a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, away from all combustible materials, pending final disposal.





Improperly disposed ashes lead to fires. Hot ashes placed in cardboard boxes, dumped in back yards, or stored in garages, are recipes for disaster.



Wood-burning stoves are inherently dirty. During cleaning have a vacuum ready to catch spilled ash (make sure ash is entirely extinguished).



There are vacuum cleaners specifically made to remove ash (even if the ash is warm). Contact your dealer for details.

#### Clean the Glass (if necessary)

This appliance has an airwash to keep the glass clean. However, burning un-seasoned wood or burning on lower burn rates leads to dirtier glass (especially on the sides). Clean the glass by following the directions below.





The glass will develop a very slight haze over time. This is normal and will not affect viewing of the fire.

### Monthly Maintenance (while appliance is in use)



Make sure the appliance has fully cooled prior to conducting service.

#### Door and Glass Inspection

The door must form an air-tight seal to the firebox for the stove to work correctly. Inspect the door gasket to make sure it forms an air-tight seal to the firebox.



The door latch should pull the door against the face of the stove (but not so tight as to not allow full handle rotation). If the latch requires adjustment, follow the directions below.



#### **Creosote - Formation and Need for Removal**

When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slowburning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire. The chimney and chimney connector should be inspected at least once every two months during the heating season to determine if a creosote buildup has occurred. If creosote has accumulated, it should be removed to reduce the risk of a chimney fire.



If you are not certain of creosote inspection, contact your dealer or local chimney sweep for a full inspection. Excess creosote buildup may cause a chimney fire, that may result in property damage, injury, or death.

### Yearly Maintenance



Make sure the appliance has fully cooled prior to conducting service.

### Touch Up Paint

Included with the owner's pack of this appliance is a can of Stove-Brite® paint. To touch up nicks or dulled paint, apply the paint while the appliance is cool. Sand rusted or damaged areas before preparation (use 120 grit sandpaper). Clean and dry the area to prepare the surface. Wait at least one hour before starting the appliance. The touched up area will appear darker than the surrounding paint until it cures from heat. Curing will give off some fumes while curing – open windows to ventilate.



### Cleaning the Air Duct and Blower (if applicable)

Use a vacuum to clean the air ducts (channels). This prevents dust from burning and creating odors.

The optional blower should be vacuumed every year to remove any buildup of dust, lint, etc.



#### **Firebrick and Baffle Inspection**

Use the illustration on page 28 as a reference for checking the following items. Make sure the appliance is cool before proceeding.

<u>Baffle Firebricks</u> - check the bricks along the ceiling of the firebox to make sure they are intact and have no gaps between them. Slide the bricks to eliminate any gaps.

<u>Baffle Supports</u> - make sure the front and back baffle supports in are place and not degraded. Slight scaling or rusting of the metal is normal.

<u>Secondary Air Tubes</u> - Check the two air tubes and collars to make sure they are intact and not severely deteriorated. Slight scaling or rusting of the metal is normal. Make sure the push pins hold the air tubes in place.

Floor and Wall Firebricks - replace any severely damaged firebrick along the side or floor of the firebox.

### Maintaining Your Appliance



1	Door Shell - Black Door Shell - Brass Door Shell - Pewter	1	230-00578 230-00579 230-00577	2	Glass (19-1/4" x 9-7/8")	1	173-01001
3	Glass Gasket	1	100-01164	4	Door Retainer (w gasket)	1	224-23029
5	Gasket Cement	1	99900409	6	Door Gasket	1	99900406
7	Door Handle Asbly - Black Door Handle Asbly - Brass Door Handle Asbly - Pewter	1	224-14042 99900410 224-14052	8	Spring - Black Spring - Brass Spring - Pewter	1	100-14122 99300100 100-04103
9	Washers	2	100-03501	10	Cam	1	99900417
11	Nut, Brass	1	101-00007	12	Glass Clips - Top Glass Clip - Bottom	2 1	224-230022 224-230021
13	#8-32 3/8" Type F Screw	8	225-20039	14	Set Screw	2	225-20038

#### **Replacing the Glass**

The glass must not contact the door retainer or glass clips directly. The glass gasket and glass clip gaskets insulate the glass to prevent cracking. Do not over-tighten the glass clips.

