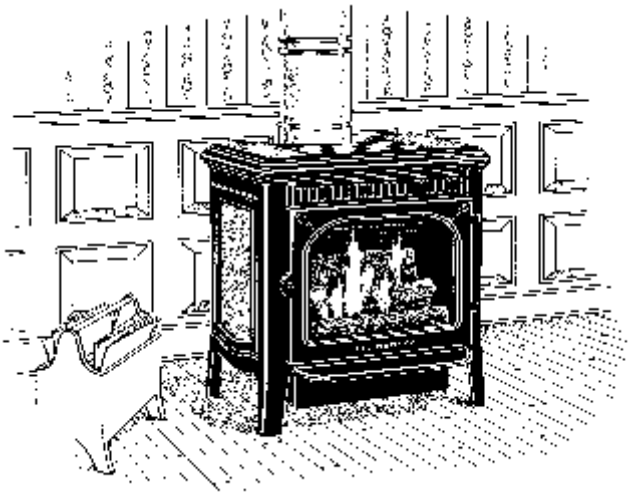
OWNER'S MANUAL
With Installation and Operation
Instructions for the

TUCSON

Gas-Fired B-Vent Fireplace Heater



Warnock Hersey

Manufactured by: **HearthStone**
317 Stafford Avenue
Morrisville, Vermont 05661

WARNING

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life. Installation and service must be performed by a qualified installer, service agency, or the gas supplier. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

FOR YOUR SAFETY - WHAT TO DO IF YOU SMELL GAS

* Do not try to light the appliance.
* Do not touch any electrical switch; do not use the phone in your building.
* Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
* If you cannot reach the gas supplier, call the fire department.

6400-40433 12/01

Welcome

Congratulations on your purchase of your HearthStone Tucson gas-fired B-vent heater. The Tucson incorporates the latest in energy efficient gas technology which will provide you with clean, efficient heat for years to come. The combination of natural stones with cast iron gives the Tucson a pleasing look which can be maintained with minimum care.

If there are any questions regarding installation or operation which are not answered within this manual, contact your local dealer or your building inspector.

Your Tucson is equipped with a standing pilot which: 1) generates a millivolt signal that powers the wall-mounted thermostat and 2) lights the main burner when the thermostat calls for heat. Your Tucson requires no external power source for normal operation (unless equipped with the optional blower fan kit).

This unit is equipped with a variable output control located on the gas control valve. It allows you to vary the heat output, along with the flame height, to suit personal needs. Heat output can be reduced during the Fall and Spring (when the need for heat is reduced) and increased during Winter months (when the need for heat is the greatest). Regardless of how you set the variable output control, the on/off cycling of the unit is always controlled by the wall-mounted thermostat.

This unit can be equipped with an optional variable speed blower fan . The speed control is located on the front of the stove at the lower right side behind the door. This allows you to turn the fans on or off and control the speed of the fans to suit your needs. Regardless of the speed at which the fan is set, the fan will automatically come on when the unit heats up and shuts off once the unit has cooled down.

Your Tucson will provide you with years of practical and convenient service. However, as with any gas appliance, the unit must be properly and safely installed and maintain by qualified service personnel to ensure safe and trouble free-operation.

Table of Contents

READ THIS OWNER'S MANUAL

Operate and maintain this gas heater according to instructions in this manual. Read this manual in its entirety.

HEATER MUST BE INSTALLED AND MAINTAINED BY QUALIFIED SERVICE PERSONNEL

Failure to properly install, adjust and maintain this gas appliance may result in an unsafe or hazardous condition which may lead to carbon monoxide poisoning, fire, explosion, personal injury and loss of life. The gas heater must be inspected before use and at least annually by qualified service personnel. **More frequent cleaning may be requireddue to excesive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean.**

DO NOT OPERATE HEATER IF ANY PART HAS BEEN UNDER WATER

Immediately call qualified service personnel to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

Note! The Tucson requires an adequate supply of air to provide ventilation around the unit and to support combustion. Most buildings have sufficient air infiltration to satisfy these requirements.

However, extremely air-tight structures may require the introduction of supplemental air from the outside to allow for proper operation of the unit

!HAZARD!

This gas appliance must be connected to a properly installed and maintained venting system (chimney). This appliance is equipped with a down draft sensor switch (vent spill switch). Tampering, modifying, disconnecting or overriding the vent safety shutoff system may result in an unsafe or hazardous condition witch may lead to carbon monoxide poisoning and loss of life.

!HOT SURFACES!

Certain exposed surfaces of the Tucson will reach high temperatures during normal operation. Do not place objects that may obstruct air circulation on, under or near the heater. Clearances to combustibles must be maintained as specified elsewhere in this manual. The Tucson should be located out of traffic and away from furniture, draperies, clothing and flammable material. Clean the area around, under and behind the unit on a regular basis to prevent the accumulation of dust and lint. Children and adults who are unfamiliar with heaters of this type should be alerted to the hazards of high surface temperatures and warned that they should stay away to avoid burns to skin and clothing. Children should be carefully supervised when in the same area as the Tucson heater. Do not leave children unattended in the vicinity of this unit.

!FIRE HAZARD!

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this appliance. The Tucson should be located out of traffic and away from furniture, draperies, clothing and flammable material.

!ELECTRICAL HAZARD!

When the optional blower kit is installed, the Tucson must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70 in the U.S. or CSA C22.1 Canadian Electrical Code in Canada.

The Tucson fan accessory is equipped with two blower fans. The three-prong grounded plug must be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from the plug or otherwise attempt to circumvent the grounding

protection provided with the unit.

DO NOT LIGHT PILOT OR MAIN BURNERS BY HAND

The standing pilot light equipped with this gas heater is lit by using a piezoelectric spark generator as described on page 15 in this manual. Never attempt to light the pilot or main burners by hand with a match or lighter. If, after repeated attempts, the pilot light fails to light, discontinue operation, turn off the gas at the gas control valve and immediately contact qualified service personnel for assistance.

WARNING:

This gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

CERAMIC FIBER LOG SAFETY INFORMATION

If the decorative ceramic logs and ember strip material supplied with the Tucson are damaged or missing, they must be replaced with the same, approved replacements supplied by the manufacturer. Do not replace fiber ceramic logs or ember strip with unapproved ceramic logs or any other material.

SERVICE CAUTION

Any shield, door, safety screen component removed for servicing will be replaced prior to operating. If you believe your Tucson is not performing properly in any way what so ever, immediately discontinue operation until the unit has been inspected and approved for continued operation by qualified service personnel. Always shut off gas and electricity to the stove while servicing. Make sure the unit is completely turned off. Make sure the unit is not hot when servicing or cleaning. Use of any components not supplied by HearthStone on the stove or vent system voids all warranties. Do not substitute components.

NEVER BURN PAPER, WOOD OR OTHER MATERIALS

This gas heater is designed to burn either natural gas or liquid propane (LP). Never burn any fuel which was not intended for use.

MUST BE VENTED TO THE OUTSIDE

Never vent the gas heater to other rooms or buildings. Do not burn the gas heater with the viewing door open. Do not burn gas heater with broken glass. Only open front door for routine service. Do not slam door or strike glass.

WHAT TO DO IF YOU SMELL GAS

* DO NOT ATTEMPT TO LIGHT THIS GAS HEATER OR ANY APPLIANCE
* EXTINGUISH ANY OPEN FLAME
* DO NOT TOUCH ANY ELECTRICAL SWITCH
* DO NOT PLUG IN OR UNPLUG ANY APPLIANCE
* DO NOT USE ANY PHONE IN YOUR BUILDING
* OPEN WINDOWS IN THE ROOM AND VACATE THE BUILDING
* TURN OFF THE MAIN GAS SUPPLY
* IMMEDIATELY CALL YOUR GAS SUPPLIER FROM A NEIGHBOR'S PHONE
* IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE

UNPACKING AND INSPECTION

Packing List

1 - Tucson Gas-fired Heater
4 - Decorative Ceramic Fiber Logs
1 - Ember Screen
1 - Thermostat with 40' Thermostat Wire
1 - Owner's Manual
1 - Warranty Validation Form
1 - Bag Charcoal Embers (2oz)

Unpack and Inspect For Damage

The Tucson is packaged by the manufacturer to withstand shipment without damage under most circumstances. However, damage can occur during transit and handling, so take care to inspect for damage when unpacking and installing the unit. If any damage or missing parts are detected, immediately contact your dealer. Do not install or put into service a damaged or incomplete heater.

Prior to removing the shipping carton, inspect the carton for visible signs of damage. Carefully remove the shipping carton. Caution: The two top stones and grill are NOT cemented or otherwise permanently fastened in place! Carefully remove and set aside the two stones and grill. Use the protective wrapping material to temporarily protect the stones from chipping and damage while the unit is inspected and installed.

Inspect the Tucson for visible or concealed damage. The unit should appear to be square and true. The stones should be whole and without cracks, chips or breakage. The sheet metal parts should be smooth and free of bends or dents. The enameled cast iron should be free of chips or cracks. If visible or concealed damage is found or suspected, contact your dealer for instructions.

