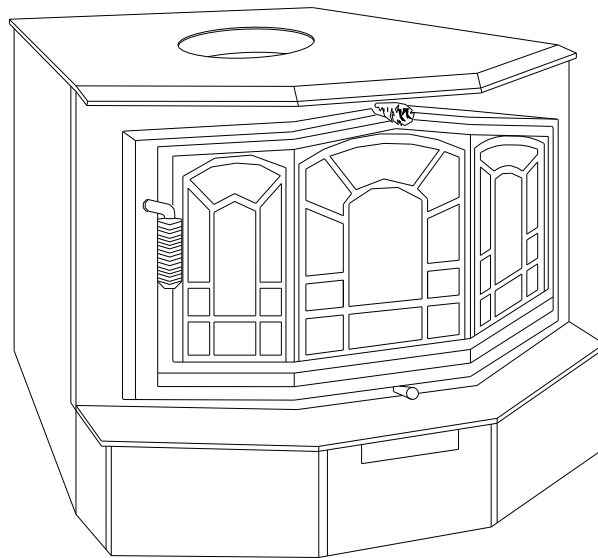


# *Appalachian's* *36-BW*

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## INSTALLATION AND OPERATION PROCEDURES

FIREPLACE INSERT - FREESTANDING

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Thank you for purchasing the Model 36-BW stove. Appalachian Stove welcomes you to the growing ranks of energy conscious Americans.

Heating with wood and bituminous coal is one way we can all help to conserve resources, as well as stimulate a healthy economy. The forest industry has worked for many years to assure a continual supply of our most abundant renewable resource - wood.

To fully benefit from your stove and to ensure safe operation, follow the instructions outlined in this manual carefully. We hope you enjoy many years of safe, economical heat from your Model 36-BW stove.

This manual describes the installation and operation of the Appalachian Stove's 36-BW catalytic equipped wood heater. This heater meets the United States Environmental Protection Agency's emission limit for wood heaters sold after July 1, 1988. Under specific conditions, this heater has been shown to deliver heat at rates of 10,597 to 30,221 BTU/hour.

# I. FEATURES AND OPERATING CONTROLS

Before installing and operating the Model 36-BW stove, familiarize yourself with its features.

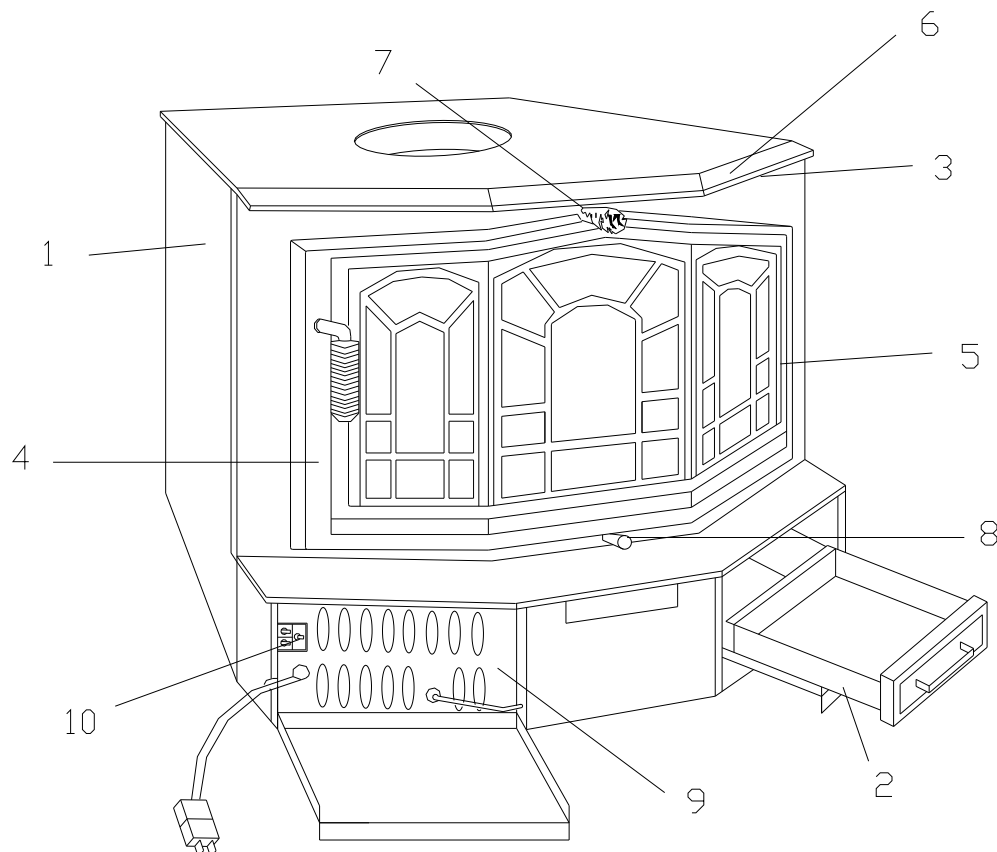
1. Quality steel construction - assures years of dependable service. The firebox is constructed of 4 gauge plated steel.
2. Ash pan - for easy removal of ash.
3. Warm air outlets - distribute heated air from around the firebox.
4. Single Cast Bay Window Door - seals the firebox for high efficiency.
5. Firebrick firebox liner - boosts burning efficiency by reflecting radiant heat back into the fire, which results in a more thorough and cleaner burn.
6. Warm air deflector - on the top of the stove edge directs heated air downward and across the floor for maximum comfort.

7. Sliding damper - helps increase heat extraction by controlling the escape of hot combustion gasses and smoke. The sliding damper is opened by pulling the control handle out and closed by pushing the handle in.

8. Draft control - regulate the burning rate and the heat output of the stove. The larger the fire, the more heat the unit will produce. The drafts are opened by pulling out the draft slide and may be left in any intermediate position. Start up air may only be opened during the building of the fire (5 minute max.).

9. Front mounted blower - circulates air around the fire chamber for increased heat. The easily mounted blower allows for quick access, if service is needed.

10. Three speed switch - assists in the adjustment of air circulation around the firebox. The automatic position is thermostatically controlled, the blower comes on when the activation temperature is reached. The manual position allows for blower start up at any time.



## II. CLEARANCES FOR INSTALLATION

### 1. INSTALLATION AS A MASONRY FIREPLACE INSERT

To ensure a safe installation, the following minimum clearances must be met:

A) Minimum of 16" from stove to the bottom of a combustible material.

B) Minimum of 9" from the edge of the trim panels to any combustibles.

C) Minimum of 12" from side wall of the stove to any combustibles.

D) Minimum of 12" of floor protection in front of the stove, of 3/8" fireproof millboard, or equivalent, for masonry fireplace.

(E) Minimum of 12" floor protection in front of the stove of 3/8" fireproof millboard, or equivalent, for factory built fireplace.