See "Door Shell Installation" (pg. 32) for details on removing the door handle and shell. NOTE: The glass gasket is placed in the grove along the inside perimeter of the door retainer. Make sure the glass clip screws are all fully tightened - they must be flush with the door retainer for the door shell to install.

#### **Replacing the Door Gasket**

The door gasket inserts into the outer groove of the door retainer. Stove gasket cement holds it in place. Before installing, remove any residual cement. Lay the gasket in place (start at the lower left corner) and cut off any excess gasket (do not stretch the gasket. The cement fully cures with heat from the stove. You may need to open and close the door repeatedly to get the gasket to seat fully.

#### **Replacing the Door Handle**

See the illustration above for a component list (see pg. 25 for details on adjusting the door).

### **Firebox Parts**



ID #	Description	Qty	Part #	ID #	Description	Qty	Part #
1	Air Tubes & Sleeve	1	98900210	2	Air Tube Roll Pins	6	98900357
3	Air Tube Retainer Sleeve	3	100-11001	4	Baffle Support, Front "Y"	1	99900277
5	Baffle Support, Rear "T"	1	99900278	6	Damper Plate	1	98900320
7	Damper Slider	1	98900340	8	Damper Yoke	1	98900326
9	Damper Extension Rod with Pull Ring	1	98900333	10	Brick - 9" x 4.5" un-cut	15	175-00001 (1) 98900102 (9)
11	Brick, Cut - 8.25" x 4.5"	2	251-00010	12	Brick, Cut – 6.25" x 4.5"	2	251-00011

#### Floor and Side Firebrick Removal & Replacement

**Do not pry firebrick - they chip and crack easily.** Remove the floor firebricks first. The side firebrick are removed later because they are pinned in place by the floor firebrick. Clean the firebox prior to replacing the firebrick.

### Baffle Removal & Replacement

- 1 Lift up on the front portion of the front three firebricks.
- 2 Lift the front baffle support "Y" and rotate it forward until it can be removed.
- 3 Slide the center front firebrick forward and out the door opening. Then slide the side front firebricks towards the middle then out in the same manner.
- 4 Slide the center baffle support forward and out of the firebox.
- 5 Slide the rear firebrick forward and out of the firebox. NOTE: When the center rear firebrick are slid forward the damper plate will come to rest on the rear secondary air tube and rear air channel.
- 6 Slide the damper slider all the way forward.
- 7 Reach into the firebox and push up on the damper yoke until the damper yoke separates from the damper slider. Remove both the damper slider and damper plate by sliding them between the front two secondary air tubes.

#### **REPLACEMENT INSTRUCTIONS:**

- 8 Place the damper plate above the secondary air tubes in the rear center of the firebox.
- 9 Position the damper slider so the damper yoke inserts into the two tubes on the damper slider (make sure to have correct orientation). Then slide the damper slider over the damper plate until both are centered in the firebox.
- 10 Follow the instructions above in reverse order, starting with step number 5.

