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.
Introduction

We welcome you as a new owner of a Lopi Patriot wood-burning stove. In purchasing a Patriot 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 Patriot 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

No other Lopi Patriot appliance has the same serial number as yours. The serial number is stamped onto the label on the back of the appliance.

This serial number will be needed in case you require service of any type.

Model: Lopi Patriot

Serial Number: ____________________________

Purchase Date: ____________________________

Purchased From: ____________________________

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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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 high-temperature 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.

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.

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

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

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

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

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

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).

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.
Installation Options

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

Heating Specifications

Approximate Maximum Heating Capacity (in square feet)* 600 to 1,200
Maximum BTU's per Hour (Cord Wood Calculation) 66,800
Overall Efficiency (Oregon Method) 70%
Maximum Burn Time Up to 8 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.

Features

- EPA Phase II Approved
- 1.6 Cubic Foot Firebox Volume
- Single Operating Control
- Accepts Logs Up to 18" Long
- Steel Plate Construction (1/4" & 3/16”)
- Heavy Duty Refractory Firebrick
- Optional High-Tech Blower

Dimensions

Weight: 270 Lbs.

Emmissions

4.4 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 27) - replace before operation.

Stove Leg Installation

Raise the stove 8” (use lumber) and attach the included legs following the directions in Figure 2.

Attach each leg to the stove by inserting a bolt and washer through the hole or slot in the leg and into the threaded hole on the stove.

These rubber-tipped bolts are for leveling the stove. Make sure they contact the floor. Do not adjust with weight on the legs, the rubber tips may tear.

Pipe Heat Shield Installation

Install the pipe heat shield following the directions in Figure 3.

The pipe heat shield is shipped inside the stove. Install it by sliding this joggle over the back heat shield.
Floor Protection Requirements

- Floor protection must extend 6" to the sides and rear of the stove and 16" to the front of the stove (35-5/8" wide by 36-5/8" deep - see Figure 4 and Figure 5).
- Floor protection must be non-combustible and at least .018" thick (26 gauge).

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 4 and Figure 5)

<table>
<thead>
<tr>
<th>Minimum Clearance</th>
<th>Singlewall Connector</th>
<th>Reduced Clearance*</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Sidewall to stove</td>
<td>18&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>B Backwall to stove</td>
<td>18&quot;</td>
<td>10-1/2&quot;</td>
</tr>
<tr>
<td>C Cornerwall to stove</td>
<td>10&quot;</td>
<td>10&quot;</td>
</tr>
<tr>
<td>D Connector to sidewall</td>
<td>27&quot;</td>
<td>26-1/2&quot;</td>
</tr>
<tr>
<td>E Connector to backwall</td>
<td>19-1/4&quot;</td>
<td>11-1/4&quot;</td>
</tr>
<tr>
<td>F Connector to cornerwall</td>
<td>17-3/4&quot;</td>
<td>17-1/4&quot;</td>
</tr>
</tbody>
</table>

*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
- GSW Super Chimney Twenty-One connected directly to appliance
- I.C.C. Excel (2100-2 Can.) (103-HT USA) chimney with HP connector
- METALFAB model DW connector with TG chimney
- OLIVER MACLEOD PROVENT model PV connector with model 3103 chimney
- SECURITY model DP connector with SECURITY model ASHT or S2100 chimney
- SELKIRK METALBESTOS model DS connector with model SSII chimney
- Standard Masonry Chimney with any one of the above listed connectors

**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.
Top View - Straight Installation

- Measure rear and side clearances from the nearest edge of the stove top.
- NOTE: vent diameter varies depending on brand and model.
- Measure front clearances from the face of the stove (unibody).

Figure 4

Top View - Corner Installation

- Measure rear and side clearances from the nearest edge of the stove top.
- NOTE: vent diameter varies depending on brand and model.
- Measure front clearances from the face of the stove (unibody).

Figure 5
**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.

---

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 "Mobile Home Requirements" on page 13.

**Drafting Performance**

This appliance relies upon natural draft to operate. External forces, such as wind, barometric pressure, topography, or factors of the home (negative pressure from exhaust fans, chimneys, air infiltration, etc.), may adversely affect draft. Travis Industries cannot be responsible for external forces leading to less than optimal performance.