With the top stones and grill removed and set aside, undo the lag bolts which fasten the unit to the pallet. Take care not to mar or chip the enameled legs (if stove is enameled). Lift the stove off the pallet and set it into place.

The decorative ceramic fiber logs supplied with the Tucson are contained within the firebox. Always use great care when handling the decorative ceramic fire logs as they are fragile and subject to damage and breakage if handled roughly. Open the firebox door using a Phillips head screw drive and inspect the logs for breakage. If a broken log is encountered, contact your dealer for replacement logs. Otherwise, set the logs aside until called for in the installation procedure.

ITEMS REQUIRED FOR INSTALLATION

Ensure that the following items are available before proceeding with installation:
* External regulator (for propane/L.P.G. only)
* Piping which complies with local codes
* Pipe sealant approved for use with propane/L.P.G. (resistant to sulfur compounds)
* Manual shutoff valve
* Sediment trap

* Tee joint
* Pipe wrench
* Phillips head screwdriver
* Other parts as required by local code

*Safety Glasses
*Gloves

Clearances To Combustibles
Due to high surface temperatures, the Tucson should be located out of traffic and away from furniture and draperies. Clothing and other flammable material should not be placed on or near the Tucson heater.

Always maintain adequate clearances around the air openings into the combustion chamber and allow for adequate ventilation. Minimum clearances to combustibles must be maintained as shown in the illustrations on page 6. Note that the rear clearance to combustibles will be determined by either the unit's or vent pipe's minimum clearance, depending on whether the installation calls for vertical rise within the room or a rear exit, through-the-wall vent pipe.

Hearth Requirements / Floor Protection The Tucson can be installed on a non-combustible surface or wood floor. For installation of the Tucson on carpeting, vinyl tile or other combustible material other than wood flooring, the unit shall be installed on a metal, wood panel or other non-combustible hearth. The required size of the hearth is the same as the outline of the stove.

*__NOTE:__ These clearances are based on independent laboratory testing to ANSI and CSA standards. They represent ***minimum*** distances in all cases to prevent fire or spontaneous combustion. The combustible materials exposed to heat by this product are not controlled by us, therefore, an assessment of the effect of heat on the surroundings must be made by the installer to prevent consequential damage of walls or flooring.

CODES

Adhere to all local codes or, in their absence, the current edition of THE NATIONAL FUEL GAS CODE ANSI Z223.1 or NFPA54 or CAN1-B149-GAS APPLIANCE INSTALLATION CODE can be obtained from:

AMERICAN NATIONAL STANDARDS INSTITUTE, INC.
1430 BROADWAY
NEW YORK, NY 10018
OR
NATIONAL FIRE PROTECTION ASSOCIATION, INC.
BATTERY MARCH PARK

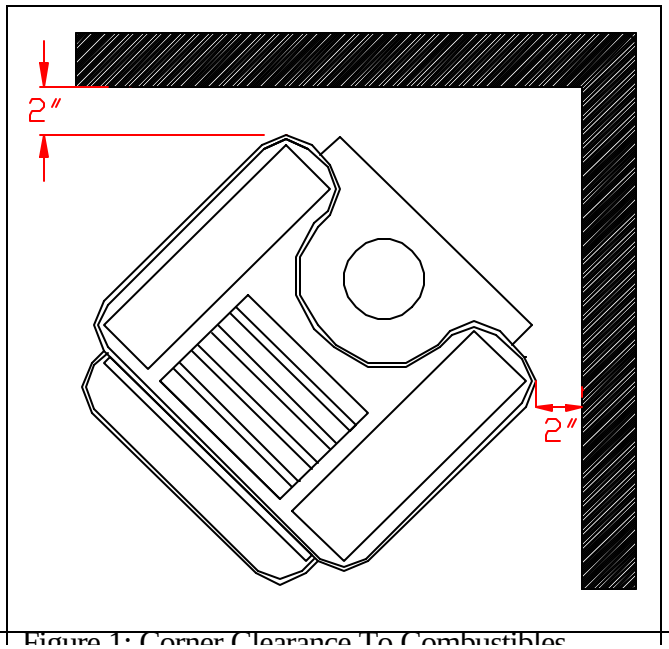


Figure 1: Corner Clearance To Combustibles

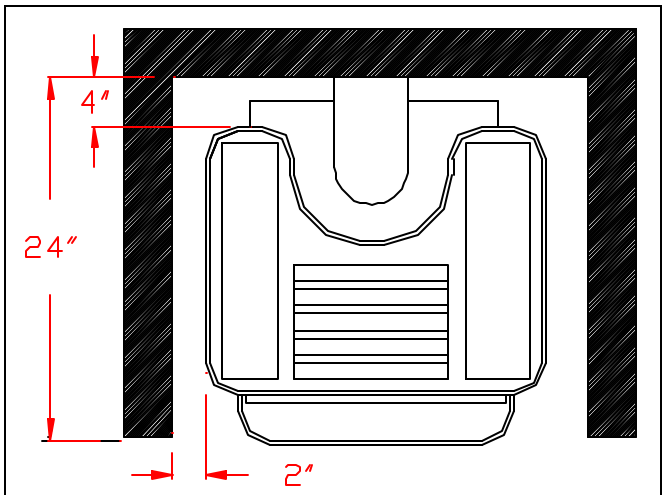


Figure 3: Minimum Wall Clearance Horizontal or

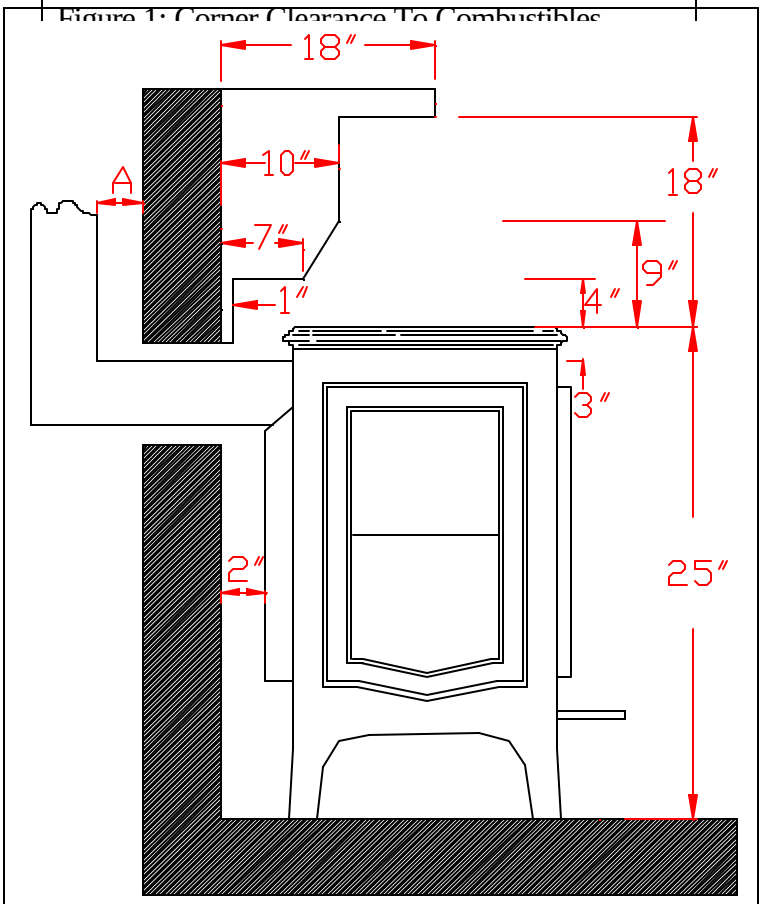


Figure 2: Stove Pipe & Stove Top Clearance To

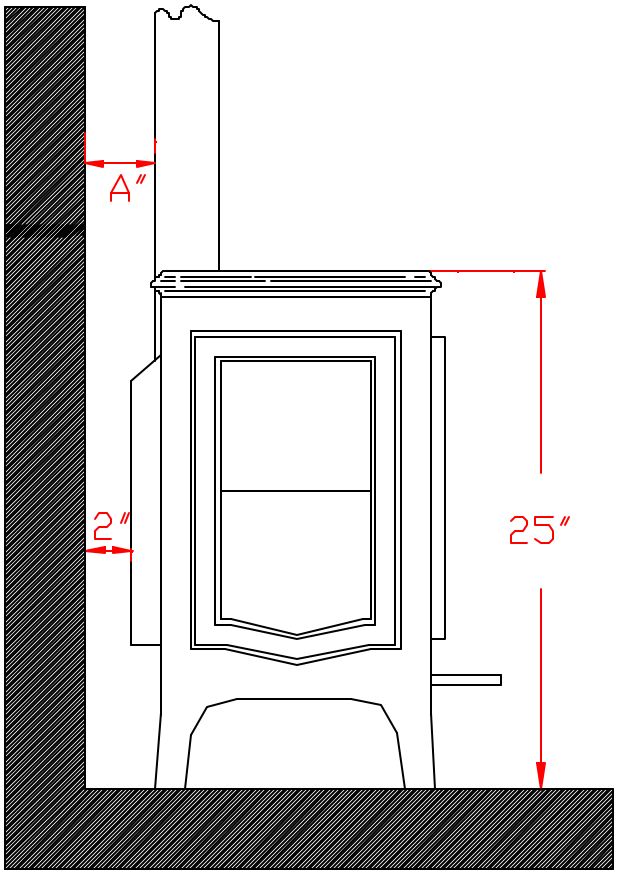


Figure 4: Vertical Exit Clearance To Combustibles

ELECTRICAL CONNECTIONS

Thermostat

The Tucson requires a wall mounted thermostat for operation. The thermostat controls the unit by "calling for heat" and turning on the unit when the room is cold, and turning off the unit once the room is warmed sufficiently. The Tucson thermostat is controlled by a 750 millivolt DC two-wire circuit. Both the thermostat and 40' (6m) of thermostat wire are included as standard equipment.

