

SIROCCO 25 (SC25) Solid fuel wood catalytic fire place insert

Date Installed:_____



U.S. Environmental Protection Agency certified to comply with 2020 particulate emission standards using crib wood.



Installer: Please complete the details on the back cover and leave this manual with the homeowner. Homeowner: Please SAVE THESE INSTRUCTIONS for future reference.



OMNI Report #0142WN016E

The authority having jurisdiction (such a municipal building department, fire department, etc.) should be consulted before installation to determine the need to obtain a permit.

OPERATION & INSTALLATION MANUAL

Manufactured By

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Pour la version française de nos manuels S.V.P. vous référez à notre site web: www.blazeking.com

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- THIS APPLIANCE IS HOT WHEN OPERATED AND CAN CAUSE SEVERE BURNS IF CONTACTED. ANY CHANGES OR ALTERATIONS TO THIS APPLIANCE OR ITS CONTROLS CAN BE DANGEROUS AND IS PROHIBITED BY FEDERAL AND STATE LAWS.
- Do not operate appliance before reading and understanding operating instructions. Failure to operate appliance according to operating instructions could cause fire or injury.
- Before installing this appliance, contact the local building or fire authority and follow their guidelines.
- This appliance must be installed by a qualified installer.
- Risk of burns. The appliance should be turned off and cooled before servicing.
- Do not operate without fully assembling all components.
- Do not let the appliance become hot enough for any part to glow red.
- Do not install damaged, incomplete or substitute components.
- Risk of cuts and abrasions. Wear protective gloves and safety glasses during installation. Sheet metal edges may be sharp.
- Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and
 others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house.
 To restrict access to an appliance or appliance, install an adjustable safety gate to keep toddlers, young children and other at risk
 individuals out of the room and away from hot surfaces.
- Clothing or other flammable material should not be placed on or near the appliance. Objects placed in front of the appliance must be kept a minimum of 48" away from the front face of the appliance.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- Ensure you have incorporated adequate safety measure to protect infants / toddlers from touching hot surfaces.
- Even after the appliance is out, all surfaces, including the glass and/or any attachment will remain hot for an extended period of time.
 Check with your local hearth specialty dealer for safety hearth guards to protect children from hot surfaces. These guards must be
- fastened to a wall and/or to the floor.Any safety guard removed for servicing must be replaced prior to operating the appliance.
- Under no circumstances should this appliance be modified.
- This appliance must not be connected to a chimney flue pipe servicing a separate solid fuel burning appliance.
- Do not operate the appliance with the glass door removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.
- Do not strike or slam shut the appliance glass door.
- Operate only with the doors tightly closed.
- Appliance will over-fire if door is not shut and latched.
- Only certified doors / optional fronts / and surrounds for inserts with the unit are to be installed on the appliance.
- Keep the packaging material out of reach of children and dispose of the material in a safe manner. As with all plastic bags, these are not toys and should be kept away from children and infants.
- If the appliance is not properly installed, a house fire may result. Do not expose the appliance to the elements (rain, etc.) and keep the appliance dry at all times.
- The chimney must be sound and free of cracks and obstructions. Clean your chimney regularly as required.
- Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or 'freshen up' a fire in this heater. Keep all such liquids well away from the heater while it is in use.
- Your appliance requires periodic maintenance and cleaning. Failure to maintain your appliance may lead to smoke spillage in your home.
- Higher efficiencies and lower emissions will generally result when burning air dried seasoned woods, as compared to wet, green or freshly cut wood. Burning wet unseasoned wood can cause excessive creosote accumulation. When ignited it can cause a chimney fire that may result in a serious house fire.
- The appliance is designed to burn seasoned wood only. Do not burn treated wood, coal, charcoal, colored paper, cardboard, solvents or garbage.
- Burn wood directly on the firebricks. Do not use a grate or elevate the fire.
- Do not store wood within appliance installation clearances or within the space required for re-fueling and ash removal.
- 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 until completely cool.

CALIFORNIA PROPOSITION 65

WARNING: This product can expose you to chemicals including benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information:

www.P65Warnings.ca.gov

Model	Sirocco 25 (SC25) (catalytic)			
Overall Height x Width (with shroud)	27 1/8" x 38 7/8" (689 mm x 987 mm)			
Width of Firebox Enclosure (behind shroud)	27 7/8" (708 mm)			
Overall Height x Depth of Firebox	21 5/8" x 18 3/8" (588 mm x 639 mm)			
Flue Collar Opening, Distance from Rear of Shroud	6" I.D., 14 3/8" (366 mm)			
Fire Door Opening	25 1/4" x 10 5/8" (642 mm x 270 mm)			
Firebox Depth	16 3/4" (426 mm) brick to brick, 18" (457 mm) brick to glass			
Firebox Width (average)	20 1/2" (521 mm)			
Firebox Height	10" (254 mm)			
Firebox Volume	2.3 cu. ft.			
Tested Fuel Length	17" (432 mm)			
Wood Capacity (approximate)	White oak - 53 lbs. (24.04 kg)			
	Douglas Fir - 35 lbs. (15.88 kg)			
Construction	10 gauge & 1/4" Steel Firebox, Refractory Brick Lined			
Shipping Weight (Firebox only)	325 lbs. (148 kg)			
Chimney Recommendation (Minimum)	15' from appliance top to chimney cap: Insulated liner recommended			
Minimum Rireplace Opening	29"W x 22"H x 19"D (737 mm x 559 mm x 483 mm)			

This unit was tested and listed UL 1482-11 (R2015) and ULC S628-93 (R2016) by PFS-TECO Laboratories. This manual describes the installation and operation of the Sirocco 25 (SC25) catalytic equipped wood heater. This heater is certified to comply with the 2020 U.S. Environmental Protection Agency's particulate emission standards using crib wood.

EMISSIONS	CO Average(%)	g/hr
Low Burn	0.05	0.31
Med-low Burn	0.18	0.33
Med-high Burn	0.12	1.48
High Burn	0.08	1.93
EPA emission rate	.90 g/hr	
EPA weighted average efficiency		77%

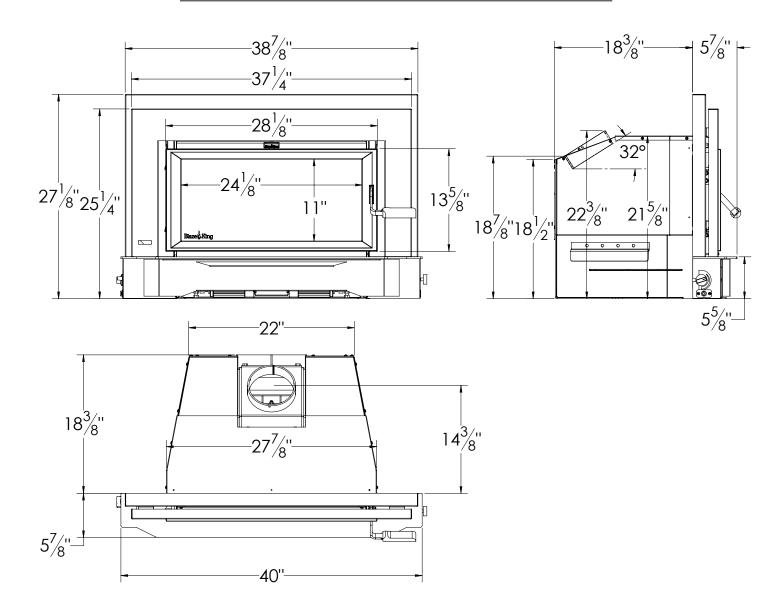
Under specific test conditions this heater has been shown to deliver heat at rates ranging from 10097 to 26290 Btu/hr.

This wood heater has a manufacturer-set minimum low burn rate that must not be altered. It is against federal regulations to alter this setting or otherwise operate this wood heater in a manner inconsistent with operating instructions in this manual.

This wood heater contains a catalytic combustor, which needs periodic inspection and replacement for proper operation. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual, or if the catalytic element is deactivated or removed.

The combustor supplied with this heater is a 115-0335 or 115-0535 metal combustor. Consult the catalytic combustor warranty also supplied with this wood heater. Warranty claims should be addressed to:

in Canada	in USA
Blaze King Industries / Valley Comfort Systems	Blaze King Industries
Warranty Department, 1290 Commercial Way	Warranty Department, 146A Street
Penticton, BC Canada V2A 3H5, Ph: 250-493-7444	Walla Walla, Washington 99362, Ph: 509-522-2730

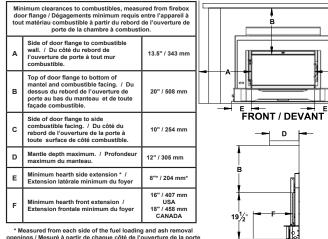




SIROCCO INSERT - Encastrable Sirocco BLAZE KING CATALYST STOVE - BLAZE KING ENCASTRABLE CATALYTIQUE Room heater, solid fuel type, / Appareil de chauffage approuvé pour type de carburant solide. MODEL / MODÈLE: SC25

Tested to / Testé pour: UL 1482-11 (R2015) / ULC S628-93 (R2016) CERTIFIED IN BOTH UNITED STATES AND CANADA / CERTIFIÉ POUR LES ÉTATS-UNIS ET LE CANADA

PFS Report #F19-533 PFS Report #F19-533 PFS Report #F19-533 PREVENT HOUSE FIRES - Install and use only in accordance with Blaze King's installation and operation instructions. Install and use in a code complying fireplace only. Contact local building of fire officials about restrictions and installation inspection in your area. Do not remove bricks or mortar in masonry fireplace. Do not use grate or elevate fire. Inspect and clean chimney frequently - under certain conditions of use, creosote buildup may occur rapidly. CHIMNEYS: Do not connect this unit to a chimmey fue serving another appliance. Do not over fire - if heater or chimney glows, you are over firing. COMPONENTS REQUIRED FOR INSTALLATION: 6° stainless steel liner - listed to: UL 1777, ULCS635 OR ULCS640. DREVENTION DES INCENDES - Installer et utilisor esulement selon le code conforme, concernant les foyers. Contacter de code du bitment local ou le departement des incendies à propos des restrictions et des inspections des installations de votre région. Ne pas retirer les briques ou le mortier dans votre foyer de maçonnerie. Ne pas tutiliser de grille et ne pas surélever le feu. Inspect et en tetyper votre cheminées fréquemment-dans certaines conditions d'unitilisation, une accumulation de créosote peut se produire rapidement. Cheminées: Ne pas raccorder cet appareil à un conduit de cheminée desservant un autre appareil. Ne pas surchauffer-si l'appareil ou les conduits deviennent rougeoyants, vous étes en surchauffe. Composantes requises pour l'installation: Gaine de 6p oen acier inoxydable inscrite sous: UL 1777, ULCS635 Ou ULCS640.



* Measured from each side of the fuel loading and ash removal openings / Mesuré à partir de chaque côté de l'ouverture de la porte de chargement et du tiroir de cendre

FLOOR PROTECTION / PROTECTION DU PLANCHER:

If the bottom of the appliance is 5" (125 mm) or more above the floor level only ember protection is required (UL 1618 type 1) extending 16" (407 mm) in USA or 18" (458 mm) in Canada in front of the door and extending 3" to either side of the door opening. If the bottom of the appliance is at floor level or less than 5" (125 mm) above floor level, a layer of non-combustible thermal protection (UL 1618 type 2) where R=1.06 is required under the appliance extending 16" (407 mm) in the USA and 18" (455 mm) in Canada in floor level or less than 5" (125 mm) above floor level, a layer of non-combustible thermal protection (UL 1618 type 2) where R=1.06 is required under the appliance extending 16" (407 mm) in the USA and 18" (455 mm) in Canada in floor level or lev

SIDE / COTÉ

Les Construction de la constr

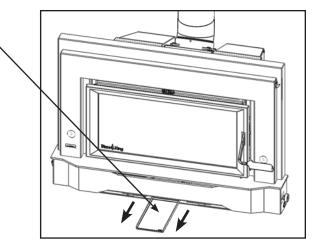
mm) all canada. Electrical rating: (120V, 60Hz, 0.75 Amps. Risk of electrical shock. Disconnect power before servicing unit. Do not route power cord in front of or beneath heater). U.S. ENVIRONMENTAL PROTECTION AGENCY - Certified by Omni Test Labs report #0142WN015E to comply with 2020 particulate emission standards using crib wood.(EPA test methods 28R/5G, ASTM E2515, and ASTM E2760, with an emission-rate of 0.90 g/hr). This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual, or if the catalytic element is deactivated or removed. Only operate with doors closed. Open door to feed fire ONLY. Open the bypass before opening the door. Do not obstruct combustion air openings. For Use With Solid Wood Fuel only - Do not burn other fuels, this may make the catalyst in the combustor inactive. The performance of the catalytic device or its durability has not been evaluated as part of the certification. Metal combustor part number: 115-0335 or 115-0535. Provide adequate outside air for combustion. "Replace with only ceramic glass, firm thickness. outside air for

combustion. *Replace with only ceramic glass, 5mm thickness. Estimation électrique: (115 VAC, 60 Hz, 0.58 Amps. Risque d'électrocution débrancher le courant avant de réparer l'unité. Ne pas faire courir le fil l'alimientation en avanto u en dessous de l'appareil de chauffage). L'AGENCE DE PROTECTION ENVIRONNEMENTALE DES U.S. - Certifié conformément aux normes d'émission de particules 2020 par Onni Test Labs sur le rapport #0142WN016E, en utilisant du bois machnie (méthodes d'essait EPA 28R / 50, ASTM E2780, avec un taux d'émission de 0.90 g/hre). Cet appareil de chauffage au bois nécessite des inspections périodiques et des réparations pour un fonctionnement adéquat. Consulter le manuel du propriétaire pour plus d'informations. Il est contre les réglements fédéraux de faire fonctionner cet appareil de chauffage à l'encontre des instructions d'utilisation fournies dans le manuel du propriétaire, ou si l'élément catalytique a été enlevé ou désactivé. "UTILISER L'appareil UNQUEMENT AVEC LES PORTES FERMÉES. Ouvrir la porte SEULEMENT pour alimenter le feu. "NE PAS OBSTRUER L'ENTRÉE D'AIR DE COMBUSTION. Fournir l'apport d'aire extérieur adéquat pour alimenter le feu. "NE PAS OBSTRUER L'ENTRÉE D'AIR DE COMBUSTION. Fournir l'apport d'aire attrétique adéquat pour alimenter le combustion. Utilisser uniquement avec des combustibles solides - ne pas brûler aucun autre combustible, ce qui pourrait désactiver le catalyseur de la chambre à combustible. La performance du catalyseur ou sa longévité n'a pas été évaluée dans le cadre de la certification. Numéro du catalyseur: 10 as 60 destaits. "Employee suelement un catalyseur en vere en céramique d'une épaisseur de form il le remplacement de colui-ci est nécessaire.

CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE

٩	OPERATING HEATER ATTENTION: CHAUD LORS DU FONCTION ÉLOIGNÉS. UN CONTACT AVEC LA PEAU	IS. READ THIS LABEL AND INSTRUCTION MANUAL BEFORE NEMENT. GARDEZ LES ENFANTS, VÈTEMENTS ET MEUBLES PEUT OCCASIONNER DES BRÜLURES. LIRE CETTE ÉTIQUETTE AVANT DE FAIRE FONCTIONNER CET APPAREIL.
MANUFAC	TURED IN:	MANUFACTURE DATE

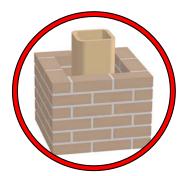
□ USA: Blaze King Industries	JAN 🗆	FEB 🗆	MAR 🗆	APR 🗆	MAY 🗆	JUN 🗆
146A Street, Walla Walla, WA. 99362	JUL 🗆	AUG 🗆	SEP 🗆	OCT 🗆	NOV 🗆	DEC 🗆
CANADA: Valley Comfort Systems	2021 🗆	2022 🗆	2023 🗆	2024 🗆	2025 🗆	2026 🗆
1290 Commercial Way, Penticton, B.C. V2A 3H5				#170	-0248-1	[11 21]



LABEL LOCATION

IF THIS BLAZE KING APPLIANCE IS NOT PROPERLY INSTALLED OR OPERATED, A HOUSE FIRE MAY RESULT. TO REDUCE THE RISK OF FIRE, FOLLOW THE INSTALLATION INSTRUCTIONS. CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.

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



This appliance must be connected to a listed high temperature **(UL1777,ULC635,ULC640)** approved masonry chimney with a flue liner.

Chimney and chimney connector must be in good condition and kept clean. NEVER vent the stove to other rooms of the building. Must be vented to the outside ONLY. NEVER use a chimney or chimney connector smaller then the stove exhaust, unless approved by your local inspector. NEVER vent the stove into a "Class B" gas vent chimney.

DO NOT CONNECT IN CONJUNCTION WITH ANY AIR DISTRIBUTION DUCTWORK UNLESS SPECIFICALLY APPROVED FOR SUCH INSTALLATIONS.



Inspect the chimney connector and chimney regularly during each burning season and clean when necessary.

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

NEVER intentionally start a chimney fire to clean the flue.



WARNING: NOT APPROVED FOR INSTALL IN A MOBILE HOME



Connect this unit to a properly grounded, 110-volt electrical outlet. Do not route the power cord in front of or under the appliance.



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

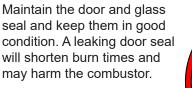
SAFETY PRECAUTIONS



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.



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



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

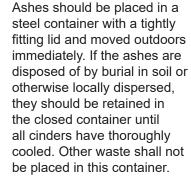
Do not throw this manual away. This manual has important operating and maintenance instructions that you will need at a later time. Always follow the instructions in this manual.



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

DO NOT OVER FIRE THIS HEATER. Attempts to achieve heat output rates that exceed heater design specifications can result in permanent damage to the heater and to the catalytic combustor. Over firing the appliance may cause a house fire. Never burn the appliance so hot that the appliance or chimney connector begins to glow.

Do not use a grate or other device to elevate the fire off of the firebox floor. Burn the fire directly on the bricks.





It is required in some jurisdictions to install smoke and carbon monoxide detectors where heaters are installed. Install at least one smoke detector on each floor of your home to ensure your safety. It should be located away from the wood appliance and close to the sleeping areas. Locating a smoke detector too close to a wood appliance can cause the smoke detector alarm to sound if a puff of smoke is emitted while the wood appliance door is open during reloading. Follow the smoke detector manufacturers placement, installation, and maintenance instructions.

180-SC25 v1.19



This appliance is designed and approved for burning cord wood only. DO NOT burn trash, garbage; artificial or paper logs; gift wrappings; coal; lighter fluids; chemical cleaners; chemical starters; treated or painted wood; salt water driftwood or foil-backed paper such as gum wrappers or cigarette packages; lawn clippings or yard waste; materials containing rubber (including tires), plastic, asbestos; waste petroleum products, paints or paint thinners, or asphalt products; construction or demolition debris; railroad ties or pressure-treated wood; manure or animal remains; unseasoned wood or paper products, cardboard, plywood, or particleboard. The prohibition against burning these materials does not prohibit the use of fire starters made from paper, cardboard, saw dust, wax and similar substances for the purpose of starting a fire in an affected wood heater. Burning these materials may result in the release of toxic fumes or render the heater ineffective and cause smoke. Burn natural wood only. It will void all warranties and safety listings and may damage the combustor.



Never burn the appliance with the loading door open. Leaving the door cracked open may damage the combustor.

Never block free airflow through vents on this appliance.

HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.

CONTACT MAY CAUSE SKIN BURNS.

Do not touch the appliance when 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.



Do not use chemicals or fluids to start the fire. Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or 'freshen up' a fire in this heater. Keep all such liquids well away from the heater while it is in use. Some fuels could generate carbon monoxide and are very dangerous.



Keep furniture, curtains, wood, paper and other combustibles a minimum of 48in (1219mm) away from the front of the appliance. ALSO, DO NOT STORE COMBUSTIBLES UNDER THE APPLIANCE (WOOD, PAPER etc.).



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 local building officials to obtain a permit and information on any installation restriction or inspection requirements in your area. Notify your insurance company as well.

- BEFORE INSTALLING THIS APPLIANCE, CONTACT THE LOCAL BUILDING OR FIRE OR OTHER AUTHORITY HAVING JURISDICTION AND FOLLOW THEIR GUIDELINES.
- THIS APPLIANCE MUST BE INSTALLED BY A QUALIFIED INSTALLER. FOLLOW THE INSTALLATION DIRECTIONS. DO NOT OPERATE WITHOUT FULLY ASSEMBLING ALL COMPONENTS.
- IF THIS APPLIANCE IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT.
- THIS APPLIANCE IS HOT WHEN OPERATED AND CAN CAUSE SEVERE BURNS IF CONTACTED. CHILDREN AND PETS MUST BE KEPT FROM TOUCHING THE APPLIANCE WHEN IT IS HOT.
- COMBUSTIBLE MATERIAL SUCH AS FIRE WOOD, WET CLOTHING, ETC. PLACED TOO CLOSE CAN CATCH FIRE. OBJECTS PLACED IN FRONT OF THE APPLIANCE MUST BE KEPT A MINIMUM OF 48"(1219 MM) FROM THE FRONT OF THE APPLIANCE.

Blaze King grants no warranty, implied or stated, for the installation or maintenance of the appliance and assumes no responsibility of any consequential damage(s).



PARTS INCLUDED WITH THE SIROCCO 25 INSERT

- 1. Poker
- 2. Manual kit (w/ warranty cards, labels)
- 3. Bypass handle (Z2052)

FLOOR PROTECTION

If the bottom of the appliance is 5" (125 mm) or more above the floor level (combustable material) only ember protection is required (UL 1618 type 1) extending 16" (407 mm) in USA or 18" (458 mm) in Canada in front of the door and extending 8" to either side of the door opening.

If the bottom of the appliance is at floor level (combustable material) or less than 5" (125 mm) above floor level, a layer of non-combustible thermal protection (UL 1618 type 2, where R=1.06 minimum) is required under the appliance extending 16" (407 mm) in the USA and 18" (458 mm) in Canada.

COMPONENTS REQUIRED

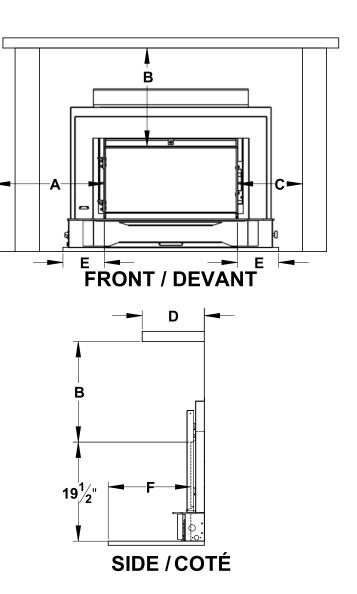
6" stainless steel liner - listed to: UL 1777, ULCS35 OR ULCS640.

THIS APPLIANCE MAY NOT BE INSTALLED INTO A FACTORY BUILT FIREPLACE

MINIMUM CLEARANCES for SC25

Minimum clearances to combustibles Measured from firebox door flange				
A	Side of door flange to combustible wall.	13.5" 343 mm		
в	Top of door flange to bottom of mantel and combustible facing.	20" / 508 mm		
с	C Side of door flange to side 10" combustible facing. 254 mm			
D	Mantle depth maximum.	12" / 305 mm		
E Minimum hearth side extension * 8"*				
F	Mimimum hearth front extension	16" USA 18" CANADA		

* Measured from each side of the fuel loading and ash removal openings / mesuré de chaque coté de l'ouverture de la porte de chargement et du tiroir de cendre



COMBUSTION AIR

Ensure adequate combustion air allowing for all other exhausting type appliances in the dwelling (range hoods, dryers, etc.). In air tight homes and modern constructions, careful considerations must be taken into account when using a wood burning appliance. Heat recovery ventilators (HRV) systems along with constant running fan motors in air handlers must be taken into account when balancing the system. Failure to do so may result in air starvation, smoke spillage and carbon monoxide threats. Consult a HVAC specialist for proper installation. Ensure adequate combustion air allowing for all other exhausting type appliances in the dwelling (range hoods, dryers, etc.). In airtight houses it is recommended to install a fresh air inlet into the room where the appliance is located, to prevent air starvation.

DRAFTING PERFORMANCE

Draft is the force which moves air into the appliance up through the chimney. The amount of draft created by your chimney depends upon length, offsets, insulating properties, obstructions (such as architectural design, trees), local geography and other factors.

External forces, such as outdoor temperature, wind, barometric pressure, topography, or factors inside the home (negative pressure from exhaust fans, chimneys, air infiltration, etc) may adversely affect draft. Too much draft may cause excessive temperatures in the appliance and may damage the heater. An uncontrollable burn or excessive temperature indicates excessive draft.

Inadequate draft may cause back puffing (spillage) into the room and plugging of the chimney, chimney cap or spark arrestor screen. Inadequate draft may cause smoke to leak into the room through appliance or chimney connector joints. Poor draft can also lead to poor heat production and the inability for the combustor to remain active in lower burn rate settings.

High efficiency appliances, such as your Blaze King stove, may require some fine tuning of your chimney system in order to maximize performance.

Blaze King cannot be responsible for external forces leading to less than optimal performance.

ROLE OF THE CHIMNEY

Without a proper installed chimney, this appliance will not burn correctly.

The role of the chimney is to pull the proper amount of air into the firebox for the purpose of complete combustion. Incomplete combustion will lead to more smoke and pollution of the outside air. A proper operating chimney will allow the user to enjoy peak performance at all burn operating levels from low to high. Blaze King therefore recommends vertical installations with a minimum length of 15' from appliance top to chimney cap. In insert applications Blaze King recommends insulated liners into all existing chimneys.

INSPECT CHIMNEY

Before connecting any wood-burning unit to an existing chimney, inspect the chimney to be sure that it is in good condition. There must be no cracks or holes. The cross-sectional area can differ from the flue collar as long as sufficient draw is maintained and local codes and jurisdiction are observed. A proper chimney is crucial for safe, satisfactory operation of any wood heating system. Relining or rebuilding may be necessary to make the chimney safe, efficient, and in conformity with local codes.

Masonry Chimneys that have a very large cross-section, particularly exterior chimneys, may experience poor draft and may require relining to reduce the cross-section-and provide a proper draft. This is also an ideal time to clean the existing chimney. For peak efficiency, a clean chimney flue is essential. A qualified professional chimney sweep can perform both inspection and cleaning. If you choose to clean your own chimney use the proper tools. Homemade cleaners may damage your chimney.

PLANNING APPLIANCE PLACEMENT

Check the fireplace and insert dimensions to ensure the insert will fit properly. While planning your installation keep in mind the required clearances as shown on the appliance label.

Plan ahead to be certain that furniture will have ample clearance, and that drapes and curtains cannot come in contact with the room heater. Refer to the approval label on the appliance for correct clearances to combustibles.

This appliance must be connected to a chimney. It must be vented to the outside.

NEVER PERMIT YOUR APPLIANCE TO EXHAUST INTO ANY ROOM IN THE BUILDING

Consult the appliance label to ensure that you install your appliance with the proper minimum distances from combustible materials.

Minimum fireplace opening size is 29" x 22" x 19" (W x H x D)

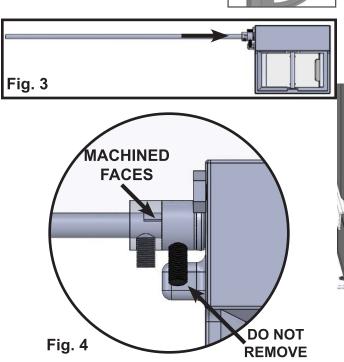
Electrical Power - The appliance is equipped with a fan assembly with a seven-foot electrical cord. Do not route the cord in front of the appliance. Any electrical components must comply with local electrical codes.

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Firebox preparation

- 1. Position stove in front of fireplace opening, and open the loading door.
- Remove the two nuts from inside the firebox that hold flue collar assembly in place, use a 9/16" wrench (Fig. 1). Ensure gasket is still fully intact and adhered to flue collar base. Set flue collar assembly aside until "flue collar preparation" later in installation.
- 3. Ensure fans have not shifted during transport and are in correct position, they should be in notch of fan mount guides. (**Fig. 2**)
- Install supplied thermostat rod extension by aligning machined faces and securing with the set collar. Use supplied allen key. (Fig. 3,4,5) NOTE: CONNECTION MUST BE SNUG
- 5. Rotate the rod until the thermostat is in the fully open position as shown in **Fig. 4.** Secure the thermostat knob onto the thermostat rod. It

should be pointing down in the 6 o'clock position when the thermostat is fully open.



