

WOOD STOVE OWNER'S MANUAL

**MODELS:
FF-WP-100
FF-WP-200
FF-WP-300**



woodpro
BY FORGE & FLAME

Find helpful videos
and information on our
Getting Started page

Scan Here



A. Sample of Serial Number / Safety Label

LOCATION: Back of appliance

CAUTION: HOT WHILE IN OPERATION DO NOT TOUCH, KEEP CHILDREN AND CLOTHING AWAY. CONTACT MAY CAUSE SKIN BURNS. KEEP FURNISHINGS AND OTHER COMBUSTIBLE MATERIAL FAR AWAY FROM THE APPLIANCE. SEE NAMEPLATE AND INSTRUCTIONS

ATTENTION: CHAUD LORS DE L'OPÉRATION. NE PAS TOUCHER. GARDEZ LES ENFANTS ET LES VÊTEMENTS LOIN DE L'ESPACE DÉSIGNÉ DE L'INSTALLATION. LE CONTACT PEUT CAUSER DES BRÛLURES À LA PEAU. GARDEZ LES MEUBLES ET LES MATÉRIEL COMBUSTIBLES LOIN DE L'ESPACE DÉSIGNÉ DE L'APPAREIL. VOIR L'ÉTIQUETTE ET LES INSTRUCTIONS.

BY FORGE + FLAME

TESTED TO / TESTÉ À:
ASTM E2515, UL 1482-11 (R2015), ULC 8627-00

Serial No. / N° de série

VN

BARCODE LABEL

FF-WP-300

LISTED ROOM HEATER, SOLID FUEL TYPE. ALSO FOR USE IN MOBILE HOMES. (UM) 84 HUD / APPAREIL DE CHAUFFAGE DE PIÈCE, DE TYPE DE COMBUSTIBLE SOLIDE, POUR USAGE DANS LES MAISONS MOBILES. (UM) 84 HUD. Pour Usage Avec Bois Solide Seulement. To be installed as a freestanding room heater with the clearances in the manufacturer's installation instructions. Not to be installed in any factory-built fireplace / À installer comme radiateur d'ambiance autonome avec les dégagements indiqués dans les instructions d'installation du fabricant. Ne pas installer dans un foyer préfabriqué.

PREVENT HOUSE FIRES / PRÉVENTION DES FEUX DE MAISON

Install and use only in accordance with manufacturer's installation and operating instructions. Contact local building or fire officials about restrictions and installation inspections in your area. Do not obstruct the space beneath heater. For use only with leg and pedestal options intended for this model, refer to owner's manual for appropriate part numbers and installation instructions.

WARNING: For Mobile Homes: Do not install in a sleeping room. An outside combustion air inlet must be provided and unrestricted while unit in use. The structural integrity of the mobile home floor, ceiling and walls must be maintained. The stove needs to be properly grounded to the frame of the mobile home. Components require for mobile home installation: Outside Air Kit, Part Number OAK-ACC. Refer to manufacturer's instructions and local codes for precautions required for passing chimney through a combustible wall or ceiling and maximum offsets. Inspect and clean chimney frequently - Under Certain Conditions of Use, Creosote Buildup May Occur Regularly. Do not connect this unit to a chimney serving another appliance. Optional Components: Replace glass only with 5mm ceramic. Do not use grate or elevate fire. Build wood fire directly on hearth. Do not overfire - if heater or chimney connector gloves, you are overfiring. Operate only with the fuel loading door closed. Open only to add fuel to the fire. / Installez et utilisez en accord avec les instructions d'installation et d'opération du fabricant. Contactez le bureau de la construction ou le bureau des incendies au sujet des restrictions et des inspections d'installation dans votre voisinage. Ne pas obstruer l'espace en dessous de l'appareil. AVIS - Pour Les Maisons Mobiles: Ne pas installer dans une chambre à coucher. Un tuyau extérieur de combustion d'air doit être installé et ne doit pas être obstrué lorsque l'appareil est en usage. La structure intégrale du plancher, du plafond et des murs de la maison mobile doit être maintenue intacte. L'appareil de chauffage doit être fixé à la charpente de la maison mobile. Les composants requis pour l'installation des maisons mobiles: Assemblage d'air extérieur, Numéro de Pièce OAK-ACC. Référez vous aux instructions du fabricant et des codes locaux pour les précautions requises pour passer une cheminée à travers un mur ou un plafond combustibles, et les compensations maximums. Inspectez et nettoyez la cheminée fréquemment. Sous certaines conditions, il se peut que la croûte s'accumule rapidement. Ne pas connecter cet appareil à une cheminée servant un autre appareil. Composants Optionnels: Remplacez le verre uniquement par de la céramique de 5 mm. N'élevez pas le feu. Bâillez le feu de bois directement sur le foyer. Ne pas surchauffer. Si l'appareil de chauffage ou le tuyau de cheminée exigent, vous surchauffez. Opérez l'appareil seulement lorsque la porte de chargement est fermée. Ouvrez la porte seulement lorsque vous devez ajouter des combustibles dans le feu.

EMBER PROTECTION: It is necessary to install a Type I floor protector. Floor protector must be non-combustible material, extending beneath appliance and to front/rear as indicated on the diagram below. Exception: Non-combustible floor protections must extend beneath the flue pipe when installed with horizontal venting and extend 2 inches (51mm) beyond each side.

PROTECTION DU PLANCHER: Le protecteur de plancher doit être d'un minimum de 3/8" (10mm) d'épaisseur de matériel incombustible ou équivalent s'étendant du dessous de l'appareil à l'avant et à l'arrière, comme indiqué sur le diagramme ci-dessous. Exception: Les protections de plancher incombustibles doivent s'étendre sous l'installation à l'horizontale de 2" (51mm) de part et d'autre.

VENT SPECIFICATIONS: / SPÉCIFICATIONS DE LA VENTILATION:

SINGLE WALL: Six inch (6 inches) (152mm) diameter, minimum 24 MSG black or blued steel connector pipe with solid fuels, or a masonry chimney, and the referenced clearances. / **MUR SIMPLE:** De six (6 inches) (152mm) de diamètre, le connecteur du conduit d'air isolé pour mur double avec une cheminée bâtit en usine UL103HT* de Classe "A", adéquate pour usage avec les combustions solides, ou une cheminée de briques, avec les espaces libres référés.

DOUBLE WALL: Six inch (6 inches) (152mm) diameter, listed double wall air insulated connector pipe with listed factory-built UL103HT* Class "A" chimney, or a masonry chimney and the referenced clearances. / **MUR DOUBLE:** De six (6 inches) (152mm) de diamètre, le connecteur du conduit d'air isolé pour mur double avec une cheminée bâtit en usine UL103HT* de Classe "A", ou une cheminée de briques, avec espaces libres alloués.

MOBILE HOME: Use double wall pipe by Dura-Vent DVL, Selkirk Metalbestos DS or Security DL double wall connector pipe. Must be equipped with a spark arrestor. Apply double wall clearances below when installing unit. / **MAISON MOBILE:** Utiliser un conduit de mur double par Dura-Vent DVL, Selkirk Metalbestos DS ou Security DL. Doit être équipé d'un arrêt d'étincelle. Utiliser les espaces libres pour mur double comme mentionné ci-haut.

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS: In inches & (Millimètres) / **ESPACES LIBRES MINIMUM DES MATÉRIEL COMBUSTIBLES:** En Pouces & (Millimètres)

NOTE: All "A", "C" and "F" Dimensions are to inside diameter of the flue collar. / **NOTE:** Toutes les dimensions "A", "C", et "F" sont à partir du diamètre intérieur de l'entrée du conduit.

INSTALLATION: FULL VERTICAL OR HORIZONTAL WITH MINIMUM 2 FT VERTICAL OFF STOVE TOP / INSTALLATION: ENTièrement VERTICALE OU HORIZONTALE AVEC UN VERTICAL MINIMUM DU HAUT DU POÊLE

	A	B	C	D	E	F	G	H
SINGLE WALL PIPE / TUYAU MURAL À AILES	11.75 (300)	27.5 (699)	14.5 (368)	8 (203)	20.5 (521)	53.5 (1359)	12 (305)	
FF-WP-300								
DOUBLE WALL PIPE / CONDUIT DU MUR DOUBLE	12 (305)	27.5 (699)	14.5 (368)	8 (203)	20.5 (521)	53.5 (1359)	12 (305)	
FF-WP-300								
INSTALLATION: 90° ELBOW OFF STOVE TOP / INSTALLATION: 90° DU COURBURE AU DESSUS DE HAUT DU POÊLE À TRAVERS LE MUR ARRIÈRE	11.5 (293)	27.5 (699)	14.5 (368)	8 (203)	20.5 (521)	53.5 (1359)	N/A	
FF-WP-300								
INSTALLATION: 90° ELBOW OFF STOVE TOP / INSTALLATION: 90° DU COURBURE AU DESSUS DE HAUT DU POÊLE À TRAVERS LE MUR ARRIÈRE	16 (406)	9.375 (238)	27 (686)	13.875 (352)	N/A	N/A	53.5 (1359)	12 (305)
FF-WP-300								

BACKWALL / SIDEWALL / MUR ARRIÈRE / MUR DE CÔTÉ

CORNER INSTALLATION / INSTALLATION DU CON

ALCOVE TOP VIEW / VUE DU HAUT DE L'ALCÔVE

ALCOVE SIDE VIEW / VUE DE CÔTÉ DE L'ALCÔVE

UP & OUT CEILING CLEARANCE / ESPACE LIBRE DU DESSUS DE L'APPAREIL AU PLAFOND AVEC 90° DE COURBURE

STOVE TO CEILING CLEARANCE / ESPACE LIBRE DU POÊLE AU PLAFOND

Manufactured by: HEARTH HOME TECHNOLOGIES

352 Mountain House Road, Halifax, PA 17032 www.forgenflame.com

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards at 15 g/hr EPA Method 28 and 5G. 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.

Made in Vietnam / Fabriqué au Vietnam

YEAR CODE

20	21	22	23	24	25	26	27	28
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Date of Manufacture / Date de fabrication:

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
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DO NOT REMOVE THIS LABEL / NE PAS ENLEVER L'ÉTIQUETTE

Serial No.

Safety & Emissions Test Report Name

Test Lab & Report Numbers

Mfg. Date

NOTE: Clearances may only be reduced by means approved by the regulatory authority having jurisdiction

2

WoodPro Wood Stove • 8390-086B • 09/25

ForgenFlame.com



Safety Alert Key:

- **DANGER!** Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- **WARNING!** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- **CAUTION!** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE:** Indicates practices which may cause damage to the appliance or to property.

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→ = Contains updated information



Register your product online to stay informed with important updates and essential product information.

<https://myhht.my.site.com/registration/forge-n-flame>

WoodPro by Forge & Flame is a registered trademark of Hearth & Home Technologies.

B. Warranty Policy

Hearth & Home Technologies, LLC

WoodPro Limited Warranty

Hearth & Home Technologies, LLC (HHT), on behalf of its WoodPro brand, extends the following warranty for WoodPro stoves purchased from an authorized retailer.

If you experience issues with your WoodPro stove, Consumer Care is available to assist you with troubleshooting technical issues.

This warranty covers components of the WoodPro stoves as listed in the table below.

Warranty Coverage:

Subject to the table below, HHT warrants to the owner of the WoodPro stove that the stove will be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components are found to be defective in materials or workmanship during the applicable warranty period, HHT will replace the covered components. HHT, at its own discretion, may fully discharge all of its obligations under such warranties by replacing the product itself or refunding the verified purchase price of the product itself. The maximum amount recoverable under this warranty is limited to the purchase price of the product. This warranty is subject to conditions, exclusions, and limitations as described below.

Warranty Period: Warranty coverage begins on the date of original purchase. The warranty period for covered components is as follows:

Components Covered	Warranty Period (Parts only, Labor not included)
Steel Parts	5 Years
All steel replacement parts are covered for remainder of original 5-year warranty period or 90 days, whichever is longer.	90 Days

Parts Service & Returns: HHT is proud to offer the best technical and sales support in the industry. If you have any questions about how to operate your stove or if you need service parts, please visit ForgenFlame.com.

Warranty Exclusions: Warranty does not cover damage or breakage due to product misuse, improper handling or modifications. There is no warranty on the paint, glass, fire pot, fire brick, or any gaskets, or against damage caused from corrosion. There is no expressed or implied performance warranty on WoodPro units as HHT has no control over the installation, operation, cleaning, maintenance, or type of fuel burned.

Warranty is void if the WoodPro stove has not been installed, operated, cleaned and maintained in strict accordance with the guidance and instructions in the product manual.

THE REMEDIES DESCRIBED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND WHAT IS DESCRIBED HEREIN. HHT'S ENTIRE LIABILITY FOR ANY BREACH OF THIS LIMITED WARRANTY SHALL UNDER NO CIRCUMSTANCES EXCEED THE ACTUAL AMOUNT PAID FOR THE PRODUCT, NOR SHALL HHT UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES OR LOSSES, WHETHER DIRECT OR INDIRECT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

C. Quick Start Guide

Set-Up and First Fire

Note: These are generic drawings and may not represent your specific model.

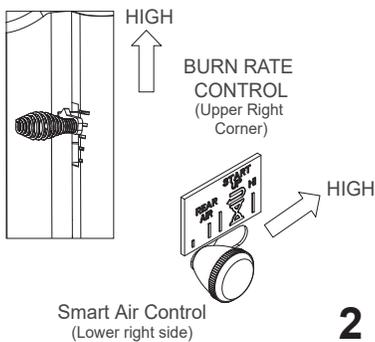
Items needed for first fire: 10 Pieces of Newspaper, 10-20 Pieces of Dry Kindling and Few Pieces of Dry Split Wood.



Prior to first fire be sure to remove all packaging and labeling. Follow all clearance guidelines and read all safety warnings.

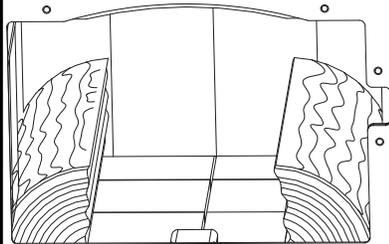
1

OPEN AIR CONTROLS



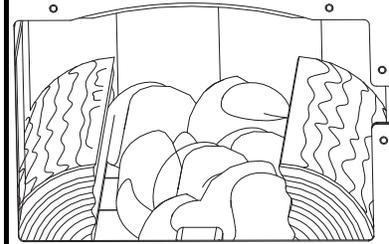
2

LOAD WOOD



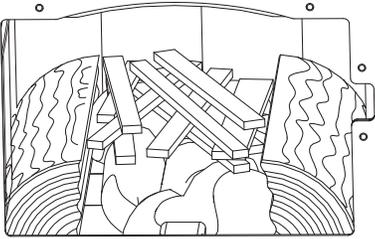
3

ADD NEWSPAPER



4

ADD KINDLING



LIGHT THE PAPER

5

⚠ Warning! Risk of Fire.