(F) Clearance to combustibles with Appalachian trim panel. To be installed without the pedestal into a masonry fireplace built in accordance with the uniform building code on a masonry hearth extending 12" from the front opening of the fireplace.

### 2. INSTALLATION AS A FREESTANDING UNIT

The Model 36-BW stove must be installed with adequate clearance from combustible surfaces to assure safe operation. (FIGURE 2)

A) Composition of the wall structure (combustible or non-combustible materials).

B) Type of stove pipe used to connect the stove to the chimney or flue (single wall to double wall, insulated pipe).

NOTE: Walls of wood frame construction covered with a non-combustible veneer, such as brick, are considered combustible walls.

1. If the stove is installed on a combustible floor, a protective pad of 3/8" fireproof millboard, or equivalent, must be placed beneath the pedestal. It must extend 8" from either side and rear of the stove, and 16" in front.

2. If the stove pipe is installed with an elbow to penetrate the wall into a flue, the minimum clearance of the elbow is 18" from the top of the stove pipe and the ceiling.

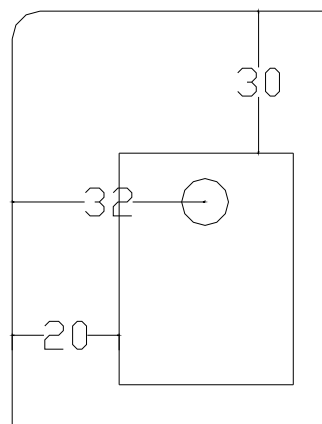


FIGURE 2 - FREESTANDING CLEARANCES  
(Top View)

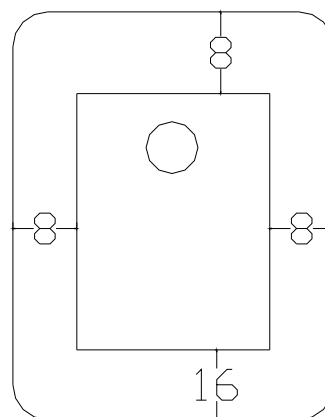


FIGURE 3 - CLEARANCE TO COMBUSTIBLES  
(Top View)

### III. FIREPLACE INSERT INSTALLATION

#### 1. STOVE COMPONENTS

- A) Model 36-BW Stove
- B) Adhesive Backed Insulation
- C) Top Trim Panel (1)
- D) Side Trim Panels (2)
- E) Firebrick Firebox Liner
- F) Assembly Screws
- G) Ash Pan
- H) Blower Assembly

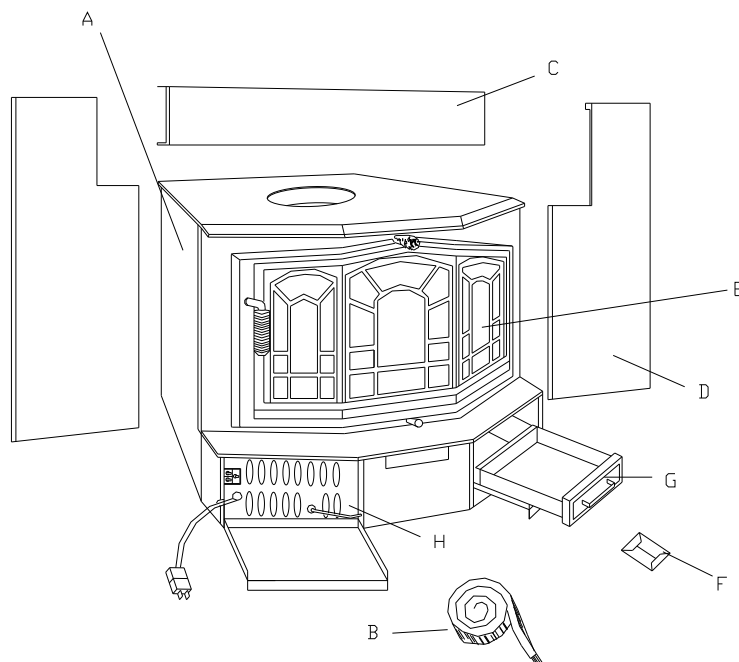


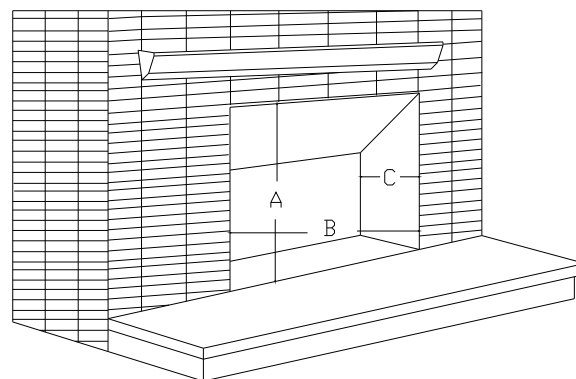
FIGURE 4  
FIREPLACE UNIT STOVE COMPONENTS

#### 2. PREPARATION

To facilitate the installation of your Model 36-BW stove:

- A) Clear the area around the fireplace of furniture, rugs, etc.
- B) Place drop clothes or other protective materials on the floor and hearth to protect against damage.
- C) Remove ashes and clean the firebox floor.
- D) Remove the damper plate, if possible, or block it open using non-combustible materials, such as brick or rock.
- E) Insert the interior of the firebox and flue for possible deterioration of mortar joints, loose bricks, and excessive creosote buildup.
- F) Make sure ash dump is closed and sealed.

NOTE: Clean flue BEFORE installing stove.



Dimension (Minimum)

A	B	C
24 1/2"	36"	20"

FIGURE 5

### 3. MOUNTING THE TRIM PANELS

A) Determine the depth needed for the stove to sit in fireplace.

B) Before placing the stove into the fireplace, place the top trim panel squarely on top of the stove, (square with the unit and fireplace opening).

C) Attach the top of the trim panel to the top of the stove using the top trim panel brackets and the self-tapping metal screws.

D) Slide the side trim panels onto the top trim panel. Use the self-tapping metal screws to secure the side panels. If desired, the top trim panel brackets can be removed for easy access to the top trim panel for inspection of the stove and chimney.

E) Use the foil backed insulation on the back side of the trim panels. Add silicone, if desired, to increase the seal around the stove.

### 4. INSTALLING THE STOVE

A) Slide the stove into the fireplace, centering it within the opening.

B) Push the stove back until the trim panels seal firmly against the face of the fireplace, compressing the insulation to accomplish a seal.

### 5. IMPORTANCE OF PROPER DRAFT

Draft is the force that moves air from the appliance up through the chimney. The amount of draft in your chimney depends on the length of the chimney, local geography, nearby obstructions, and other factors. Too much draft may lead to excessive temperatures in the appliance and may damage the catalytic combustors. Inadequate draft may cause backpuffing into the room and “plugging” of the chimney catalyst.