### Air Tube Removal & Replacement



#### 30

# 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 gas 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 advanc Mileage or service charges are not cover	ce for any costs to you when arranging red by this warranty. This charge can	g a warranty call. vary from store to store.
Year	s 1 & 2 - COVERAGE: PARTS & LABOR		
	Firebox Assembly:	Ceramic Glass	Re-Installation Allowance
	Firebox, Baffle Supports, Air Tubes, Air Channels, Convection Chamber	Glass (breakage from thermal shock)	In cases where heater must be removed from home
D	Door Assembly:		for repairs, a partial cost of re-installation is covered
	Solid Brass or Cast Door, Latch Assembly, Glass Retainers	Firebrick	(pre-authorization required)
F	Plated Finish	Breakage from thermal shock	One-Way Freight Allowance
	Plated Door, Legs, etc See "Conditions & Exclusions" # 9 below.	Accessories	One-way freight allowance on pre-authorized repair
Α	Air Control Assembly	Legs, Pedestal, Panels, Blower	done at factory is covered.
	Slider Plate, Pressure Plate		
	Exclusions: Paint, Gasketing		
	s 3 Through 5 - COVERAGE: PARTS & LAB		
	Firebox Assembly:	Door Assembly:	One-Way Freight Allowance
	Firebox, Baffle Supports, Air Tubes, Air Channels, Convection Chamber	Solid Brass or Cast Door, Latch	One-way freight allowance on pre-authorized
	Air Control Assembly	Assembly, Glass Retainers	repair done at factory is covered.
	Slider Plate, Pressure Plate		
		, /Logo Rodostal Ranala Plawer) Class	- Firebrick Re Installation Allowance
1		s (Legs, Pedestal, Pariels, Blower), Glass	s, Firebrick, Re-Installation Allowarice
	s 6 & 7 - COVERAGE: PARTS ONLY		
	Firebox Assembly:	Door Assembly:	Air Control Assembly
	Firebox, Baffle Supports, Air Tubes, Air Channels, Convection Chamber	Solid Brass or Cast Door, Latch Assem	bly, Glass Retainers Slider Plate, Pressure Plate
	Exclusions: Paint, Gasketing, Plated Finish, Accessories	s (Legs, Pedestal, Panels, Blower), Glass	s, Firebrick, Re-Installation Allowance, One-
	DITIONS & EXCLUSIONS	upt he installed exercised and maintaine	ad at all times in accordance with the instructions in t
1.	This new appliance must be installed by a qualified installer. It m Owner's Manual. Any alteration, willful abuse, accident, neglect, o	or misuse of the product shall nullify this	warranty.
	This warranty is nontransferable, and is made to the ORIGINAL p		
	Discoloration and some minor expansion, contraction, or moveme		0
I	under warranty. Over-firing (operation where the steel may glow r	red) of this appliance can cause serious of	damage and will nullify this warranty.
4.	The warranty, as outlined within this document, does not apply to	the chimney components or other Non-T	ravis accessories used in conjunction with the
	installation of this product. If in doubt as to the extent of this warra		
	Travis Industries will not be responsible for inadequate performane mountains or negative pressure or other influences from mechanic		
	This Warranty is void if:		
0.	a. The unit has been operated in atmospheres contaminate	d by chlorine, fluorine or other damaging	chemicals.
	b. The unit is subject to submersion in water or prolonged p		
	c. Any damage to the unit, combustion chamber, heat exch	•	, or weather damage which is the result of, but not
	limited to, improper chimney/venting installation.		-
á	Exclusions to this 7 Year Warranty include: injury, loss of use, dai adjustment of the manufacturer's settings of components, lack of p act of God.	mage, failure to function due to accident, proper and regular maintenance, damage	negligence, misuse, improper installation, alteration e incurred while the appliance is in transit, alteration
1	This 7 Year warranty excludes damage caused by normal wear ar firebrick, etc. Also excluded is damage to the unit caused by abus unit is configured (use cord wood only).	nd tear, such as paint discoloration or chi se, improper installation, modification of t	pping, worn or torn gasketing, chipped or cracked he unit, or the use of fuel other than that for which t
	Damage to brass or plated surfaces caused by fingerprints, scratc		
	cleaners is not covered in this warranty. Damage to the surfaces		
10.	TRAVIS INDUSTRIES, INC. is free of liability for any damages cal consequential damages are not covered by this warranty. In some	used by the appliance, as well as inconve	enience expenses and materials. Incidental or
	This warranty does not cover any loss or damage incurred by the		
	express written permission of TRAVIS INDUSTRIES, INC. and be		
	Any statement or representation of Travis products and their perfo	<b>.</b>	
t	this 7 year warranty.		
	This warranty is automatically voided if the appliance's serial num it is excluded from this warranty.	iber rias been removed or altered in any	way. II the appliance is used for commercial purpos
14. I	No dealer, distributor, or similar person has the authority to repres		ne terms contained within this warranty. TRAVIS
	NDUSTRIES, INC. assumes no liability for such warranties or rep		
	Travis Industries will not cover the cost of the removal or re-install	, , , , ,	•
	If for any reason any section of this warranty is declared invalid, th		
	This 7 year warranty is the only warranty supplied by Travis Indus are hereby expressly disclaimed and purchaser's recourse is expr		
	ARRANTY SERVICE IS NEEDED:		
		anty you MUST REPORT it to your Travi	s dealer WITHIN 30 DAYS, giving them proof of
	If you discover a problem that you believe is covered by this warra purchase, the purchase date, and the model name and serial num	iber.	a dealer with invois bit o, giving them proof of
	Travis Industries has the option of either repairing or replacing the		
	If your dealer is unable to repair your appliance's defect, he may p		
t a a	the dealership where you purchased the appliance, a copy of your appliance. At that time, you may be asked to ship your appliance, at its option, will repair or replace, free of charge, your appliance within this 7 year warranty. TRAVIS INDUSTRIES, INC. will return	r receipt showing the date of the applianc , freight charges prepaid, to TRAVIS IND if it is found to be defective in material or n your appliance, freight charges (years	e's purchase, and the serial number on your USTRIES, INC. TRAVIS INDUSTRIES, INC., workmanship within the time frame stated 1 to 5) prepaid by TRAVIS INDUSTRIES.
1	NC., to your regional distributor, or dealership.		
	Check with your dealer in advance for any costs to you when arra can vary from store to store.	inging a warranty call. Mileage or service	e charges are not covered by this warranty. This cha
0	Travis Industries	100-01164	4041115