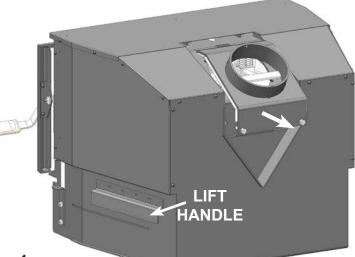
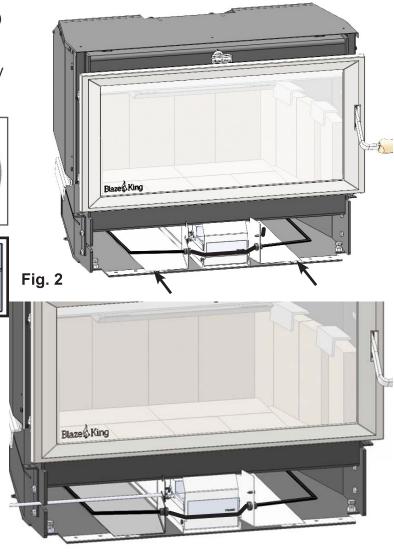


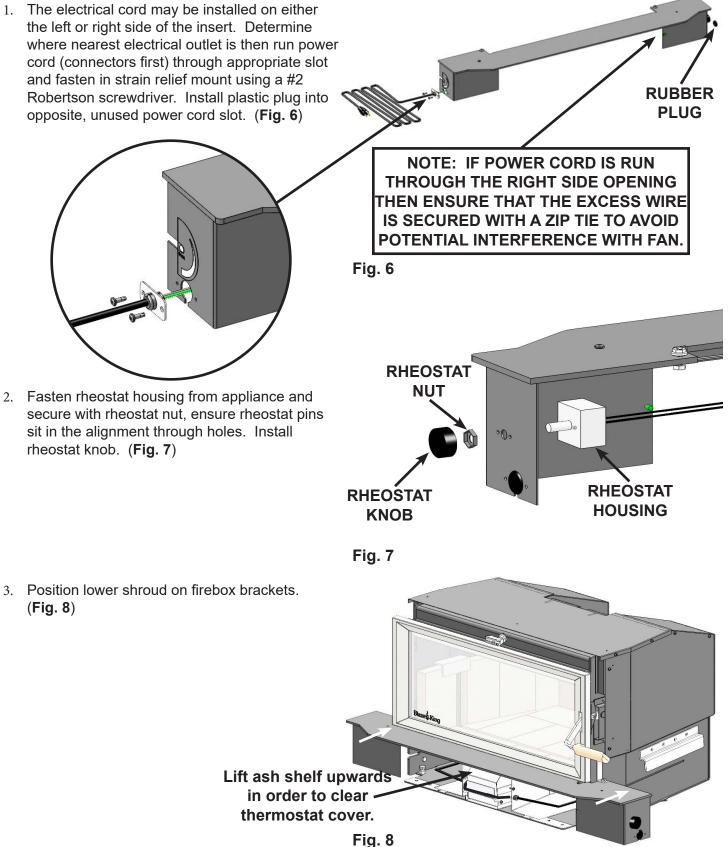
Fig. 1





Lower shroud install

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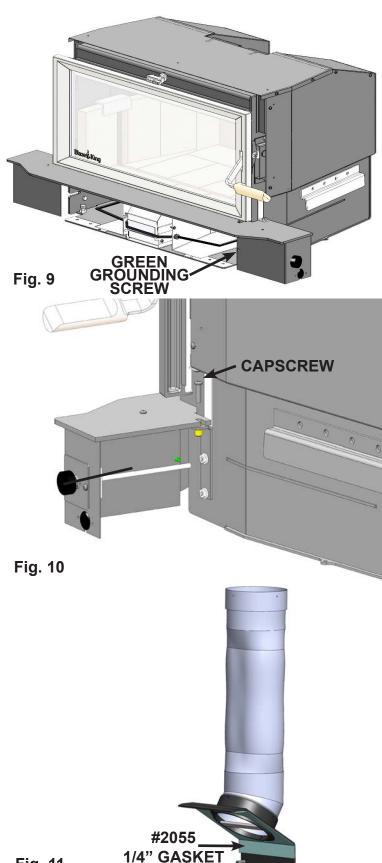
INSTALLATION INSTRUCTIONS

 Complete the wiring assembly by connecting the loose end of rheostat to power cord. Then connect other loose end of power cord to loose end of fan interconnect wire harness. Finally, using supplied ground screw, fasten power cord and interconnect ground wire to ground hole on front of lower shroud. (Fig. 9)

5. Once lower shroud is aligned, fasten both capscrews with a 5/32" hex key. (**Fig. 10**)

 For ease of install; once chimney piping is completely installed and attached to the provided flue collar assembly, leave flue collar hanging roughly 2 feet above the floor of the fireplace. This will enable unit to be pushed back into the fireplace opening without interference and allow for an easy grab through the bypass door opening to install. (Fig. 11) Ensure 1/4" gasket is intact on the bottom of the

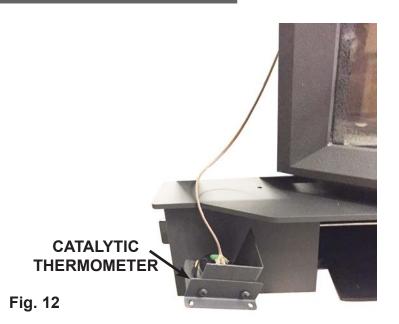
flue collar assembly before installation.



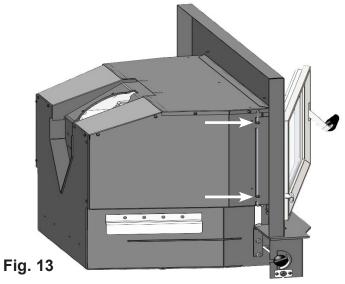
Flue Collar Preparation

Upper shroud install

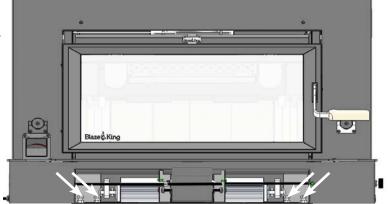
1. Position catalytic thermometer across ash shelf front.(**Fig. 12**)



2. WITH THE LOADING DOOR OPEN, align notches on the left side of the rear shroud with the screws protruding out of the firebox can. Once in position, do the same with the right side of the rear shroud. Push back and downwards on shroud to ensure it is locked in place then tighten all four screws using a #2 Robertson screwdriver. (Fig. 13)

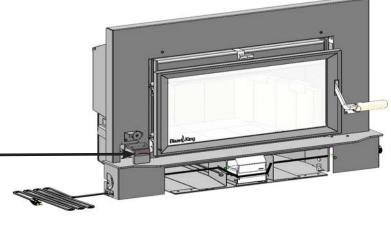


 Position stove in fireplace opening. If required, use the four leg leveler bolts to level the firebox. (Fig. 14)





4. Fasten catalytic thermometer to rear shroud using a #2 Robertson screwdriver, two screws.





(Fig. 15)

5. Slide lower shroud cover underneath the lower shroud shelf and fasten using a #2 Robertson

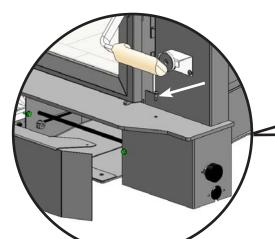
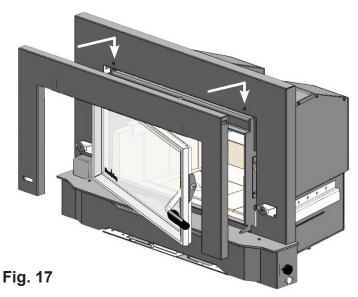


Fig. 16



outer shroud notches with the protruding screws

screwdriver, two screws. (Fig. 16)6. WITH THE LOADING DOOR OPEN , align

on the rear shroud, then hang. The bottom of the outer shroud is held in place by magnets. (**Fig. 17**)

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INSTALLATION INSTRUCTIONS

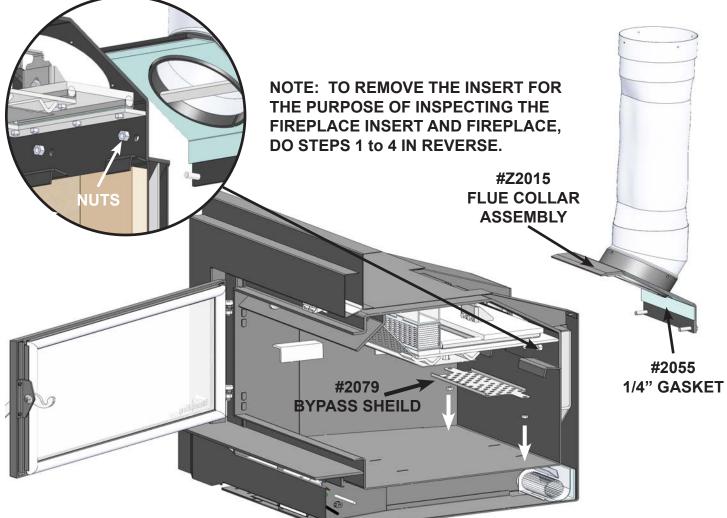


Fig. 18

Flue Collar Installation

- 1. Open the loading door and remove the bypass sheild from the bypass opening using a 7/16" wrench, set parts aside.
- 2. Open the bypass door then reach up through bypass opening to grab flue collar assembly. Pull down to align bolts with through holes in firebox rear then pull forward.

NOTE: ENSURE TOP SURFACE IS MATING WITH FIREBOX TOP. THE GASKET OF THE FLUE COLLAR NEEDS TO BE IN CONTACT WITH THE FIREBOX ON ALL SIDES. FEEL THE AREA WHERE THE FLUE COLLAR MAKES CONTACT WITH THE FIREBOX, IF THERE IS A GAP, THE FLUE COLLAR IS NOT SEATED PROPERLY AND NEEDS TO BE REALIGNED.

- 3. Once sealed, fasten flue collar assembly to firebox using a 9/16" wrench, and the supplied stainless steel nuts (**Fig. 18**). Tighten flue adapter bolts evenly so a tight seal is maintained.
- 4. Re-attach the bypass sheild using a 7/16" wrench.

CHIMNEY

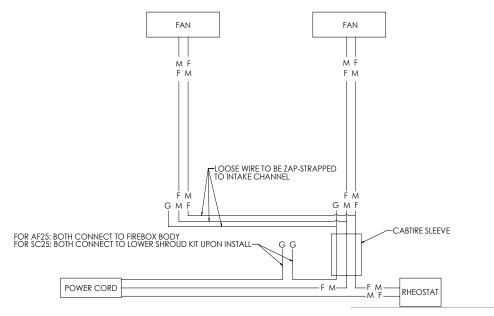
GENERAL CHIMNEY INSTALLATION

If this stove and its chimney components are 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 requirements in your area.

We recommend that the inside your chimney be at least the same diameter as the flue of your stove. If you plan to use an existing masonry chimney, be sure it is free of cracks and loose joints. Gases traveling through a chimney can reach extremely high temperatures. Cracks or loose mortar can allow hot gases to reach the wood portion of the structure surrounding the chimney. These toxic gases can also re-enter the house through cracks and small holes in the chimney, or cause back-puffing which will result in excessive smoking. Be on the safe side and have your chimney inspected by a certified chimney sweep. A 6 inch insulated stainless steel chimney liner with a direct connection to the stove is recommended for masonry chimney installations. A chimney must extend at least three feet above the highest point where it passes through the roof and at least two feet higher than any portion of the building within ten feet of the chimney. Smoke travels up the chimney in a circular, spiraling motion. A 6 inch round insulated stainless steel liner allows the smoke to travel with less resistance. A rough masonry chimney without a good smooth liner can result in the rapid build up creosote.

- BEFORE YOU BEGIN CHECK ALL LOCAL CODES AND REGULATIONS REGARDING YOUR INSTALLATION.
- DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE

ELECTRICAL DIAGRAM



YOUR FIRST FIRE!

The following pages contain information on the operation of the major components on your Blaze King appliance. Please take the time to read through this section as it will give you a better understanding of how your appliance works. This understanding will help you to operate your appliance at its optimum level thus extended its life while allowing you to get the highest efficiencies from your heater.

INTRODUCTION

All Blaze King free standing wood appliances are designed as radiant room space heaters. They have been designed and tested to be installed in insulated habitable rooms areas of your dwelling. The appliance has not been designed to be installed in a concrete uninsulated basement or in a shop/garage environment. Such applications may cause the thermostat to be unresponsive due the constant call for heat resulting in appliance being in a constant or over fire situation. Consequential damage from this type of operation will deem the warranty null and void.

All Blaze King wood appliances are designed to burn cord wood only. Dimensional timber off cuts, very low moisture content small diameter wood and pressed wood logs, when used in excess, may result in excessive internal firebox temperatures that can cause causing irreversible damage to the firebox's internal structure. Excessive temperatures can be caused by many small pieces of very low moisture content wood being used as a primary fuel source. This may be evident by warping or warped internal plates and retainers, possible cracking of the outer firebox and possibly premature failure of the catalytic combustor. All wood appliances should be cleaned out and inspected at the end of every burning season to identify if any internal components have been affected during the burning season. If problems are observed steps must be taken to identify and correct the problem before the subsequent burning season. Failure to do so will result in the warranty of the product being null and void.

EFFICIENCY

Efficiency was determined using the method outlined in B415.1-10 test method. It is represented by the Higher Heating Value (HHV) as the fuel used during testing contains between 19% - 25% water moisture included in the total calculated fuel weight. (Other test methods such as LHV or Low Heating Value, do not take the water moisture into account).

Annual Fuel Utilization Efficiency (AFUE) attempts to represent the actual, season long, average efficiency of an appliance. HHV is the actual, calculated average efficiency obtained under test conditions. Using correctly seasoned wood is important when trying to gain efficiency. The more seasoned (dry) the wood, the higher the efficiency (less energy wasted on eliminating moisture during combustion). Operating your Blaze King at lower settings will result in higher efficiencies as the fuel will undergo a more complete combustion.

FAN OPERATION

The fans are located beneath the firebox of the appliance. They recirculate room air up the back of the firebox and out across the top. This design allows the air to travel the furthest distance across the hot surfaces resulting in super heated air. The fans should be turned off until the appliance reaches normal operating temperatures. After approximately 30 minutes, the fans can be turned on and the speed adjustment should match the thermostat control setting, i.e. if your appliance is set at medium then your fan should also be set at medium, low—low, high—high etc. The fan control is located on side of the lower shroud ash shelf.

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SELECTING WOOD

- THIS APPLIANCE IS DESIGNED TO BURN NATURAL WOOD ONLY. DO NOT BURN TREATED WOOD, COAL, CHARCOAL, COLORED PAPER, CARDBOARD, SOLVENTS OR GARBAGE.
- HIGHER EFFICIENCIES AND LOWER EMISSIONS WILL GENERALLY RESULT WHEN BURNING AIR DRIED SEASONED WOODS, AS COMPARED TO WET, GREEN OR FRESHLY CUT WOODS.
- BURNING WET UNSEASONED WOOD CAN CAUSE EXCESSIVE CREOSOTE ACCUMULATION. WHEN IGNITED IT CAN CAUSE A CHIMNEY FIRE THAT MAY RESULT IN A SERIOUS HOUSE FIRE.

It takes a great deal of energy to evaporate the moisture contained in green or wet wood and that energy will not be heating your house. Green or wet wood will also greatly increase creosote issues. To ensure that your wood fuel has a moisture content of 20% or lower, only use seasoned wood that has been split, stacked, and protected from rain or snow for at least 24 months. Firewood should be split and stacked in a manner that allows for air flow to all areas.

Never burn salt-water driftwood as it is very corrosive and will deteriorate the structure of the appliance. The burning of salt-water driftwood will void the warranty.