NOTE: Inadequate draft will cause the appliance to leak smoke into the room through the appliance and chimney connector joints.

NOTE: An uncontrollable burn or a glowing red stove part or chimney connector indicates excessive draft.

NOTE: Be sure the damper opening of the stove lies behind the lintel to prevent overheating the fireplace facing.

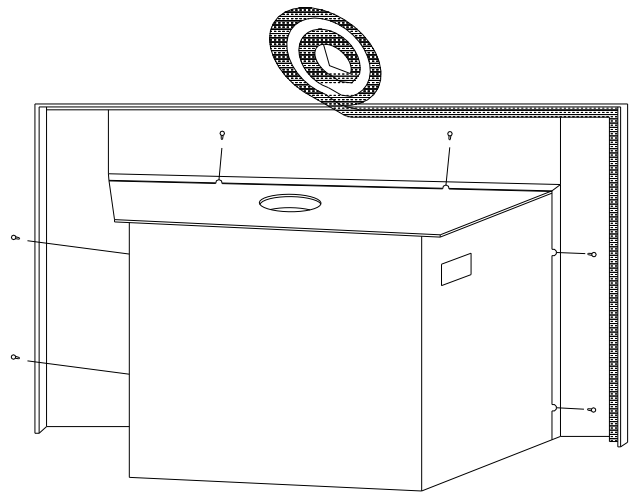


FIGURE 6  
TRIM PANELS

NOTE: If the floor of the fireplace is recessed, it must be built up with non-combustible materials, such as brick, scrap metal, etc. The 36-BW should sit level in the fireplace to function properly.

## IV. FREESTANDING INSTALLATION

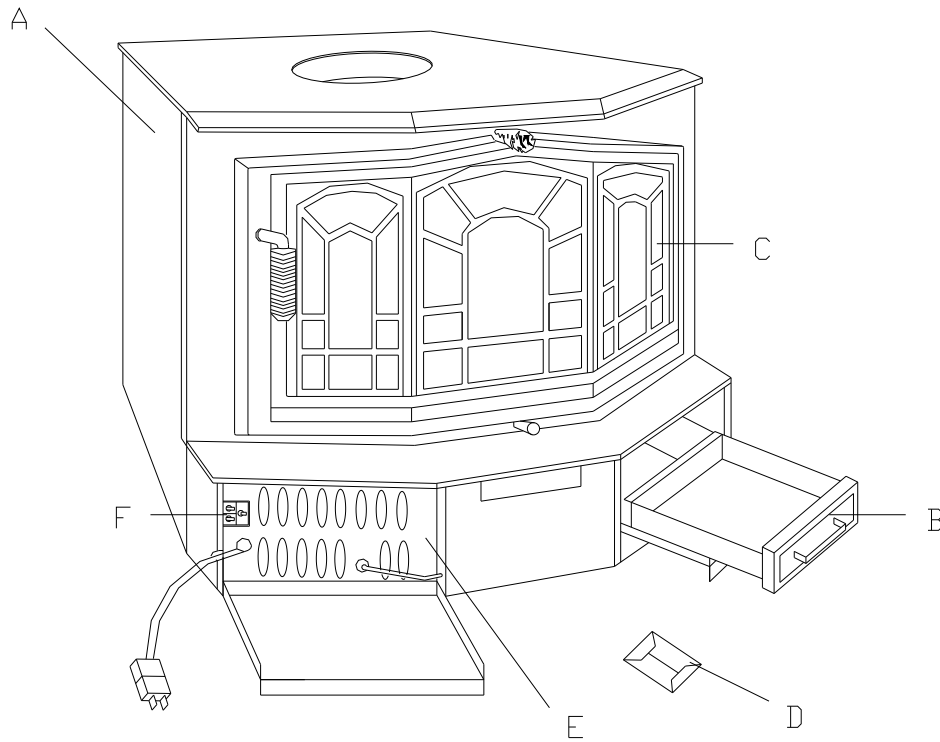


FIGURE 7  
FREESTANDING STOVE COMPONENTS

### 1. STOVE COMPONENTS

The following components are included with the 36-BW freestanding model:

- A) Model 36-BW stove
- B) Ash Pan
- C) Firebrick Firebox Liner
- D) Assembly Screws
- E) Blower Assembly
- F) Control Panel Assembly
- G) Pedestal (Not Shown)

### 2. PREPARATION

Proper preparation and planning of the installation will simplify the process and help achieve effective operation of the unit.

A) Select the location for the stove installation. The stove should be positioned so that the air flows to the rest of the home in the most direct route possible.

B) Locate the approximate penetration point of the chimney structure. Avoid roof areas such as valleys, ridges, dormers and hips.

Place the floor protector in position, if the installation is being made on a combustible floor. (Section II)

Place the stove in position and check clearances. (Section II)

### 3. MOUNTING THE FREESTANDING KIT

Tool needed: Drill

A) Remove the wooden blocks from the bottom of the stove. A drill may be used to remove the screws.

B) Position the pedestal on the bottom of the stove so that the “turned in” flanges are against the bottom of the stove. The front flange corners should be aligned with the widest stove corners.

C) Attach the pedestal using the drill screws provided. Drill into the holes after the pedestal is positioned correctly. The screws will make their own holes in the stove bottom.

### 4. CHIMNEY INSTALLATION (GENERAL)

A) The single wall stove pipe used to connect the stove to the flue, whether masonry or factory-built, must be a minimum of 24-gauge blue or black steel.

B) Secure every pipe joint with three or more sheet metal screws to prevent accidental separation.

C) If an elbow is installed, the horizontal section of the stove pipe should slope 1/4” per foot, or run toward the stove to allow creosote to drip into the firebox.

D) Always install the single wall stove pipe with the male (crimped) end down to prevent leakage of creosote or moisture.

### 5. INSTALLATION INTO MASONRY FLUE

Masonry flue for use with solid fuel appliances must meet the NATIONAL FIRE PROTECTION ASSOCIATION’S CODE 211 specifications.

Connection to the masonry flue is made with a masonry or terra-cotta type thimble cemented firmly in place.

Material around the thimble connection must provide adequate protection from fire. Use either 24” of solid masonry or an approved insulated connector.

Stove pipe should be inserted far enough into the thimble to assure a good connection, but must not extend past the flue lining.

Do not use more than one elbow in the stove pipe.