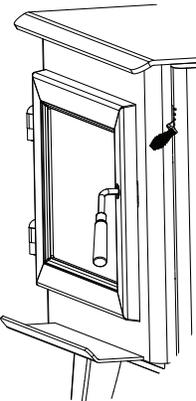
Close and securely latch the door after the fire has started, and after refueling, to prevent:

- Spillage of smoke, flame and carbon monoxide
- Spillage of sparks, coals, and logs
- Overfiring

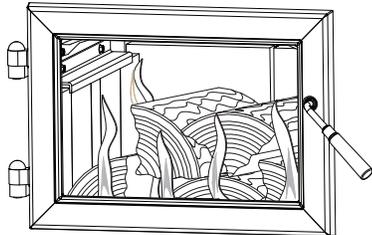
DO NOT leave the appliance unattended with the door open.

Starting a fire may not require an open door for draft. The air control should supply adequate draft.

6



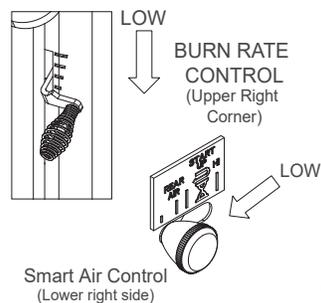
ADD MORE WOOD



7

REDUCE AIR CONTROLS

Set to desired heat output.



8

The appliance is ready for normal operation.

A. Appliance Certification

Model Number:	FF-WP-100
Laboratory:	PFS-TECO
Report Number:	25-408
Type:	Listed Room Appliance, Solid Fuel Type
Standard:	UL1482, ULC S627 and (UM) 84-HUD. Mobile Home Approved.

Model Number:	FF-WP-200
Laboratory:	PFS-TECO
Report Number:	24-338
Type:	Listed Room Appliance, Solid Fuel Type
Standard:	UL1482, ULC S627 and (UM) 84-HUD. Mobile Home Approved.

Model:	FF-WP-300
Laboratory:	PFS-TECO
Report Number:	25-409
Type:	Listed Room Appliance, Solid Fuel Type
Standard:	UL1482, ULC S627 and (UM) 84-HUD, Mobile Home Approved.

The WP-100, WP-200, WP-300 are Certified to comply with 2020 crib wood particulate emission standards.



This wood appliance 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.

NOTE: This installation must conform with local codes. In the absence of local codes you must comply with **(UM) 84-HUD and NFPA211 in the U.S.A. and CAN/CSA-B365 Installation Codes in Canada.**

This room heater shall not be installed in a factory built fireplace.

B. BTU & Efficiency Specifications

Model:	FF-WP-100
EPA Certification #:	250-20
EPA Certified Emissions:	1.7 grams per hour
HHV Tested Efficiency:	76.1%
EPA BTU Output:	13,590 to 29,320 / hr.
Peak BTU/Hour Output:	44,400
Vent Size:	6 inches
Firebox Size:	1.48 cubic feet
Recommended Log Length:	16 inches
Fuel:	Seasoned Cord Wood (20% moisture)

Model:	FF-WP-200
EPA Certification #:	86-17
EPA Certified Emissions:	1.9 grams per hour
HHV Tested Efficiency:	72.5%
EPA BTU Output:	13,950 to 29,080 / hr
Peak BTU/Hour Output:	51,000
Vent Size:	6 inches
Firebox Size:	1.89 cubic feet
Recommended Log Length:	16 inches
Fuel:	Seasoned Cord Wood (20% moisture)

Model:	FF-WP-300
EPA Certification #:	247-20
EPA Certified Emissions:	1.6 grams per hour
HHV Tested Efficiency:	74.2%
EPA BTU Output:	13,240 to 36,760 / hr.
Peak BTU/Hour Output:	61,700
Vent Size:	6 inches
Firebox Size:	2.26 cubic feet
Recommended Log Length:	18 inches
Fuel:	Seasoned Cordwood (20% moisture)

C. Glass Specifications

This appliance is equipped with 5mm ceramic glass. Replace glass only with 5mm ceramic glass.

D. Mobile Home Approved

- This appliance is approved for mobile home installations when not installed in a sleeping room and when an outside combustion air inlet is provided.
- The structural integrity of the mobile home floor, ceiling, and walls must be maintained.
- The appliance must be properly grounded to the frame of the mobile home with #8 copper ground wire, and chimney must be listed to UL103 HT or a listed UL-1777 full length six inch (152mm) diameter liner must be used.
- Outside Air Kit, part OAK-ACC must be installed in a mobile home installation. **Note:** Shipping brackets are also used as Mobile Home brackets.

E. Sleeping Room

When installed in a sleeping room it is recommended that a smoke and/or CO alarm be installed in the bedroom. The size of the room must be at least 50ft³ per 1,000 Btu/hr stove input, if the stove exceeds the room size, outside air must be installed.

F. California - Prop65

 **WARNING**

This product and the fuels used to operate this product (wood), and the products of combustion of such fuels, can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to: WWW.P65Warnings.ca.gov

 **WARNING**



Fire Risk.
Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance.
- Modification of the appliance.
- Installation other than as instructed by Hearth & Home Technologies.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.
- Operating appliance without fully assembling all components.
- Operating appliance without legs attached (if supplied with appliance).
- Do NOT OVERFIRE - If appliance or chimney connector glows, you are overfiring.

Any such action that may cause a fire hazard.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage.

For assistance or additional information, consult a qualified installer or service agency.

NOTE: Hearth & Home Technologies, manufacturer of this appliance, reserves the right to alter its products, their specifications and/or price without notice.

A. Overfiring Your Appliance



WARNING



Fire Risk. Do not overfire.

Overfiring may ignite creosote or will damage the appliance and chimney.

To prevent overfiring your appliance, DO NOT:

- Use flammable liquids
- Overload with wood
- Burn trash or large amounts of scrap lumber
- Permit too much air to the fire

1. Symptoms of Overfiring

Symptoms of overfiring may include one or more of the following:

- Chimney connector or appliance glowing
- Roaring, rumbling noises
- Loud cracking or banging sounds
- Metal warping
- Chimney fire

2. What To Do if Your Appliance is Overfiring

- Immediately close the door and air controls to reduce air supply to the fire.
- If you suspect a chimney fire, call the fire department and evacuate your house.
- Contact your local chimney professional and have your appliance and appliance pipe inspected for any damage.
- Do not use your appliance until the chimney professional informs you it is safe to do so.

Hearth & Home Technologies WILL NOT warranty appliances that exhibit evidence of overfiring. Evidence of overfiring includes, but is not limited to:

- Warped air tube
- Deteriorated refractory brick retainers
- Deteriorated baffle and other interior components

B. Wood Selection & Storage

Burn only dry seasoned wood. Store wood under cover, out of the rain and snow. Dry and well-seasoned wood will not only minimize the chance of creosote formation, but will give you the most efficient fire. Even dry wood contains at least 15% moisture by weight, and should be burned hot enough to keep the chimney hot for as long as it takes to dry the wood out - about one hour. It is a waste of energy to burn unseasoned wood of any kind.

Dead wood lying on the forest floor should be considered wet, and requires full seasoning time. Standing dead wood can be considered to be about 2/3 seasoned. To tell if wood is dry enough to burn, check the ends of the logs. If there are cracks radiating in all directions from the center, it is dry. If your wood sizzles in the fire, even though the surface is dry, it may not be fully cured.

Splitting wood before it is stored reduces drying time. Wood should be stacked so that both ends of each piece are exposed to air, since more drying occurs through the cut ends than the sides. This is true even with wood that has been split. Store wood under cover, such as in a shed, or covered with a tarp, plastic, tar paper, sheets of scrap plywood, etc., as uncovered wood can absorb water from rain or snow, delaying the seasoning process.

C. Burning Process

In recent years there has been an increasing concern about air quality. Much of the blame for poor air quality has been placed on the burning of wood for home heating. In order to improve the situation, we at Forge & Flame have developed cleaner-burning wood appliances that surpass the requirements for emissions established by our governing agencies. These wood appliances, like any other appliances, must be properly operated in order to insure that they perform the way they are designed to perform. Improper operation can turn most any wood appliance into a smoldering environmental hazard.

1. **Kindling or First Stage:** It helps to know a little about the actual process of burning in order to understand what goes on inside a appliance. The first stage of burning is called the kindling stage. In this stage, the wood is heated to a temperature high enough to evaporate the moisture which is present in all wood. The wood will reach the boiling point of water (212°F) and will not get any hotter until the water is evaporated. This process takes heat from the coals and tends to cool the appliance.

Fire requires three things to burn; fuel, air and heat. So, if heat is robbed from the appliance during the drying stage, the new load of wood has reduced the chances for a good clean burn. For this reason, it is always best to burn dry, seasoned firewood. When the wood isn't dry, you must open the air controls and burn at a high burn setting for a longer time to start it burning. The heat generated from the fire should be warming your home and establishing the flue draft, not evaporating the moisture out of wet, unseasoned wood, resulting in wasted heat.

2. **Second Stage:** The next stage of burning, the secondary stage, is the period when the wood gives off flammable gases which burn above the fuel with bright flames. During this stage of burning it is very important that the flames be maintained and not allowed to go out. This will ensure the cleanest possible fire. If the flames tend to go out, it is set too low for your burning conditions. The air control located at the upper right hand corner is used to adjust for burn rates. This is called the Burn Rate Air Control (Figure 9.1).
3. **Final Stage:** The final stage of burning is the charcoal stage. This occurs when the flammable gases have been mostly burned and only charcoal remains. This is a naturally clean portion of the burn. The coals burn with hot blue flames.

It is very important to reload your appliance while enough lively hot coals remain in order to provide the amount of heat needed to dry and rekindle the next load of wood. It is best to open the Burn Rate Air and Smart Air Controls before reloading. This livens up the coal bed and reduces excessive emissions (opacity/smoke). Open door slowly so that ash or smoke does not exit appliance through opening. You should also break up any large chunks and distribute the coals so that the new wood is laid on hot coals.

Air quality is important to all of us, and if we choose to use wood to heat our homes we should do so responsibly. To do this we need to learn to burn our appliances in the cleanest way possible. Doing this will allow us to continue using our wood appliances for many years to come.

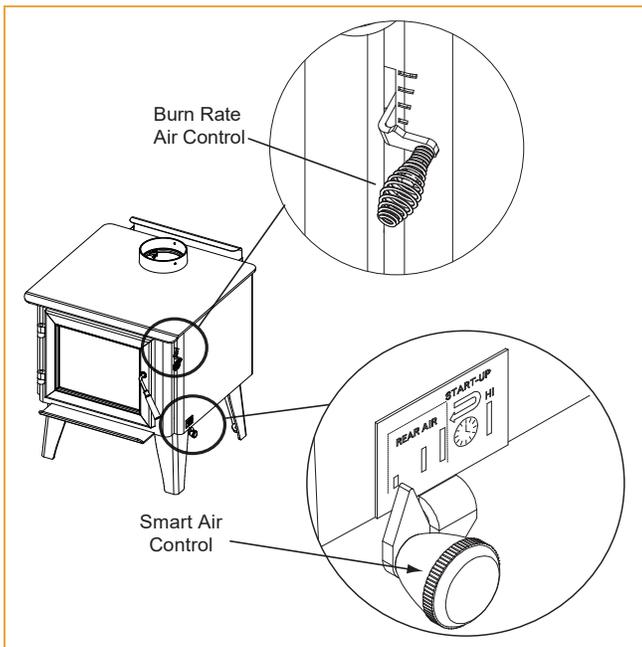


Figure 9.1

D. Burn Rates and Operating Efficiency

For maximum operating efficiency

This wood appliance 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 appliance in a manner inconsistent with operating instructions in this manual.

- Burn dry, well-seasoned wood.

Burn Rates

1. Low burn setting:

- Burn Rate Air Control spring handle up to high position for 5 minutes.
- Then activate the Smart Air Control by pushing the knob all the way back toward the appliance to “HI” then pull forwards towards the front of the appliance until the knob stops (**Figure 9.1**).
- At that point close the Burn Rate Air Control by moving the spring handle to the low setting.

2. Medium low burn setting:

- Burn Rate Air Control spring handle up to high position for 5 minutes.
- Then activate the Smart Air Control by pushing the knob all the way back toward the appliance to “HI” then pull forwards towards the front of the appliance until the knob stops.
- At that point move the Burn Rate Air Control spring handle to 1/8”-1/2” from the low setting.

3. Medium high burn setting:

- Burn Rate Air Control spring handle up to high position.
- Then activate the Smart Air Control by pushing the knob all the way back toward the appliance to “HI” then pull forwards towards the front of the appliance until the knob stops.
- At that point move the Burn Rate Air Control spring handle to 1/2” – high.

4. High burn setting:

- Burn Rate Air Control spring handle up to high position
- Also activate Smart Air Control knob pushed back to the “HI” position.

Surface Thermometer is a Valuable Guide to Operation

A surface thermometer tells you when to adjust the air control, and when to refuel.

For example, when the thermometer registers at least 450°F (230°C) on the stove top after start-up you know the stove is hot enough and it may be time to adjust the air control if a sufficient ember bed has also been established. Note that the stove will warm up much sooner than the chimney, though; a warm chimney is the key to easy, effective stove operation. When thermometer readings drop below 350°F. (175°C) it's time to adjust the air control for a higher burn rate or to reload the stove. A temperature reading over 650°F. (340°C) is a sign to reduce the air supply to slow the burn rate.

Use the following temperature ranges as a guide:

- Readings in the 350°-500°F. (175°-260°C) range indicate low to medium heat output.
- 500°-600°F. (260°-315°C) readings indicate medium heat output.
- Readings of 600°-650°F. (315-340°C) indicate high heat output. Operating your wood stove continuously at stove top temperatures higher than 650° F (340°C) may damage your wood stove.

NOTE: The above information is provided as a guideline only. Altitude and other circumstances may require control adjustments to achieve the desired burn rates.

NOTE: Operate appliance on High Burn 45 minutes a day to help keep flue/chimney clean.

! WARNING



Risk of Fire.
When set on High Burn Rate and overriding the Smart Air Control system an over fire situation can occur and may result in a chimney fire.
Over firing will void the appliance warranty.