---

**Figure 6**

Minimum System 15’
Maximum System 33’
**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 and at least 2’ above any portion of the roof within 10’ (see Figure 7)

**Slanted Roofs**

Chimney must extend 3’ above the roof

**Flat Roofs**

Chimney must extend 2’ above any portion of the roof within 10’ of the chimney

**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.

When using outside air, find a location where the chimney and outside air hole do not interfere with structural members of the home.

Air may be drawn from a ventilated crawl space or use an air duct.

A hole must be cut through the floor protection and floor and the rodent screen nailed in place here (see the optional equipment instructions for exact sizes)

Optional Air Duct (must not be longer than 15’ and at least 16 square inches in cross section)

Outside air entrance must be placed so it does not become blocked by snow.
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
  - GSW Super Chimney Twenty-One connected directly to appliance
  - I.C.C. Excel (2100-2 Can.) (103-HT USA) chimney with HP connector
  - METALFAB model DW connector with TG chimney
  - OLIVER MACLEOD PROVENT model PV connector with model 3103 chimney
  - SECURITY model DP connector with SECURITY model ASHT or S2100 chimney
  - SELKIRK METALBESTOS model DS connector with model SSII 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.

1. 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 9). 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:

<table>
<thead>
<tr>
<th>Minimum Clearance</th>
<th>Combustible Alcove</th>
<th>Non-Combustible Alcove</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Sidewall to stove</td>
<td>18&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>B Backwall to stove</td>
<td>10-1/2&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td>D Connector to sidewall</td>
<td>26-1/2&quot;</td>
<td>16-1/2&quot;</td>
</tr>
<tr>
<td>E Connector to backwall</td>
<td>11-1/4&quot;</td>
<td>2-1/2&quot;</td>
</tr>
<tr>
<td>G Maximum depth of alcove</td>
<td>48&quot;</td>
<td>48&quot;</td>
</tr>
<tr>
<td>H Minimum width of alcove</td>
<td>59-5/8&quot;</td>
<td>39-5/8&quot;</td>
</tr>
<tr>
<td>J Minimum height of alcove</td>
<td>84&quot;</td>
<td>6&quot; above stove top</td>
</tr>
</tbody>
</table>

Figure 9

© Travis Industries 93508039 4040820
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
  - GSW Super Chimney Twenty-One connected directly to appliance
  - I.C.C. Excel (2100-2 Can.) (103-HT USA) chimney with HP connector
  - METALFAB model DW connector with TG chimney
  - OLIVER MACLEOD PROVENT model PV connector with model 3103 chimney
  - SECURITY model DP connector with SECURITY model ASHT or S2100 chimney
  - SELKIRK METALBESTOS model DS connector with model SSII 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.)

  NOTE: Measure rear clearances from the edge of the stove top, not the rear heat shield.

<table>
<thead>
<tr>
<th>Minimum Clearance</th>
<th>Reduced Clearance Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>(See the illustration above)</td>
<td></td>
</tr>
<tr>
<td>A  Sidewall to stove</td>
<td>18&quot;</td>
</tr>
<tr>
<td>B  Backwall to stove</td>
<td>10-1/2&quot;</td>
</tr>
<tr>
<td>C  Cornerwall to stove</td>
<td>10&quot;</td>
</tr>
<tr>
<td>D  Connector to sidewall</td>
<td>26-1/2&quot;</td>
</tr>
<tr>
<td>E  Connector to backwall</td>
<td>11-1/4&quot;</td>
</tr>
<tr>
<td>F  Connector to cornerwall</td>
<td>17-1/4&quot;</td>
</tr>
</tbody>
</table>

  If using offsets, use the connector clearance listed in Figure 11, 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.
**Standard Ceiling with a Factory Built Chimney**

- Chimney Cap
  (See the section "Chimney Termination Requirements" for more details)

- Chimney Sections

- Insulation

- Follow the chimney manufacturer's instructions and clearances for floor penetrations. A ceiling support is required, an attic insulation shield is required where insulation is present.

- Chimney Connector Sections

**Cathedral Ceiling with a Factory Built Chimney**

- Chimney Cap
  (See the section "Chimney Termination Requirements" for more details)

- Chimney Sections

- Minimum Air Space to Combustibles (See Chimney Manufacturer's Instructions - usually 2”)

- Chimney Connector Sections

- Floor Protection
  (See the section "Floor Protection Requirements" for more details)

Follow the chimney manufacturer's instructions and clearances for roof penetrations. A storm collar and flashing are required (some require a radiation shield).