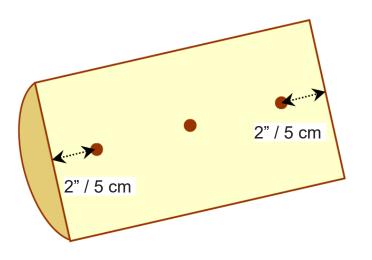
Both hardwood and softwood burn equally well in this appliance, but the more dense hardwood will weigh more per cord and burn a little slower and longer.

The only accurate way to determine wood moisture is to purchase a moisture meter.

- NEVER START A FIRE UNLESS ALL BRICKS ARE CORRECTLY PLACED INSIDE THE FIREBOX. CHECK THE INSTALLATION INSTRUCTIONS CAREFULLY.
- ALWAYS OPEN THE BYPASS DOOR BEFORE OPENING THE LOADING DOOR.
- ONCE THE LOADING DOOR IS CLOSED, CLOSE THE BYPASS DOOR DIRECTLY AFTER THE CATALYTIC THERMOMETER NEEDLE IS IN THE ACTIVE ZONE.

HOW TO USE MOISTURE METERS

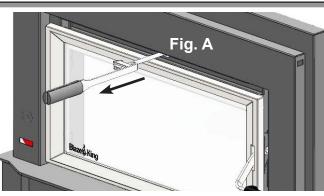
- 1. Take a random selection of around 3-4 logs per cubic yard or cubic meter.
- 2. Split each log down the middle.
- 3. In the center of log push pins of meter along grain three measurements are taken on the freshly split surface: 2" or 5 cm in from each end of the log and in the middle of the split surface with sufficient contact (see figure).
- 4. Do this to all the logs and take an average of the readings (this will be only an approximate indication but a good guide).

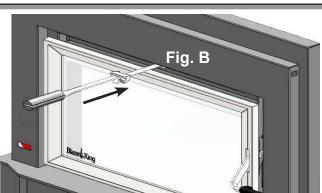


BYPASS DOOR & BYPASS HANDLE

Your catalytic wood burning appliance is fitted with a bypass door which allows exhaust from the fire to temporarily bypass the catalytic combustor. The bypass door is located inside the dome of the firebox at the top of the appliance. To open the bypass door, use the bypass handle to grab the **side of the bypass latch** (**Fig. A**) and pull the rod outward. To close, position the bypass handle on the **center of the bypass latch** (**Fig. B**) push inward. The bypass handle can be hung from the left or right-hand notch below the ash lip of the appliance. **NEVER OPEN THE LOADING DOOR WITHOUT FIRST OPENING THE BYPASS DOOR**

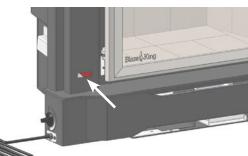
DO NOT TOUCH THE BYPASS LATCH DIRECTLY, ALWAYS USE THE BYPASS HANDLE. DURING OPERATION THE BYPASS LATCH GETS VERY HOT AND CAN CAUSE SERIOUS BURNS.





CATALYTIC THERMOMETER

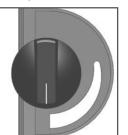
The catalytic thermometer is located on the lower left-hand corner of the outer shroud. Its sole purpose is to indicate whether the combustor is ACTIVE or INACTIVE. It is important to ensure that the appliance is operated in the stove in the ACTIVE zone. When the thermometer reads INACTIVE it means that the combustor temperature is below 500F and is not producing a clean burn. For calibration instructions refer to "CATALYTIC THERMOMETER" in the "MAINTENANCE" section.



THERMOSTAT

The thermostat is located below the ash lip of the appliance and is controlled by the thermostat knob which is located on the left side of the appliance. When the knob is positioned at the **HIGH** setting, the appliance will operate at its highest burn rate and deliver its maximum heat output. As the knob is rotated counter clockwise the burn rate will decrease along with heat output. Burn rate is greatly influenced by location, installation, and external environment, so you may find it necessary to reposition the knob until you find the ideal setting to suit your situation. Please note that all adjustments to the thermostat should be done gradually as too rapid a change may cause the thermostat to operate improperly. The thermostat is set at the factory. **DO NOT TAMPER WITH THE THERMOSTAT**, this will result in a malfunctioning thermostat.

HIGH SETTING MAXIMUM HEAT OUTPUT





ROTATE COUNTER CLOCKWISE FOR REDUCED HEAT OUTPUT

LIGHTING THE FIRE

NOTE: As you heat up the stove for the first time, the paint will go through a curing process and will give off an odor. To minimize the inconvenience, burn the stove at a low temperature setting for several hours. It is advisable to open a door or window until the odor dissipates. You may also notice a change in color as the paint cures, this is normal and will appear uniform after subsequent firings.

1. DO NOT USE A GRATE. BUILD THE FIRE DIRECTLY ON THE BRICK IN THE BOTTOM OF THE STOVE.

- 2. Set the thermostat to **HIGH** (maximum) position and turn the fan (if fitted) **OFF**.
- 3. Open both the loading door and the bypass door (bypass latch / rod pulled out using bypass handle).
- 4. Place 10 balls of non-glossy paper towards the front of the bottom of the firebox then stack 20 pieces of kindling on top of the paper in a crisscross fashion (leaving air gaps in between sticks).
- 5. Light the fire and allow it to get a good start while leaving the loading door cracked open (approximately 3 to 5 minutes). **DO NOT LEAVE THE STOVE UNATTENDED.**
- Once the kindling is fully on fire, place two or three medium size logs onto the fire. Keeping the loading door unlatched, allow the logs to catch fire (approximately 5 minutes). DO NOT LEAVE THE STOVE UNATTENDED.
- 7. Once the logs are burning, latch the loading door shut **BUT** keep the bypass door open. Leaving the loading door open after the wood load has caught fire may cause premature failure of the catalytic combustor.
- 8. When nearly all of the wood in the firebox is fully burning, finish loading the appliance. Lay the wood as far back in the stove as possible. Latch the loading door shut and observe the catalytic thermometer. Once the needle is in the **ACTIVE ZONE**, close the bypass door.
- 9. Let the fire burn with the thermostat at the HIGH setting for 20-30 minutes or until the fire is well established. This ensures that the stove, catalyst, and wood load are all stabilized at optimum operating temperatures. The temperature in the stove and the gases entering the combustor must be raised to at least 500F (indicated by the thermometer needle in the ACTIVE ZONE) for catalytic activity to be initiated.
- 10. After 20-30 minutes or once the fire is well established, gradually turn the thermostat down to the desired heat output setting. Please note that if the thermostat is turned down too low too quickly, the fire may go out or the combustor may stop working, indicated by the thermometer needle falling into the **INACTIVE ZONE**. If this happens, simply thurn the thermostat back to a higher heat output setting to let the fire reestablish itself.
- 11. If installed, turn the fan on after the initial warm up period of 20-30 minutes.

Probably the least understood requirement in maintaining a good fire is that of establishing a good base of coals or embers. A good bed of hot coals or embers will maintain a more even temperature as well as getting the new load of wood started easily. Put as much wood into the appliance as needed, practice will teach the amount of wood necessary to keep the fire going until the next reloading time. Don't be afraid to fill it completely if necessary. With the Blaze King thermostat, the wood will only burn at the rate set on the thermostat. Once the fire is established, the appliance should be left to complete the full burn cycle. This is evident by a) only coal bed (ember bed) remaining or b) the catalytic thermometer hovers just inside the active zone. Following this procedure will maximize the efficiency of the appliance as well as limit exhaust emissions and smoke spillage.

RELOADING PROCEDURE

WHEN PREPARING TO RELOAD, IF THE NEEDLE ON THE CATALYTIC THERMOMETER IS STILL IN THE ACTIVE ZONE, FOLLOW THE PROCEDURE BELOW; IF THE NEEDLE HAS DROPPED INTO THE INACTIVE ZONE, REFER BACK TO THE "LIGHTING THE FIRE" PROCEDURE ON THE PREVIOUS PAGE.

It is important to note that the catalytic thermometer is simply displaying the temperature of the catalytic combustor. It may be used as an aide when it comes to indentifying a reload point, but other factors such as lack of fuel in the firebox or dropping room temperatures should be used as well.

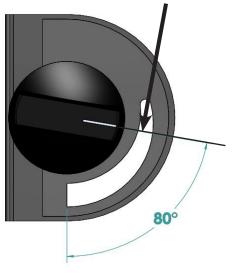
- 1. Have your next load of wood ready before beginning. Turn the thermostat to **HIGH**. Wait 2 minutes for the air flow to stabilize.
- 2. To help minimize smoke spillage into the room, you may wish to open the bypass door and again wait 2 minutes for the air flow to stabilize.
- 3. Crack open the loading door to allow ambient room air to be introduced into the firebox, this may take a minute to stabilize.
- 4. Slowly open the loading door and proceed to reload the firebox. If you experience excessive smoke spillage, slightly close the loading door to re-establish a draft through the chimney.
- 5. Once loaded, latch the loading door shut and (if opened) close the bypass door immediately. Let the fire burn on the HIGH thermostat setting for 20 to 30 minutes OR until the fire is very well established. At that point, turn the thermostat down to the desired setting. Keep in mind you may not see a large amount of flame activity in the lower thermostat setting. The thermometer needle will remain in the active zone indicating that the burn cycle is continuing.
- Should you burn the stove on a very low setting for extended periods of time, you will begin to see creosote deposits forming on the glass door. To remove these deposits, simply run the stove on HIGH for approximately 30 minutes. The HIGH setting will burn off most of the deposits

Note: Our loading instructions are outlined in general terms due to the vast array of variables that arise with each installation. Such variables include type of wood fuel, chimney hieght and configuration, installation altitude, seasonal weather conditions, and the desired heat output required. Over time you will learn which settings are necessary to achieve optimal performance with your sepecific installation.

OPTIMAL LOW BURN THERMOSTAT SETTING

Your Blaze King appliance was tested and certified in accordance to the New Source Performace Standards for Residential Wood Heaters. During this test series, the low burn rate of the unit was determined by setting the thermostat knob to a position that yeilded the lowest burn rate achievable. Considering that certification testing was conducting in a controlled labratory environment with the appliance connected to a 15ft tall chimney, you may find that your optimal low burn thermostat setting is either above of below the certification test setting based on your location, installation, and the external environment you are operating in. If you find that you are setting your thermostat beyond the test setting, please note that if the thermostat is turned down too low the fire may go out or the combustor may stop working which is indicated by the thermometer needle falling into the **INACTIVE ZONE**. If this happens, simply turn the thermostat back to a higher heat output setting and let the fire reestablish itself.

TESTED LOW BURN SETTING



WOOD BURNING IN THE SHOULDER SEASON

There are a few things to consider if you choose to light a fire during the spring or fall seasons when the outside temperature is milder, perhaps 55°F to 70°F (13°C to 21°C).

You may notice smoke spillage out of the loading door when it is opened during start up or reloading. This is caused by a lack of natural draft within the chimney system. The temperature difference between the chimney system and the outside air causes flue gasses to be drawn up and out of the chimney. Smaller temperature differences produce less draft in your chimney system than larger temperature differences. This air movement, referred to as Stack Effect, is also influenced by air density and moisture differences. To eliminate the smoke spilliage you may have to stoke the fire for longer than usual. Once the fire warms the chimney the draft will improve and spillage will be reduced. When operating the appliance on a lower thermostat setting, the resultant lower flue temperatures can cause your chimney system to cool down. This also decreases natural draft and spillage may occur.

General Rules for burning in the shoulder season:

- Run your appliance on **HIGH** for 30 minutes after start up and reloading before gradually turning the thermostat down to the desired heat output setting.
- The thermostat setting needs to be high enough to keep the catalytic thermometer in the active zone. If the thermometer will not stay in the active zone, turn the thermostat to a higher setting and then wait 15 minutes to confirm that the thermometer remains in the active zone. Repeat as required.
- If your appliance is producing too much heat, try to reduce the volume of wood fuel loads rather than turning your thermostat down. It is good burning practice to build smaller, hotter fires on milder days in the spring and fall.

ICE - FORMATION AND PREVENTION

Most of what you see coming from the chimney of a properly operating catalytic appliance is water vapor. In extremely cold weather, and with some exterior chimneys, this vapor may freeze in the chimney to the point of actually blocking the chimney and extinguishing the fire. In such weather, burn the appliance for 5 to 10 minutes with the thermostat set to **HIGH** to melt any possible ice build.

WARNING

DO NOT USE THE APPLIANCE WITHOUT A COMBUSTOR

It is important to periodically monitor the operation of the catalytic combustor to ensure that it is functioning properly. A non-functioning combustor will result in a loss of heating efficiency, and an increase in creosote and emissions. Following is a list of items that should be checked on a periodic basis:

- Combustors should be visually inspected at least three times during the heating season to determine if
 physical degradation has occurred. Actual removal of the combustor is not recommended unless more
 detailed inspection is warranted because of decreased performance. Refer to "CATALYTIC COMBUSTOR
 TROUBLESHOOTING" on next page.
- This catalytic heater is equipped with a temperature probe to monitor catalyst operation. Properly
 functioning combustors typically maintain temperatures in excess of 500°F (indicated by the thermometer
 needle in the active red zone), and often reach temperatures in excess of 1000°F. If catalyst temperatures
 fall below 500°F (indicated by the thermometer needle in the inactive zone), refer to next step and to
 "CATALYTIC COMBUSTOR, TESTING" below.
- You can get an indication of whether the catalyst is working by comparing the amount of smoke leaving the chimney when the smoke is going through the combustor and catalyst light-off has been achieved, to the amount of smoke leaving the chimney when smoke is not routed through the combustor (bypass mode):

- Light the appliance as per the lighting instructions "LIGHTING THE FIRE". With smoke routed through the catalyst, go outside and observe the emissions leaving the chimney.

- Open the bypass mechanism, wait approximately 15 minutes, and again observe the emissions leaving the chimney. Significantly more smoke will be seen when the exhaust is not routed through the combustor (bypass mode). Some smoke may be visible shortly after you start the fire and shortly after reloading the fire. Allow 20 to 30 minutes for the fire to stabilize before making observations.

CATALYTIC COMBUSTOR, TESTING

Light the fire per the lighting instructions. After 1 hour of burning a well established fire, position the thermostat knob to a medium - low burn rate setting. Allow 5 minutes for the catalytic thermometer to reach equiliburm and observe the location of the indicator needle. A properly functioning combustor will have an active temperture greater than 500F and the thermometer will read in the ACTIVE zone. A "tired" or "dead" combustor will yield thermometer reading in the INACTIVE zone. Repeat this procedure for at least 3 burn cycles. If, after several burn cycles, the thermometer will not indicate an ACTIVE reading your combustor may require cleaning or replacement. If, after cleaning and reburning, your combustor. Note - It is also possible that the catalytic thermometer itself may be functioning incorrectly. Before condemning the combustor, read CATALYTIC THERMOMETER in OPERATING INSTRUCTIONS.