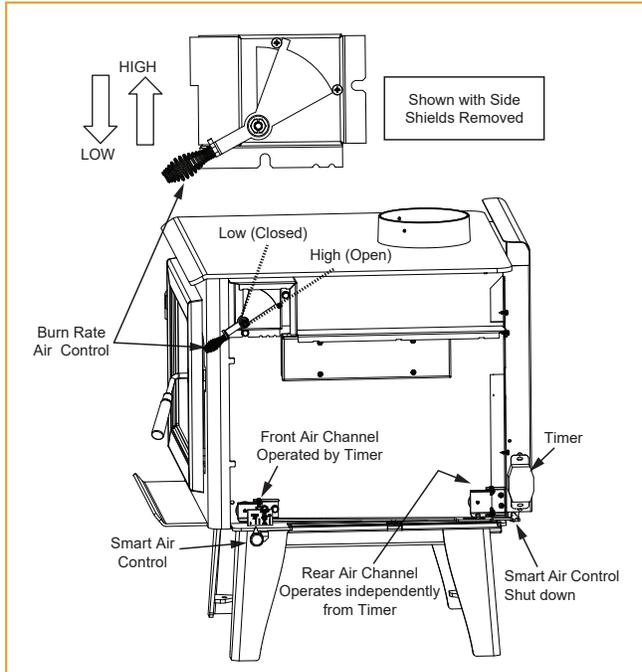


Figure 10.1

After activating the timer (Smart Air Control), if the control is placed within the rear air section on the label it will allow rear air to enter the firebox. This will not interfere with the timer gradually closing the front air channel in 25 minutes. If the control is set to "HI", it overrides the Smart Air Control timer and keeps the front air channel from closing.

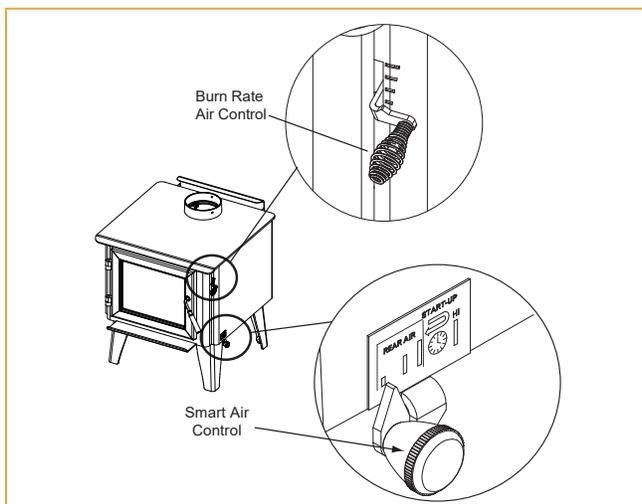


Figure 10.2

! CAUTION



Injury Risk.
• Gloves recommended

Manual Timer Override: If you need to shut the Smart Air Control off before it goes through the cycle of shutting itself off; 25 minutes, reach towards the back of the appliance on the right side and pull the lever towards the front of the appliance (**Figure 10.3**).

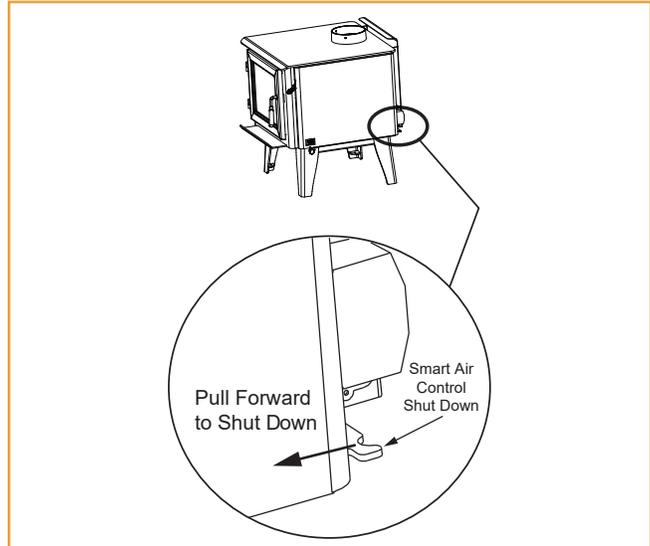


Figure 10.3

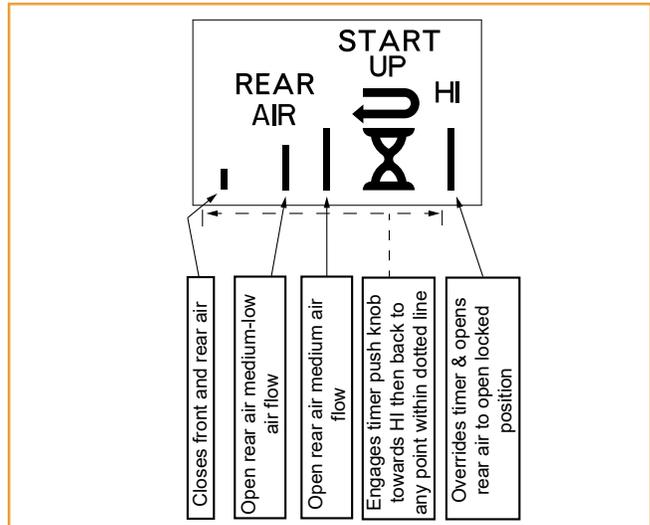


Figure 10.4

E. Building A Fire

Before lighting your first fire in the appliance:

NOTE: The special high temperature paint that your appliance is finished with will cure as your appliance heats. You will notice an odor and perhaps see some vapor rise from the appliance surface; this is normal. We recommend that you open a window until the odor dissipates and paint is cured.

1. Confirm the baffle is correctly positioned. It should be even with the front tube and resting on all tubes (**Figure 11.1 and Figure 11.2**).

2. Remove all labels from glass and inside of appliance.

There are many ways to build a fire. The basic principle is to light easily-ignitable tinder or paper, which ignites the fast burning kindling, which in turn ignites the slow-burning firewood. Here is one method that works well:

1. Open the Burn Rate Air and Smart Air Control fully (Refer to the **Quick Start Guide**).

2. Place several wads of crushed paper on the firebox floor. Heating the flue with slightly crumpled newspaper before adding kindling keeps smoke to a minimum.

3. Lay small dry sticks of kindling on top of the paper.

4. Make sure that no matches or other combustibles are in the immediate area of the appliance. Be sure the room is adequately ventilated and the flue unobstructed.

5. Light the paper in the appliance. **NEVER** light or rekindle fire with kerosene, gasoline, or charcoal lighter fluid; the results can be fatal.

6. Once the kindling is burning quickly, add several full-length logs 3 inches (76mm) or 4 inches (102mm) in diameter. Be careful not to smother the fire. Stack the pieces of wood carefully; near enough to keep each other hot, but far enough away from each other to allow adequate air flow between them.

7. Set the Burn Rate Air Control and activate the Smart Air Control.

8. When ready to reload, It is best to fully open both the Burn Rate Air and Start-up Air Controls **before reloading**. This livens up the coal bed and reduces excessive emissions (opacity/smoke). Open door slowly so that ash or smoke does not exit appliance through opening. Large logs burn slowly, holding a fire longer. Small logs burn fast and hot, giving quick heat.

9. As long as there are hot coals, repeating steps 6 through 8 will maintain a continuous fire.



WARNING



Fire Risk.

- Do not leave the fire unattended when the door is unlatched.
- Unstable firewood could fall out of the firebox creating a fire hazard to your home.

NOTE:

- Build fire on brick firebox floor.
- Do NOT use grates, andirons or other methods to support fuel. It will adversely affect emissions.



WARNING



Fire Risk.

Do NOT store wood:

- Closer than required clearances to combustibles to appliance
- Within space required for loading or ash removal.

Do NOT operate appliance:

- With appliance door open.

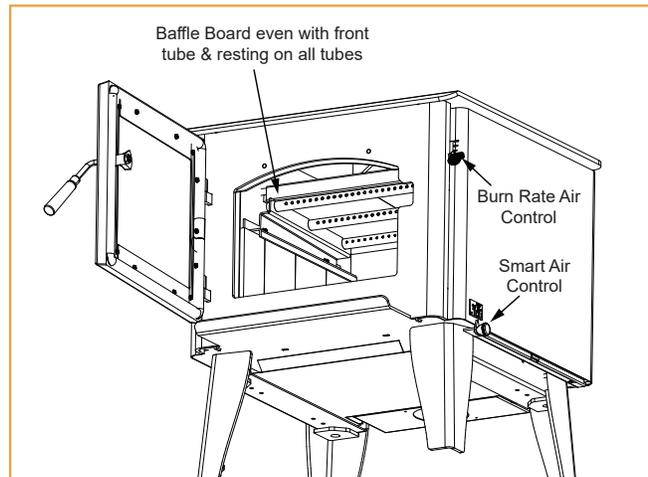


Figure 11.1

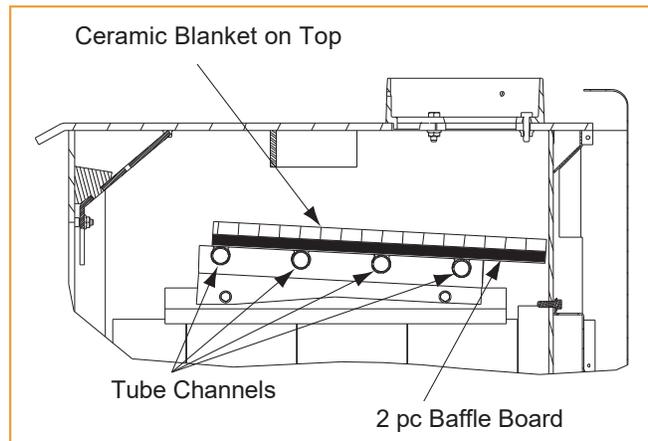


Figure 11.2



WARNING



Fire Risk.

- Do NOT burn wet or green wood.
- Store wood in dry location.
- Stack wood so both ends are exposed to air.

Wet, unseasoned wood can cause accumulation of creosote.

F. Opacity (Smoke)

This is the measure of how cleanly your appliance is burning. Opacity is measured in percent; 100% opacity is when an object is totally obscured by the smoke column from a chimney, and 0% opacity means that no smoke column can be seen. As you become familiar with your appliance, you should periodically check the opacity. This will allow you to know how to burn as nearly smoke-free as possible (goal of 0% opacity).



WARNING



Fire Risk.

- DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA OR ENGINE OIL.
- Do NOT burn treated wood or wood with salt (driftwood).
- May generate carbon monoxide if burn material other than wood.
- May result in illness or possible death.



WARNING



Fire Risk.

Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.

- Do NOT store flammable materials in the appliance's vicinity.
- DO NOT USE GASOLINE, LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID OR SIMILAR LIQUIDS TO START OR "FRESHEN UP" A FIRE IN THIS Appliance.
- Keep all such liquids well away from the appliance while it is in use.
- Combustible materials may ignite.



CAUTION

When burning your first fire, you will experience smoke and odor from the appliance resulting from the curing of paint and burning off of any oils remaining from manufacturing.

OPEN WINDOWS DURING INITIAL BURN TO DISSIPATE SMOKE AND ODORS!

- Odors may be irritating to sensitive individuals.
- Smoke detectors may activate.

G. Clear Space

NOTE: Do NOT place combustible objects within 4 ft (1.2m) of the front of appliance (**Figure 12.1**).

- **Mantel:** Avoid placing candles and other heat-sensitive objects on mantel or hearth. Heat may damage these objects.



WARNING

Do NOT place combustible objects in front of the appliance. High temperatures may ignite clothing, furniture or draperies.

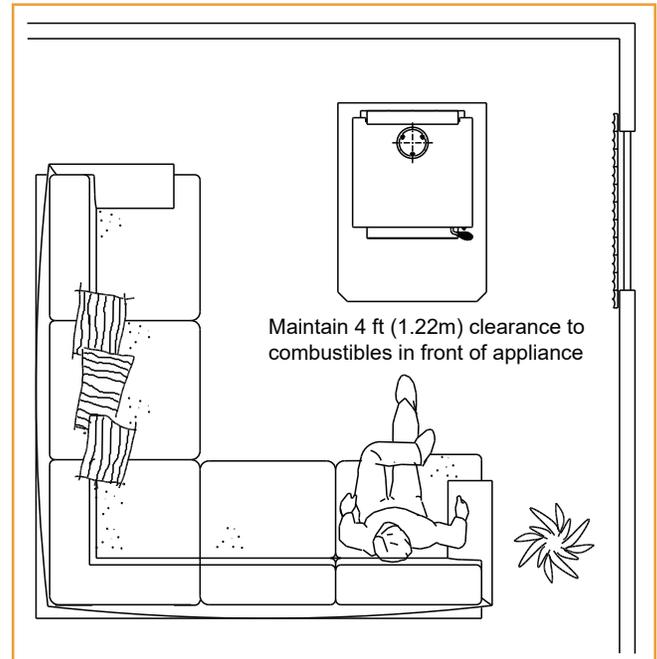


Figure 12.1

H. Negative Pressure



WARNING



Asphyxiation Risk.

- Negative pressure can cause spillage of combustion fumes, soot and carbon monoxide.
- Appliance needs to draft properly for safety.

Negative pressure results from the imbalance of air available for the appliance to operate properly. It can be strongest in lower levels of the house.

Causes include:

- Exhaust fans (kitchen, bath, etc.)
- Range hoods
- Combustion air requirements for furnaces, water appliances and other combustion appliances
- Clothes dryers
- Location of return-air vents to furnace or air conditioning
- Imbalances of the HVAC air handling system
- Upper level air leaks such as:
 - Recessed lighting
 - Attic hatch
 - Duct leaks

To minimize the effects of negative air pressure:

- Install the outside air kit with the intake facing prevailing winds during the heating season
- Ensure adequate outdoor air for all combustion appliances and exhaust equipment
- Ensure furnace and air conditioning return vents are not located in the immediate vicinity of the appliance
- Avoid installing the appliance near doors, walkways or small isolated spaces
- Recessed lighting should be a “sealed can” design
- Attic hatches weather stripped or sealed
- Attic mounted duct work and air handler joints and seams taped or sealed

I. Frequently Asked Questions

ISSUES	SOLUTIONS
Odor from appliance	When first operated, this appliance may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing.
Metallic noise	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the appliance.

Table 13.1



WARNING



Fire Risk.

- DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA OR ENGINE OIL.
- Do NOT burn treated wood or wood with salt (driftwood).
- May generate carbon monoxide if burn material other than wood.

May result in illness or possible death.



WARNING



Fire Risk.

Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.

- Do NOT store flammable materials in the appliance’s vicinity.

- DO NOT USE GASOLINE, LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID OR SIMILAR LIQUIDS TO START OR “FRESHEN UP” A FIRE IN THIS APPLIANCE.
- Keep all such liquids well away from the appliance while it is in use.
- Combustible materials may ignite.