Thermostat Placement

The thermostat should be placed in the same room or living space as the Tucson, typically 5' (1.5 m) off the floor and away from influences that would cause the temperature in the vicinity of the thermostat to be unrepresentative of the room temperature in general. Such influences might include strong lighting, a heater vent from the central heating system, a nearby drafty window, etc.

Placement of the thermostat on an inside wall rather than an outside wall is preferable. Do not place the thermostat directly behind or too close to the Tucson, otherwise heat from the unit will immediately satisfy the thermostat and turn the unit off.

NOTE: OPEN VALVE DOOR UNDER

ASH LIP FOR ELECTRICAL AND GAS CONNECTIONS.

Thermostat Wiring

The thermostat should be connected to the Tucson using no more than 40' (6 m) of the provided insulated thermostat wire. The thermostat wire from the Tucson to the thermostat can be surface mounted or routed under the floor, through walls, etc.

If 40' (6 m) of wire is not enough, 16 gauge wire may be used in its place but must not exceed 40' (12 m) in length. In either case, be sure to leave a small coil of wire behind the Tucson so that the unit can be moved out of position for servicing and cleaning.

Connect the two thermostat wires to the gas control valve on the top and bottom screws marked **TH** and **TP, TH**. When making these connections, position the thermostat wire so that it extends towards the wall behind the Tucson, then towards the thermostat.

At the thermostat, the wires should be connected to the two connection screws on the back of the thermostat per the instructions received with the thermostat. Take care not to over-tighten the connection screws and not to damage the internal parts of the thermostat.

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

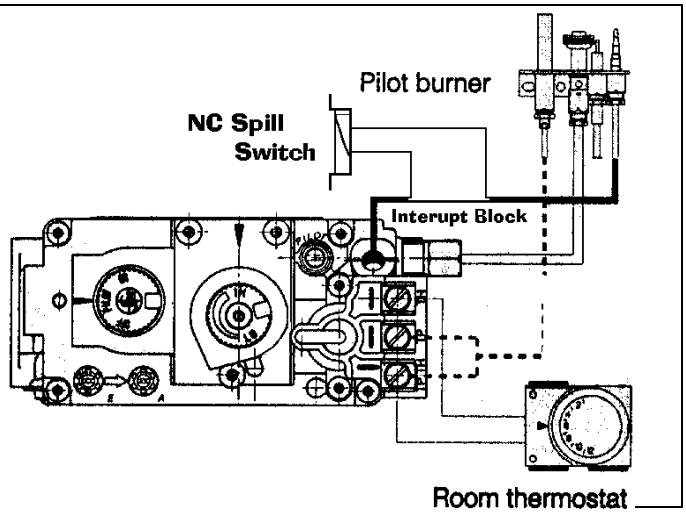


Figure 5 Electrical Schematic

Normally Aspirating Chimneys

The Tucson is a highly efficient gas heater. With operating efficiency as high as **82%,** most heat output is retained within the living space, with minimal heat leaving the room via the chimney. However , some heat is required in all chimneys in order to establish and maintain a draft. Since most of the heat is retained in the living space with minimal heat entering the chimney, it is imperative that the chimney/venting system be properly sized and installed in order to establish and maintain the draft required for the unit to function.

The Tucson must be properly connected to a 4" (102 mm) diameter type B-1 vent which is constructed and installed in accordance with NFPA54 and NFPA211. Single wall vent pipe may be used within the same room as the Tucson so long as adequate (6" or 152 mm) clearance is maintained from the single wall pipe to combustible surfaces. The single wall vent pipe **must** connect to double-wall type B-1 vent from thereon. The minimum clearance from type B-1 vent to combustibles is 1"(25 mm).

Connect the single wall or B-1 vent pipe to the flue collar located on the rear surface of the unit using 3 sheet metal screws. For wall, roof or partition penetration, refer to the current edition of ANSI Z223.1 or CAN1-B149 for instructions and clearances to combustibles. The Tucson can be connected to an existing, properly constructed masonry or prefabricated chimney so long as the type B-1 vent is extended through the entire length of the chimney. An annual inspection is required to confirm that the vent is unobstructed. The vent can not be connected with a flue serving a solid fuel appliance. It however, can be installed to a flue serving another gas or oil appliance, so long as it is in accordance with the National Fuel Gas Code.

Type B-1 vent pipe is intended primarily for installation inside buildings to provide an essentially vertical passageway for flue gases from the vented gas appliance to the outside air. When it is impractical to install B-1 vent pipe inside a building, it may be installed outdoors provided that it is: 1) certified for outside installation, 2) installed in accordance with manufacturer's installation instructions and 3) adequately chased (enclosed) and insulated (per Venting Tables, Category I-Central Furnaces, AGA and GAMA current edition; Standards for Gas Vents, National Standards of Canada and CAN/CGA-B149.1-M91). Exterior B-1 vent pipe passing through an unused masonry chimney flue is not considered to be exposed to the outdoors.

Four inch flexible pipe can be used in place of B-1 vent pipe wherever it is impractical or impossible to install rigid Type B-1 vent pipe. However, flexible pipe is less desirable than B-1 vent pipe, because there is a greater heat loss along the length of flex pipe which may produce an unacceptable draft.

Draft Hood/Down Draft Sensor/Spill Switch

The Tucson has a draft hood as part of its rear assembly. The draft hood must not be altered or obstructed. The Tucson must be installed so that the draft hood is in the same atmospheric pressure zone as the combustible air inlet for the unit. The Tucson cannot and must not be connected to an outside air source; the unit must take its combustion air from the living space in which it is installed.

The draft hood is equipped with a safety shutoff down draft sensor switch (spillswitch) which is located in the draft hood just beneath the flue collar on the rear of the unit. This switch is designed to sense a loss of draft within the chimney. The down draft sensor switch is wired in series with the pilot thermocouple and is typically in the closed position.

Should the Tucson fail to establish or lose draft while in operation, hot exhaust gasses will spill into the room through the bottom of the draft hood instead of exiting the draft hood via the flue collar and venting to the outdoors. When this undesirable down draft condition occurs the hot gasses spilling out of the draft hood will heat the spill switch causing it to open which turns the unit off.

Do not modify, disconnect or otherwise defeat the purpose of the down draft sensor switch. If your stove shuts off during normal operation, it is indicative of an unsafe venting condition which must be corrected. Operation of this unit when not properly connected to a properly installed and maintained venting system or tampering with the vent safety shutoff system can result in carbon monoxide (CO) poisoning and possible death.

Power Venting

For applications where it is impractical or impossible to exit B-1 vent pipe to above the existing roof line, the Tucson can be vented using a power vent. A power vent is essentially
a specialized electric fan mounted on the outer wall of the building which is connected to the heater via the flue pipe. When the thermostat calls for heat, the power vent turns on and creates a draft in the flue pipe similar to the draft
created by a properly functioning conventional chimney. The Tucson operates in a normal fashion, satisfied by the simulated draft. A series of interlocking safety devices prevents operation of the heater unless the power vent is operating properly. Both the Tucson and the power vent are controlled by the wall thermostat and neither will operate if there is a power failure. For installations requiring power venting, use only an AGA (U.S.) Or CGA (CANADA) listed unit. The power vent supplier will in turn supply the power vent installations.

GAS SUPPLY

Gas Connections

The gas supply line connection is made to the Tucson's gas control valve just inside the left front leg of the unit using a 3/8" male NPT fitting. The supply line should be 1/2" diameter or appropriately sized to provide a sufficient gas supply to meet the maximum demand of the unit without undue loss of pressure. We recommend a flexible line to avoid undue mechanical load on the valve and to ease thread alignment, but refer to local codes.

The unit must be installed and connected in accordance with local codes, or in the absence of local codes, with the most current edition of the National Fuel Gas Code ANSI Z223.1/NFPA 54 or CAN1-B149. The supply line must include a manual shut-off valve and union so that the unit can be disconnected for servicing. The gas control valve has built in pressure taps for test gauge connections.