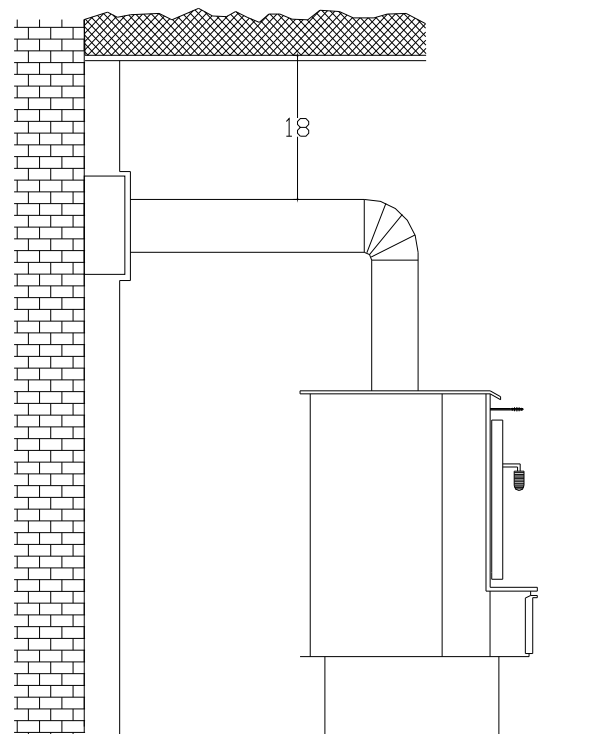


FIGURE 8  
INSTALLATION INTO MASONRY FLUE

## 6. INSTALLATION INTO FACTORY-BUILT CHIMNEY

NOTE: Use of aluminum type 13 gas vent for solid fuel is unsafe and prohibited by the National Fire Protection Association Code.

After the stove is positioned, suspend a plumb bob over the center of the damper opening to determine the chimney penetration point.

The Model 36-BW stove must be connected **ONLY** to a UL listed class A all fuel burning heating appliance chimney. **CAUTION: SOME CHIMNEYS ARE AVAILABLE WITH A UL LISTING THAT ARE NOT CLASS A AND ARE NOT SAFE FOR USE WITH A SOLID FUEL APPLIANCE.**

Install the chimney following the manufacturer's instructions exactly. **DO NOT DEVIATE FROM THESE INSTRUCTIONS!**

The chimney should extend a minimum of 3 feet from the roof structure or 2 feet higher than the highest point within 10, whichever is greater. This assures proper chimney function and reduces the possibility of back drafts.

NOTE: All installations must meet local building and fire codes. Check with local building officials for assistance in getting permits, inspections and good advice.

## 7. IMPORTANCE OF PROPER DRAFT

Draft is the force that moves air from the appliance up through the chimney. The amount of draft in your chimney depends on the length of the chimney, local geography, nearby obstructions, and other factors. Too much draft may lead to excessive temperatures in the appliance and may damage the catalytic combustors. Inadequate draft may cause backpuffing into the room and "plugging" of the chimney catalyst.

NOTE: An uncontrollable burn or a glowing red stove part or chimney connector indicates excessive draft.

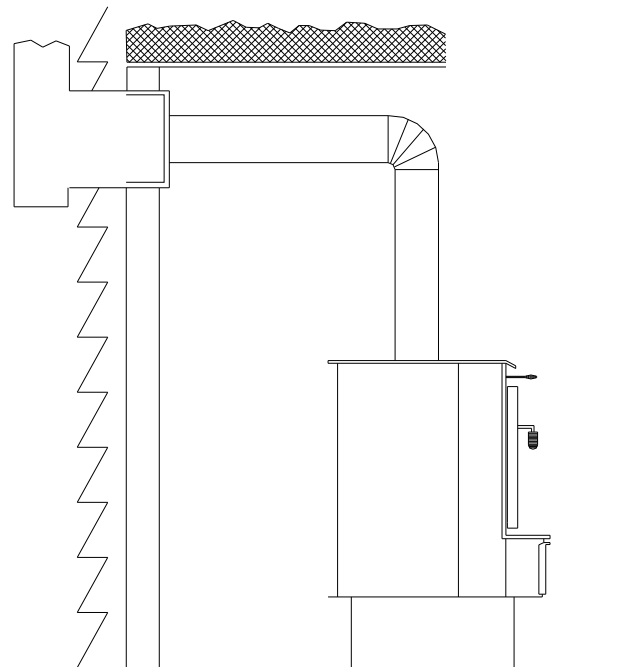
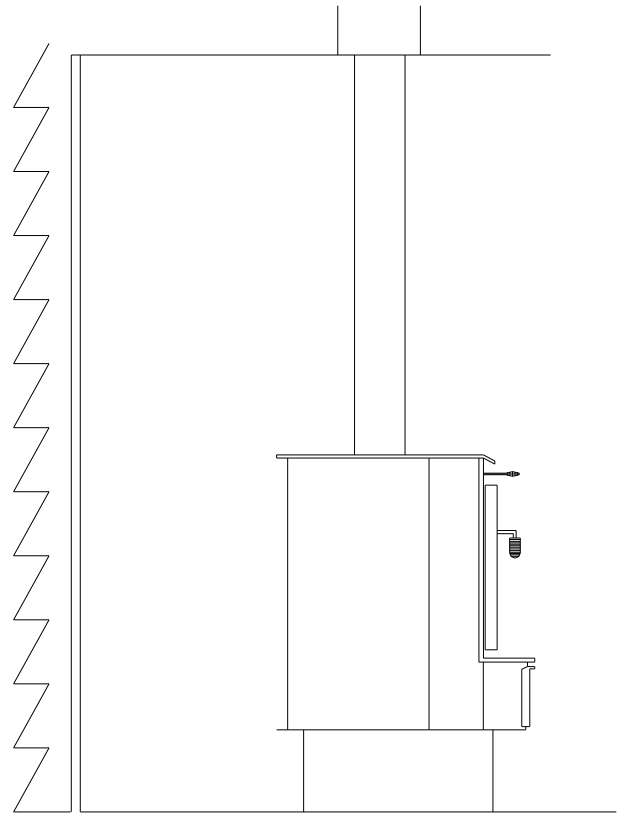


FIGURE 9  
INSTALLATION INTO FACTORY-BUILT CHIMNEY

## V. INSTALLING THE BRASS TRIM

### 1. STANDARD BRASS

(A) Spring Damper Handle - screw the handle onto the damper rod counter-clockwise.

B) Draft Knob - screw directly into the hole in the draft slide rod.

C) Brass Door Trim - factory installed.

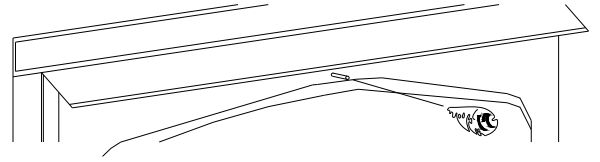


FIGURE 10

### 2. OPTIONAL BRASS (BRASS FOR TRIM PANELS)

1. Mount the top and side strips to the trim panels with the self tapping screws that are provided. Leave approximately 1" at the top edges of the trim to be covered by corner brass. If necessary, strips can be easily cut with a hacksaw.