A. Quick Reference Maintenance Guide

When properly maintained, your fireplace will give you many years of trouble-free service.



CAUTION

Allow the appliance to completely cool down before performing any cleaning or maintenance. Start the first inspection after the first 2 months of use, or if performance changes, and adjust your schedule accordingly. Maintenance is required for safe operation and must be performed to maintain your warranty.

	FREQUENCY	TASK
<p>Baffle & Blanket</p>	<p>MONTHLY or after every one (1) cord of wood</p>	<p>Baffle and blanket placement is critical to heat output, efficiency and overall life of the appliance. Make sure the baffle is pushed all of the way to the back of the firebox and the blanket is laying flat. Inspect baffle for cracks.</p>
<p>Chimney System</p>	<p>EVERY TWO MONTHS or after every four (4) cords of wood</p>	<p>The chimney and chimney cap must be inspected for soot and creosote every two months during the burn season or more frequency if chimney exceeds or is under 14-16 ft (4.3m-4.8m) measured from bottom of appliance.</p> <p>This will prevent pipe blockage, poor draft, and chimney fires.</p> <p>Always burn dry wood to help prevent cap blockage and creosote build-up.</p>
<p>Firebrick & Ash Removal</p>	<p>WEEKLY or after every 25 loads of wood</p>	<p>Ashes must be cool before you can dispose of the ashes in a non-combustible container.</p> <p>Firebrick is designed to protect your firebox. After ashes are removed, inspect the firebrick and replace firebricks that are crumbling, cracked or broken.</p>
<p>Door & Glass Assemblies</p>	<p>WEEKLY or after every 25 loads of wood</p>	<p>Keep door and glass gasket in good shape to maintain good burn. <u>To test:</u> place a dollar bill between the appliance and door and then shut the door. If you can pull the dollar out, remove one washer from door handle behind latch cam and try again. If you can still pull it out, replace the door gasket.</p> <p>Check the glass frame for loose screws to prevent air leakage.</p> <p>Check glass for cracks.</p>
<p>Door Handles</p>	<p>WEEKLY or after every 25 loads of wood</p>	<p>Check the door latch for proper adjustment. This is very important especially after the door rope has formed to the appliance face.</p> <p>Check door handle for smooth cam operation.</p>

Table 14.1

These are generic drawings and may not represent your model.

B. General Maintenance

1. Creosote (Chimney) Cleaning

- **Frequency:** Every 2 months during heating season or as recommended by a certified chimney sweep; more frequently if chimney exceeds or is under 14-16 ft. (measured from bottom of appliance)
- **By:** Certified Chimney Sweep

Remove all ash from the firebox and extinguish all hot embers before disposal. Allow the appliance to cool completely. Disconnect flue pipe or remove baffle and ceramic blanket from appliance before cleaning chimney. Otherwise residue can pile up on top of the baffle and ceramic blanket and the appliance will not work properly. (See section 5D **Baffle Removal**). Close the door tightly. The creosote or soot should be removed with a brush specifically designed for the type of chimney in use. Clean out fallen ashes from the firebox.

It is also recommended that before each heating season the entire system be professionally inspected, cleaned and repaired if necessary.

Inspection: Inspect the system at the appliance connection and at the chimney top. Cooler surfaces tend to build creosote deposits quicker, so it is important to check the chimney from the top as well as from the bottom.

Formation and Need For Removal: When wood is burned slowly, it produces tar and other organic vapors which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a newly-started or a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote creates an extremely hot fire which may damage the chimney or even destroy the house.

The chimney connector and chimney should be inspected once every 2 months during the heating season to determine if a creosote or soot buildup has occurred. If creosote or soot has accumulated, it should be removed to reduce the risk of a chimney fire.


WARNING



Fire Risk.
Prevent creosote buildup.

- Inspect chimney connector and chimney once every two months during heating season.
- Remove creosote to reduce risk of chimney fire.
- Ignited creosote is extremely HOT.


WARNING



Fire Risk.

- Do not use chimney cleaners or flame colorants in your appliance. Will corrode chimney pipe.

2. Disposal of Ashes

- **Frequency:** When ash is within 1-3/4 in. (44mm) of firebox lip
- **By:** Homeowner


WARNING



Fire Risk.
Ashes could contain hot embers.

Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.


WARNING



Fire Risk. Disposal of Ashes

- Ashes should be placed in metal container with tight fitting lid.
- Do not place metal container on combustible surface.
- Ashes should be retained in closed container until all cinders have thoroughly cooled.

3. Appliance Inspection

- **Frequency:** Every 2 months at the same time the chimney and chimney connector are inspected.
- **By:** Homeowner

Check for:

- Cracks in glass
- Door handle - smooth cam operation
- Baffle and ceramic blanket correct placement
- Baffle for warpage
- Firebrick for cracks, broken or crumbly
- Door gasket (Dollar bill test): Place a dollar bill between the stove and the door and then shut the door. If you can pull the dollar bill out, replace the door gasket.
- Glass frame for loose screws

4. Glass Cleaning

- **Frequency:** As desired
- **By:** Homeowner



CAUTION

Handle glass assembly with care. Glass is breakable.

- Avoid striking, scratching or slamming glass
- Avoid abrasive cleaners
- Do not clean glass while it is hot

Clean glass with a non-abrasive glass cleaner. Abrasive cleaners may scratch and cause glass to crack. If the deposits on the glass are not very heavy, normal glass cleaners work well. Heavier deposits may be removed by using a damp cloth dipped in wood ashes or by using a commercially available oven cleaner.

After using an oven cleaner, it is advisable to remove any residue with a glass cleaner or soap and water. Oven cleaner left on during the next firing can permanently stain the glass and damage the finish on metal surfaces.

A portion of the combustion air entering the firebox is deflected down over the inside of the door glass. This air flow “washes” the glass, helping to keep smoke from adhering to its surface.

When operated at a low burn rate, less air will be flowing over the glass and the smokey, relatively cool condition of a low fire will cause the glass to become coated.

Operating the appliance with the Burn Rate Air Control and Smart Air Control all the way open for 30-45 minutes should remove the built up coating.



CAUTION

- Do not use polishes with abrasives. It will scratch surfaces.

5. Cleaning Plated Surfaces

- **Frequency:** Prior to first burn and then as desired
- **By:** Homeowner

Clean all the fingerprints and oils from plated surfaces **BEFORE** firing the appliance for the first time. If not cleaned properly before lighting your first fire, the oils can cause permanent markings on the plating.

After the plating is cured, the oils will not affect the finish and little maintenance is required. Wipe clean as needed.



CAUTION

- Do not use polishes with abrasives. It will scratch plated surfaces.

6. Inspect Firebrick

- **Frequency:** After each ash removal
- **By:** Homeowner

Replace the firebrick if they become crumbly and/or if there is a 1/4 inch (6.35mm) gap between the bricks.

The firebox is lined with firebrick, which has exceptional insulating properties. Do not use a grate; simply build a fire on the firebox floor. Do not operate appliance without firebrick.

1. After the coals have completely cooled, remove all old brick and ash from unit and vacuum firebox.
2. Remove new brick set from box and lay out to the diagram shown in the instructions that come with the brick set or refer to the diagram on the service parts list at the end of this manual.
3. Lay bottom bricks in unit.
4. Install rear bricks on the top of the bottom bricks. Slide top of bricks under clip on back of firebox wall and push bottom of bricks back.
5. Install side bricks. Slide top of brick under clips on side of firebox and push the bottom of the brick until it is flush with the side of the unit.

C. Correct Baffle & Blanket Placement



WARNING



Fire Risk.

Firebox damage due to improper baffle placement is not covered by warranty. Operate the wood burning appliance with the baffle in the correct position only.

Not doing so could result in:

- Reduced efficiency
- Overheating the chimney
- Overheating the rear of the firebox
- Poor performance

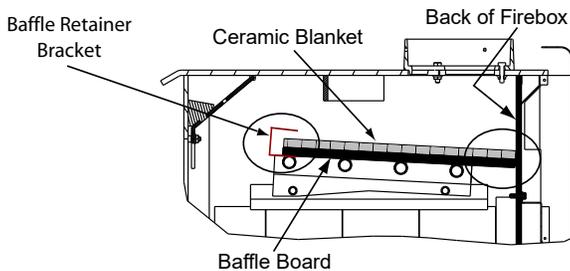
Ensure correct baffle placement and replace baffle components if damaged or missing.



CAUTION

The baffle boards are FRAGILE. Use extreme caution when loading firewood to prevent cracking, breaking or damaging the baffle boards
DO NOT operate the appliance without baffle boards

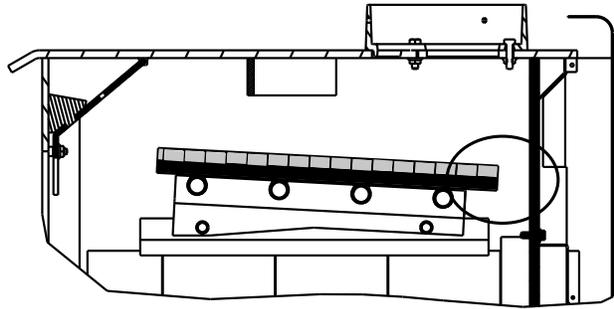
CORRECT POSITION



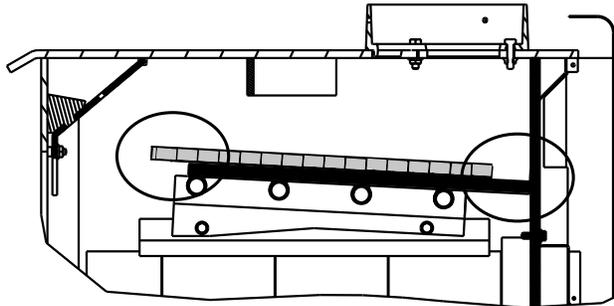
Ceramic Blanket and Baffle Board **MUST** be in contact with the back of the firebox and even with each other in the front.

Figure 17.1

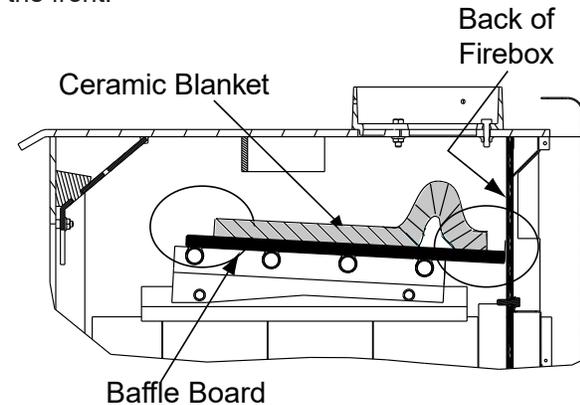
INCORRECT POSITIONS



Ceramic Blanket and Baffle Board are **NOT** in contact with the back of the firebox.



Ceramic Blanket is **NOT** in contact with the back of the firebox and **NOT** even with the Baffle Board in the front.



Ceramic Blanket is bunched up at the back of the firebox and **NOT** even with the Baffle Board in the front.

Figure 17.2

With proper installation, operation, and maintenance your wood appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist you or a qualified service person in the diagnosis of a problem and the corrective action to be taken.

4 Troubleshooting Guide

Start Fire Problems	Possible Cause	Solution	
Can not get fire started Excessive smoke or spillage Burns too slowly Not enough heat output	Not enough kindling/paper or no kindling/paper	Use dry kindling, more paper. Arrange kindling & wood for air movement.	
	Not enough air for fire to ignite	Check for restricted termination cap	
		Check for blockage of outside air kit; if installed.	
		Check for flue blockage.	
		Pre-warm flue before starting fire (refer to section 2E Building a Fire).	
		Check for adequate vent height (refer to Chimney Height / Rise and Run of the Installation manual).	
		Open window below the appliance towards the wind.	
	Wood condition is too wet, too large	Use dry, seasoned wood (refer to section 2B Wood Selection & Storage).	
	Bed of coals not established before adding wood	Start with paper & kindling to establish bed of coals (refer to section 2E Building a Fire).	
	Flue blockage such as birds' nests or leaves in termination cap	Have chimney inspected for creosote and cleaned by a certified chimney sweep.	
Down draft or negative pressure Competition with exhaust devices	Do not use exhaust fans during start-up (refer to section 2H Negative Pressure).		
	Open window below the appliance towards the wind.		
Fire burns too fast	Extremely dry or soft wood	Mix in hardwood.	
		Mix in less seasoned wood after fire is established (refer to section 2B Wood Selection & Storage).	
	Over drafting	Check for correct vent height; too much vertical height creates over drafting.	
		Check location of vent termination	

Table 18.1

A. Glass

NOTE: Replace with 5mm ceramic glass only.

Service Part: SRV7039-061- FF-WP-100

Service Part: SRV7044-027 - FF-WP-200, 300

1. Ensure that the fire is out and the appliance is cool to the touch.
2. Protect a table or counter top with padding or towels. Protect your hands and wear gloves to prevent injury.
3. Remove the door with the broken glass by lifting the door up and off of the hinges.
4. Lay door face down on a table or counter making sure the handle hangs over the edge so the door lays flat, on a soft surface.
5. Remove the screws from each glass retainer and remove the glass. (If screws are difficult to remove, soak with penetrating oil first).
6. Center the glass with edges evenly overlapping the opening in the door, (i.e. same space top and bottom, left and right sides).
7. Replace the glass retainers. Be careful not to cross thread the screws.
8. Tighten each retainer just a few turns until each is secured. Check again for centering of glass in door frame. Continue to tighten each retainer alternately, a few turns at a time, until the glass is secure.

NOTE: DO NOT OVER TIGHTEN RETAINERS - can cause glass to break.

9. Replace the door on the appliance.

Forge & Flame appliances are equipped with ceramic super heat-resistant glass, which can only be broken by impact or misuse.



WARNING

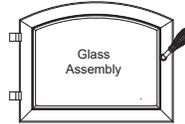


Injury Risk.

- Use only glass specified in manual.
- DO NOT REPLACE with any other material.



CAUTION



Handle glass assembly with care.
When cleaning glass:

- Avoid striking, scratching or slamming glass.
- Do NOT clean glass when hot.
- Do NOT use abrasive cleaners.
- Use a hard water deposit glass cleaner on white film.
- Use commercial oven cleaner on heavier deposits.
- Remove all residue of oven cleaner or will permanently stain glass on next firing.

Refer to maintenance instructions.

5

Service Parts
Replacement

B. Firebrick

Service Part: SRV7039-007 - FF-WP-100

Replace the firebrick if they become crumbly and/or if there is a 1/4 inch (6.35mm) gap between the bricks.

Inspect the firebrick after each ash removal.