**Stove Clearances**
(See the section "Stove Placement Requirements" for more details)

**Floor Protection**
(See the section "Floor Protection Requirements" for more details)

Follow the chimney manufacturer's instructions and clearances for floor penetrations. A ceiling support is required, an attic insulation shield is required where insulation is present.

Minimum 15’ Maximum 33’

Figure 12

Minimum 15’ Maximum 33’

Figure 13
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.
Hearth Stove Direct Connection

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

NOTE: The entire fireplace, including chimney, must be clean and not cracked or damaged. Any damage must be repaired prior to installation of the insert. Chimney must be at least 15' tall and no greater than 33' tall. Entire fireplace, including chimney, must meet local building requirements.

Floor Protection
(See the section “Floor Protection Requirements” for more details)

Block-off plate or damper adapter

Min. 18”

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 must be 15’ to 33’ tall.

See the section “Stove Placement Requirements” for minimum clearances required.

Chimney connector sections

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 must be 15’ to 33’ tall.

Make sure the clean-out seals in place.

Figure 16

Figure 17
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.
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. If additional air is needed, open the doors 1/4" during the first five minutes of start-up.

Never 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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Air Control Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overnight Burn</td>
<td>Fully out to 9/32&quot; open</td>
</tr>
<tr>
<td>Medium Burn</td>
<td>9/32&quot; to 5/16&quot; open</td>
</tr>
<tr>
<td>Medium High Burn</td>
<td>5/16&quot; to 7/16&quot; open</td>
</tr>
<tr>
<td>High Burn</td>
<td>7/16&quot; open top pushed fully in</td>
</tr>
</tbody>
</table>

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.

- **OFF**: Turn the dial all the way counterclockwise until it clicks off.
- **HIGH**: The high position is all the way counterclockwise, without clicking off.
- **LOW**: Turn the dial all the way clockwise.

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 all the way (push it in).
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 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.

**Hint**: 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

- Cut wood to length and chop into quartets.
- Store the wood off the ground in a covered area. Allow for airflow around the wood to dry the wood.

Air Flow
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Smoke Enters Room During Start-Up</strong></td>
<td>• Open the air control (pg. 19).</td>
</tr>
<tr>
<td></td>
<td>• Cold Air Blockage - burn a piece of newspaper to establish a draft.</td>
</tr>
<tr>
<td></td>
<td>• If the flame is not getting enough air, a small crack in the door is all that is needed.</td>
</tr>
<tr>
<td><strong>Kindling Does Not Start - Fire Smolders</strong></td>
<td>• Open the air control (pg. 19).</td>
</tr>
<tr>
<td></td>
<td>• Not enough starter paper - use additional newspaper if necessary.</td>
</tr>
<tr>
<td></td>
<td>• If the flame is not getting enough air, a small crack in the door is all that is needed.</td>
</tr>
<tr>
<td><strong>Smoke Enters Room While Re-Loading</strong></td>
<td>• Open the air control before opening the door (pg. 19).</td>
</tr>
<tr>
<td></td>
<td>• 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.</td>
</tr>
<tr>
<td></td>
<td>• 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.</td>
</tr>
<tr>
<td><strong>Stove Does Not Burn Hot Enough</strong></td>
<td>• Wood is Wet - see the section &quot;Selecting Wood&quot; on page 21 for details on wood.</td>
</tr>
<tr>
<td></td>
<td>• Make sure the air control is all the way open. Slide the control back and forth to insure the control is not stuck.</td>
</tr>
<tr>
<td></td>
<td>• 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.</td>
</tr>
<tr>
<td><strong>Blower Does Not Run</strong></td>
<td>• Stove is Not Up to Temperature - This is normal. The blower will come on when the stove is hot - usually 15 to 30 minutes.</td>
</tr>
<tr>
<td></td>
<td>• Electricity is Cut to the Blower - Check the household breaker or fuse to make sure it is operable.</td>
</tr>
<tr>
<td><strong>Stove Does Not Burn Long Enough</strong></td>
<td>• 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 &quot;Door and Glass Inspection&quot; on page 24 for details.</td>
</tr>
<tr>
<td></td>
<td>• 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.</td>
</tr>
</tbody>
</table>
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 **not** 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.

   ![Ashes](image)

**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.

![Clean Glass](image)

**For Stubborn Creosote:**
Dip newspaper or a paper towel in cool ashes and wipe it on the glass. The ash acts as a light abrasive.