# Listing Information

#### **Listing Label**

#### DO NOT REMOVE THIS LABEL

LISTED SOLID FUEL BURNING APPLIANCE SUITABLE FOR USE IN RESIDENTIAL, ALCOVE AND MOBILE HOME INSTALLATIONS.



MODEL: TESTED TO RELEVANT PORTIONS OF LIBERTY (520-NT) UL 1482, 737 AND 907.	SERIAL NUMBER	
---	------------------	--

PREVENT HOUSE FIRES - Install and use only in accordance with the Lopi Liberty (520-NT) owner's manual. Contact your local building or fire officials about restrictions and installation inspection in your area. Refer to local building codes and the chimney manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling. Do not run a chimney connector through a combustible wall or ceiling. Do not connect this unit to a chimney flue serving another appliance. 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.

#### FREESTANDING INSTALLATION

STANDARD RESIDENTIAL FREESTANDING INSTALLATIONS REQUIRE: 6" diameter, minimum 24 MSG black or 25 MSG blued steel connector, with listed (type HT) factory-built chimney, suitable for use with solid fuels or masonry chimney. Pedestal or legs are required.

ALCOVE INSTALLATIONS REQUIRE: One of the listed doublewall connectors shown below. Pedestal or legs are required. Maximum alcove depth 48", minimum alcove height 84".

MOBILE HOME AND REDUCED CLEARANCE INSTALLATIONS REQUIRE: One of the listed doublewall connectors shown below. In addition, mobile home installations require outside air - use the optional pedestal or outside air boot. Pedestal or legs are required.