Gas Pressure Adjustment

Once connected to the gas supply, the supply line and manifold gas pressures must be tested. The supply line pressure is tested, to ensure it meets the minimum gas supply pressure as listed in the Specifications for the type of fuel in use (natural gas or LP), by connecting a manometer to the supply line and adjusting the incoming pressure if necessary to meet the required supply line pressure as listed in specifications. The manifold pressure is tested by connecting the manometer to the manifold pressure tap on the gas control valve, refer to fig. 6 for location.

Gas Supply

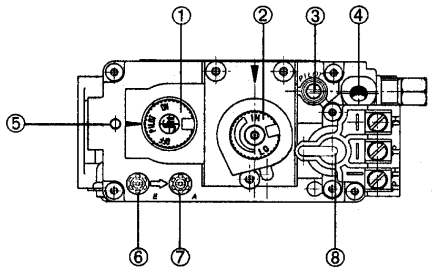
This appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psig. The Tucson must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or greater than ½ psig.

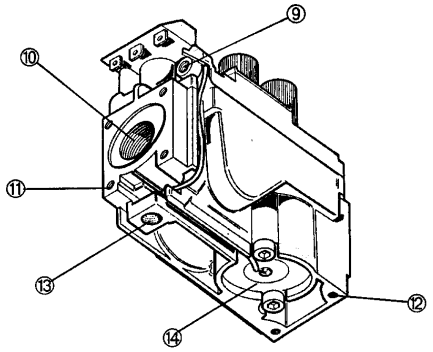
NOTE: If optional blower is to be installed now or in the future, make sure the gas line is installed close to the floor as possible. Refer to fig. 17 for proper location and height for gas line.

Figure 6: Gas Control Valve

VALVE DESCRIPTION

① *Gas cock knob*
② *Manual HI-LO adjustment or pressure regulator adjustment*
③ *Pilot adjustment*
④ *Termocouple connection*
⑤ *Mounting for piezo & bracket*
⑥ *Inlet pressure test point*
⑦ *Outlet pressure test point*
⑧ *Main operator*
⑨ *Pilot outlet*
⑩ *Main gas outlet*
⑪ *Flange securing screw holes*
⑫ *Additional valve mounting hole*
⑬ *Alternative TC connection point*
⑭ *Thermoelectric unit*





Log Placement Within The Unit

Only the decorative ceramic fiber log set supplied with the unit should be placed in the firebox. Do not place other ceramic logs, real wood logs or other material in the firebox. If the log set is damaged or broken contact your dealer for replacement.

If the log set does not set into the firebox exactly as outlined below, contact your dealer for assistance. Exact positioning of the log set is required in order to obtain a pleasing flame pattern and efficient combustion. Incorrect log placement may cause carbon build-up, excess thermal stress on the log set and stove parts, reduced efficiency, and high levels of carbon monoxide.

The decorative ceramic fiber log set will give long service when in use; however, they will break if subjected to rough or improper handling. Broken or cracked logs should be replaced. When removing and replacing the log set from the unit during routine cleaning or service of the unit, take care not to damage the logs and to position the log set per instructions above. Also, take care not to chip the enamel on the door and door frame when removing and replacing the log set.

Installation of Log Set

Refer to figures 7 & 8 for log set assembly.

1) Open the front door using a Phillips screw driver. Loosen the bolt that fastens the door frame to the firebox by turning it counterclockwise. Be careful not to chip enamel when loosening the bolt. Pull the door open by grabbing the top edge of the door frame.

2) Remove the packaging material around the log set assembly. Be careful not to damage the log set with the packing.

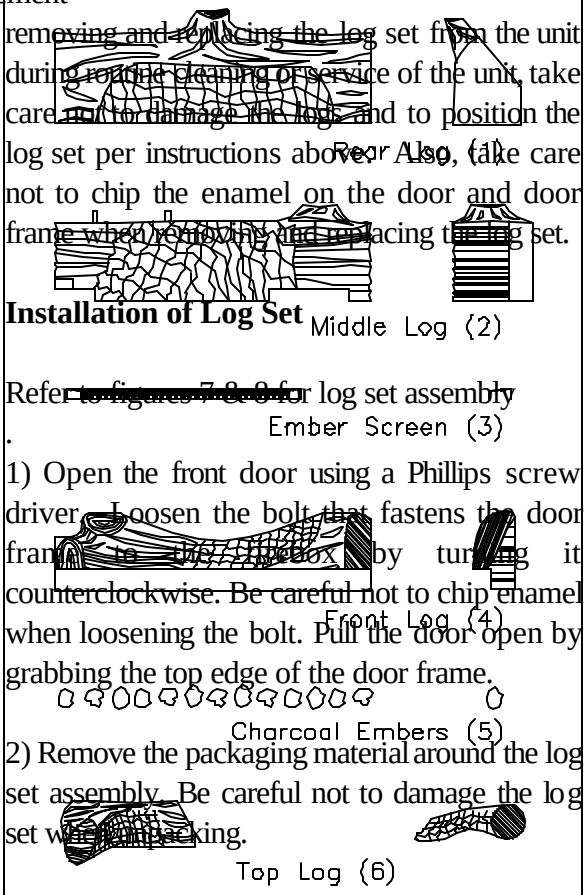


Figure 7 Log Set Assembly

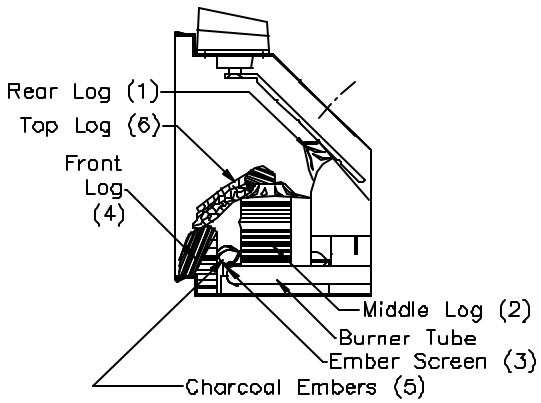


Figure 8 Log Set Placement

Log Set Placement 12

3) Gently place the Rear Log(1) in the firebox against the center of the back wall.

4) Gently place the Middle Log(2) in the fire box against the front of the Rear Log. There are slots on the underside that fit in between the burner tube and into the burner tube holder. The rear tabs on the Middle Log should touch the front of the Rear Log, and the log should be centered as best as possible.

5) Place the Ember Screen(3) on the front burner tube with the long side of the Screen to the front, and the tabs should be facing down.

6) Gently place the Front Log(4) in the firebox against the front of the burner tube. Center as best as possible.

7) Spread evenly across the Ember Screen, the 2 ounces of Charcoal Embers(5).

8) Gently place the Top Log(6) in the firebox on top of the Middle Log. The Middle log has 2 posts which slide into the 2 holes on the underside of the Top Log. The "leg" on the Top Log points towards the front.

9) With a Phillips head screwdriver, use the bolt to fasten the door to the firebox. Make sure the door is properly secured to the firebox before turning the unit on. Be careful not to chip the enamel when fastening the door.

Removal of Log Set

CAUTION: Log set and charcoal embers retain heat and can be very hot! Allow 2 to 3 hours after pilot light is turned off before handling.

CAUTION: Fragile! Handle log set and charcoal embers with care.

Open door using the Phillips screw driver. Loosen the screw that secures the door to the firebox by turning it counterclockwise. Pull the door open by grabbing the top edge of door frame. Take care not to chip the enamel or to damage the log set when removing the log set from the firebox. The log set assembly will be in four pieces along with the charcoal embers as shown in fig.18. First, remove the Top Log(6) by pulling it up off the Middle Log(2) and out of the firebox. Next remove the charcoal embers. Then lift upwards and pull the Front Log(4) out of the firebox. Next remove the ember screen(3) from the burner tube. Grip the Middle Log(2) and lift upward, off the burner tube holder, and out of the firebox. The Rear Log(1) can then be removed from the firebox. Place the logs and charcoal embers in a safe area where they will not be damaged.

Lighting the Unit for the First Time

Initial Adjustments

Once the Tucson has been set in place and connected as described previously, the unit is ready to be lit for the first time. Each Tucson is tested prior to shipment by the manufacturer, so ignition should take place without failure. However, a number of small adjustments may be necessary to compensate for variations in gas pressure, altitude and other factors particular to each installation.

Lighting the Tucson for the first time and adjustments to the unit should be performed by qualified service personnel.

WARNINGS PRIOR TO FIRST LIGHTING OF UNIT

Smoke and Fumes Warning

When lit for the first time, the Tucson will emit some smoke and fumes. This is normal "off-gassing" of the paints and oils used in the manufacturing and assembly of the unit. Open windows to vent the room if necessary. The off-gassing and fumes will subside after the first 10 to 20 minutes of operation.

Break-In Warning

The natural stones used in the assembly of the Tucson were polished using a water-based polishing system prior to assembly of the unit. Any residue moisture in the stones must be dried out slowly to avoid damaging the stones. This is accomplished by adhering to the following break-in procedure.