2. Mount the two brass corners, overlapping the top and the side brass strips.

3. Remove the protective coating from the brass strips before use.

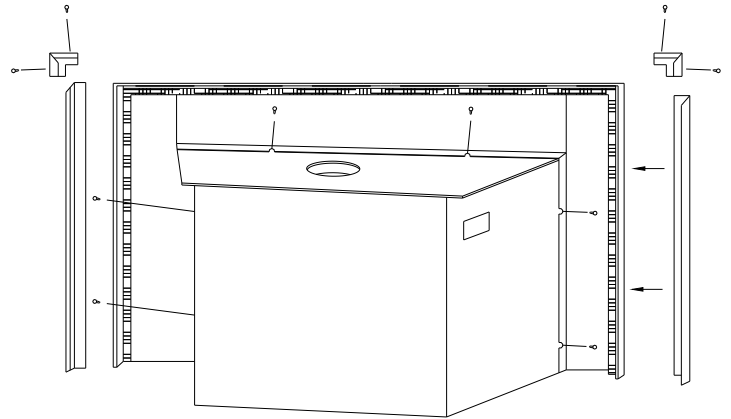


FIGURE 11

## VI. CATALYTIC COMBUSTORS

### 1. GENERAL INFORMATION

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

The combustors supplied with this heater are Applied Ceramics Versagrid Catalytic Converter. Consult the catalytic combustor warranty also supplied with this heater.

Warranty claims should be addressed to:

Applied Ceramics - Customer Service Department  
P.O. Box 29664  
Atlanta, GA 30359

Warranty Claims **MUST** have the following items:

1. Warranty Claim Form
2. Dated Proof of Purchase
3. Check for proper amount (including postage and handling)
4. APPLIED CERAMICS Catalytic Combustor

### 2. CATALYST MONITORING

It is important to periodically monitor the operation of the catalytic combustor to ensure that it is functioning properly and to determine when it needs to be replaced. A non-functioning combustor will result in a loss of heating efficiency and an increase in creosote and emissions.

Check the following items on a periodic basis:

\* Visually inspect combustors at least three times during the heating season to determine if physical degradation has occurred. Actual removal of the combustor is not recommended unless a more detailed inspection is warranted because of a decrease in performance. If any of these conditions exist, refer to the Catalyst Troubleshooting Guide on the following page.

\* This catalytic heater may be equipped with a temperature probe to monitor catalyst operation. Proper functioning combustors typically maintain temperatures in excess of 500 degrees F and often reach temperatures in excess of 1000 degrees F. If catalytic temperatures are not in excess of 500 degrees, refer to the Catalyst Troubleshooting Guide or further information located in this manual.

\* To determine if the catalyst is working, compare 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 the smoke is not routed through the combustor (bypass mode - damper open).

1. Light the stove in accordance with the instructions given on how to achieve catalyst light off.
2. With the smoke routed through the catalyst, go outside and observe the emissions from the chimney.
3. Engage the bypass mechanism (open the damper) and again observe the emissions leaving the chimney.

Significantly more smoke should be seen when the exhaust is not routed through the combustor (bypass mode - damper open). Be careful not to confuse smoke with steam from wet wood.

The 36-BW was designed to allow the owner to monitor the catalyst temperatures. A small port is located on the top of the stove. The port is positioned to allow for temperatures to be taken approximately 1" behind the right catalyst. The port may be used by removing the optional screw and inserting a thermocouple attached to a monitor. The thermocouple and monitor should be compatible and should read temperatures to approximately 1800 degrees F. The opening in the stove is 1/4" diameter.

#### Front Mounted Catalytic Probe

Locate the screw above the door and to the left of the damper. Remove the screw and insert a catalytic probe.

### 3. CATALYST TROUBLESHOOTING

Operation of any wood stove can create problems. While the use of a catalyst equipped wood stove will substantially lessen some of these problems, such as creosote formation, other traditional wood stove problems may remain.

These problems are invariable related to such conditions as draft, aging or failure of stove components, flue installation, wood supply and others. Here are a few clues that may be of some assistance in discerning these problems:

A sluggish stove performance may be attributed to: a poor chimney draft; an obstruction in the chimney; the chimney damper being closed; closing the bypass damper too soon; burning wet or unseasoned wood; the combustor being plugged or obstructed; or a combination of the above.

A drop in overall fuel efficiency may be attributed to: having cold, windy weather, burning wet, pithy, or spongy wood; the combustor not in operational mode (600 plus degrees); or the combustor being broken or dislodged.

A high fuel consumption may be attributed to: burning the wrong type of wood for the desired heat output; improper regulation of draft or inlet air (close damper after proper light off, install barometric damper set to .06 inches of water, or close inlet air as much as possible); cold, windy weather; or the combustor not engaged or functioning properly.

Backpuffing may be attributed to: gusts of wind; a hot combustor (above 1400 degrees F); or opening doors in a tightly constructed house.

Smoke rollout when the door is opened may be attributed to: the manual flue being closed; wind gusts blowing down the chimney; the combustor is not at operational temperature; or the stove door is being opened too quickly.

Glowing stove parts may be attributed to: running the stove too hot (excessive amounts of wood); a high draft (reduce when temperatures become too excessive); a glowing combustor (which is normal during first 1/3 of burn cycle); or a chimney fire (close inlet air and outlet dampers completely - if this does not help, vacate home and call the fire department immediately).

Creosote accumulation may be caused by one or more of the following: a poorly insulated chimney; a non-functioning combustor; types and amounts of wood burned; or a leaking damper plate.

Creosote leakage from metal flue joints may be caused by one or more of the following: no chimney cap; metal flue assembled improperly; or a normal increase in the moisture due to a higher efficiency of catalytic burning (condensation on cool chimney walls).

A heavy concentration of smoke leaving a chimney may be attributed to one or more of the following: improper wood being burned; the damper is open; or water vapor (on cold, still days, water vapor is often mistaken for smoke, the difference being that water vapor appears to be white and tends to rise vertically and dissipate rapidly while smoke is usually bluish brown and will drift down and settle down in low areas before dissipating).

A poor draft may be attributed to these factors: an improper chimney height; wrong size flue being used; cooler temperatures caused by external chimney; or a massive stone or masonry chimney.

An unhealthy combustor can be attributed to plugging, catalyst peeling, catalyst deactivation, masking, substrate cracking (thermal and mechanical), substrate crumbling, color variations (does not affect performance), or catalyst abrasion. An excellent guide to pinpointing and correcting these problems can be found either by consulting your catalyst warranty.