CATALYTIC COMBUSTOR, CLEANING

Under certain conditions, ash particles may become attached to the face of the combustor. These may be seen while the combustor is in the glowing stage, or when the fire is out. Any deposit on the visible face of the combustor should be removed. Wait until the fire is out and the appliance is cold before performing any cleaning. Brushing the combustor with a soft bristle paint brush will remove some deposits. Passing a vacuum cleaner wand or brush near the face of the combustor will remove most deposits. (Hot ash in a vacuum cleaner bag will burn, may melt the vacuum or cause a house fire. Exercise caution and never clean the appliance when the appliance or ashes are hot.) Never scrape the combustor with any hard tool or brush. Never run pipe cleaner through the individual cells of the combustor. **NOTE: Never remove a combustor without approved combustor gasket in hand as original gasket will fall apart when removed from** appliance. Remember to re-install the Flame Shield (the perforated plate) in same position it was found. TIP: A hot fire will usually prove to be the best method of cleaning the combustor of deposits.

CATALYTIC COMBUSTOR, TROUBLESHOOTING

PROBLEM - CREOSOTE PLUGGING

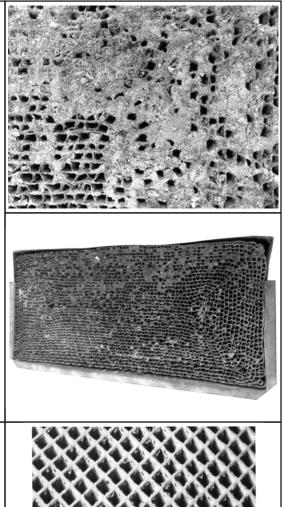
Possible Cause: Burning materials that produce a lot of char and fly-ash.

Solution: Do not burn materials such as garbage, gift wrap, or cardboard.

Possible Cause: Burning wet, pitchy woods or burning large loads of small diameter wood with the combustor in the operating position without the thermostat needle in the active zone. **Solution:** Burn dry, seasoned wood, don't engage the bypass until the temperatures are high enough to initiate light-off (indicated by the thermostat needle in the active zone).

Possible Cause: Combustor not functioning. If proper burning procedures have been followed to no avail, the combustor is not functioning.

Solution: Replace the combustor with a genuine Blaze King combustor (failure to do so will void your warranty).



PROBLEM - CATALYST PEELING

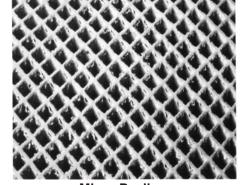
Possible Cause: Extreme temperatures (above 1800°F, or 1000°C.) at combustor surface can cause the catalysts to peel. Over firing and flame impingement on the combustor are primary causes. Minor peeling photo shows minor peeling that is normal and does not affect function. Severe peeling photo shows that are closed or plugged.

Solution: Avoid extreme temperatures and flame impingement. If peeling is severe, remove and replace combustor.

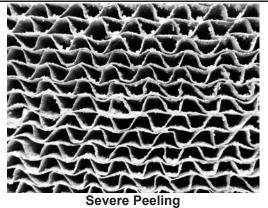
PROBLEM - CATALYST DEACTIVATION

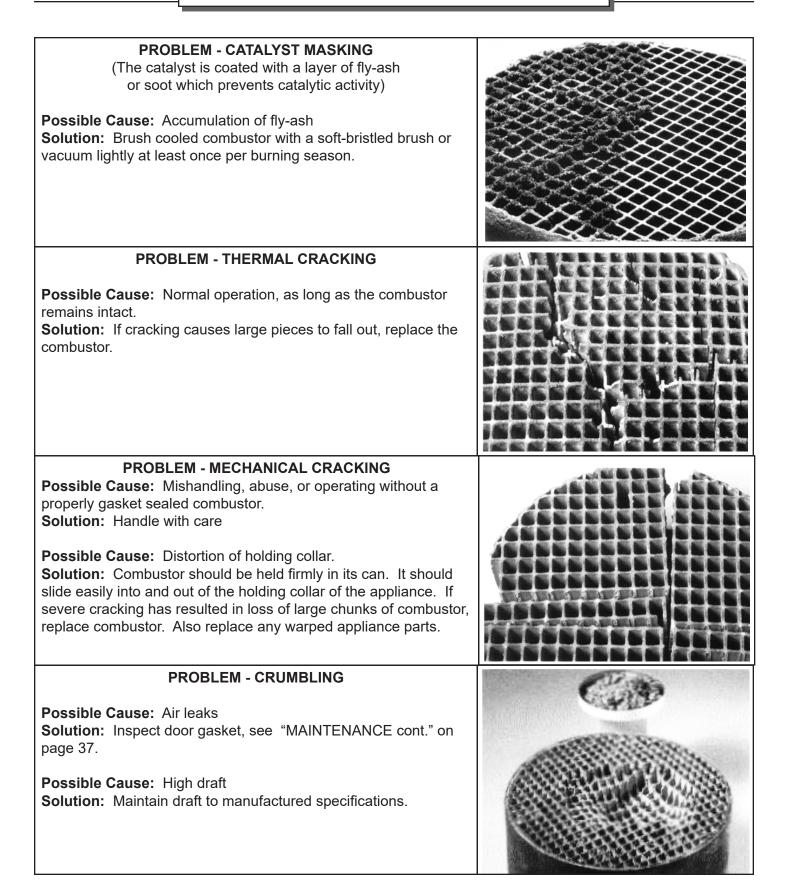
Possible Cause: Burning large quantities of trash, pressure-treated lumber, or painted woods.

Solution: Burn quality woods available in your area. If you decide the catalyst has been deactivated, replace combustor with a genuine Blaze King combustor (failure to do so will void your warranty).



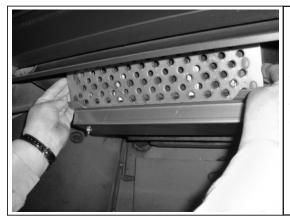
Minor Peeling





CATALYTIC COMBUSTOR, REPLACEMENT BLAZE KING RECOMMENDS YOUR DEALER PERFORM THIS TASK

The catalytic thermometer on top of the stove should read in the active zone after the stove has been in operation for several hours. If the thermometer's indicator needle does not stay in the active zone, even with a hot fire, over a 7-10 day period of regular use, the combustor may need replacement or cleaning, see "CATALYST MONITORING". If the combustor needs replacing then discontinue use of the appliance until the combustor is replaced. If the combustor must be examined or replaced contact your Blaze King dealer.



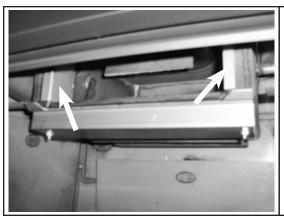
1. The removal of a Blaze King Catalytic combustor requires a small flat blade screwdriver or pocket knife. The stove fire must be out for at least 12 hours prior to the removal process. A combustor can reach 1400°F and hold high temperatures for several hours even after the fire is out. After waiting 12 hours, first remove the flame shield by simply lifting the shield off the two tabs at either side. Pay particular attention to orientation as there is a top and bottom edge to the flame shield.



2. Once you remove the flame shield, you'll find the combustor. The honeycomb combustor can be made of different materials such as cordierite, mulite or even stainless steel. They are all the same with regard to removal and caution should be taken so as to not drop or damage the combustor. If your combustor has never been cleaned according the manufacturers directions, you may wish to clean the combustor before replacing it with a new combustor, see "CATALYTIC COMBUSTOR CLEANING".



3. The combustor has a metal tab across the bottom and on each side of the combustor. Using a flat blade screwdriver or pocket knife blade, slide the blade behind the metal tab and the heavy steel dome of the stove. The dome is the housing that surrounds the combustor. Apply slight pressure until the combustor begins to move forward, about 1/4". Repeat the process on the opposite end tab. By working back and forth the combustor will work free of the dome housing. It is normal for the gasket surrounding the metal band to fall apart during this process. New combustors are shipped with a new gasket.



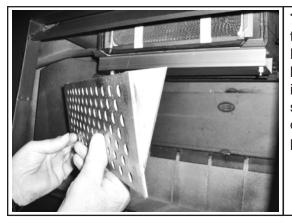
4. Now that the combustor has been removed you'll be able to see one stainless bypass retainer on each side. These can remain in place and do not need to be removed. These clips are not fixed in position and can fall into the firebox. Make sure they are in position before replacing the combustor. Using the same screwdriver or pocket knife, scrape any old gasket from the surface areas of the dome. The dome is the housing that surrounds the combustor. If you clean your existing combustor, you'll need to order replacement combustor gasket. It is always a good idea to have a spare combustor gasket on hand prior to performing any maintenance. If you purchase a new combustor a new gasket will already be applied to the combustor.



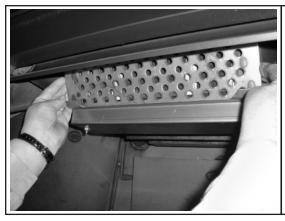
5. This new combustor already has the gasket installed. Note the 1" wide masking tape. This tape will help to keep the leading edge of the gasket from snagging during installation. If you've cleaned your combustor, wrap the combustor gasket as you see here and use the 1" masking tape around the perimeter front and rear. During the first fire the masking tape will burn off and the combustor gasket will swell providing a tight seal. It is this tight seal that improves efficiency and performance. You should never burn your stove without a combustor gasket installed.



6. Since the combustor is only 2" deep, there is ample room to lift the new combustor into place. **REMEMBER TO HAVE THE TAB ACROSS THE BOTTOM EDGE OF THE COMBUSTOR AS IT IS INSTALLED**. Slowly push the combustor in at the top apply even pressure to the left and right corners. This will allow for a better view of the bottom edge for the final fitting. **DO NOT FORCE THE COMBUSTOR INTO THE DOME. TAKE YOUR TIME AND WORK IT INTO PLACE SLOWLY.**



7. Once the combustor is installed completely so that all three tabs at touching the face of the dome, replace the flame shield. Note the brackets welded to the back flame shield are shaped like a triangle. The point of the triangle should face down when installed correctly. Never operate your stove without the flame shield in place. The flame shield will protect the face of the combustor against damages from wood when loading and other possible damages that can occur during the cleaning process.



8. The flame shield will rest on the two tabs located on the dome guard and lean slightly forward. Now that your combustor has been installed you can relight your stove. You will continue to receive excellent efficiency and clean burning for years to come. A few reminders, never burn anything other than dry, seasoned cordwood. Burning anything else may contaminate or ruin your new combustor. Also remember to keep your front loading door gasket seal properly adjusted, see "LOADING DOOR TENSION ADJUSTMENT". Doing so will improve burn times and extend combustor life span.

The combustor supplied with this heater is either a 115.0335 metal combustor. Consult the catalytic combustor warranty also supplied with this wood heater. Warranty claims should be addressed to:

in Canada	in USA
Blaze King Industries / Valley Comfort Systems	Blaze King Industries
Warranty Department, 1290 Commercial Way	Warranty Department, 146A Street
Penticton, BC Canada V2A 3H5, Ph: 250-493-7444	Walla, Walla, Washington 99362, Ph: 509-522-2730

REMOVAL FOR CLEANING AND INSPECTION

Removal of your insert for cleaning purposes is generally not required if a proper installation has been done. In the event that removal is required, for cleaning or inspection, be sure not to damage any parts needed for re-installation.

RUN-AWAY OR CHIMNEY FIRE

A CHIMNEY FIRE CAN PERMANENTLY DAMAGE YOUR CHIMNEY SYSTEM. THIS DAMAGE CAN ONLY BE REPAIRED BY REPLACING THE DAMAGED COMPONENT PARTS. CHIMNEY FIRE DAMAGE IS NOT COVERED BY THE LIMITED WARRANTY.

CAUSES:

- 1. Using incorrect fuel, or small fuel pieces which would normally be used as kindling.
- 2. Leaving the door ajar too long and creating extreme temperatures as the air rushes in the open door.
- 3. Improperly installed or worn gaskets.
- 4. Creosote build up in the chimney.

SOLUTIONS:

- 1. Do not burn treated or processed wood, coal, charcoal, colored paper or cardboard.
- 2. Be careful not to over fire the appliance by leaving the door open too long after the initial start-up.
- 3. Replace worn, dried out (inflexible) gaskets.
- 4. Have your chimney cleaned regularly.

WHAT TO DO IF A RUN-AWAY OR CHIMNEY FIRE STARTS:

- 1. Close the draft fully (lowest position) by shutting off thermostat, and make sure firebox is closed tightly.
- 2. Call the local fire department.
- 3. Examine the chimney, attic and roof of the house, to see if any part has become hot enough to catch fire. If necessary spray with a fire extinguisher or water from a garden hose.
- 4. Do not operate the appliance again until you are certain the chimney has not been damaged.

CREOSOTE FORMATION AND REMOVAL

When wood is burned slowly, it produces tar and other organic vapors which combine with expelled moisture to form creosote. These vapors condense in the relatively cooler chimney flue of a slow burning fire and when ignited, make an extremely hot fire. Check your chimney for creosote and soot regularly, until a safe frequency for cleaning is established. The chimney connector and chimney should be inspected regularly during the heating season to determine if a creosote build up has occurred. Be aware that the hotter the fire, the less creosote is deposited.

If accumulation is excessive, clean the chimney. You may want to call a professional chimney sweep to clean it. Both the chimney and the appliance have to be cleaned at least once a year or as often as necessary. Have a clearly understood plan to handle a chimney fire.

CHIMNEY MAINTENANCE

The most efficient method to sweep the chimney is using a hard brush. Brush downwards so soot and creosote residues will come off the inner surface and fall to the bottom of the chimney where they can be removed easily.

The chimney must be checked regularly and if creosote has accumulated, it must be removed without delay. Cleaning on a regular basis should be sufficient during the coldest months. **ENSURE THE BYPASS DOOR IS OPEN PRIOR TO CLEANING THE CHIMNEY SO THE SOOT AND CREOSOTE FALLS INTO THE FIREBOX.**

Chimney / Flue Inspection: The chimney should be inspected regularly during the heating season for possible damage and repaired or replaced if necessary.

FLUE COLLAR ADAPTER

If for any reasone the **Z2015 flue collar assembly** is unbolted from the firebox than the **1/4**" **flue collar gasket (#2055)** needs to be replaced before reinstallation.

FIRE EXTINGUISHERS AND SMOKE DETECTORS

All homes with a solid fuel burning appliance should have at least one fire extinguisher in a central location, known to all, and at least one smoke detector in the room containing the appliance. If it sounds an alarm, correct the cause but do not de-activate or relocate the smoke detector.

ASH REMOVAL

This appliance is required to be cleaned frequently because soot, creosote and ash may accumulate. Wait until the appliance is fully cooled off before the removal of ashes. Ashes should be removed any time they come within one inch of the door opening. It is not necessary or advisable to completely remove all of the ashes when cleaning this appliance. Wood burns best in a bed of ashes 1/2" thick. 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 (outside), well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled. Other waste shall not be placed in this container.

NEVER STORE HOT ASHES IN A GARAGE OR BASEMENT. HOT ASHES WILL GENERATE CARBON MONOXIDE AND / OR FLAMMABLE GASES. THESE GASES MAY CAUSE SUFFOCATION AND POSSIBLE DEATH.