When lit the first time, the Tucson should be burned for no more than 15 minutes, then allowed to cool for 1 to 2 hours. This gentle warming and cooling of the unit will allow any residue moisture in the stones to evaporate slowly. Once this break-in procedure has been completed, the Tucson can be burned at will with no time restrictions on length of burn.

Pilot Light Warning

The Tucson has a piezoelectric spark ignitor (the red push button located next to the gas control valve behind the valve access door) which ignites the pilot light by means of a spark at the pilot light assembly. Do not attempt to light the unit with a match or by any means other than the piezoelectric spark.

INSTRUCTIONS PRIOR TO FIRST LIGHTING OF UNIT

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

BEFORE LIGHTING, smell all around the appliance area for gas. Be sure to smell next to the floor because some gases are heavier than air and will settle on the floor. If you smell gas, immediately follow the **What To Do If You Smell Gas Warning** on page 14**.**

Use only your hand to turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Any use of force or attempt to repair may result in fire or explosion.

WARNING: THE GAS CONTROL HAS AN INTERLOCK DEVICE. AFTER SHUTTING OFF ALL GAS FLOW, THE PILOT BURNER CANNOT BE RELIT UNTIL THE THERMOCOUPLE HAS COOLED, ALLOWING THE ELECTROMAGNET TO BE RELEASED (APPX. 60 SEC.) . THE GAS CONTROL KNOB IS DESIGNED TO BE OPERATED BY HAND. DO NOT USE ANY TOOLS DURING THIS OPERATION. DAMAGED KNOBS MAY RESULT IN SERIOUS INJURY.

Prepare for the lighting procedure by adjusting the thermostat to its lowest setting or OFF position. If the gas control knob is not in the OFF position, turn the knob fully clockwise to OFF. Locate the variable output and turn it fully clockwise to the highest setting.

WHAT TO DO IF YOU SMELL GAS!

- DO NOT ATTEMPT TO LIGHT THIS GAS HEATER OR ANY APPLIANCE
- EXTINGUISH ANY OPEN FLAME
- DO NOT TOUCH ANY ELECTRICAL SWITCH
- DO NOT PLUG IN OR UNPLUG ANY APPLIANCE
- DO NOT USE ANY PHONE IN YOUR BUILDING
- OPEN WINDOWS IN THE ROOM AND VACATE THE BUILDING
- TURN OFF THE MAIN GAS SUPPLY
- IMMEDIATELY CALL YOUR GAS SUPPLIER FROM A NEIGHBOR'S PHONE
- IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE DEPARTMENT

LIGHTING INSTRUCTIONS

1. STOP! Read the What To Do If You Smell Gas! warning.
2. Set the thermostat to off position.
3. Unplug the fan accessory, if so equipped.
4. Push in and turn gas control knob clockwise to "OFF".
5. Wait (5) five minutes to clear out any gas. If you then smell gas, STOP! *Smell all around the appliance area for gas. Be sure to smell next to the floor because some gases are heavier than air and will settle on the floor. If you smell gas immediately follow the What To Do If You Smell Gas! warning.* If you do not smell gas, go to the next step.
6. Turn knob on gas control counterclockwise to "PILOT".
7. Push in control knob all the way and hold in. Immediately light the pilot with the gas lighter (push in and "click" the red piezoelectric spark ignitor button several times until lit). Continue to hold the control knob in for about 20 seconds after the pilot is lit. Release the knob and it will pop back out. Pilot should remain lit. If the pilot goes out, repeat the operation.

   * If knob does not pop out when released, stop and immediately call a qualified service technician or gas supplier.

   * If the pilot will not stay lit after several tries, turn the gas control knob "OFF" and call a qualified service technician or gas supplier.

8. Turn the gas control knob counterclockwise to "ON".
9. Shut the gas control valve access door.
10. Plug in the fan accessory, if so equipped.
11. Set thermostat to "ON" and set the desired temperature setting.

To Turn Off Gas To Appliance

1. Set thermostat to "OFF" position
2. Turn off all electric power to the appliance if service is to be performed. Unplug accessory fan (if equipped).
3. If shutting the off unit for the non-heating season, turn the gas control knob fully clockwise to "OFF" position. Do not force the knob to turn.

NOTE: When pressing/clicking the red piezoelectric spark ignition button to light the pilot , watch through the glass front door of the unit. Click the red ignitor button until a flame is visible at the pilot. Once the pilot is lit, continue to press on the gas control knob for another 20 seconds, then release. Ascertain that the pilot is still lit by looking through the front door. If lit, then turn the gas control knob fully counterclockwise to the "ON" position. If the pilot fails to light or if it went out due to a premature release of the gas control knob while pressed in the "PILOT" position, wait **60 seconds** for interlock to release, then repeat the lighting process as described above.

Lighting the Tucson

Once the pilot has been lit, and the gas control knob turned to the "ON" position, the main burners are lit by moving the thermostat to a high setting so that it "calls" for heat (i.e. turns the unit on). The main burners should light immediately. Note that the on/off cycling of the main burners are controlled by the thermostat, but the pilot

remains lit regardless of the thermostat setting.

To turn the pilot off, turn the gas control valve fully clockwise to the "OFF" position. Once the unit is lit, observe the flame pattern and adjust as necessary.

INITIAL ADJUSTMENTS

Variable Output Control

The gas control valve is equipped with a variable output control. This control varies the rate of heat produced by the unit by varying the gas pressure to the main burner tube. The length of the burn cycle is affected by a combination of heat output and the thermostat setting. If your stove cycles on and off often, try increasing the burn cycle with the gas control valve first.

Using the variable output control, the heat output of the unit can be reduced for mild fall and spring months or maximized for the colder winter months. This adjustment can be made by the homeowner as necessary by turning the variable output control knob to "HI" or "LO" or any setting in between.

Air Shutter

The air shutter is preset by the manufacturer for optimum operation and should not need adjustment by the owner. There is an adjustable air shutter located on the U-burner tube on the right rear of the unit under the air deflector. The air shutter is used to regulate the air-to-gas combustion mixture which in turn influences the size and color of the flames. However, it may need adjustment once the unit has been installed to compensate for variations in supply line pressure, restriction plate position, altitude and other variables.

To determine if the air shutter needs adjustment, it is necessary to view the flame pattern with the variable output control knob at its highest setting. Allow the unit to operate for 10 minutes to allow the entire unit to reach temperature and for the flame pattern to stabilize. Generally, the more air (open shutter) in the mixture, the bluer the flame. Less air (closed shutter) results in a more yellow flame, but too little air will result in incomplete combustion, low efficiency and a dirty burn. There are two simple guidelines to aid in determining the correct flame pattern:
1) if the flame at the base of the logs is completely blue, the air shutter may be open too far; 2) if the flame is dirty or licks the top of the stove, the air shutter may be closed too far.

Air Shutter Adjustments

Follow the log set removal procedure. Once the log set is removed, pull the burner tube up and towards the front of the fire box. The air shutter is factory set. ONLY A QUALIFIED GAS TECHNICIAN SHOULD ADJUST THE AIR SHUTTER. The air shutter has one screw holding it in place as shown in fig. 13. By loosening this screw, the shutter will rotate around the burner tube. Set the air shutter at the desired position and tighten the screw. Reposition the burner tube back into the burner tube holder. Make sure the hole in the end of the air shutter is placed around the injector in the back corner of the firebox. Refer to fig. 8 on page 11 for proper positioning of the burner tube. Follow the log set procedure for placement of the log set and ember strip. Securely fasten the door to the firebox using the bolt provided.

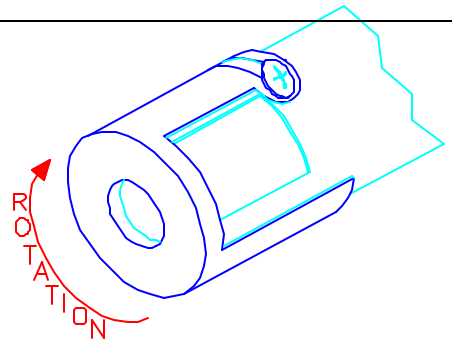


Figure 13 Air Shutter Position

Air Shutter Adjustment Continued

If the flame pattern continues to indicate a low flame or over-fire condition regardless of air shutter setting, then it is likely that the gas supply pressure to the unit is too low or too great. Such a condition cannot be corrected through air shutter adjustment; an adjustment must be made to the gas supply pressure. Supply line, manifold gas pressure adjustments must be preformed by qualified service personnel. Do not attempt to complete any part of the installation or adjustment of this unit unless technically qualified to do so.

Pilot Adjustment

The pilot light is preset by the manufacturer and should not need adjustment. The pilot light flame should be large enough to engulf the thermopile and thermocouple located next to the pilot, but not so large as to create excessive noise or consume excessive gas. However, it can be adjusted by means of the pilot light adjustment screw located on the gas control valve. Open the valve door to access the pilot adjustment screw (see fig. 6).