Allow the stove to fully cool. Apply glass cleaner or soapy water to the inside of the glass. Wipe with newspaper or a paper towel.

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 can be lifted off the hinges if extensive repairs are conducted.

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 slow-burning 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.

![Use a vacuum cleaner to remove any buildup on the screens of the blower.](image)

Firebrick and Baffle Inspection

Use the illustration on page 27 as a reference for checking the following items. Make sure the appliance is cool before proceeding.

- **Baffle Firebricks** - 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.
- **Baffle Supports** - make sure the front and back baffle supports in are place and not degraded. Slight scaling or rusting of the metal is normal.
- **Secondary Air Tubes** - 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.
**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 the illustration above for details on removing the door handle and shell. NOTE: The glass gasket is placed in the groove 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. 24 for details on adjusting the door).
### Firebox Parts

<table>
<thead>
<tr>
<th>ID</th>
<th>Description</th>
<th>Qty</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Baffle Support &quot;S&quot; Bar</td>
<td>1</td>
<td>99900294</td>
</tr>
<tr>
<td>2</td>
<td>Air Tube with Sleeve</td>
<td>3</td>
<td>98900232</td>
</tr>
<tr>
<td>3</td>
<td>Air Tube Push Pins</td>
<td>6</td>
<td>98900353</td>
</tr>
<tr>
<td>4</td>
<td>Air Tube Retainer Sleeve</td>
<td>3</td>
<td>98900356</td>
</tr>
<tr>
<td>5</td>
<td>Brick - 9” x 4.5” un-cut</td>
<td>16</td>
<td>98900102 (qty of 9)</td>
</tr>
<tr>
<td>6</td>
<td>Brick, Cut - 9” x 2.5”</td>
<td>3</td>
<td>251-00019</td>
</tr>
<tr>
<td>7</td>
<td>Brick, Cut - 9” x 1.375”</td>
<td>2</td>
<td>251-00018</td>
</tr>
</tbody>
</table>

**Floor and Side Firebrick Removal & Replacement**

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

All three air tubes are identical.

1. Remove the left pin on the air tube collar.
2. Slide the air tube to the left, swing it down and remove from the firebox.

---

**Baffle Removal & Replacement**

The baffle is held up by the front air tube. Make sure to support the baffle after removing the air tubes.

1. Lift the four baffle firebricks then lift the baffle deflector up and over its resting position.
2. Slide the bricks forward and tilt them downwards to remove.
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:

<table>
<thead>
<tr>
<th>Coverage</th>
<th>Parts Only</th>
<th>Parts &amp; Labor</th>
<th>Parts &amp; Labor</th>
<th>One-Way Freight Allowance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Years 1 &amp; 2</td>
<td>Firebox Assembly</td>
<td>Door Assembly</td>
<td>Plated Finish</td>
<td>Air Control Assembly</td>
</tr>
<tr>
<td></td>
<td>Ceramic Glass</td>
<td>Solid Brass or Cast Door, Latch Assembly, Glass Retainers</td>
<td>Accessories</td>
<td>Slider Plate, Pressure Plate</td>
</tr>
<tr>
<td></td>
<td>Glass (breakage from thermal shock)</td>
<td>Glass (breakage from thermal shock)</td>
<td>Legs, Pedestal, Panels, Blower</td>
<td>One-Way Freight Allowance</td>
</tr>
<tr>
<td></td>
<td>Air Control Assembly</td>
<td>Solid Brass or Cast Door, Latch Assembly, Glass Retainers</td>
<td>Accessories</td>
<td>Slider Plate, Pressure Plate</td>
</tr>
<tr>
<td></td>
<td>Plated Finish</td>
<td>One-Way Freight Allowance</td>
<td>One-way freight allowance on pre-authorized repair done at factory is covered.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plated Door, Legs, etc…</td>
<td># 9 below.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

2. This warranty is nontransferable, and is made to the ORIGINAL purchaser, provided that the purchase was made through an authorized Travis dealer.

3. 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. Over-firing (operation where the steel may glow red) of this appliance can cause serious damage and will nullify this warranty.

4. The warranty, as outlined within this document, does not apply to the chimney components or other Non-Travis accessories used in conjunction with the Travis product. If in doubt as to the extent of this warranty, contact your authorized Travis retailer before installation.