LOADING DOOR GASKET INSPECTION

Inspect the door gasket for physical deterioration, missing sections or obvious leakage. The appliance front should make a groove in the gasket material - one side of the groove (toward the inside) will often be dark or black, and the other side (toward the outside) should be light or white. Dark smudges on the outside of the groove may indicate an air leak. If the groove is very shallow or missing, or if there is a heavy ash or creosote deposit along the bottom edge of the gasket, it may need to be replaced. Frayed or broken gasket material, or a gasket that is hard and unyielding, will also indicate need for replacement. Any time a piece of gasket is missing or is broken anywhere, the entire gasket must be replaced.

To check the gasket further, wait until the appliance is cooled and insert a piece of paper (a dollar bill will work) into the door opening and close and latch the door. Obvious resistance should be felt when pulling the paper out Repeat this check several times around the perimeter of the door.

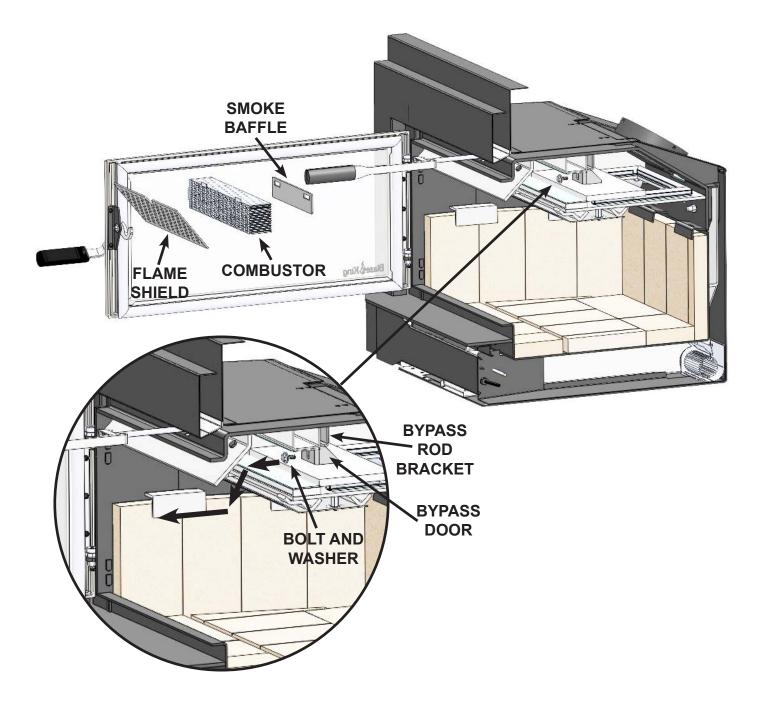
LOADING DOOR GASKET REPLACEMENT

BLAZE KING RECOMMENDS YOUR DEALER PERFORM THIS TASK

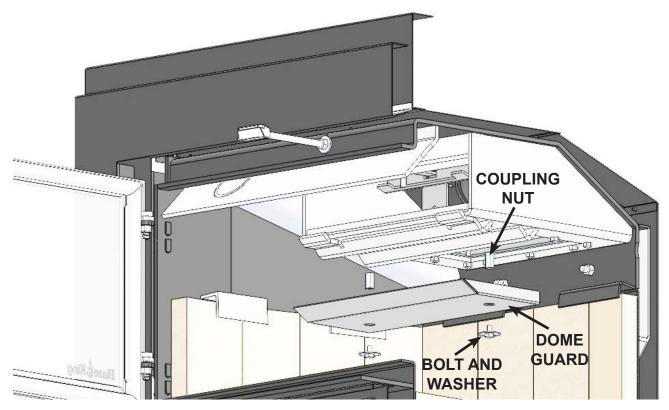
- 1. If the door gasket is to be replaced, be sure you have Blaze King 7/8" fiber glass door gasket ready to re-install, as well as high temperature adhesive. See your Blaze King dealer.
- 2. Be sure the fire is out and the appliance has cooled down. The door does not have to be removed from the appliance.
- 3. With a pair of pliers, pull the old door gasket out of the channel and dispose of it.
- 4. Thoroughly clean out the channel so the new silicone adhesive will adhere and the gasket will fit smoothly.
- 5. Dry fit the new gasket first to ensure proper fit. Do not stretch or cut the gasket. Distribute the gasket evenly around the frame.
- 6. Run a small bead of a high temperature silicone adhesive along the center of the channel. **DO NOT USE HOUSEHOLD SILICONE CAULKING**. High temperature silicone may be obtained from wood appliance dealer.
- 7. Start the new gasket in the lower right corner. Do not stretch or cut the gasket. Distribute the gasket evenly around the frame.
- 8. Allow the adhesive to dry before closing the loading door. The loading door tension may need to be adjusted, see "LOADING DOOR TENSION ADJUSTMENT".
- 9. Check the fit of the door gasket. Insert a narrow strip of paper into the door opening and close and latch the door. Obvious resistance should be felt when pulling the paper out. Repeat this check several times around the perimeter of the door. If no resistance is felt, adjust door latch catch, see "LOADING DOOR TENSION ADJUSTMENT".
- 10. A tight sealing door extends the burn times & protects the combustor.

BYPASS DOOR GASKET RETAINER REPLACEMENT #Z2022

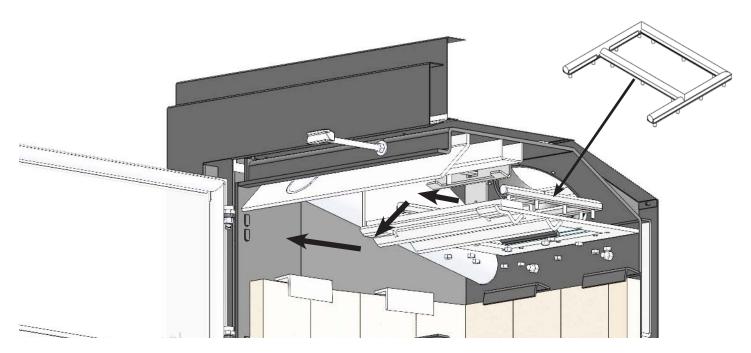
- 1. Remove flame shield. (see CATALYTIC COMBUSTOR REPLACEMENT step 1)
- 2. Remove the combustor. (see CATALYTIC COMBUSTOR REPLACEMENT step 2-4)
- 3. Remove hanging smoke baffle.
- 4. Open bypass door (slide it all the way forward) and unthread/remove the 1/4-20 bolt and washer that fastens the bypass door to the bypass rod bracket. Remove the bypass door through the combustor opening once detached.



5. Remove the two 1/4-20 bolts and washers that hold the dome guard in place, be sure to support the dome guard during this process is it will come loose. Once the dome guard is removed, unthread the two 1/4-20 coupling nuts that spaced the dome guard from the dome bottom.



6. Remove the twelve remaining 1/4-20 nuts from the dome bottom. Lift the bypass door gasket retainer assembly upwards (enough to clear the threaded posts from the dome) and remove through the combustor opening. Once removed, ensure all debris is cleared from the inner surface of the dome.



- 7. Once the inner dome surface has been cleared, insert the new bypass door gasket retainer assembly and follow the above instructions in reverse to ensure complete install. Ensure that 1/8" ceramic paper is in between the gasket retainer assembly and inner dome surface. Also ensure that all nuts are completely fastened up to the dome bottom. When tightening the 1/4-20 bolt through the bypass door into the bypass rod bracket, do not over tighten. Simply finger tighten the bolt as this allows the bypass door to move down as the gasket begins to seat after the first few fires.
- 8. When reinstalling the combustor, ensure it has been rewrapped with new expanding gasket that was supplied with the replacement kit. Do not install combustor without gasket.

DOOR GLASS GASKET INSPECTION

When the appliance is cold, hold the glass by placing the palm of each hand on either side of the glass. Press firmly and try to move the glass. If the glass moves the door glass retainers may need to be tightened or the door glass gasket may need to be replaced.

- 1. Inspect the door glass gasket. If the gasket is frayed or missing sections replace the gasket.
- 2. Inspect the glass retainers and ensure the screws holding the retainers in place are tight. Hand tighten plus 1/4 turn. Do not over tighten.

DOOR GLASS GASKET REPLACEMENT

BLAZE KING RECOMMENDS YOUR DEALER PERFORM THIS TASK

- 1. You will require Blaze King glass gasket and Blaze King door gasket. Please see your Blaze King dealer.
- 2. Remove the old glass gasket.
- 3. Starting at the corner opposite of the "Blaze King" logo, carefully wrap the gasket around the edges, pressing firmly onto the sides of the glass with the **START & STOP**

pressing firmly onto the sides of the glass with the gasket centered on the edge. Finish the wrapping with a 1/2" overlap. Ensure the thickness of the gasket remains consistent and uniform.

- 4. Install glass with the "Blaze King" logo to the lower left corner of the door. Install the glass retainers with original fasteners. Ensure the glass is parallel to the frame and tighten the fasteners evenly.
- 5. Follow steps in "LOADING DOOR GASKET REPLACEMENT".



BLAZE KING LOGO

DOOR GLASS, REPLACEMENT

Should the door glass become broken and/or damaged, please see your Blaze King dealer for replacement and installation. Replace only with ceramic glass, 5 mm. thickness. Follow steps 4 and 5 in "**DOOR GLASS GASKET REPLACEMENT**" to install the new glass.

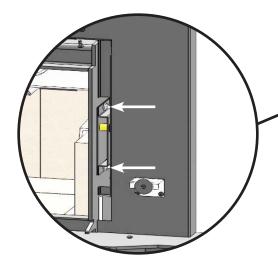
DOOR GLASS, CLEANING

The best way to keep the glass clean is to leave the appliance on high burn for a period of time after each reloading The moisture which is driven from a new load of wood contributes much of the creosote on the inside of the glass. Removing that moisture at the beginning of the burn cycle helps to keep the glass clean. Leaving the thermostat on a higher setting for 30 minutes to an hour before turning to low for an overnight burn will also help. Heavier deposits may require hand cleaning. Manual glass cleaning should be done when the appliance and glass are cool. **DO NOT CLEAN THE GLASS WHILE IT IS HOT**. **WARNING: Do not use abrasive cleaners to clean the glass**. Use a soft cloth. After using any cleaner, thoroughly rinse the glass with water to remove any deposits left by the cleaner. Failure to remove all traces of glass cleaner will result in the glass cleaner residue baking on. This residue may be very difficult to remove.

NOTE: YOUR DOOR WAS SET AT THE FACTORY, DO NOT ADJUST UNLESS NECESSARY

LOADING DOOR TENSION ADJUSTMENT

- 1. Lift the outer shroud up and off of magnets and top screws.
- 2. Open the door.
- To tighten the door tension use a 7/16" wrench to loosen the two nuts on the latch cover. Slide the latch cover towards the back of the appliance and tighten nuts. (Fig. 22)Repeat paper test (see "LOADING DOOR GASKET INSPECTION"

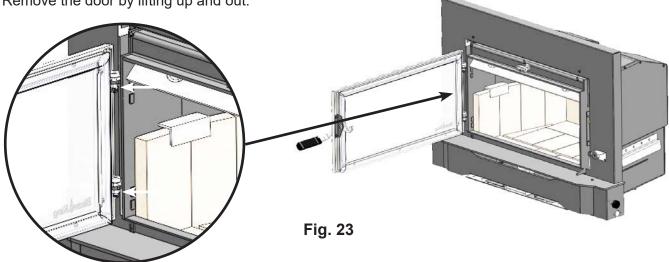


LOADING DOOR HINGE ADJUSTMENT

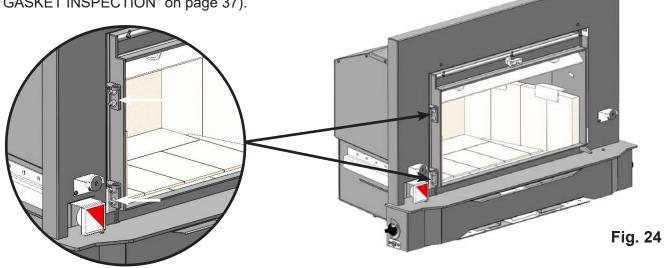
- 1. Open the door to 90°.
- Hold bottom nuts using a 9/16" wrench. Use a 1/4" Allen head screwdriver to back nuts off the bolts. (Fig. 23)
- 3. Remove the door by lifting up and out.

Fig. 22

DO NOT OPERATE THIS WOOD APPLIANCE IF THE DOOR GASKET IS MISSING OR DAMAGED. DANGEROUS OVER FIRING CAN OCCUR WHICH CAN DAMAGE THE APPLIANCE OR IGNITE CREOSOTE IN THE CHIMNEY, POSSIBLY CAUSING A HOUSE FIRE. IF ANY PART OF THE WOODAPPLIANCE OR FLUE SYSTEM IS GLOWING THE APPLIANCE IS BEING OVER FIRED.



- Loosen the four door hinge nuts using a 7/16" wrench. Slide door hinges in to tighten door seal and out to loosen door seal. (Fig. 24)
- 5. Put door back on using nuts and bolts.
- 6. Repeat paper test (see "LOADING DOOR GASKET INSPECTION" on page 37).



FAN ASSEMBLY

Routine maintenance of the fan assembly on the side of the appliance is not required. However, should it become necessary to replace an individual fan or rheostat, contact your local dealer.

THERMOSTAT

This wood heater thermostat has a manufacturer-set minimum low burn rate that must not be altered. It is against federal regulations to alter this setting or otherwise operate this wood heater in a manner inconsistent with operating instructions in this manual. If the thermostat malfunctions contact your dealer for replacement by a qualified installer.

Your Blaze King is designed to allow a wide selection of heat output levels. If you begin to lose control of the amount of heat the appliance is emitting, determine the cause early so that major problems may be avoided.

The six major needs of a well-controlled fire are: 1. Knowledgeable operator.

- 2. Adequate air supply.
- 3. Firewood of good quality and proper size.
- 4. Catalytic combustor in good condition.
- 5. Clean chimney, properly sized and installed.
- 6. Door gasket tight and firm.

Considering all of the above, number one is the most important for safe and efficient operation of any wood appliance. Please study the operation instructions carefully. Consult your BLAZE KING dealer or call the Customer Service Department at Blaze King in the U.S.A. at 509-522-2730 or in Canada at 250-493-7444 if you have any questions not answered in this manual.

All of the six above mentioned needs are interrelated. A deficiency in any one will affect all of the others. If you encounter a problem, determine the source of the problem and then follow-up by checking the other needs as possible contributing factors.

PROBLEM: Chimney Fire		
CAUSE Act immediately regardless of cause	SOLUTION Turn the thermostat to lowest setting, check loading door to be sure it is tightly closed. Call Fire Department.	
After the fire is out, have your chimney and flue connector inspected by a certified chimney sweep. A damaged masonry chimney		

After the fire is out, have your chimney and flue connector inspected by a certified chimney sweep. A damaged masonry chimney should be repaired or rebuilt. A prefabricated chimney (factory built) that is damaged should be replaced. Any damage to the flue connector should be corrected before the system is used again.