Note that the pilot flame must engulf the thermopile so that the thermopile can generate sufficient millivolt single (325 to 750mv) to power the millivolt gas control valve. The flame on the pilot should look like fig. 15 on page 18. Controlling the Tucson by the wall mounted thermostat may become erratic, nonexistent, or the unit may go out, if the pilot light flame is too small or misdirected away from the thermopile.

DAILY OPERATION

The Tucson gas-fired heater is easily operated by the homeowner once installed and adjusted by qualified service personnel. The unit is controlled via the wall-mounted thermostat during the heating season. Set the thermostat to the desired room temperature and the unit will cycle on and off as required. By adjusting the variable output control located on the gas control valve, the rate of heat output can be varied to meet the heating

requirements of the season. Choosing a low flame setting will result in longer burn cycles at a reduced output, while choosing a high flame setting will result in a shorter, hotter burn cycle. Through trial and error the homeowner can select the optimum flame size for their setting and application.

During the summer non-heating season, switch the wall thermostat to "OFF", and turn off the pilot. This will improve the overall efficiency of the unit as the heat from the pilot is not wanted in the summer. When putting the unit back into service follow the lighting instructions described on page 13.

When the unit is first lit, especially when cool, it is normal to experience some condensation on the inside of the window glass. This condensation will burn off within the first few minutes of operation. If continuous condensation on the window glass or dripping water from any part of the unit or venting system (chimney) is noted, immediately discontinue operation of the unit and contact qualified service personnel.

ROUTINE MAINTENANCE AND CARE

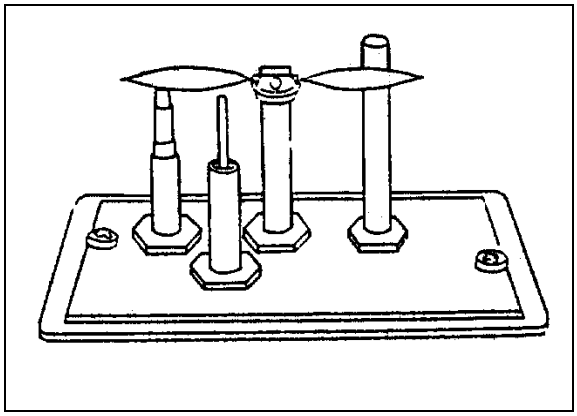
The Tucson requires minimal routine maintenance and care. The unit should always be cool and off when being cleaned. The unit should receive regular cleaning on, under and around the stove to prevent the buildup of dust and lint. The exterior surfaces of the unit can be cleaned using soap, water and a soft cloth. Do not use abrasive or chemical cleaners and take care not to scratch the stones, glass or enamel finish (if so equipped) when cleaning the unit. The use of chemical or wax based cleaners or polishes is not recommended due to the potential for discoloration of the stones when the residue of the cleaner or polish is exposed to heat.

The firebox should receive periodic cleaning to prevent the accumulation of dust, lint and other debris. To clean the firebox, set the thermostat to the "OFF" position, and turn off the gas at the gas control valve. When the unit is cool, unfasten the front door and carefully remove the decorative ceramic fiber log set taking care not to damage the logs or chip the enamel cast iron. Clean the firebox burner tube and carefully vacuum the entire surface of the log set. Take care to thoroughly vacuum the ports (holes) along the top of the burner tubes.

With the decorative ceramic fiber logs out of the firebox, fasten the door shut and momentarily light the unit according to lighting instructions described on page 13. Check to ensure a flame

is burning from each burner port. The pilot flame should be large enough to engulf the sensor/thermocouple as illustrated in fig. 14. Turn the unit off by setting the thermostat to "OFF", and turning off the gas control valve. Allow the unit to cool.

Check and clean any burner ports which are not burning or not burning properly. Clean burner ports using a soft brush or vacuum cleaner. If the pilot flame height needs adjustment it should be adjusted by qualified service personnel as illustrated on page 17.



Complete the cleaning procedure by carefully placing the log set within the firebox as described on pages 11 & 12. Close and fasten the front door. Turn on the gas, light the unit and check for proper operation. Flame patterns should look like fig. 15.

Regularly check to insure the area around the Tucson is kept free and clear from combustible materials, gasoline and other flammable vapors and liquids. Check that the flow of combustion and ventilation air is not obstructed. Once a year the unit and venting system should be inspected by qualified service personnel to ensure that they are clean, free of obstruction, safe and in good working order. If service or maintenance is required, it should be performed by qualified service personnel.

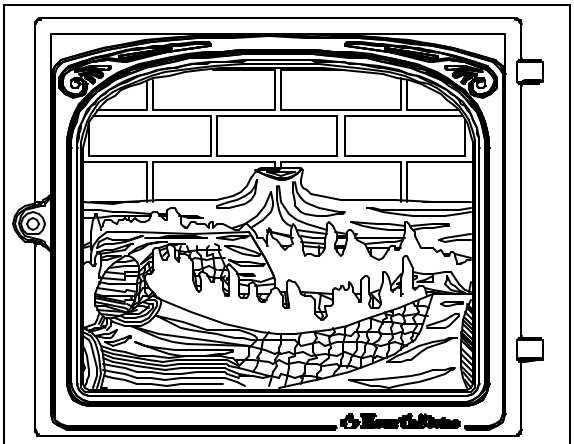


Figure 15

Replace the Front Door Gasket as Needed

Your Tucson uses a 3/8" rope-type fiberglass gasket to make a tight seal between the door frame and the firebox. In time, the gasket can become brittle and compressed and should be replaced. New gasket material is available from your Authorized HearthStone Dealer.

Step 1. Allow the Tucson to cool completely. Remove the existing gasket by grasping one end and pulling firmly.

Step 2. Use a wire brush or the tip of a screwdriver to clean the channel of remaining gasket.

Step 3. Determine the correct length of the appropriate-sized gasket by laying it out in the channel. Allow an extra 1 to 2" (25-50 mm), and mark the spot to be cut.

Step 4. Cut the gasket at the marked spot with a utility knife. Twist the ends slightly to prevent the gasket from unraveling.

Step 5. Apply water glass adhesive to the gasket channel.

Step 6. Starting at one end, press the gasket into the channel. Ensure a good joint where the gasket ends meet before trimming any excess. Do not overlap the gasket ends or leave ends with ragged edges.

Step 7. Firmly and evenly press the gasket to seat it in its channel.

Cleaning the Glass

If operating on propane, it may be necessary to clean the inside of the glass occasionally. Do not use abrasive cleaners. Do not clean the glass when hot. Allow glass to cool and apply a window cleaning fluid.

WARNING: Do not operate this appliance with the glass panel removed, cracked or broken. Do not subject the glass door to abuse, such as striking or slamming shut. Replacement of the panel should be done by a licensed or qualified service person.

Parts List

Part #	Description
2710-220	ash lip
2710-480	exhaust baffle
2710-511	front door
5710-170	door hinge with bracket
5710-180	door latch bracket
2710-560	glass ret frame
2710-581	front grill
2710-810	top grill
2710-655	handle, door
2710-321	side, right
2710-326	side, left
1741-350	3-5/16 x 10-5/16 (84 x 262) stone
1741-351	7-1/2 x 6-1/2 (190.5 x 165) stone
5320-070	ember screen
5710-160	air intake flap
5710-152	burner tube holder
5710-470	stone clips
5710-594	exhaust baffle clip
7211-225	burner tube
7211-310	gas valve sit (NG)
7200-240	burner orifice (NG) #40
7200-253	burner orifice (LP) #53
7211-370	pilot burner assembly
7211-131	.30 pilot orifice(LP)
7211-163	.62 pilot orifice(NG)
7211-470	thermocouple
7210-090	thermopile
7211-009	pilot gas tube
7211-390	3 way pilot hood and clip
3300-510+ 514	fuel conversion labels
7211-554	rear log
7211-555	middle log
7211-556	front log
7211-557	top log
7211-558	charcoal embers 2oz
7210-103	push button piezo igniter
7211-430	piezo ceramic and wire
3030-027	glass 13 1/4" x 1/8" x 5 mm
3160-080	3/4' tape (glass) (FT)
3110-057	3/8" low density door rope
3160-150	gasket firebox /air heat exchanger
3160-152	pilot gasket
97-57000	blower kit
93-56200	conversion kit (NG)
93-56201	conversion kit (LP)
97-56916	high altitude kit (NG)
97-56910	high altitude kit (LP)
7000-015	thermostat wire
7200-506	thermostat
7000-200	3-way on/off switch

WARNING: Do not substitute Materials.
For replacement parts, or for information about parts or service, contact your local HearthStone dealer. For the name of the dealer nearest you, phone or write:

Manufactured by: **HearthStone**
317 Stafford Avenue
Morrisville, Vermont 05661

For installations from 610-1370 meters (2000-4500 ft.) The orifice size for natural and propane gas are **41** and **54** respectively. See data plate for additional information. For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods. If the installer must convert the unit to adjust for varying altitudes, the information sticker (illustrated below) must be filled out by the installer and adhered to the appliance at the time of conversion.