DURAVENT model DVL with DURA-PLUS chimney
 AGEN AND A CONTRACT AND A CONT

AMERI-TEC model DCC with model HS chimney
 SECURITY model DP with SECURITY model ASHT or S2100 chimney

	CLEARANCES AND FLOOR PROTECTION	STANDARD RESIDENTIAL INSTALLATION (SINGLEWALL	MOBILE HOME, ALCOVE AND REDUCED CLEARANCE INSTALLATIONS (REQUIRES DOUBLE WALL CONNECTOR)
А. В.	REQUIREMENTS: SIDEWALL TO UNIT BACKWALL TO UNIT	CONNECTOR) 16" 15"	16" 10"
C. D. E.	CORNER TO UNIT SIDEWALL TO CONNECTOR BACKWALL TO CONNECTOR	9.5" 28" 18.25"	7.5" 27.5" 12.75"
F.	CORNERWALL TO CONNECTOR	21"	18.5"

For use with solid wood fuels only (cord wood). Operate with feed door closed - open to feed fire only. Do not use a grate or elevate fire - build fire directly on the hearth.

Manufactured by: B Travis Inclustries, Inc. 4800 Harbour Pointe Blvd. SW Mukilteo, W MINIMUM CLEARANCES TO COMBUSTIBLES

ADJACENT WAL

BACKWALL

EĨĨB

glass (5mm).

STOVE

FLOOR PROTECOR 6" MIN. 6". O MIN. STOVE

OPTIONAL EQUIPMENT: Rear blower (electrical rating: 115V, 60 Hz., 1.8 Amps)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with July 1990 particulate emission standards.																
DATE OF MANUFACTURE																
IGN	2004	2005	2006	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	0210

### **Door Shell Installation**

1 Remove the door retainer shipping latch following the directions below.



2 Place the door shell face down on a non-scratching surface. Lift the door retainer off the hinges. Insert the retainer into the door shell following the directions below. Note how the door shell is guided into place



# **Optional Equipment**

3 Attach the retainer to the shell following the directions below.

Make sure the door retainer is centered on the door shell. You can gauge the alignment by looking at the gaps here.



Slide the ashlip trim into place then tighten the three set screws on the bottom of the ashlip to secure.

### Stove Leg Installation

Part Numbers: Brass # 99200500, Cast Black # 99200800, Black Steel # 99200100

• Raise the stove 8" (use lumber). Attach each leg following the instructions below.



### Pedestal (Part # 99200106)

0

If using outside air with the pedestal, follow the directions below under "Using Outside Air with the Pedestal" prior to installing the pedestal.



#### Using Outside Air with the Pedestal

Before installing, check the section "Outside Air Requirements" 11 for installation concerns.

- 1. Determine the location of the outside air hole penetrating the floor (& hearth). The illustration above details the size of pedestal and its location in relation to the stove. The hole may be cut anywhere underneath the pedestal, as long as it is not within 2" of the outside perimeter of the pedestal, is at least 16 square inches in area, and does not interfere with structural members of the home. Place the rodent screen over the hole (above or below) and secure with staples.
- 2. Attach the stove to the pedestal with the included bolts. Tuck the included insulation underneath the side edges of pedestal to seal off any air from entering underneath the pedestal.

### Rear Blower Installation (Part # 99000138)

The rear blower improves heat transfer by pushing heated air through the convection channel. Operating instructions are described in the section "Blower Operation".

- 1 The stove should be in place with the legs installed prior to installing the rear blower.
- 2 Follow the directions below to install the blower. Use the



Use the wire clip to insure the wires from the thermodisk are held in place away from the firebox (this prevents damage to the wires).



### **Outside Air Boot Installation** (Part number 99200134)

The outside air boot routes outside air to the stove for combustion. Refer to the section "Outside Air Requirements" for installation concerns. The directions below detail installation.

- 1 Refer to the illustration below to determine the location and size of the hole penetrating the floor and hearth. The knock-out (which is pre-removed) is 6-11/16" behind the face of the stove. Cut the hole prior to locating the stove.
- 2 Attach gasket to the bottom edge of the lower air boot section (near the screen). Attach gasket on top of the flanges on the upper air boot section. Slide the two sections together with both seams facing the rear (do not attach the two sections at this time).
- 3 Follow the directions below for attaching the upper section of the air boot (with gasket) to the stove.
- 4 Slide the lower section down until it contacts the hearth. Attach the two sections together following the directions below



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