#### 4. CATALYST REPLACEMENT

To replace damaged or non-functioning catalytics follow these steps:

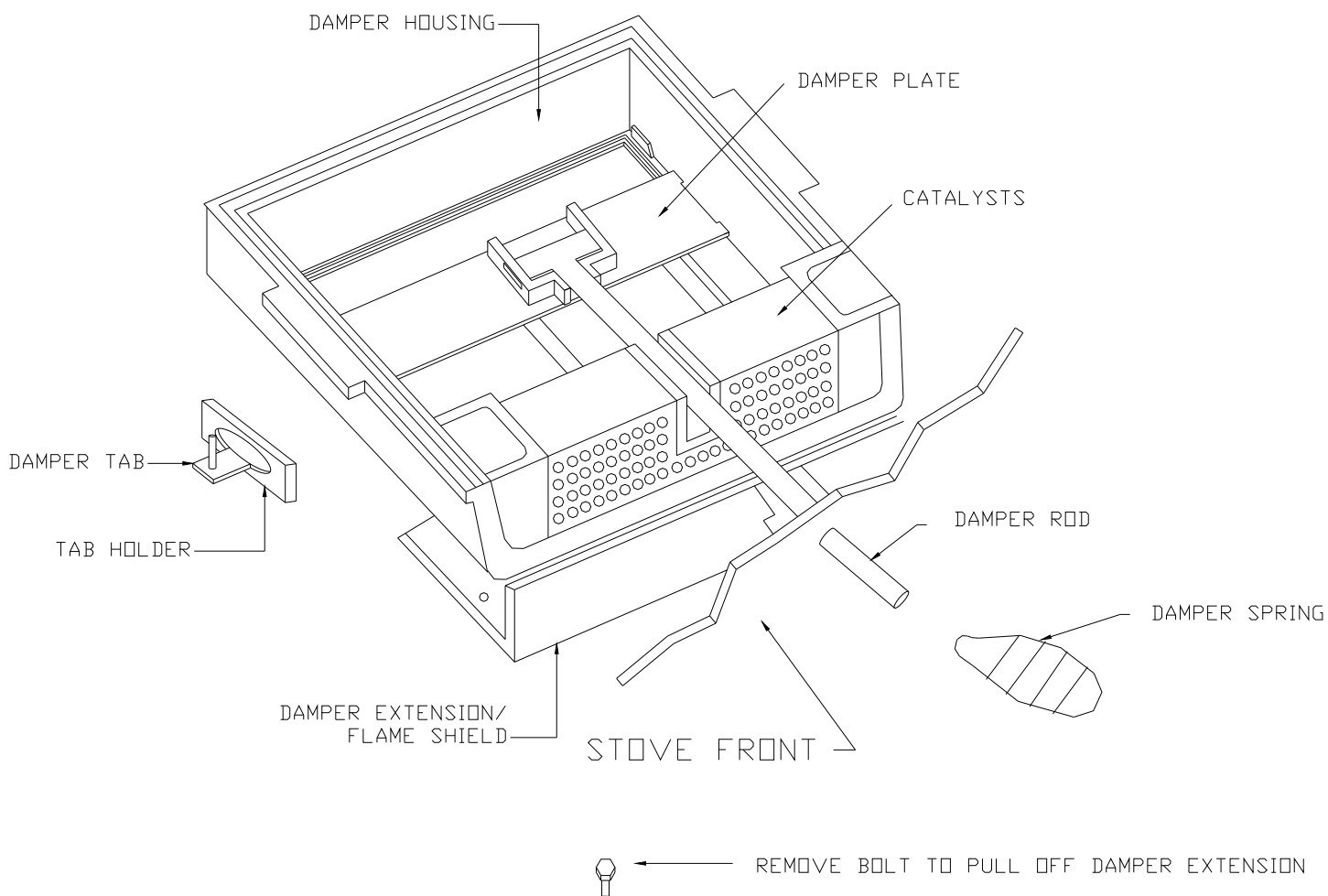
A) Loosen the damper tab bolts with 9/16" socket to allow the damper tab to slide back and lower the cast housing as shown.

B) Remove the mixing plate, sealing plate and catalyst. Clean the area where the catalyst sits to remove old gasketing. Inside the stove, check the area where the damper was located and clean away old gasketing, if necessary.

C) Install the new catalytics. Uncanned catalytics (catalyst not in metal housing) should be wrapped with 1/16" gasketing before installing. Locate the catalytics 1/2" from the front of the damper housing. Reinstall the sealing.

D) New gasketing should be installed to allow for a seal between the damper housing and the firebox top. This may be done by putting a layer of gasketing around the top where the housing will be located. In both cases the use of an adhesive to hold the gasketing in place will make the installation easier.

E) Remount the cast housing in the back of the stove. Tighten damper tab bolts. Make sure the damper slides easily. Use furnace cement to seal gaps between the sealing plate and catalytics, rod guide and the top of the firebox.



## VII. OPERATION

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Proper operation of your 36-BW stove will help ensure safe, efficient heating. Review these instructions.

### 1. FUEL SELECTION

The 36-BW is designed to burn natural wood only. Higher efficiencies and lower emissions generally result when burning air dried seasoned hardwoods, as compared to softwoods or to green or freshly cut hardwoods. **DO NOT BURN THE FOLLOWING:** treated wood, coal, garbage, solvents, colored papers, or trash. Burning these may result in the release of toxic fumes and may poison or render the catalytic ineffective. Burning coal, cardboard, or loose paper can produce soot, or large flakes of char or fly ash that can coat the combustor, causing smoke spillage into the room, rendering the combustor ineffective.

### 2. BUILDING AND MAINTAINING A FIRE

A) Open the manual control fully by pulling it out; the draft control is located between the blower and ash pan above the hearth.

B) There are two start up slides located below the main door. Open the slides as far as possible to open the start up draft completely. This feature is to be used only when your unit is starting sluggishly and only during the first 5 minutes of start up and reloading. Close slides during normal operation.

C) Place a base of crumpled uncolored newspaper in the bottom of the stove. Lay pieces of kindling on top of the newspaper and light it.

D) As the kindling begins to burn, add several larger pieces of wood until the fire is burning well. At this point, regular size logs may be added.

NOTE: Until the fire is burning well, leave the draft controls in the door fully open.

**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 AWAY FROM THIS HEATER WHILE IN USE.**

E) For a stove equipped with a catalytic combustor, the damper must be fully closed after the fire is burning well.

F) Regulate the heat output of the stove by adjusting the draft controls to allow a larger fire and vice versa. A short period of experimentation with the control settings will allow you to regulate the heat output to keep your home comfortable.

**CAUTION: DO NOT UNPLUG YOUR BLOWER WHILE THE STOVE IS IN OPERATION.**

**CAUTION: THE ASH PAN DRAWER MUST BE CLOSED WHEN THE STOVE IS IN OPERATION.**

For the best results in maintaining and achieving fewer emissions in your certified stove, we have found the following instructions to be helpful in operating the 36-BW:

\*For a high or maximum burn, fully open the manual draft control completely.

\*For a medium high burn, open the manual draft control approximately 3/4 of an inch and operate the blower on low speed. \*For a medium low burn, open the manual draft control approximately 1/4 of an inch and operate the blower on the low speed.