THE CONVERSION SHALL BE CARRIED OUT BY A MANUFACTURER'S AUTHORIZED REPRESENTATIVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER, PROVINCIAL OR TERRITORIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAN/CGA-B141.1 OR CAN/CGA-141.2 INSTALLATION CODES.

This appliance has been converted for use at an altitude of _____

Orifice size _____ Manifold Pressure _____

Input (Btu/h) _____ Fuel Type _____

Date of Conversion _____ Converted by _____

Specifications

Listed gas-fired B-vent fireplace heater.
Model: Tucson B-Vent gas fireplace heater
Tested to: ANSI Z21.88-1998, CSA 2.33-M98
Certified for Canada
Approved for mobile home installation
Testing Agency: Intertek Testing Services NA Inc. (ITS)

	Natural Gas	LP
Input rating (Btu/hr) 0-1370 m	26,000	26,000
Minimum input rating (Btu/hr) 0-610 m	14,700	14,700
Orifice size DMS 0-610 m	40	53
Manifold pressure (in. w.c./kPa)	3.5/0.9	10.0/2.5
Man. Pressure-Lo setting (in.w.c./kPa)	1.2/0.3	3.3/0.8
Minimum inlet pressure (in. W.c./kPa)	5.0/1.25	11.0/2.75
Maximum output (BTU/hr)	20,000	20,500

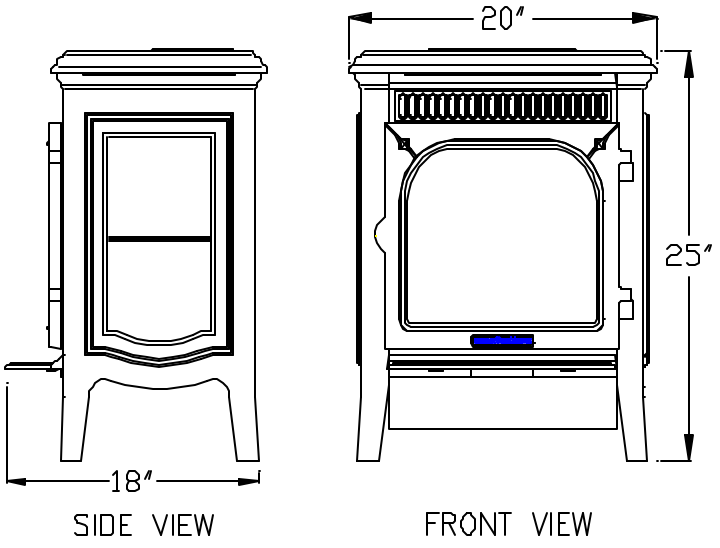


Figure 16: Stove Dimensions

Gas Piping Requirements When Using the Optional Blower Kit

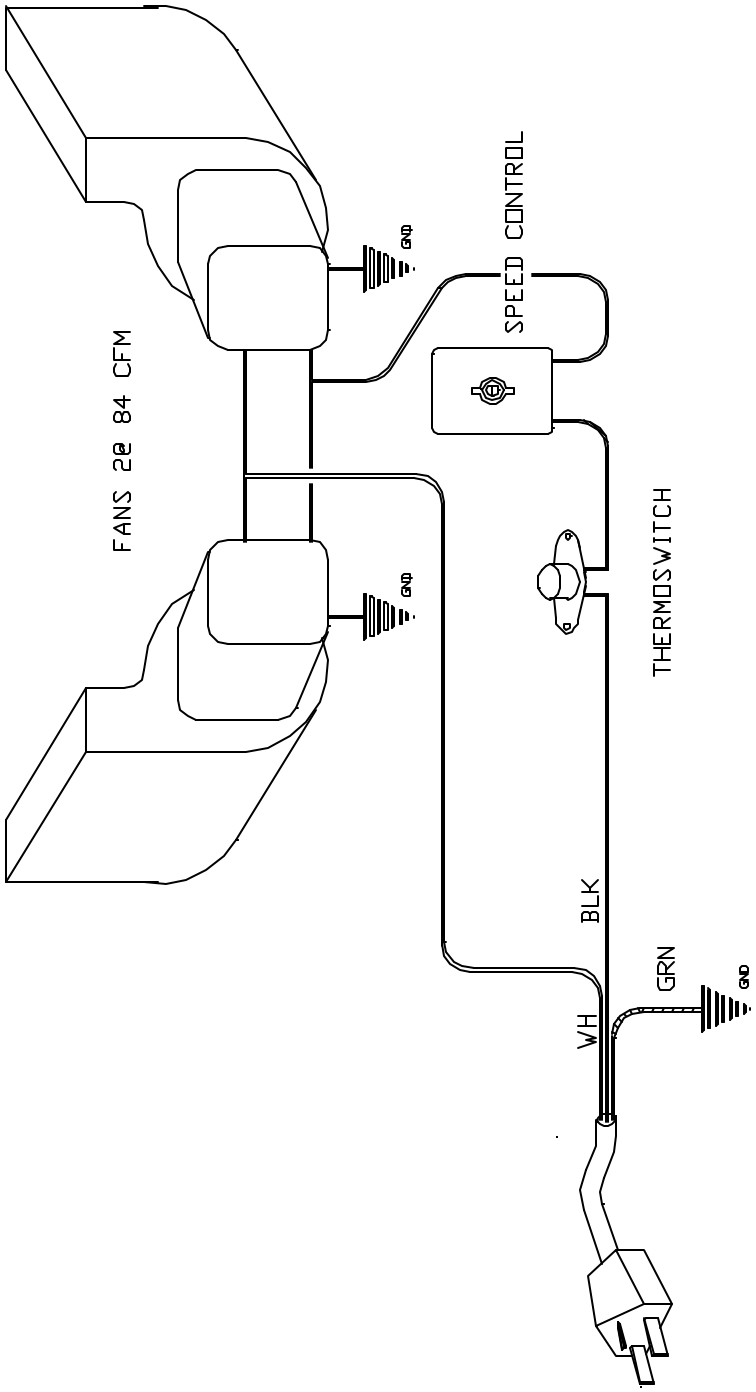
Part Number: 97-57000

Supplied: (1) Variable Speed Blower w/speed control
Mounting Hardware
Instruction Sheet

Required: (2) Street elbows
(1) 12" Straight nipple

Electrical rating: 115 Volts
2.4 Ampere

Electrical Diagram for the Tucson Direct Vent



TROUBLESHOOTING

Symptom	Possible Cause	Corrective Action
1. Pilot will not light.	A. Insufficient gas pressure, or air in the pilot line.	A. Using the piezo sparker, try to light the pilot. If it will not light, check the inlet gas pressure.
	B. Pilot orifice plugged.	B. Clean or replace pilot orifice.
	C. Defective or misaligned electrode at pilot.	C. If a match lights the pilot, check the electrode gap and location. Should be a 1/8" gap in the flame area.
	D. Defective ignitor .	D. Check for a good connection between ignitor and electrode. Check wire insulation. If properly connected and no spark, replace ignitor.
2. Pilot will not stay lit after carefully following lighting instruction.	A. Low or too high gas pressure .	A. Check for proper inlet pressure for the gas being used.
	B. Defective thermocouple.	B1. Check pilot flame to see that it is impinging on the top 3/8" of the thermocouple. Clean and/or adjust pilot for maximum flame impingement. B2. Ensure that the thermocouple connection at the gas valve is tight, and thermocouple is fully inserted into the pilot bracket and is tight. (Hand tight, plus 1/4 turn.). B3. Check thermocouple output using milli-volt meter. Insert adapter in between valve and thermocouple. If the reading is less than 14 mV, replace thermocouple.
	C. Spill switch tripped or shorted out.	C. Check for gas spillage, bad switch or shorted wires.
3. Pilot burning, no gas to main burner, valve knob in the “ON” position, wall switch in the “ON” position.	A. Wall switch or wires defective.	A. Check wall switch/wiring for proper connections. Place Jumper wire across terminals at wall switch. If burner comes on, replace defective wall switch. If OK, place jumper across wall switch wires at gas valve. If burner comes on, tighten connections, or replace faulty wires.
	B. Thermogenerator may not be generating sufficient voltage.	B. Check thermogenerator output, using a milli-volt meter. Take the readings across generator terminals of the gas valve. (TH and TP). Millivolt reading should be greater than 150m V. If not, replace thermogenerator. If the meter reads OK, but the burner does not come on, replace the gas valve.
	C. Plugged burner orifice.	C. Remove and check burner orifice, clean or replace. Note: do not use any metal cleaning device, as this may damage the orifice.
4. Pilot and burner come on, but go out after some warm-up.	A. Inconsistent, of insufficient flame on thermogenerator.	A. Adjust flame size and assure that the flame is aimed directly at the thermogenerator.
	B. Insufficient gas pressure.	B. Check line pressure to ensure that the correct inlet pressure is present for the type gas being used. If propane pressure is inconsistent, check for water condensation at the regulator.
	C. Spill switch tripped or shorted out	C. Check for gas spillage, bad switch or shorted wires.
5. Frequent pilot outage problem.	A. Pilot may be too low or blowing, (high),	A. Clean and/ or adjust the pilot flame for maximum impingment on the thermogenerator and thermocouple.

causing the pilot safety
to drop out.