5. Travis Industries will not be responsible for inadequate performance caused by environmental conditions such as nearby trees, buildings, roof tops, wind, hills 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, fluoride 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/ventilation installation.

7. 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.

8. 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 (use cord wood only).

9. Damage to brass or plated surfaces caused by fingerprints, scratches, melted items, or other external sources left on the surfaces from the use of abrasive cleaners is not covered in this warranty. Damage to the surfaces from over-firing (operation where the steel may glow red) is not covered in this warranty.

10. TRAVIS INDUSTRIES, INC. is free of liability for any damages caused by the appliance, as well as inconvenience expenses and materials, consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply.

11. 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 written permission of TRAVIS INDUSTRIES, INC. and bearing a TRAVIS INDUSTRIES, INC. label of approval.

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.

13. 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.

14. No dealer, distributor, or similar person has the authority to represent or warrant Travis products beyond the terms contained within this warranty. TRAVIS INDUSTRIES, INC. assumes no liability for such warranties or representations.

15. Travis Industries will not cover the cost of the removal or re-installation of hearths, facing, mantels, venting or other components.

16. 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.

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:**

1. 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 model name and serial number.

2. Travis Industries has the option of either repairing or replacing the defective component.

3. 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 dealer 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.

4. 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.
PREVENT HOUSE FIRES - Install and use only in accordance with the manufacturer’s installation and operating instructions. Contact your local building or fire officials about restrictions and installation inspection in your area. Refer to local building codes and 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. For use with solid wood fuel only (cord wood). Operate with feed door closed - open to feed fire only. Do not use a grate to elevate fire - build fire directly on hearth. DANGER: Risk of electrical shock. Disconnect power supply before servicing. Route power cord away from unit. Do not route power cord over or under appliance.

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. Do not install in a sleeping room of a mobile home.

ALCOVE INSTALLATIONS REQUIRE: One of the Listed doublewall connectors listed below. Maximum alcove depth 48”, minimum alcove height 84”, minimum alcove width 59-5/8” (Patriot) 60” (Parlor).

MOBILE HOME INSTALLATIONS REQUIRE: One of the Listed doublewall connectors listed below. Mobile home installations also require outside air - use the Lopi optional outside air boot.

DOUBLEWALL CONNECTORS

- DURAVENT model DVL with DURA-PLUS chimney
- AMERI-TEC model DCC with model KS chimney
- SECURITY model DP with SECURITY model ASHT or S2100 chimney
- GSW model Super Chimney Twenty-One connected directly to appliance
- SELKIRK METALBESTOS model DS connector with model SSII chimney
- ICC EXCEL (2100-2 Can.) (103-HT USA) chimney with HP connector

U.S. ENVIRONMENTAL PROTECTION AGENCY
Certified to comply with July 1990 particulate emission standards.
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 thermodisk.

3. Install the wire clip following the directions below.

   - Slide the wire clip over the edge of the strip of metal between the two knock-outs.
   - Feed the two snap disk wires into the eye of the wire clip. Remove all slack from the wire, making sure not to dislodge the snap disk. Pinch the eye of the wire clip to secure the wires.

   **WARNING:**
   To prevent electrical shock, the wires must be secured so they do not contact the firebox above the convection channel.

4. Attach the blower following the directions below.

   - The blower attaches to the stove with the three included screws. Use a 3/8" socket driver or wrench.
   - Prior to attaching the blower, tuck all excess wire into the area inside the blower.
   - Plug the power cord into a 110 V. outlet after installing the blower.

   **NOTE:**
   Attach the quick-connects leading from the snap disk to the quick-connects from the blower (orientation does not matter).
**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 5-13/16" behind the face of the stove. Mark the hole location after temporarily placing the stove, making sure all clearances and other requirements are met.

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.

**Diagram:**
- Attach the included gasket to all four top edges of the air boot.
- Use a screwdriver to pry out the knock-out (if applicable).
- Use the included screws to attach the two telescoping portions of air boot together. The included drill bit should be used to drill the hole. Make sure the air boot is expanded to the correct size before drilling.
- Attach the air boot with the two screws included with the kit.

**Floor (and hearth):**

The hole in the floor (and hearth) must be a minimum 16 square inches. It should be 1/2" smaller than the footprint of the air boot in each dimension to allow for the gasket to seal.

**Figure:**
- Bottom of Stove
- 8-7/8" x 5-1/8"
<table>
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