\*For a low burn, completely close the manual draft control and operate the blower on low speed. The blower is to be operated on the low speed.

### 3. OPERATING THE BLOWER

The blower may be operated on the automatic or manual setting. On the manual setting the blower will operate until turned off. (The blower cannot be turned off if the stove is hot.) On the automatic setting the blower will come on automatically when the stove is hot and will shut off when the stove cools down.

**CAUTION: DO NOT UNPLUG THE BLOWER WHILE THE STOVE IS IN OPERATION.**

### 4. REFUELING THE STOVE

A) Before attempting to add fuel to the stove, OPEN the damper control fully by pulling it all the way out. This allows the chimney to carry away the additional smoke that occurs when the door is open.

B) **DO NOT OVERLOAD THE STOVE.** Normally, three or four logs will provide heat for several hours. Never operate this stove where portions glow red hot.

### 5. ACHIEVING CATALYST LIGHT OFF FROM A COLD START

The temperature in the stove and the gasses entering the combustor must be raised to between 500 and 700 degrees F. for catalytic activity to be initiated. During the startup of a cold stove, a medium to high firing rate must be maintained for about 20 minutes. This ensures that the stove, catalyst and fuel are all stabilized at the proper operating temperatures. Even though it is possible to have gas temperatures reach 600 degrees F. within two to three minutes after the fire is started, if the fire is allowed to die down immediately, it may go out, or the combustor may stop working. Once the combustor starts working, heat generated by burning smoke will keep it working.

## 6. ACHIEVING CATALYST LIGHT OFF WHEN REFUELING

During the refueling and rekindling of a “charcoal phase” fire, operate the stove at a medium or high firing rate for about 10 minutes to ensure that the catalyst reaches approximately 600 degrees F.

It is important to periodically monitor the operation of the catalytic combustor to ensure that it is functioning properly and to determine when it needs to be replaced. A non-functioning combustor will result in a loss of heating efficiency and an increase in creosote emissions.

## VIII. MAINTENANCE

---

There are several areas of the stove and chimney system that will need periodic maintenance to ensure safe and efficient operation.

### 1. ASH REMOVAL

When ashes get 3 to 4 inches deep in your firebox, wait until the stove has cooled, then remove the grate at the bottom of the heater into the ash pan below. Carefully remove the pan. Ashes should be placed on a non-combustible floor or on the ground, away from all combustible materials pending final disposal. The ashes should be retained in the closed container until all cinders have thoroughly cooled.

NOTE: For the most efficient stove operation leave a minimum of 2” ash in the firebox at all times. This will help maintain a hot charcoal bed.

NOTE: DO NOT OVERFIRE 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.

### 2. CARE OF THE GLASS

The glass supplied with your stove is designed to withstand extremely high temperatures. However, like any glass product, IT CAN BE BROKEN! Take care not to bump it with a log or a poker, and be sure the wood is entirely inside the stove before attempting to close the door.

Periodically opening the drafts and allowing the fire to burn brightly will help reduce the soot buildup on the glass. The glass may be cleaned with a NON-ABRASIVE cleaner such as a spray glass cleaner or oven cleaner.

One of the simplest and most effective ways of cleaning the glass is to dip a dampened rag in the ashes and scrub the surface clean. The application of a non-stick cooking spray to the inner surface of the glass will help keep it clean.

### 3. CHIMNEY CARE

When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow burning fire. As a result, creosote residue accumulates on the flue lining. The chimney connector and chimney should be inspected at least twice yearly during the heating season to determine if a creosote buildup has occurred.

If creosote has accumulated, it should be removed to reduce the risk of a chimney fire.

NOTE: Insert model stoves should be removed from the fireplace for cleaning. Slide the stove out and place it on a piece of cardboard or drop cloths to protect the floor. The fireplace and throat of the chimney CANNOT be properly cleaned with the stove in place.

### 4. STOVE FINISH

All the stoves are finished with a specially formulated high temperature paint. During the first few firings of the stove, a slight odor of paint may be noticed. This is normal during the curing process and the fumes are not hazardous. If they should cause irritation, simply crack a window or door for a few minutes to disperse the fumes.

NOTE: Although non-toxic, the fumes MAY set off a smoke detector located near the stove.

### 5. BLOWER CARE

The blower should be removed and cleaned every four months. Unplug the blower before removing or servicing.

#### TO OIL THE BLOWER:

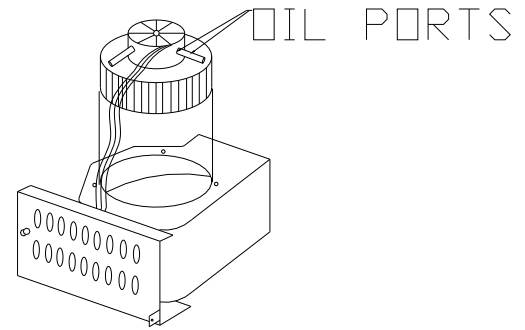
The blower should be oiled at least two times per season with SAE-20. The oil ports (2) are located on the opposite ends of the center hub on the top side of the blower (see illustration - next page).

## 6. DOOR GASKET REPLACEMENT

Remove all old gasket and clean the gasket channel, if necessary. Put high temperature silicone adhesive in the channel and lay the gasket in so that the ends of the gasket meet in the bottom right corner of the door back. Press down slightly.

## 7. MOTOR MAINTENANCE

Use turbine oil when lubricating motor. Perform this task every six months.



# IX. SAFETY

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1. If you plan to use an existing chimney with your stove, inspect it thoroughly to be sure it is sound and clean. Advise your insurance company to be sure your policy covers the use of a wood stove.

2. Be sure that firewood, furniture or other combustible materials are stored a safe distance from the stove.

3. Use smoke detectors near the stove as well as other areas of the home.

4. NEVER USE FLAMMABLE LIQUIDS TO START OR “FRESHEN UP” THE FIRE.

5. Periodically inspect the chimney for deterioration and creosote buildup. Clean it regularly to reduce the chances of a chimney fire.

6. Keep a fire extinguisher rated for class A fires near the stove. The dry chemical type of extinguisher is recommended, as liquid types can cause problems if sprayed onto a hot stove. BE SURE EVERY MEMBER OF THE FAMILY KNOWS WHERE THE EXTINGUISHER IS AND HOW TO USE IT!

7. Use of a chimney cap with an approved spark arrestor is recommended.

8. Use caution when loading or working around the stove to prevent burns.

9. Make sure the ash pan drawer is closed when the stove is in operation.

**WARNING: THE INSTALLATION OF THIS STOVE MUST COMPLY WITH STATE AND LOCAL REQUIREMENTS AND BE INSPECTED BY THE STATE OR LOCAL INSPECTOR, IF REQUIRED.**

## X. LIMITED WARRANTY

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The Appalachian Stove is warrantied to be free of defects in materials and workmanship for a period of five years from the date of purchase when used in accordance with the recommendations of the manufacturer, with the following exceptions: electrical, limited to the warranties offered by those respective manufacturers (1 yr.); glass, refractory, firebrick, andirons and decorative trim have no warranty.