HEARTHSTONE GAS-FIRED STOVE AND INSERT LIMITED WARRANTIES

These warranties give you specific legal rights. You may also have other rights which vary from State to State.

HearthStone Quality Home Heating Products, Inc. (HearthStone) warrants **to the original purchaser only** (the "Original Purchaser") the new gas-fired stove/insert manufactured by HearthStone and purchased by the Original Purchaser (referred to as the "Stove" for simplicity) against any of the occurrences listed in this document that result from defects in material or workmanship. All obligations of HearthStone under this document commence on the date the Original Purchaser purchases the Stove (the "Purchase Date").

LIMITED LIFETIME WARRANTY

HearthStone warrants the following parts of the Stove against the following occurrences that result from defects in material and workmanship:

- All cast iron parts, including the cast iron heat exchanger – against breakage, cracking or burn-through.
- All stones – against cracking or breakage due to thermal stress, **excluding** surface and hairline cracks and scratches that do not affect the operation or safety of the Stove.
- Glass – against breakage due to thermal shock.

LIMITED FIVE-YEAR WARRANTY

HearthStone warrants the following parts of the Stove against the following occurrences that result from defects in material and workmanship:

- Firebox and firebox baffle – against breakage, cracking or burn-through.
- Convective heat exchanger – against breakage, cracking or burn-through.
- Burners, air shutters and orifices – against breakage, cracking or burn-through.
- Ceramic logs and embers – against breakage, cracking or burn-through.

This warranty expires on the fifth (5th) anniversary of the Purchase Date.

LIMITED THREE-YEAR WARRANTY

HearthStone warrants the following parts of the Stove against the following occurrences that result from defects in material and workmanship:

- Gas train, including gas valve, millivolt wiring, spill switch, pilot assembly, thermopile, thermocouple, piezo igniter, and, if the Stove is a vent-free model, ODS system – against breakage or malfunction.

This warranty expires on the third (3rd) anniversary of the Purchase Date.

LIMITED ONE-YEAR WARRANTY

HearthStone warrants the following parts of the Stove against the following occurrences that result from defects in material and workmanship:

- Enamel Finish – against peeling or fading, **excluding** chipping, mechanical abrasion, chemical abrasion or crazing.
- Gaskets and sealants – against breakage or deterioration.
- Accessories and electrical components such as blowers, switches and thermo discs, **excluding** venting components, hearth components, electrical components and other components or accessories

used in conjunction with the installation of the Stove ***not*** manufactured or supplied by HearthStone – against breakage or malfunction.

This warranty expires on the first (1st) anniversary of the Purchase Date.

EXCLUSIONS

The warranties contained in this document do not cover, nor is HearthStone responsible for:

- Damage resulting from installation or operation of the Stove in a manner contrary to the owner's manual.
- Damage or non-performance resulting from faulty or incomplete setup, installation and start-up or mishandling, abuse, or misuse of the Stove, including but not limited to over-firing.
- Damage resulting from installation, modification, alteration, repair or service of the Stove by any party other than HearthStone or an authorized HearthStone dealer (a "Dealer").
- Damage due to water or due to installation of the Stove in a damp or high condensation area.
- Damage due to installation of the Stove in an atmosphere contaminated by damaging chemicals, including but not limited to chlorine, fluorine or salts.
- Scratches on glass, enameled surfaces or stones due to mechanical abrasion.
- Standard wear and tear of the Stove resulting from normal usage over time.
- Damage, operational-related problems, or inadequate performance caused by site, installation or environmental conditions beyond HearthStone's control, including but not limited to nearby trees, rooftops, buildings, wind, hills, mountains, inadequate or excessive venting, insufficient make up air, or negative air pressure whether or not caused by mechanical systems such as furnaces, exhaust fans, clothes dryers, etc.
- A defect in any part of the Stove if the Original Purchaser fails to comply with HearthStone's or a Dealer's request to ship the part or the Stove to HearthStone or a Dealer, as the case may be.

THE WARRANTIES CONTAINED IN THIS DOCUMENT ARE EXCLUSIVE AND ARE GIVEN BY HEARTHSTONE AND ACCEPTED BY THE ORIGINAL PURCHASER IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND ANY OBLIGATIONS, LIABILITIES, RIGHTS, CLAIMS, OR REMEDIES IN CONTRACT OR TORT, WHETHER OR NOT ARISING FROM HEARTHSTONE'S NEGLIGENCE, ACTUAL OR IMPUTED. ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE GIVEN **ONLY** TO THE EXTENT REQUIRED BY FEDERAL OR STATE LAW. EXCEPT AS OTHERWISE REQUIRED BY STATE LAW, UPON THE EXPIRATION OF THE EXPRESS LIMITED WARRANTIES CONTAINED HEREIN, **NO** IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THE SUBJECT STOVE. **SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.**

THE WARRANTIES CONTAINED IN THIS DOCUMENT EXTEND **ONLY** TO THE ORIGINAL PURCHASER OF THE STOVE WARRANTED HEREUNDER. THEY DO NOT EXTEND TO ANY SUBSEQUENT OWNERS.

UNDER NO CIRCUMSTANCES SHALL HEARTHSTONE BE LIABLE TO THE ORIGINAL PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO DAMAGE TO PROPERTY OR PERSONAL INJURIES, WHETHER ARISING OUT OF BREACH OF WARRANTY, TORT, OR OTHERWISE, EVEN IF HEARTHSTONE HAS BEEN APPRAISED OF THE POSSIBILITY OF SUCH DAMAGES. **SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.**

QUALIFYING FOR WARRANTY COVERAGE

To obtain performance of any obligation under this document, the Original Purchaser must, **within the applicable warranty time period**, contact HearthStone, at the address listed in the Warranty Registration section below or at **(802) 888-5235**, or a Dealer for instructions regarding the return of defective parts for repair, the return of the Woodstove for repair, or a Dealer service call. The Original Purchaser should refer to the Dealer network search engine contained on HearthStone's Web site (www.hearthstonestoves.com), or call HearthStone at (802) 888-5235, to find a Dealer nearest the Original Purchaser's location.

REMEDY

The remedy for any breach of the foregoing warranties will consist of repair or replacement, at HearthStone's option, of any covered defect in the Stove. When the Original Purchaser contacts HearthStone or a Dealer, HearthStone or the Dealer, as the case may be, will instruct the Original Purchaser to **either** return the defective part, or the entire Stove (if needed), with shipping prepaid, to HearthStone or a Dealer **or** allow a Dealer to make a service call at the place where the Stove is located. In the event the Original Purchaser refuses to allow a Dealer to make a service call, HearthStone or a Dealer, as the case may be, will request that the Original Owner return the defective part, or the entire Stove (if needed), with shipping prepaid, to HearthStone or a Dealer. **Notwithstanding any other provision of this document, the Original Purchaser shall pay for any travel fees and service charges related to a Dealer's service call**.

Parts: HearthStone will replace defective parts covered by the foregoing warranties at no charge.
Labor: Within the first (1st) year after the Purchase Date, HearthStone will pay for warranty labor performed by a Dealer at HearthStone's published labor rates in effect at the time the labor is performed. Thereafter, the Original Purchaser is responsible for the cost of labor.
Shipping cost for parts: Within the first ninety (90) days after the Purchase Date, HearthStone will pay for the shipping of Stove parts covered by any of the foregoing warranties to and from HearthStone or a Dealer, as the case may be. Thereafter, the Original Purchaser is responsible for all shipping costs related to shipping Stove parts to and from HearthStone or a Dealer, as the case may be.
Shipping cost for the Stove: Within the first (1st) year after the Purchase Date, if the Original Purchaser is instructed to return the Stove to HearthStone or a Dealer for repair, HearthStone will pay fifty percent (50%) and the Original Purchaser will pay fifty percent (50%) of the shipping costs related to shipping the Stove to and from HearthStone or a Dealer, as the case may be. Thereafter, the Original Purchaser is responsible for one hundred percent (100%) of all of the shipping costs related to shipping the Stove to and from HearthStone or a Dealer, as the case may be. Notwithstanding any other provision of this document, in no event will HearthStone pay for any Dealer fees or other fees for pick up or delivery of the Stove returned for repair; the Original Purchaser shall be responsible for any such fees.

WARRANTY REGISTRATION

The Original Purchaser may send a completed and signed Warranty Registration Form, which is enclosed in the Stove warranty packet, to the following address:

HearthStone Quality Home Heating Products, Inc.
Warranty Department
317 Stafford Avenue
Morrisville, VT 05661

NOTE: SENDING IN THE SIGNED WARRANTY REGISTRATION FORM IS *NOT* A CONDITION OF WARRANTY COVERAGE OR HEARTHSTONE'S PERFORMANCE.