The firebox is lined with high quality firebrick, which has exceptional insulating properties. There is no need to use a grate; simply build a fire on the firebox floor. Do not operate appliance without firebrick.

1. After the coals have completely cooled, remove all old brick and ash from appliance and vacuum firebox.
2. Remove new brick set from box and lay out to diagram shown.
3. Lay bottom bricks in appliance.
4. Install rear bricks on the top of the bottom bricks. Slide top of bricks under clip on back of firebox wall and push bottom of brick back.
5. Install side bricks. Slide top of brick under clips on side of firebox and push the bottom of the brick until it is flush with the side of the appliance.

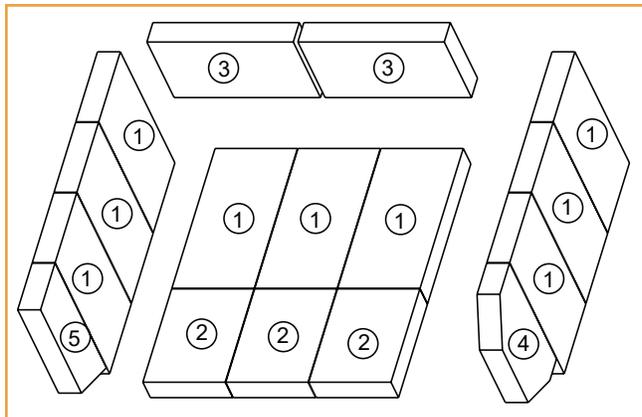


Figure 20.1

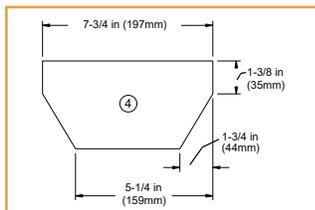


Figure 20.2

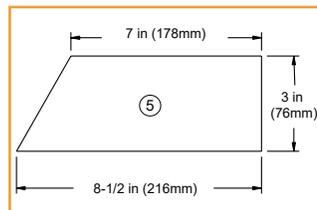


Figure 20.3

Placement	Dimensions	Qty Required
1	9" x 4.5" x 1.25"	9
2	5-3/4" x 4.5" x 1.25"	3
3	8" x 4.5" x 1.25"	2
4	7-3/4" x 4-1/2" x 1.25" w/Angles	1
5	8-1/2" x 3" x 1.25" w/Angle	1

Table 20.1

Service Part: SRV7033-006 - FF-WP-200

Replace the firebrick if they become crumbly and/or if there is a 1/4 inch (6.35mm) gap between the bricks.

Inspect the firebrick after each ash removal.

The firebox is lined with high quality firebrick, which has exceptional insulating properties. There is no need to use a grate; simply build a fire on the firebox floor. Do not operate appliance without firebrick.

1. After the coals have completely cooled, remove all old brick and ash from appliance and vacuum firebox.
2. Remove new brick set from box and lay out to diagram shown.
3. Lay bottom bricks in appliance.
4. Install rear bricks on the top of the bottom bricks. Slide top of bricks under clip on back of firebox wall and push bottom of brick back.
5. Install side bricks. Slide top of brick under clips on side of firebox and push the bottom of the brick until it is flush with the side of the appliance.

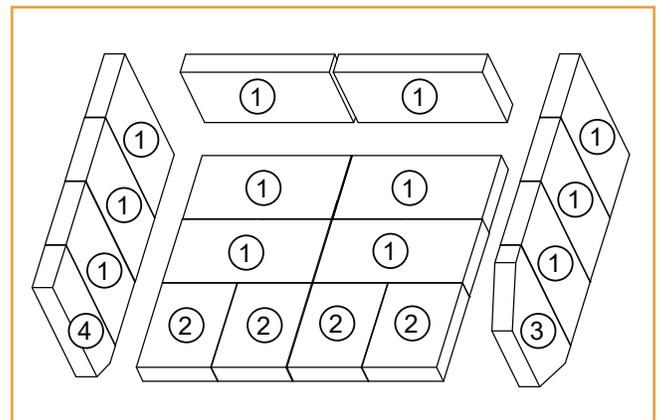


Figure 20.4

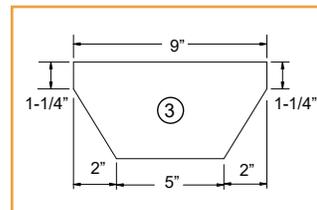


Figure 20.5

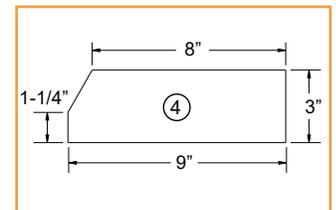


Figure 20.6

Placement	Dimensions	Qty Required
1	9" x 4.5" x 1.25"	12
2	6" x 4.5" x 1.25"	4
3	9" x 4.5" x 1.25" w/Angles	1
4	9" x 3" x 1.25" w/Angle	1
5	8-1/2" x 3" x 1.25" w/Angle	1

Table 20.2

Service Part: SRV7037-003 - FF-WP-300

Replace the firebrick if they become crumbly and/or if there is a 1/4 inch (6.35mm) gap between the bricks.

Inspect the firebrick after each ash removal.

The firebox is lined with high quality firebrick, which has exceptional insulating properties. There is no need to use a grate; simply build a fire on the firebox floor. Do not operate appliance without firebrick.

1. After the coals have completely cooled, remove all old brick and ash from appliance and vacuum firebox.
2. Remove new brick set from box and lay out to diagram shown below.
3. Lay bottom bricks in appliance.
4. Install rear bricks on the top of the bottom bricks. Slide top of bricks under clip on back of firebox wall and push bottom of brick back.
5. Install side bricks. Slide top of brick under clips on side of firebox and push the bottom of the brick until it is flush with the side of the appliance.

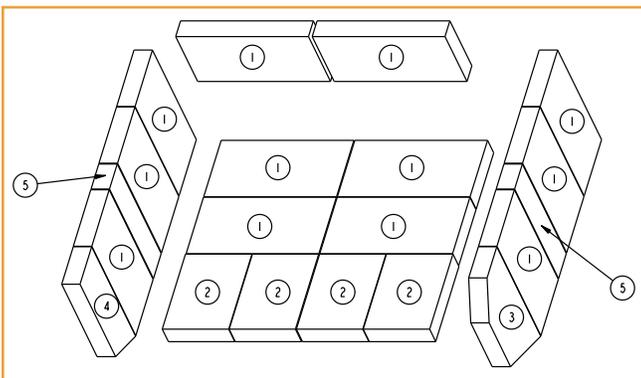


Figure 21.1

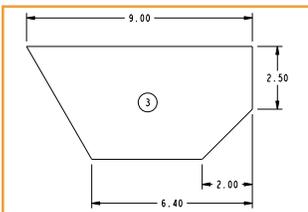


Figure 21.2

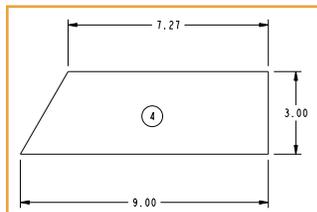


Figure 21.3

Placement	Dimensions	Qty Required
1	9" x 4.5" x 1.25"	12
2	6" x 4.5" x 1.25"	4
3	9" x 4.5" x 1.25" w/Angles	1
4	9" x 3" x 1.25" w/Angle	1
5	9" x 2" x 1.25"	2

Table 21.1

C. Door Handle Assembly

NOTE: DO NOT over tighten locking nut; door handle needs to move smoothly!

Service Part: SRV8001-002

1. Slide door handle shaft through hole on door.
2. Add up to four 3/8 washers on the inside of the door.

NOTE: The quantity of washers added will change how the door seals. You may need to tear down the handle assembly a few times to gain the correct seal.

3. Add square key to door handle shaft; may need to use a rubber mallet to ensure key sits firmly into groove of door handle shaft.
4. Slide cast iron cam latch over door handle shaft and locking key.



CAUTION

DO NOT over tighten locking nut; door handle needs to move smoothly!

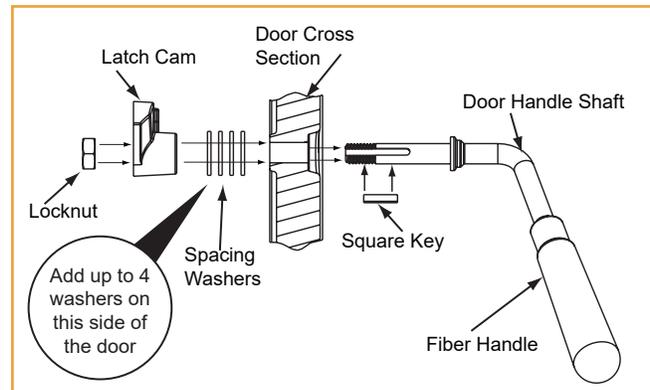


Figure 21.4

D. Baffle

Fiber Blanket Service Part: 832-3390

Baffle Board Service Part:

WP-100: SRV7039-111

WP-200: SRV7033-209

WP-300: SRV7037-112

1. Remove all ash from the firebox, and extinguish all hot embers before disposal into a metal container.
2. The baffle board has 2 pieces. With the ceramic blanket still in place, slide one baffle piece over the top of other one and pull out top piece through the door opening and then remove bottom baffle piece (**Figure 22.1**).
3. Remove the ceramic blanket (**Figure 22.2**).
4. Re-install the baffle pieces one piece at a time. Be sure the baffle boards are even with the front manifold tube and are resting on all tubes (**Figure 22.3 and Figure 22.4**).
5. To re-install the ceramic blanket, it is easier to fold it in half first (**Figure 22.2 and Figure 22.4**). Place on top of baffle board, open up and flatten and smooth out the blanket. Verify the baffle board for correct position (**Figure 22.3 and Figure 22.4**).



Figure 22.1 - Baffle Board



Figure 22.2 - Ceramic Blanket

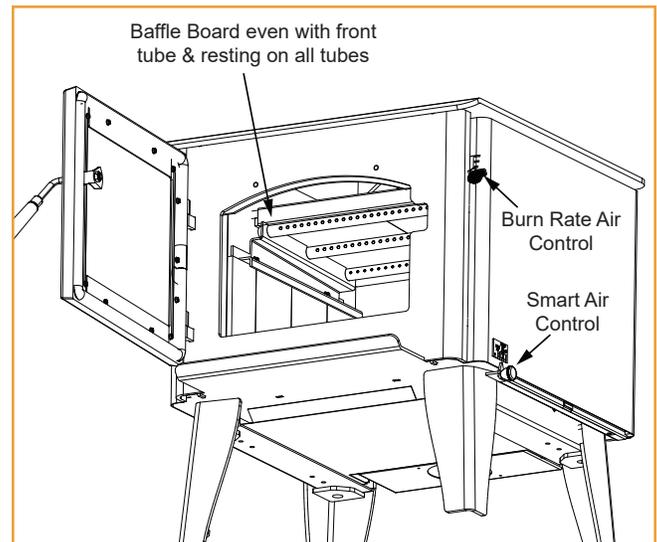


Figure 22.3

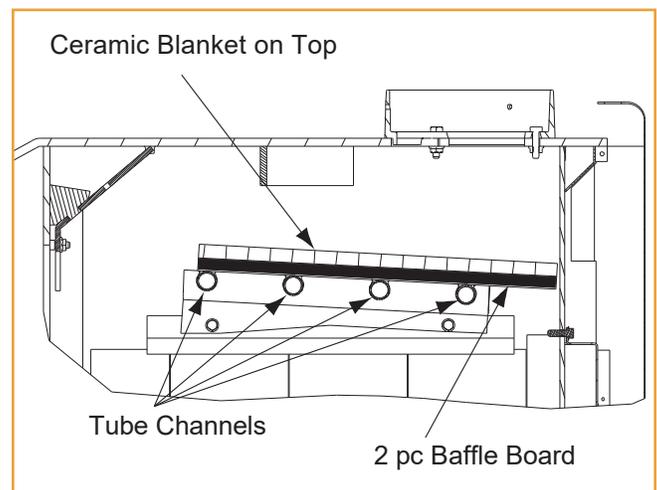


Figure 22.4

E. Tube Channel Assembly

Service Part:

WP-100: SRV7039-004

WP-200: SRV7033-023

WP-300: SRV7033-023

Removing Tube Channel Assembly

1. Remove the right side panel by removing 2 screws in the back using a Phillips head screw driver.
2. Remove 4 screws from channel access cover and remove cover.
3. Locate 2 channel nuts inside of chamber and remove using a 7/16 socket wrench. Slide out tube channel assembly.

NOTE: Soak the bolts with penetrating oil for at least 15 minutes before trying to remove them.

Replacing Tube Channel Assembly

1. Slide one gasket onto each tube.
2. Slide the tube channel assembly into side of firebox and insert each tube into the corresponding hole in the tube channel rack starting with the back hole first.
3. Make sure tube channel assembly is flush against the side of the appliance and secure with channel nuts.
4. Re-install channel cover and side shield.

NOTE: Service Space

In order to replace the tube channel assembly a clearance of 19 inches (483mm) is required on the right side of appliance in order to remove the tubes with the appliance in place.

If space is not available, the appliance will have to be disconnected from the chimney to proceed with the tube replacement.