Defective parts will be repaired or replaced at the manufacturer's option. Parts which are returned to Appalachian Stove and Fabricators, Inc. within 30 days of purchase and found to be defective on inspection will be replaced without charge for the new part. After 30 days, parts covered by the warranty will be repaired or replaced free with the exception of freight charges which become the responsibility of the purchaser. All replacement parts are shipped F.O.B. factory (freight collect). This warranty does not cover damage caused by alteration, repairs, abuse, tampering, or improper operation of this unit. It does not cover damage from handling or acts of God.

This warranty is in lieu of all other warranties expressed, implied or statutory, and the manufacturer expressly excludes any implied warranty of fitness for a particular purpose or an implied warranty of merchantability, and all other obligations or liabilities of the manufacturer who neither assumes nor authorizes any person to assume for it any other obligations or liability in connection with its products. In addition, the manufacturer shall be held free and harmless from liability from damage to property or injury to persons related to the operation, proper or improper use of the equipment. This warranty applies only to the original purchaser. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

All claims made by the purchaser under this warranty should be directed through the dealer from whom the unit was purchased. If the dealer cannot be contacted after reasonable effort, claims may be placed with Appalachian Stove and Fabricators, Inc.

Stove Model: \_\_\_\_\_

Serial #: \_\_\_\_\_



APPALACHIAN STOVE & FABRICATORS, INC.  
329 EMMA ROAD  
ASHEVILLE, NC 28806

Phone: (828) 253-0164

Fax: (828) 254-7803

# STANDARD APPALACHIAN MOTOR REPLACEMENT

VERY IMPORTANT:  
UNPLUG  
BLOWER

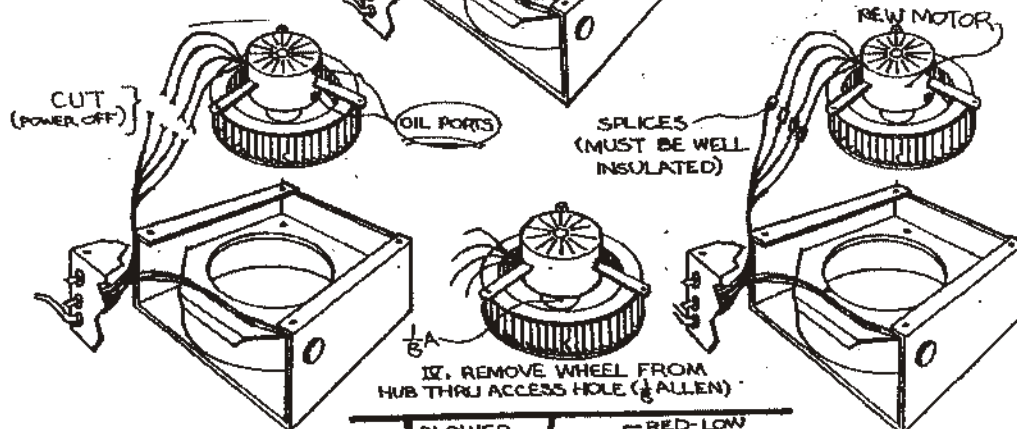
I. REMOVE BLOWER BY PULLING IT OUT OF THE MOTOR HOUSING. REMOVE THE 4 PH'S AS SHOWN AND REMOVE SWITCH PLATE.

II. REMOVE THE THREE MAIN BOLTS; THEN REMOVE HUB & WHEEL BY PULLING UP.

III. DISCONNECT WIRING EITHER BY CUTTING MOTOR WIRES (AS ILLUSTRATED) OR REMOVING THEM FROM DIRECTLY BEHIND THE SWITCHES. (THIS WOULD REQUIRE THE USE OF A SOLDERING GUN)

V. CONNECT WHEEL TO NEW MOTOR HUB

VI. RECONNECT WIRES TO NEW MOTOR (COLORS WILL MATCH) YOU MAY NEED TO REFER TO WIRE DIA. BELOW.



IX. REMOVE WHEEL FROM HUB THRU ACCESS HOLE (1/8 ALLEN)

WIRE CONFIGURATION  
(IN CASE EXTENSIVE WIRING IS NEEDED)

MAX OUTPUT: 300 CFM

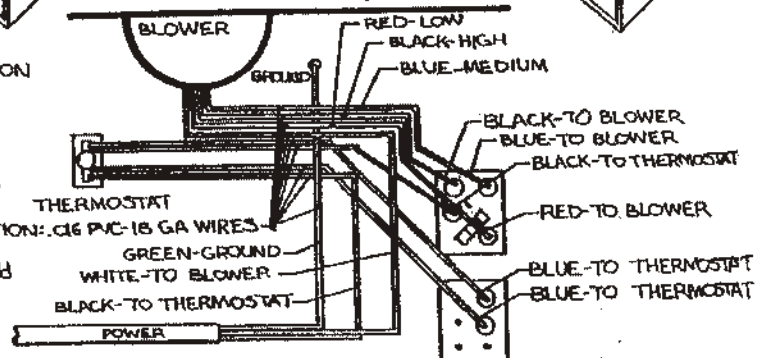
LUBRICATION:

The motor bearings should be relubricated every 6 months with 10 or 20 drops of SAE 10W or 20W non-detergent oil (ML Type) or with electric motor oil.

INSULATION: CIG PVC-18 GA WIRES

GREEN-GROUND  
WHITE-TO BLOWER  
BLACK-TO THERMOSTAT

INSULATION: THERMO PLASTIC  
GAUGE: 18-3 SUT



## XI. WARRANTY REGISTRATION

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NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_ ZIP \_\_\_\_\_

STOVE MODEL: \_\_\_\_\_

SERIAL NUMBER: \_\_\_\_\_

DATE OF PURCHASE: \_\_\_\_\_

DEALER NAME: \_\_\_\_\_

\_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_

HOW DID YOU HEAR ABOUT APPALACHIAN STOVE? \_\_\_\_\_

\_\_\_\_\_

TYPE OF HEAT YOU PRESENTLY HAVE? \_\_\_\_\_

APPROXIMATE SQUARE FEET OF HOME: \_\_\_\_\_

NUMBER OF ROOMS: \_\_\_\_\_

TYPE OF CONSTRUCTION:

\_\_\_ BRICK \_\_\_ LOG \_\_\_ FRAME \_\_\_ MASONRY

HOW DO YOU PLAN ON USING YOUR STOVE?

\_\_\_ PRIMARY HEAT \_\_\_ SUPPLEMENTAL HEAT

ARE THERE OTHER FEATURES OR ACCESSORIES YOU WOULD LIKE TO SEE OFFERED? \_\_\_\_\_