Possible causes of a chimney fire, and remedies for those causes, can be found further in this section: "Excessive Creosote Formation", and "Spots of Creosote Accumulation in Chimney or Flue Connector".

PROBLEM: Not enough heat.		
CAUSE Green or wet wood. Not enough fuel in appliance.	SOLUTION Use seasoned wood. Don't be afraid to FULLY load the appliance. A FULL load of wood won't burn any hotter than the thermostat is set.	
Obstruction in chimney or cap screen. Combustor plugged or coated.	Remove obstruction. See "COMBUSTOR, TESTING" See "COMBUSTOR, CLEANING"	
Combustor not functioning.	See "COMBUSTOR, TESTING". If needed, replace combustor, See""COMBUSTOR, REPLACING".	
Thermostat set too low.	Raise thermostat setting.	
Thermostat not operating properly.	Consult your Blaze King dealer.	
Poor draft caused by an oversize flue	Measure draft with Manometer. See "DRAFT PERFORMANCE" Consult your Blaze King dealer or a chimney sweep.	
Strong, gusting winds causing downdraft in chimney	Install wind-resistant chimney cap. Directional caps may not stay freely rotating. If you have a directional cap, check it frequently.	
Tightly sealed house, inadequate air supply.	Slightly open a window, near the appliance.	
Reloading too much wood on top of too few coals.	Allow a larger bed of coals to build up.	

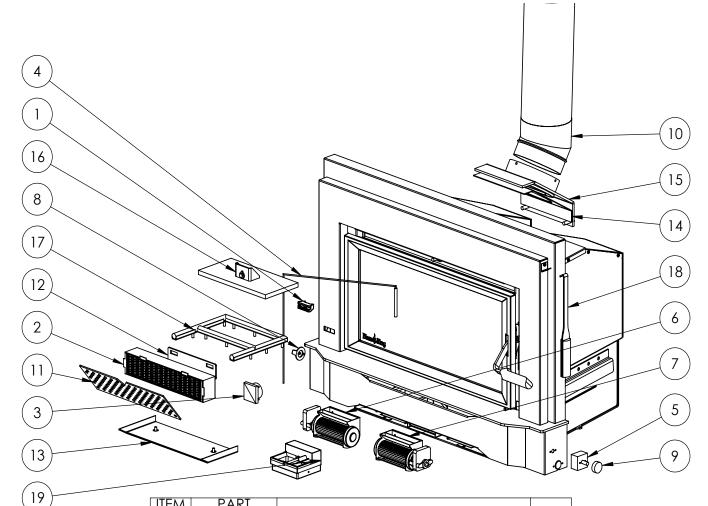
PROBLEM: Too much heat.	
CAUSE	SOLUTION
By-Pass door left open.	Close the by-pass door.
Thermostat set too high.	Lower thermostat setting.
Loading door gasket leaking, admitting excess air into firebox.	Replace door gasket and/or adjust door. See "GASKET INSPECTION"
Excessive draft in the chimney.	Measure draft with a Manometer. See "DRAFT PERFORMANCE". Consult your Blaze King dealer or a chimney sweep. Install a cap.
Thermostat not operating properly.	Consult your Blaze King dealer.
Wood is too small.	Use larger pieces.
PROBLEM: One or both fans will not run, or ther	e is no adjustment for fan speed.
CAUSE	SOLUTION
Fans mounted improperly.	Check that fan blade's not touch edges of hole.
Fan speed control.	Consult your Blaze King dealer for replacement.
PROBLEM: Fans minimum speed too fast or max	ximum speed too slow.
CAUSE	SOLUTION
Fan speed control out of adjustment.	Consult your Blaze King Dealer.
PROBLEM: Excessive creosote formation in chi	mney and chimney Connector.
CAUSE	SOLUTION
By-pass door left open.	Close by-pass door.
By-pass door not sealing tightly.	Inspect by-pass door and seal for warping. Ash or creosote buildup may occur on door or seat. With appliance cold scrape and vacuum area around by-pass. Be sure all mating steel surfaces are clean and smooth.
Improper operation.	Check thermostat setting and operating procedures. See "THERMOSTAT & OPTIMAL THERMOSTAT SETTING"
Wood too green or wet.	Use seasoned wood. Use a moisture meter to confirm.
Catalytic combustor not operating properly.	Inspect the combustor. See "CATALYTIC COMBUSTOR, TESTING"
Poor draft caused by an oversize or short flue, etc.	Measure draft with Manometer. See "DRAFT PERFORMANCE". Consult your Blaze King dealer or a chimney sweep.
Chimney too cold or poorly insulated.	Upgrade chimney system. Consult your Blaze King dealer or a chimney sweep.
PROBLEM: Catalytic combustor thermometer (o stay there for long. (Fans must be in "off" position	n top of appliance) does not go into "Active" zone, or does not on for 10 minutes prior to checking)
CAUSE	SOLUTION
Improper operation.	Check thermostat setting and operating procedures. See "THERMOSTAT & OPTIMAL THERMOSTAT SETTING"
Obstruction in chimney or cap.	Clean chimney, remove obstructions.
	Replace thermometer and Recheck combustor operating
Faulty combustor thermometer.	Temperature.

Combustor plugged or coated.	Clean combustor. See "CATALYTIC COMBUSTOR TESTING"	
Combustor not functioning.	Check and test combustor. If needed replace combustor. See "CATALYTIC COMBUSTOR, REPLACING"	
Thermostat not operating properly.	Consult your blaze King Dealer.	
By-pass door leaking or not closing completely.	Inspect and clean area around by-pass doors. Adjust or replace gasket if necessary. Consult your Blaze King Dealer.	
PROBLEM: Spots of creosote accumulation in c	himney or chimney connector.	
CAUSE Air leaks in chimney or chimney connector.	SOLUTION Inspect chimney and / or chimney connector. Repair or replace as necessary. Check to be sure that the chimney connector is installed correctly.	
CAUTION: a leaking chimney connect	tor is a fire hazard and demands immediate attention.	
Poor draft caused by an oversize flue, single wall pipe, to many elbows, etc.	Measure draft with Manometer. See "DRAFT PERFORMANCE". Consult your Blaze King dealer or a chimney sweep.	
PROBLEM: Door glass quickly becomes coated	with creosote.	
CAUSE Low thermostat setting or lowering the thermostat setting too far, too quickly.	SOLUTION Turn the thermostat to the warmest setting during the first 20-30 minutes or until the fire is well established after each reloading.	
Poor draft caused by an oversize or short flue, etc.	Measure draft with Manometer. See "DRAFT PERFORMANCE". Consult your Blaze King dealer or a chimney sweep.	
Obstruction in chimney or cap screen.	Remove obstruction. Clean chimney and/or cap screen.	
Strong, gusting winds causing downdraft in chimney.	Install wind-resistant chimney cap.	
chinney.		
Tightly sealed house, inadequate air supply.	Open a window, slightly, near the appliance.	

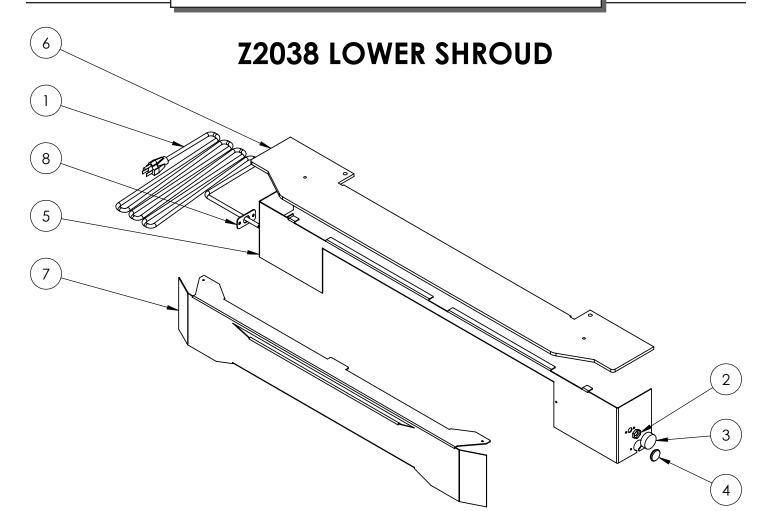
CAUSE

Turning the thermostat down, particularly in the first half of the burn cycle, causes the fire to emit more smoke, which is fuel for the combustor. The combustor temperature therefore climbs for up to several hours. This is normal, and is of no concern. As long as only the combustor temperature is elevated, there is nothing to worry about.

PROBLEM: Smoke spills from door opening when loading fuel		
CAUSESOLUTIONSpark arrestor screen on cap plugged.Clean spark arrestor screen to bare metal wire.		
Chimney too cold.	Make certain insulated liner is used in installation.	
Not enough vertical rise.	cal rise. Make certain sufficient vertical rise is observed.	
Chimney not drafting.	Turn thermostat to highest setting, open bypass, leave loading door closed and wait 5-10 minutes to increase chimney or flue temperature.	

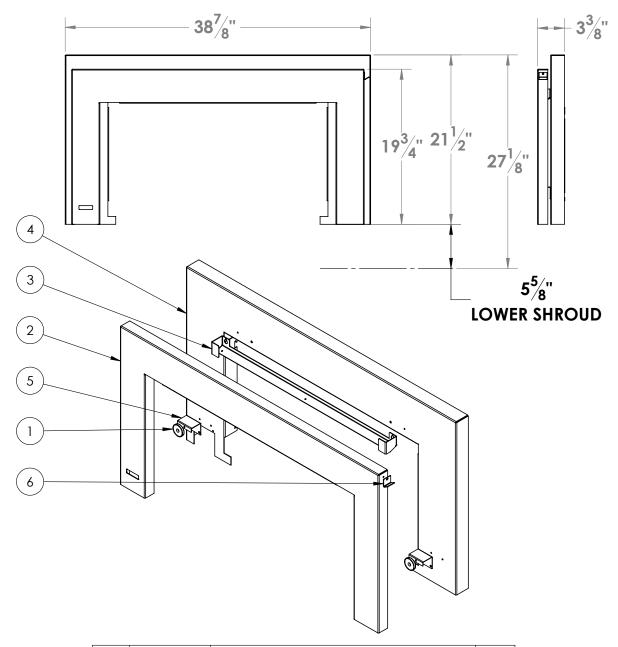


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	110.2060	CAST BYPASS LATCH	1
2	S.CAT2425	COMBUSTOR	1
3	120.0800	ANALOG CAT THERM	1
4	120.0800.1	3 3/8" x 36"L THERM PROBE	1
5	145.0136	RHEOSTAT WITH OFF SWITCH	1
6	150.0710.L	FAN CROSSFLW 120x47MM LEFT	1
7	150.0710.R	FAN CROSSFLOW 120x47MM RIGHT	1
8	200.0102	KNOB BLACK 1.5DX.75 HIGH	1
9	220.0137	RHEOSTAT KNOB SILVER INLAY	1
10	225.2054	25i FLUE EXTENSION	1
11	2030	Flame sheild grater 13.5 x 4	1
12	2049	SMOKE BAFFLE	1
13	2050	DOME GUARD	1
14	2055	Flue Collar 1/4 Ceram Paper Gasket	1
15	Z2015	FLUE COLLAR BASE ASSEMBLY	1
16	Z2019	25 BYPASS DOOR	1
17	Z2022	BYPASS GASKET RETAINER ASM	1
18	Z2052	BYPASS HANDLE ASM	1
19	Z3030	25 INSERT THERMOSTAT	1



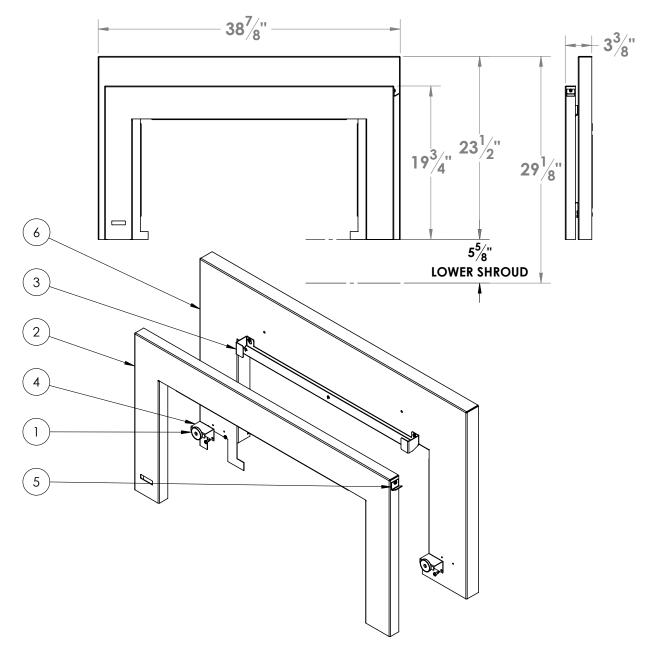
ITEM NO.	PART NUMBER	DESCRIPTION	
1	135.0161	WIRE PWR CORD SJT 8FT W/CNCTRS	1
2	145.0136.1	RHEOSTAT NUT	1
3	220.0137	RHEOSTAT KNOB BLACK SILVER LINE	1
4	485.2078	7/8" RUBBER PLUG	1
5	2037	LOWER SHROUD BODY	1
6	2038	LOWER SHROUD SHELF	1
7	2039	LOWER SHROUD COVER PANEL	1
8	2062	STRAIN RELIEFT MOUNT	1

Z2045 SHROUD UPPER SC25 27 1/8"



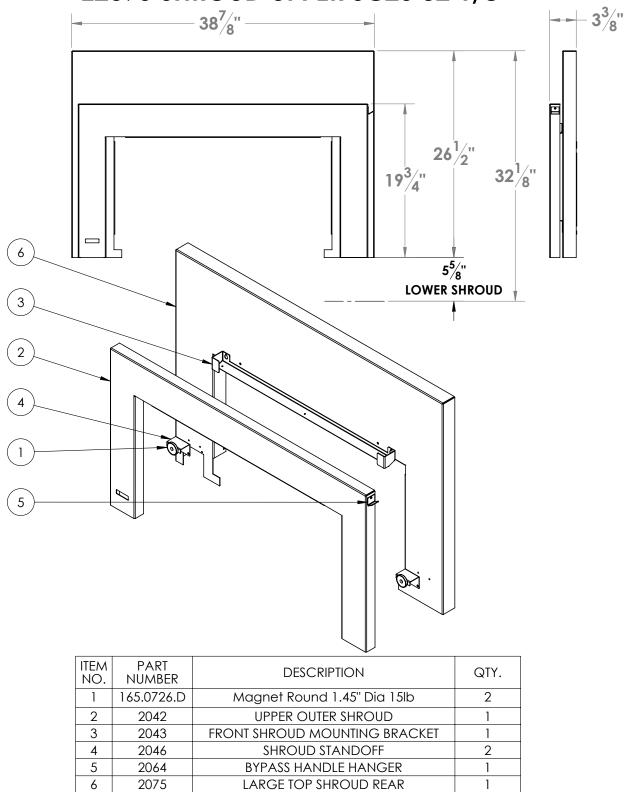
ITEM NO.	PART NUMBER	DESCRIPTION	
1	165.0726.D	Magnet Round 1.45" Dia 15lb	
2	2042	UPPER OUTER SHROUD	1
3	2043	FRONT SHROUD MOUNTING BRACKET	
4	2045	Small top Shroud rear	1
5	2046	SHROUD STANDOFF	2
6	2064	BYPASS HANDLE HANGER	1