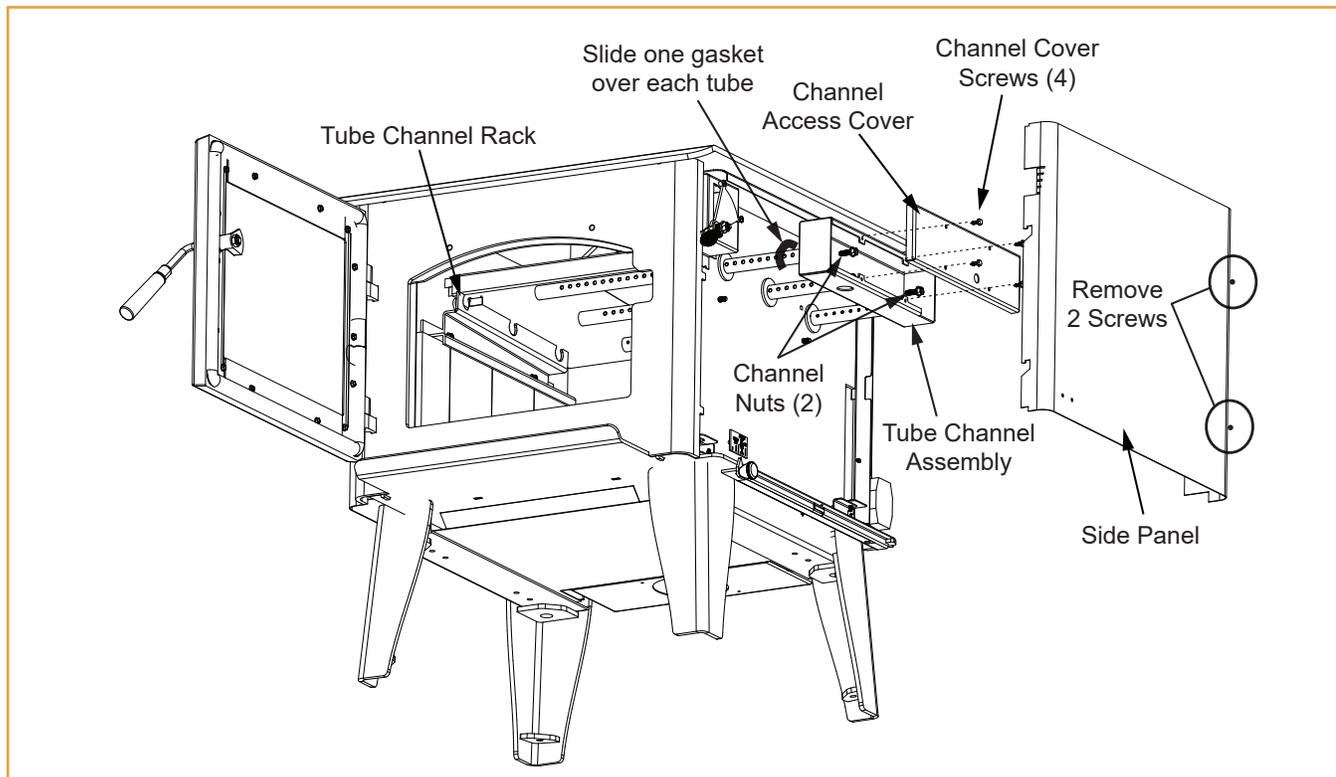


Figure 23.1

B. Service Parts List

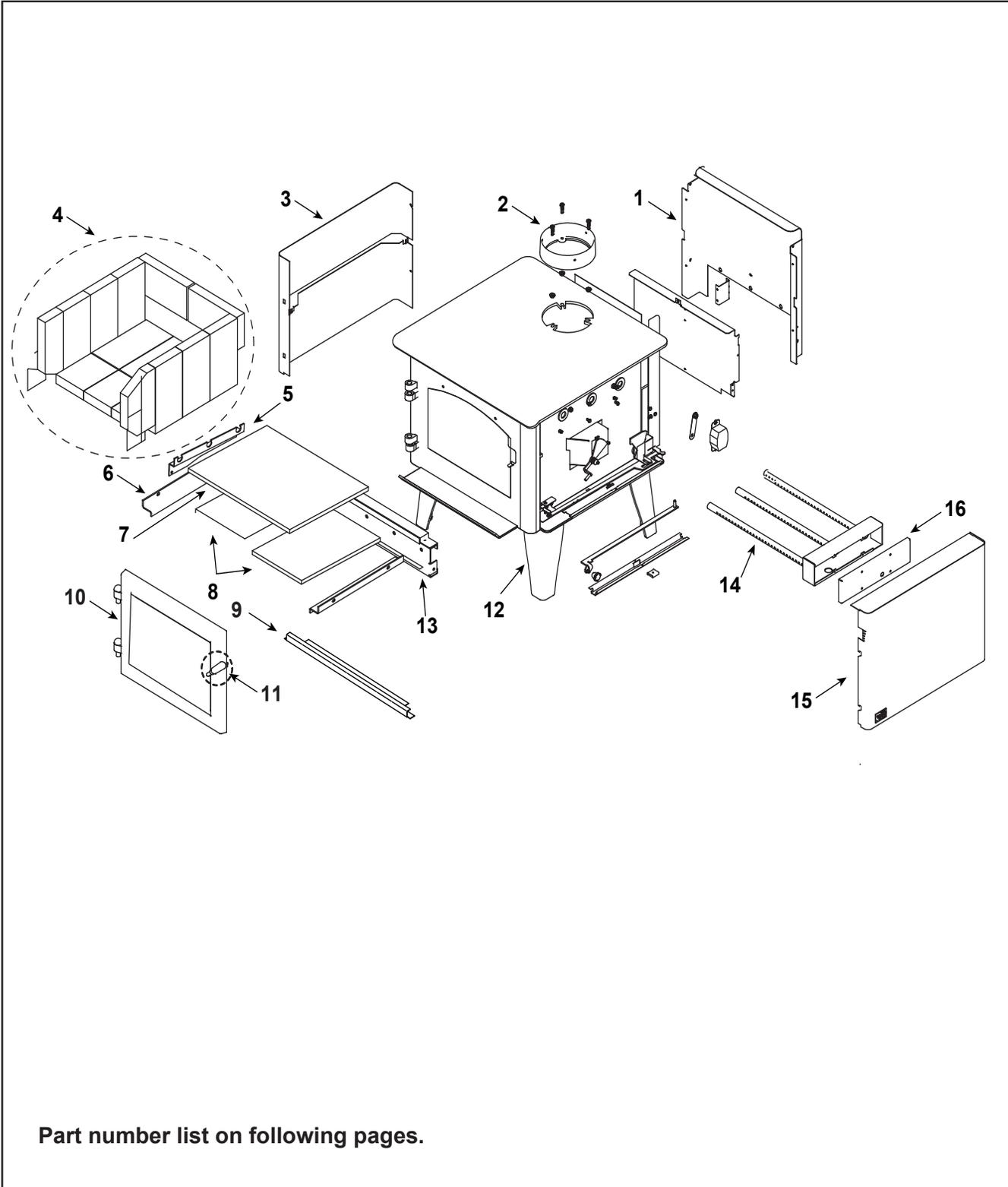


Service Parts

Forge & Flame Wood Pro 100

FF-WP-100

Beginning Manufacturing Date: Sept 2024
Ending Manufacturing Date: Active



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Reference
Materials

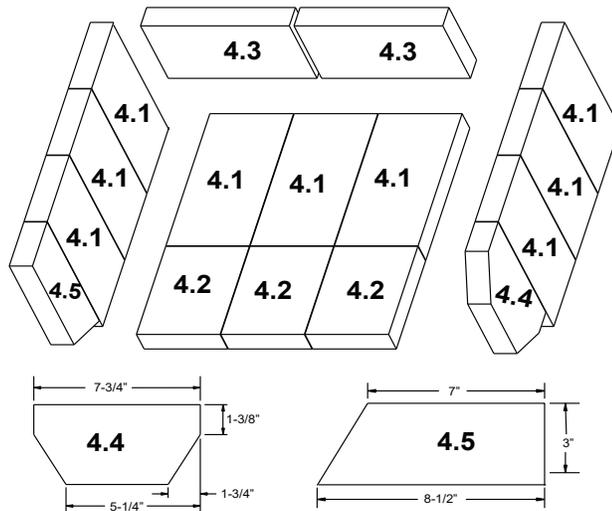
IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.



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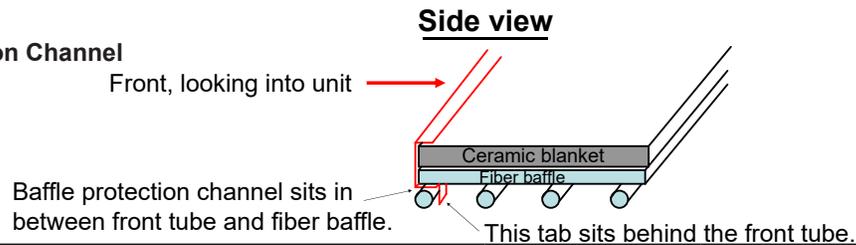
ITEM	DESCRIPTION	COMMENTS	PART NUMBER
1	Convection Air Channel - Retain Original Serial Number		SRV7039-107
2	Flue Collar		SRV7000-302
3	Panel Assembly, Side, Left		SRV7039-003

#4 Brick Assembly



4	Brick Assembly - Complete Set		SRV7039-007
4.1	Brick, 9 x 4-1/2 x 1-1/4"	Qty. 9 Req. Pkg of 6	832-0550 832-3040
4.2	Brick, 5-3/4 x 4-1/2 x 1-1/4"	Qty. 3 Req.	SRV7128-039
4.3	Brick, 8 x 4-1/2 x 1-1/4"	Qty. 2 Req.	SRV7128-022
4.4	Brick, see diagram	Qty. 1 Req.	SRV7128-807
4.5	Brick, see diagram	Qty. 1 Req.	SRV7128-619
5	Tube Support Rack		SRV7039-108
6	Brick Retainer	Qty. 2 Req.	SRV7033-149
7	Ceramic Fiber Blanket, 1/2" Thick		832-3390
8	Baffle Board, 8-1/8 in. W x 13 in. H	Pkg of 2	SRV7039-111

#9 Baffle Protection Channel



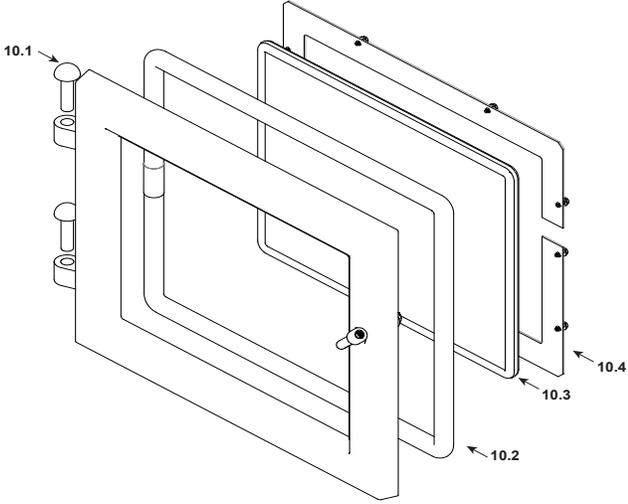
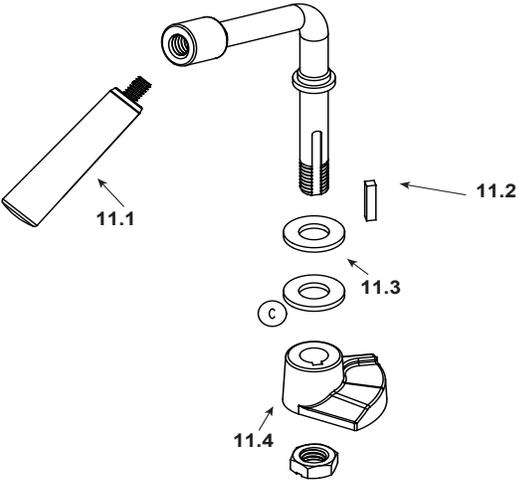
9	Baffle Protection Channel		SRV7039-144
	Mobile Home Brackets		SRV7039-208/4

Additional service part numbers appear on following page.

IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.



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ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>#10 Door Assembly</p>  </div> <div style="text-align: center;"> <p>#11 Door Handle Assembly</p>  </div> </div>				
	Door Assembly		SRV7039-049	
10.1	Hinge Pins, 1/2"	Black	7000-606/2	
10.2	Rope, Door, 3/4" x 84" - Field cut to Size	7 Ft Length	832-1680	Y
10.3	Glass Assembly - 14-1/8 in. W x 9-13/16 in. H		SRV7039-061	Y
	Gasket, Glass Tape - Field cut to Size	5 Ft Length	832-0460	Y
10.4	Frame, Glass		SRV7039-207	
11	Door Handle Assembly		SRV8001-002	
11.1	Door Handle Only	Fiber Handle	SRV7000-948	
11.2	Key, Cam Latch		SRV430-1151	
11.3	Washer, SAE, 3/8	Pkg of 3	832-0990	Y
11.4	Cam Latch		SRV430-1141	
12	Legs - Painted		SRV7039-060	
	Paint Touch - Up		3-42-19905	
FASTENERS				
	AVK Rivnut Repair Kit - 1/4-20 & 3/8-16 Rivnut Tools		RIVNUT-REPAIR	Y
	Bolt, Hex Head, 1/4-20 X 1	Pkg of 10	25221A/10	Y
	Screw, Sheet Metal #8 X 1/2 S-Grip	Pkg of 40	12460/40	Y
	Washer, SAE, 3/8	Pkg of 3	832-0990	Y

Additional service part numbers appear on following page.

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Reference Materials

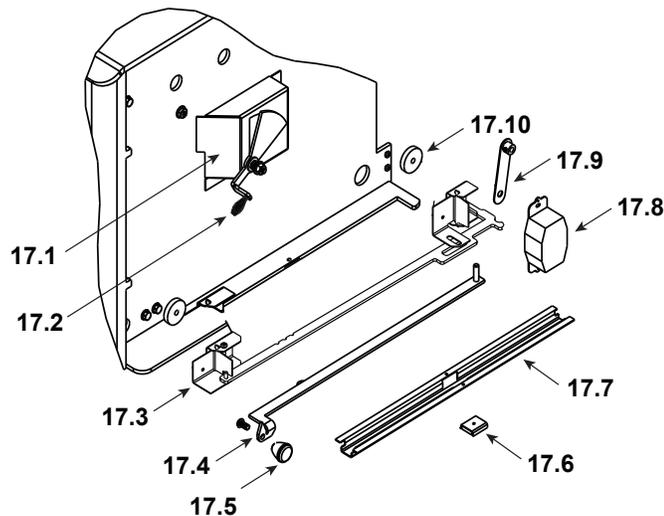
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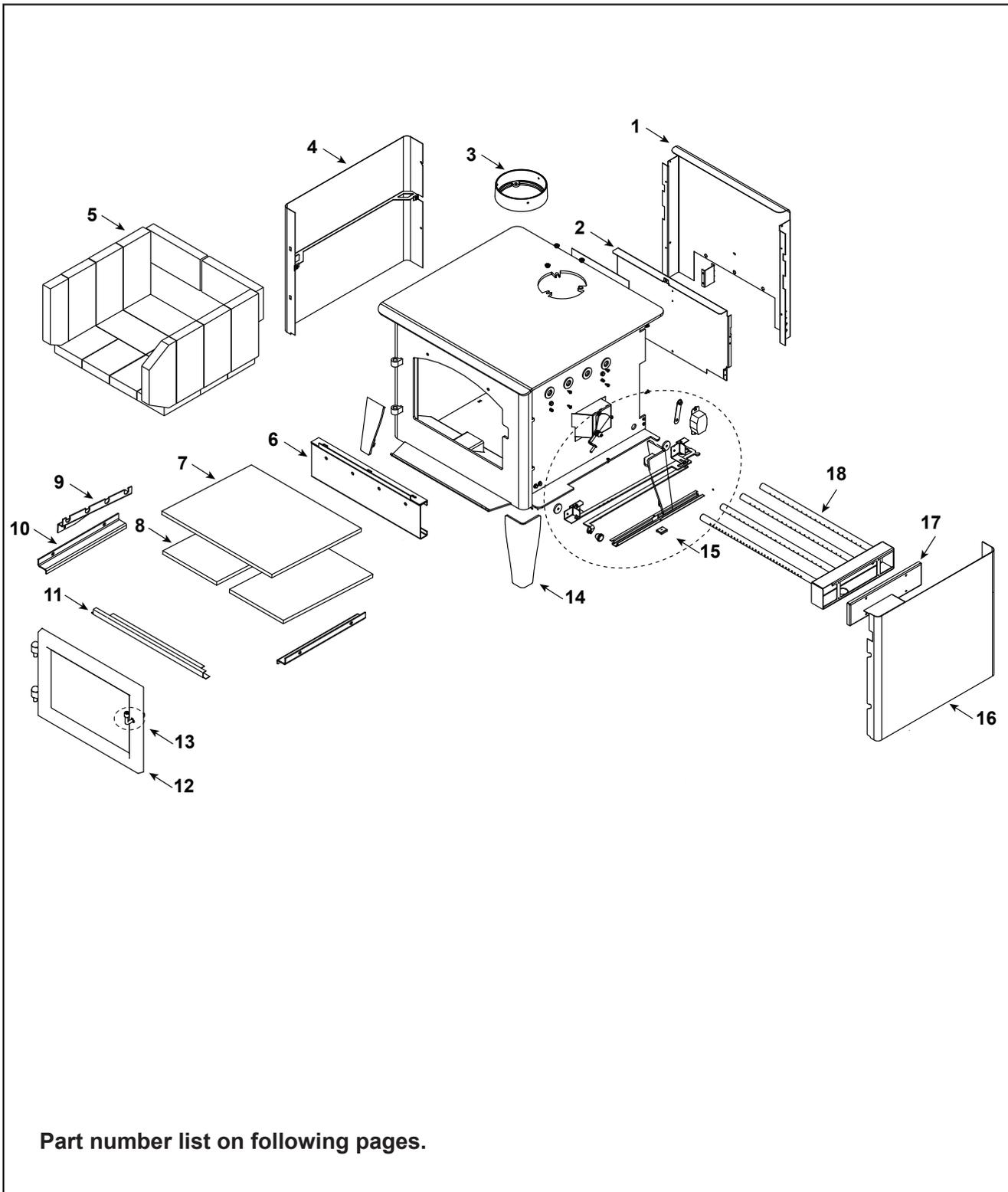
Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
13	Rear Channel Assembly		SRV7039-047	
14	Tube Channel Assembly - Manifold Tubes		SRV7039-004	Y
	Manifold Tube Gasket	Pkg of 4	7038-168/4	Y
15	Panel Assembly, Side, Right		SRV7039-002	
16	Tube Channel Top - Access Cover		SRV7039-190	

#17 Burn Rate Control Assembly



17.1	Burn Rate Control Assembly		SRV7039-016	
17.2	Spring Handle, 1/4" Black		SRV7000-614	Y
17.3	Timer Air Control Assembly		SRV7039-015	Y
	Rear Air Door Assembly		SRV7037-013	Y
17.4	Rear Air Control Arm Assembly		SRV7039-053	
17.5	Start-Up Control Knob		SRV7000-343	
17.6	Latch, Magnet - for Air Control		SRV229-0631	
17.7	Air Control Rod Guide		SRV7033-210	
17.8	Timer (Only) Replacement Assembly		SRV480-1940	Y
17.9	Timer Arm Assembly		SRV7033-034	Y
17.10	Door Gasket - Front & Rear Air Timer Doors		7033-282	Y



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Reference
Materials

Part number list on following pages.

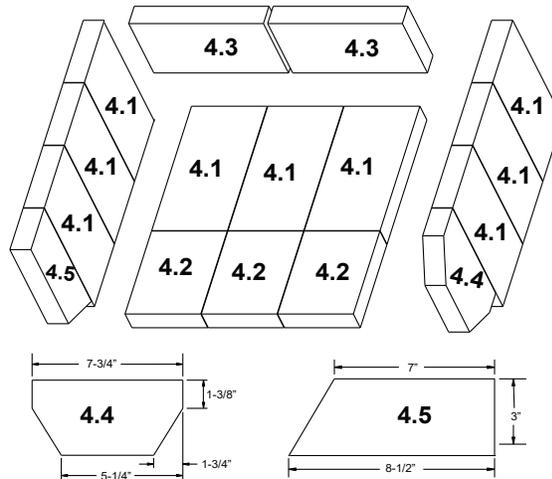
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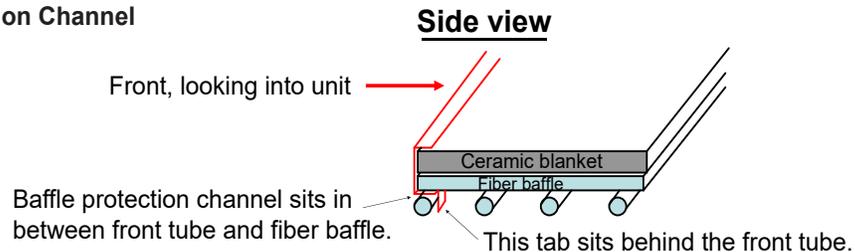
ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Air Channel, Convection w/Bracket (Retain Original SN Label)		SRV7033-144	
2	Air Supply Back		SRV7033-134	
3	Flue Collar		SRV7000-302	Y
4	Panel Assembly, Side, Left		SRV7033-019	

#4 Brick Assembly



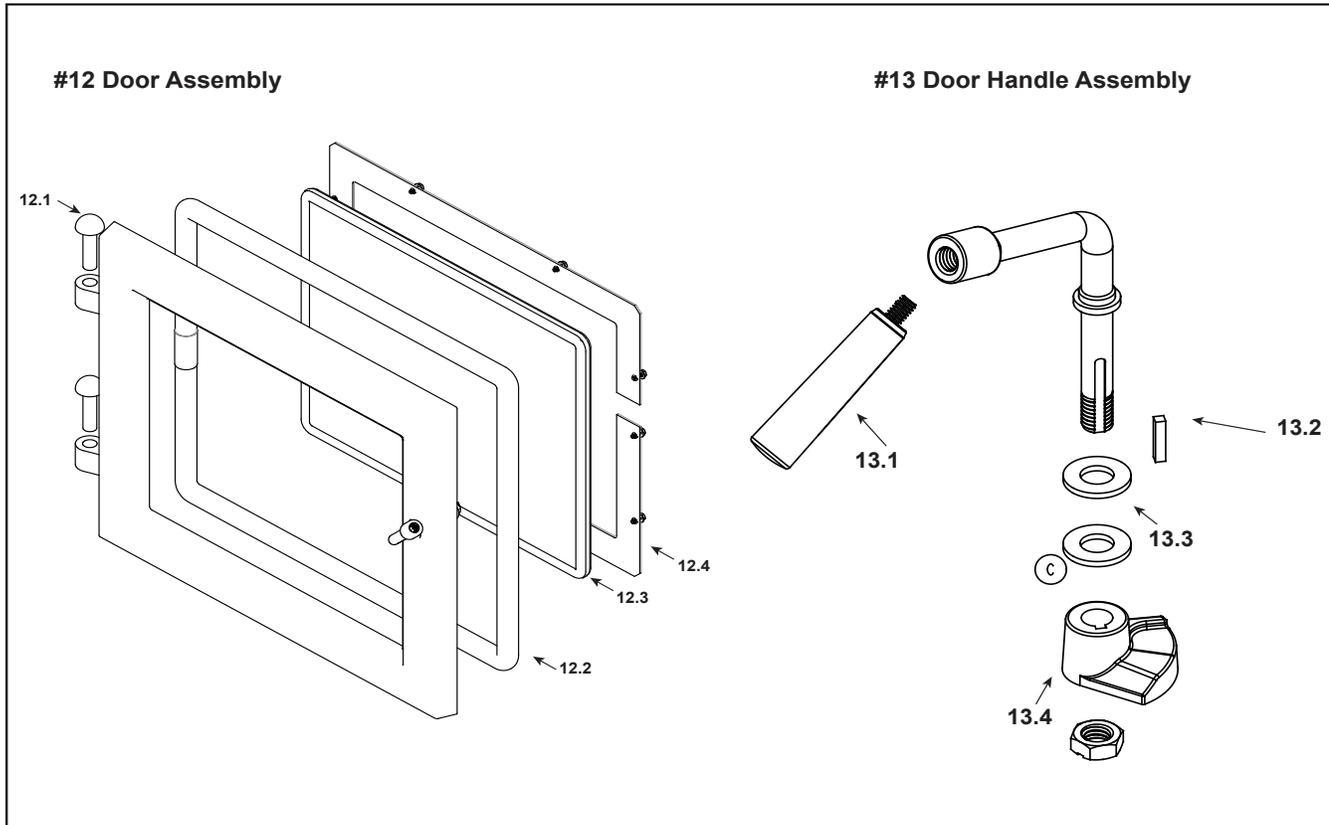
5	Brick Assembly - Complete Set	Pkg of 18	SRV7033-006	
5.1	Brick, 9 x 4-1/2 x 1-1/4" (Qty. 12 Req.)	Pkg of 1	832-0550	
		Pkg of 6	832-3040	
5.2	Brick, 6 x 4-1/2 x 1-1/4"	Qty. 4 Req.	SRV7128-002	
5.3	Brick, 9 x 4-1/2 x 1-1/4" w/angles, see diagram	Qty. 1 Req.	SRV7128-805	
5.4	Brick, 9 x 3 x 1-1/4" w/angle, see diagram	Qty. 1 Req.	SRV7128-617	
6	Rear Channel Assembly		SRV7033-002	Y
7	Ceramic Fiber Blanket, 1/2" Thick (19" W x 13-3/4" H)		832-3390	Y
8	Baffle Board - 9-1/2 in W x 13-3/4 in H	Pkg of 2	SRV7033-209	Y
9	Tube Support Rack		SRV7033-148	
10	Brick Retainer	Qty. 2 Req.	SRV7033-149	

#11 Baffle Protection Channel



11	Baffle Protection channel		SRV7033-298	
	Mobile Home Brackets		SRV7039-208/4	

Additional service part numbers appear on following page.



6
Reference
Materials

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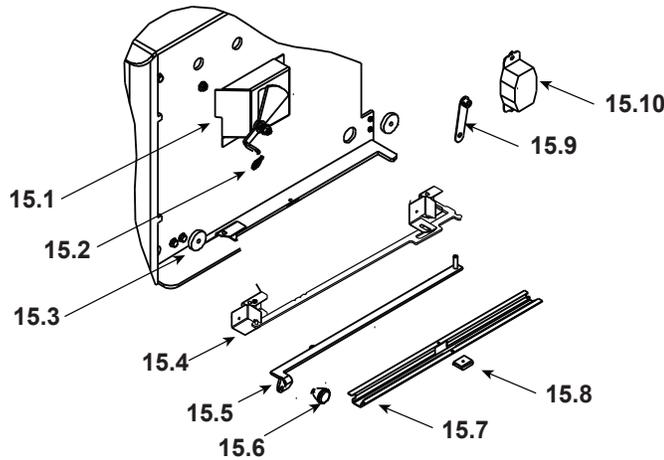


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ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
12	Door Assembly		SRV7037-061	
12.1	Hinge Pins, 1/2"	Black	7000-606/2	Y
12.2	Rope, Door, 3/4" x 84" - Field cut to Size	7 Ft Length	832-1680	Y
12.3	Door Glass Assembly - 15-1/2" W x 13-3/8" H		SRV7044-027	Y
	Gasket, Glass Tape - Field cut to Size	5 Ft Length	832-0460	Y
12.4	Glass Frame Set		SRV7044-191	
12.5	Screw, Flat Head Philips 8-32 x 1/2	Pkg of 12	220-0490/12	Y
13	Door Handle Assembly		SRV8001-002	
13.1	Door Handle, Formed	Fiber Handle	SRV7000-948	Y
13.2	Key, Cam Latch		SRV430-1151	
13.3	Washer, SAE, 3/8	Pkg of 3	832-0990	Y
13.4	Cam Latch		SRV430-1141	
14	Leg - Painted		SRV7039-060	

Additional service part numbers appear on following page.

#15 Burn Rate Control Assembly

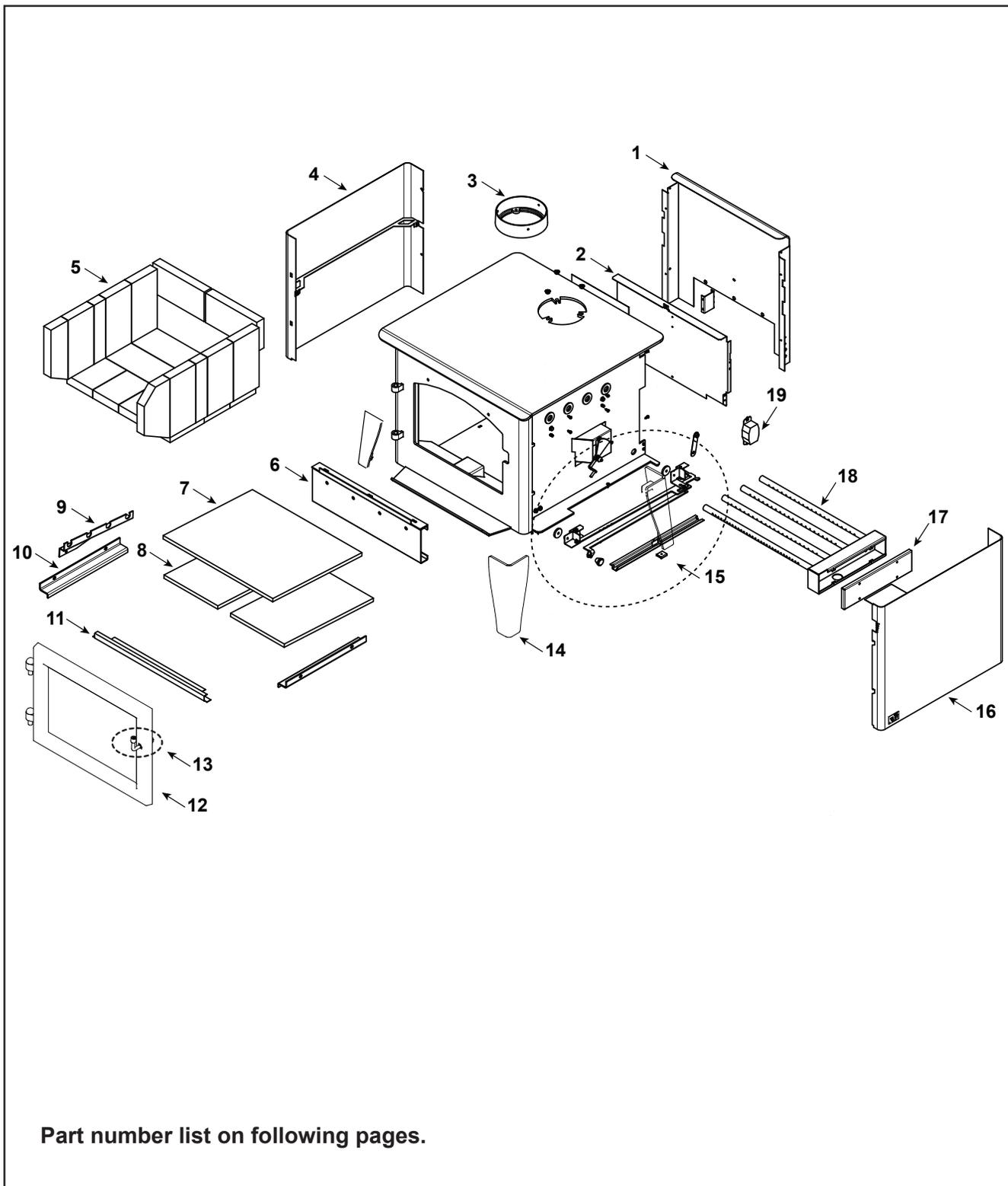


IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.