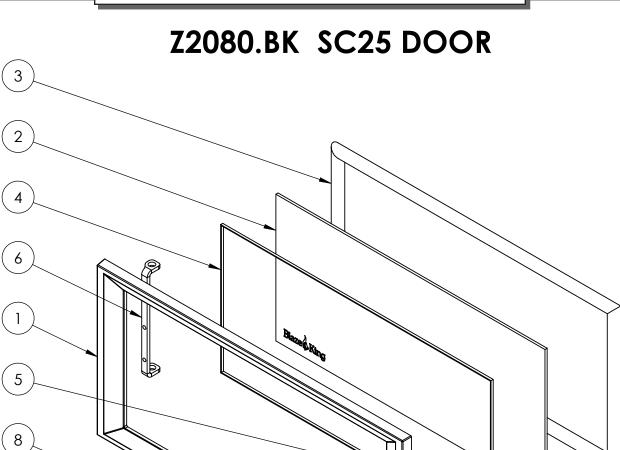
Z2070 SHROUD UPPER SC25 29 1/8"



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	165.0726.D	Magnet Round 1.45" Dia 15lb	2
2	2042	UPPER OUTER SHROUD	1
3	2043	FRONT SHROUD MOUNTING BRACKET	1
4	2046	Shroud standoff	2
5	2064	BYPASS HANDLE HANGER	1
6	2070	REGULAR TOP SHROUD REAR	1

Z2075 SHROUD UPPER SC25 32 1/8"

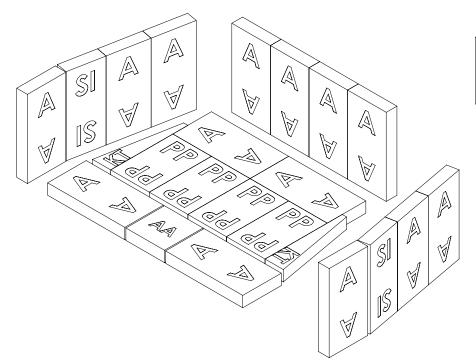


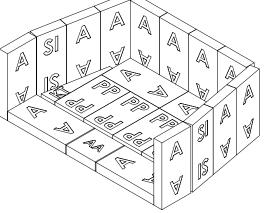


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	110.2080	SC25 CAST DOOR	1
2	130.0270	GLASS CERAMIC 5MM SC25	1
3	155.0186	GASKET 7/8 RND BLK MID / FT	
4	155.0254AS	GASKET 1/8 X 3/4 W/PSA SPEC / FT	
5	2016	DOOR HANDLE MOUNTING BRACKET	1
6	2020	CAST DOOR HINGE	1
8	Z2044	SC25 DOOR HANDLE	1

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REFRACTORY BRICK LAYOUT





ITEM NO.	PART NUMBER	QTY.
1	A Size Brick	14
2	AA Size Brick	1
3	KT Size Brick	2
4	PP Size Brick	4
5	SI Size Brick	2
	NO. 1 2 3 4	NO.NUMBER1A Size Brick2AA Size Brick3KT Size Brick4PP Size Brick

BLAZE KING WOOD LIMITED WARRANTY

Blaze King and Valley Comfort's respective brands extend the following warranty for wood fired appliances purchased from an authorized Blaze King / Valley Comfort dealer and installed in the United States of America or Canada. Warranty starts with date of purchase by the original owner (End User) except as noted for replacement parts.

Warranty Period		Components Covered		
Parts	Parts Labor			
1 Year		Х	All parts, materials and surface finishes (flaking and peeling) Subject to Conditions, Exclusion, and Limitations listed.	
2 Years		Х	Fan assemblies and motors, thermal sensors, catalytic thermometer, bi- metallic thermostat assembly, door handle metal components.	
5 Years	2 Years	х	Firebox & Heat Exchanger, Bypass Door Steel Components	
6 Years		х	Catalyst Combustor (see Conditions, Exclusions, and Limitations)	
1 Year		х	Other Replacement Parts	
See Conditions, Exclusions, and Limitations				

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Blaze King Wood Limited 5 Year Warranty

Blaze King is the manufacturer of the Blaze King line of heating products. At Blaze King, our commitment to the highest level of guality and customer service is the most important thing we do. Each Blaze King appliance is built on a tradition of using only the finest materials and is backed by our limited warranty to the original purchaser. With Blaze King, you're not just buying a appliance; you're buying a company with years of unequalled performance and quality.

Limited Six (6) Year Warranty:

The CATALYTIC COMBUSTOR is under warranty by Blaze King for six (6) years from the date of original retail purchase. The purchaser shall pay the following share of the then current retail price for the combustor: The first three (3) years no charge, 4th year 60%; 5th year 70%, 6th year 80%. The Combustor must be returned to your dealer along with a completed COMBUSTOR FAILURE REPORT and original proof of purchase document.

Limited (5) Year Warranty:

Under this warranty, Blaze King covers the appliance body and accessories against defects in materials and workmanship, for part repair or replacement for the first five (5) years *** to the original purchaser. This Warranty covers: All Steel firebox components against defects in material and workmanship. Please see the exclusions and limitation section below as certain restrictions and exclusions apply this warranty.

Limited Two (2) Year Warranty:

Under this warranty, Blaze King covers, fan assemblies, modular thermostat and door handle steel components against defects in materials and workmanship, for part repair or replacement and limited labor for the first two (2) years to the original purchaser. Please see the exclusions and limitation section below as certain restrictions and exclusions apply to this warranty.

Limited One (1) Year Warranty:

Under this warranty, Blaze King covers all parts and materials against defects in materials and workmanship including exterior paint finishes, for part repair or replacement and limited labor for the first year to the original purchaser. Please see the exclusions and limitation section below as certain restrictions and exclusions apply to this warranty.

How the Warranty Works

- 1. All warranties by the manufacturer are set herein and no claim shall be made against the manufacturer on any oral warranty or representation. All claims under this Limited Warranty must be made in writing by your dealer.
- Any appliance or part thereof that is repaired or replaced during the Limited Warranty period will be warranted under 2. the terms of the Limited Warranty for a period not exceeding the remaining term of the original Limited Warranty or six (6) months, whichever is longer.
- For any part or parts of this appliance, which in our judgment show evidence of defects, Blaze King reserves the 3. option to repair or to replace the defective part(s) through an accredited distributor or agent, provided the defective part is returned to the distributor or agent, transportation prepaid, if requested.
- **4**. If you discover a problem that you think may be covered by the Limited Warranty, you MUST REPORT it to your Blaze King dealer WITHIN 30 DAYS from the date the problem was first detected, giving them proof of purchase and the date of purchase. The dealer will investigate the problem and work with Blaze King to determine whether the problem: a) Is covered by the Limited Warranty or

 - b) Can be fixed in your home or does the product need to be returned to Blaze King for repair.
- If Blaze King determines that the appliance needs to be returned to Blaze King for repair, the customer has the 5. responsibility and the expense of removing it from their home and shipping it to Blaze King. If the problem is covered by the Warranty, Blaze King will repair or replace the item at their discretion and the customer will be responsible for return shipping and re-installation in their home.
- If the problem is not covered by the Limited Warranty, the customer will be responsible for all repair costs, as well as 6. all storage, shipping and the cost of removing and re-installing the appliance.

If you are not satisfied with the service provided by the Blaze King dealer, write to Blaze King at the address listed on the last page of the Owner's Manual. Include a copy of the original purchase invoice and a description of the problem.

WARRANTY

Exclusions and Limitations:

- 1. This Warranty does not cover tarnish, discoloration or wear on the plated surfaces Painted finishes will change color after initial firing and will continue to change through the lifetime of the appliance. This is normal occurrence for all high temperature coatings.
- 2. This Warranty does not cover gasket material or firebrick.
- 3. Blaze King strongly recommends installation by a certified installer. Failure to comply may adversely affect coverage under the terms of this warranty. This Limited Warranty covers defects in materials and workmanship only if the product has been installed in accordance with local building and fire codes; in their absence refer to the owner's manual. If the product is damaged or broken as a result of any alteration, wilful abuse, mishandling, accident, neglect, or misuse of the product, the Limited Warranty does not apply.
- 4. The appliance must be operated and maintained at all times in accordance with the instructions in the Owner's Manual. If the unit shows signs of neglect or misuse, it is not covered under the terms of this Warranty policy. Performance problems due to operator error will not be covered by the Limited Warranty policy. Some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, is not covered under this Limited Warranty.
- 5. Misuse includes over-firing. Over-firing can be identified later by warped plates and paint pigment being burnt off. Over-firing this appliance can cause serious damage and will nullify the Limited Warranty.
- 6. The Limited Warranty will cover glass thermal breakage only and will not cover misuse of the appliance glass, including but not limited to:

a) Glass that is struck, has surface contaminates or has had harsh or abrasive cleaners used on it.

b) If the door is slammed or is closed while wood in the firebox is protruding out the appliance opening thus striking the glass.

- 7. This warranty does not cover products made or provided by other manufacturers and used in conjunction with the operation of this appliance without prior authorization from Blaze King The use of such products may nullify the Limited Warranty on this appliance. If unsure as to the extent of this Limited Warranty, contact your authorized Blaze King dealer before installation.
- 8. Blaze King will not be responsible for inadequate performance caused by environmental conditions.
- 9. The Limited Warranty does not cover installation and operational related problems such as use of downdrafts or spillage caused by environmental conditions. Environmental conditions include but are not limited to nearby trees, buildings, roof tops, wind, hills, mountains, inadequate venting or ventilation, excessive offsets, negative air pressures or other influences caused by mechanical systems such as furnaces, fans, clothes dryers etc.
- 10. The Limited Warranty does not cover damage caused by burning salt-saturated wood, corrosive driftwood, chemically treated wood or any fuel not recommended in the Owner's Manual (use cord wood only).
- 11. The Limited Warranty is void if:
 - a) The appliance has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals.
 - b) The appliance is subject to submersion in water or prolonged periods of dampness or condensation.

c) Any damage to the unit, combustion chamber or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.

d) Salt air in coastal areas or high humidity can be corrosive to the finish; these environmental conditions can cause rusting. Damage caused by salt air or high humidity is not covered by the Limited Warranty.

- 12. Exclusions to the Limited 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, alteration, or act of God.
- 13. The Limited Warranty does not cover damage caused to the appliance while in transit. If this occurs, do not operate the appliance and contact your courier and/or dealer.
- 14. The Limited Warranty does not extend to or include paint, door or glass gaskets or firebricks damage caused by normal wear and tear, such as paint discoloration or chipping, worn or torn gaskets, chipped or cracked firebrick, etc.
- 15. The Limited Warranty does not include damage to the unit caused by abuse, improper installation, or modification of the unit.
- **16.** Damage to plated surfaces caused by fingerprints, scratches, melted items, or other external scores and residues left on the plated surfaces from the use of abrasive cleaners or polishes is not covered in this warranty.
- 17. Blaze King is free of liability for any damages caused by the appliance, as well as inconvenience expenses and materials. The Limited Warranty does not cover incidental or consequential damages.

WARRANTY

- 18. The Limited Warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the Blaze King appliance without the express written permission of Blaze King and bearing a Blaze King label of approval.
- **19.** Any statement or representation of Blaze King Products and their performance contained in Blaze King advertising, packaging literature, or printed material is not part of the Limited Warranty.
- **20.** The Limited 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 the Limited Warranty.
- 21. No dealer, distributor, or similar person has the authority to represent or warrant Blaze King Products beyond the terms contained within the Limited Warranty. Blaze King assumes no liability for such warranties or representations.
- 22. Blaze King will not cover the cost of the removal or re-installation of the appliance, hearth, facing, mantels, venting or other components.
- 23. Labor to replace or repair items under this Limited Warranty will be covered per our warranty service fee reimbursement and labor rates are set per component schedule. Labor rates vary from location to location and as such total labor costs may not be covered. Please consult with your dealer or service technician for any additional charges such as travel time or additional labor charges that may apply.
- 24. For parts of the Blaze King wood appliance or fireplace insert warranted beyond the first year, the five year limited warranty will have the same obligations as described in this document, provided, however that the purchaser shall pay the following percentage of the then current retail cost of the repair or the replacement, according to the year after purchase in the which the defect is brought to the attention of Blaze King.*** During the 2nd year----purchaser pays 20%. 3rd year ----purchaser pays 40%. 4th year -----purchaser pays 60%. 5th year---- purchaser pays 80%.
- 25. If a defect or problem is determined by Blaze King to be non warrantable, Blaze King is not liable for travel costs for service work. In the event of in-home repair work, the customer will pay any in-home travel fees or service charges required by the Authorized Dealer.
- 26. At no time will Blaze King be liable for any consequential damages which exceed the purchase price of the unit. Blaze King has no obligation to enhance or modify any appliance once manufactured (example: as a appliance model evolves, field modifications or upgrades will not be performed).
- 27. This Limited Warranty is applicable only to the original purchaser and it is nontransferable.
- 28. This warranty only covers Blaze King Products that are purchased through an authorized Blaze King dealer.
- 29. If for any reason any section of the Limited Warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect.
- 30. The Limited Warranty is the only warranty supplied by Blaze King, the manufacturer of the appliance. All other warranties, whether express or implied, are hereby expressly disclaimed and the purchaser's recourse is expressly limited to the Limited Warranty.
- **31.** Blaze King and its employees or representatives will not assume any liability for damages, either directly or indirectly, caused by improper usage, operation, installation, servicing or maintenance of this appliance.
- **32.** Blaze King reserves the right to make changes without notice. Please complete and mail the warranty registration card and have the installer fill in the installation data sheet in the back of the manual for warranty and future reference.
- **33.** Blaze King is responsible for stocking parts for a maximum of seven (7) years after discontinuing the manufacture or incorporation of the item into its products. An exception to this would be if an OEM supplier is not able to supply a part.
- 34. "Installation into unfinished or uninsulated basements often forces the user to operate the appliance continuously at peak output or over-fire in an effort to overcome heat loss. Blaze King does not recommend such installations. Doing so may adversely affect the appliance and therefore coverage under the terms of this limited warranty."

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Installer: Please complete the following information		
Dealer Name & Address:		
Installer (print):		
Installer (sign):		
Phone #:		
Date Installed:		
Serial No.:		