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ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
15.1	Burn Rate Control Assembly		SRV7033-033	Y
15.2	Spring Handle, 1/4", Black		SRV7000-614	Y
15.3	Door Gasket - Front & Rear Air Timer Doors		7033-282	Y
15.4	Timer Air Control Assembly		SRV7033-052	Y
	Rear Air Door Assembly		SRV7033-024	Y
15.5	Rear Air Control Arm Assembly		SRV7033-035	Y
15.6	Start-Up Control Knob		SRV7000-343	
15.7	Air Control Rod Guide		SRV7033-210	
15.8	Latch, Magnet	For Air Control	SRV229-0631	
15.9	Timer Arm Assembly		SRV7033-034	Y
15.10	Timer (Only) Replacement Assembly		SRV480-1940	Y
16	Panel Assembly, Side, Right		SRV7033-017	
17	Tube Channel Top - Tube Channel Access Cover		SRV7033-237	
18	Tube, Channel Assembly	Manifold Tubes	SRV7033-023	Y
	Gasket, Manifold	Pkg of 4	7038-168/4	Y
	Paint Touch-Up		3-42-19905	
FASTENERS				
	Avk Rivnut Repair Kit - 1/4-20 & 3/8-16 Rivnut Tools		RIVNUT-REPAIR	Y
	Bolt, Hex Head, 1/4-20 x 1	Pkg of 10	25221A/10	Y
	Screw, Sheet Metal #8 x 1/2 S-Grip	Pkg of 40	12460/40	Y



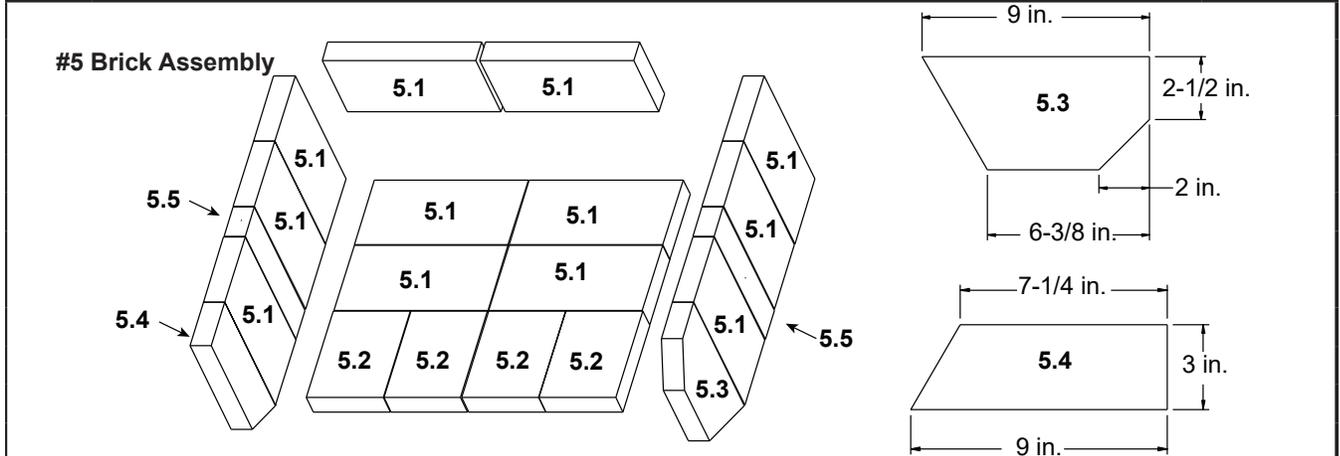
6
Reference
Materials

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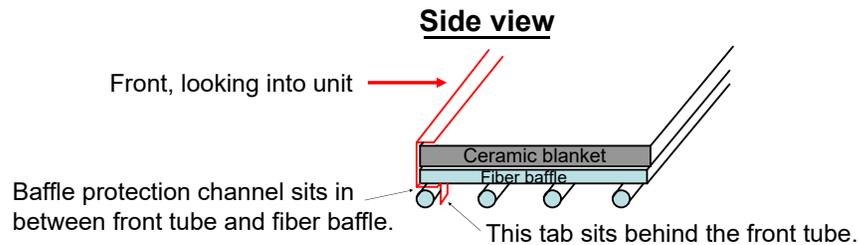
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ITEM	DESCRIPTION	COMMENTS	PART NUMBER
1	Air Channel, Convection w/Bracket - Retain original serial # label		SRV7033-144
2	Air Supply Back		SRV7033-134
3	Flue Collar		SRV7000-302
4	Panel Assembly, Side, Left		SRV7037-007



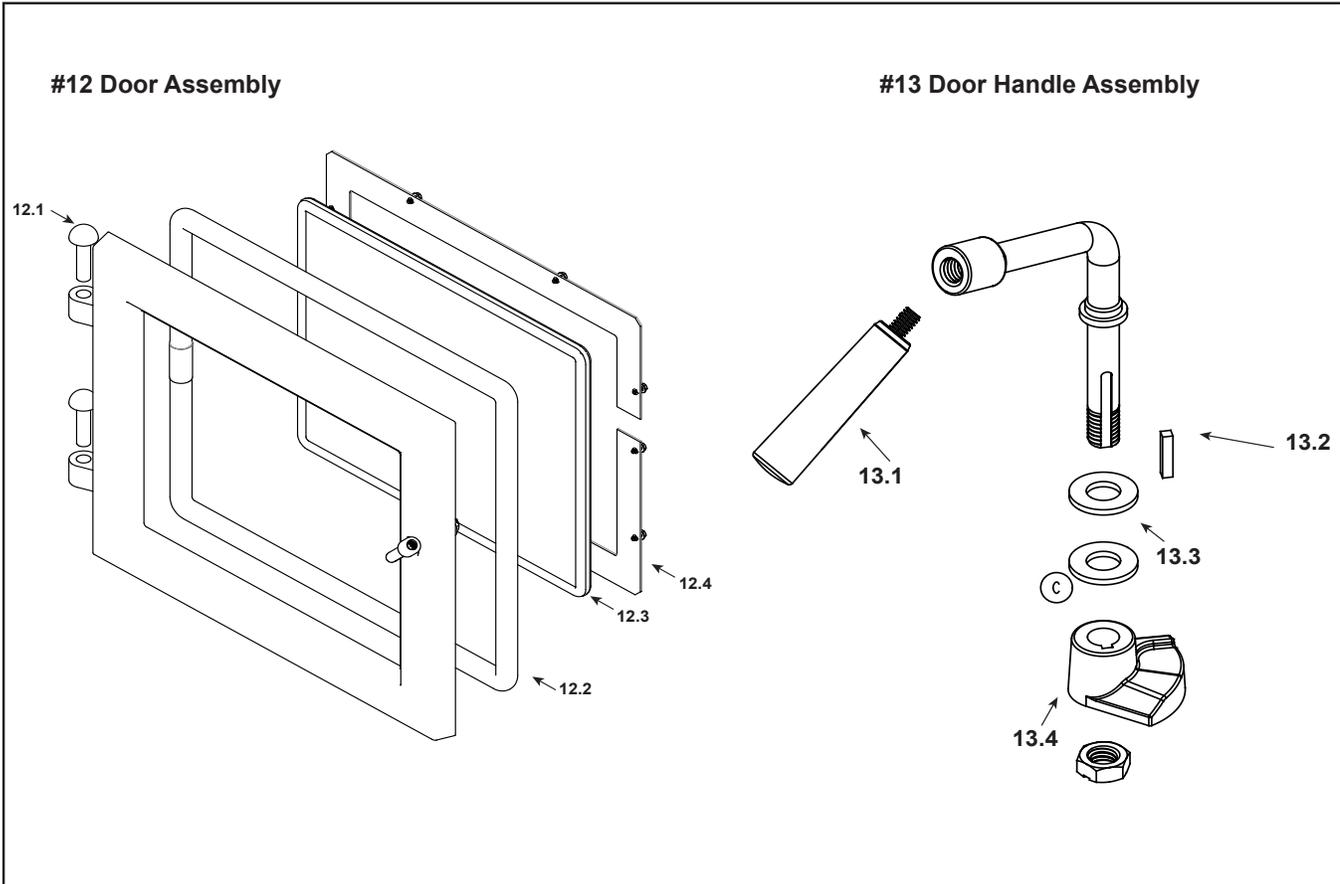
5	Brick Assembly, Complete Set	Pkg of 20	SRV7037-003
5.1	Brick, 9 x 4.5 x 1.25"	Qty. 12 Req	832-0550
5.2	Brick, 6 x 4.5 x 1.25"	Qty. 4 Reg.	SRV7128-002
5.3	Brick, 9 x 4.5 x 1.25" w/Angle	Qty. 1 Reg.	SRV7128-806
5.4	Brick, 9 x 3 x 1.25" w/Angle	Qty. 1 Reg.	SRV7128-618
5.5	Brick, small 9 x 2 x 1.25"	Qty. 2 Reg.	SRV7128-018
	Brick, Uncut	Pkg of 6	832-3040
6	Rear Air Channel Assembly		SRV7033-002
7	Ceramic Fiber Blanket, 1/2 " Thick	15 1/2" x 19 1/2"	832-3390
8	Baffle Fiber Board - 9-1/2" W x 15-3/4" H	Pkg of 2	SRV7037-112
9	Tube Support Rack		SRV7033-148
10	Brick Retainer	Qty. 2 Reg.	SRV7033-149

#11 Baffle Protection Channel



11	Baffle Protection Channel		SRV7033-298
	Mobile Home Brackets		SRV7039-208/4

Additional service part numbers are shown on following page



6
Reference
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IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.

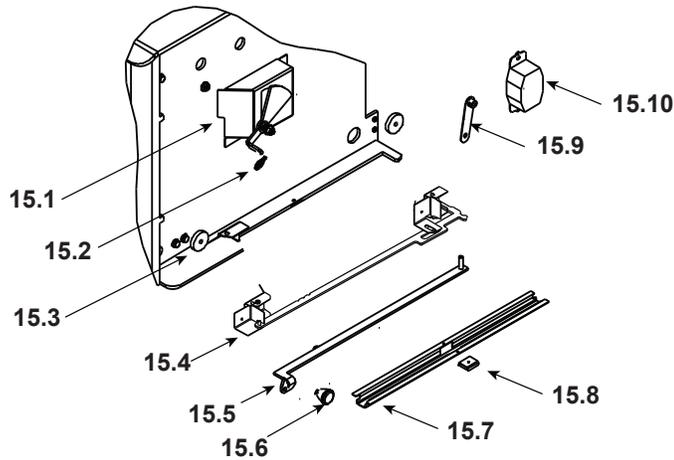


Stocked
at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
12	Door Assembly		SRV7037-061	
12.1	Hinge Pins, 1/2"	Black	7000-606/2	Y
12.2	Rope, Door, 3/4" x 84" - Field cut to Size	7 Ft Length	832-1680	Y
12.3	Door Glass Assembly - 15-1/2" W x 13-3/8" H		SRV7044-027	Y
	Gasket, Glass Tape - Field cut to Size	5 Ft Length	832-0460	Y
12.4	Glass Frame Set		SRV7044-191	
12.5	Screw, Flat Head Philips 8-32 x 1/2	Pkg of 12	220-0490/12	Y
13	Door Handle Assembly (Does not include Spring Handle)		SRV8001-002	
13.1	Door Handle	Fiber Handle	SRV7000-948	Y
13.2	Key, Cam Latch		SRV430-1151	
13.3	Washer, SAE, 3/8	Pkg of 3	832-0990	Y
13.4	Cam Latch		SRV430-1141	
14	Leg - Painted		SRV7039-060	

Additional service part numbers appear on following page.

#15 Burn Rate Control Assembly



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your appliance please provide model number and serial number.



Stocked at Depot

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
15.1	Burn Rate Control Assembly		SRV7037-054	Y
15.2	Spring Handle, 1/4"	Nickel	250-8340	Y
15.3	Door Gasket - Front & Rear Air Timer Doors		7033-282	Y
15.4	Timer Air Control Assembly		SRV7037-018	Y
	Rear Air Door Assembly		SRV7037-013	Y
15.5	Rear Air Control Arm Assembly		SRV7037-005	Y
15.6	Knob - Start-Up Control Knob		SRV7000-343	
15.7	Air Control Rod Guide		SRV7033-210	
15.8	Latch, Magnet - For Air Control		SRV229-0631	
15.9	Timer Arm Assembly		SRV7033-034	Y
16	Panel Assembly, Right Side		SRV7037-006	
17	Tube Channel Access Cover (Top)		SRV7033-237	
18	Tube, Channel Assembly	Manifold Tubes	SRV7033-023	Y
19	Timer (Only) Replacement Assembly		SRV480-1940	Y
	Paint, Touch-Up	Black	3-42-19905	
FASTENERS				
	Avk Rivnut Repair Kit - 1/4-20 & 3/8-16 Rivnut Tools		RIVNUT-REPAIR	Y
	Bolt, Hex Head, 1/4-20 X 1	Pkg of 10	25221A/10	Y
	Screw, Pan Head Philips Tc 8-32X1/2	Pkg of 12	220-0490/12	Y
	Washer, Sae, 3/8	Pkg of 3 ea.	832-0990	Y

