THE ELMIRA INSERT:
is listed to ULC Standard
S-628 & UL 907 by Warnock Hersey
Professional Services Ltd.

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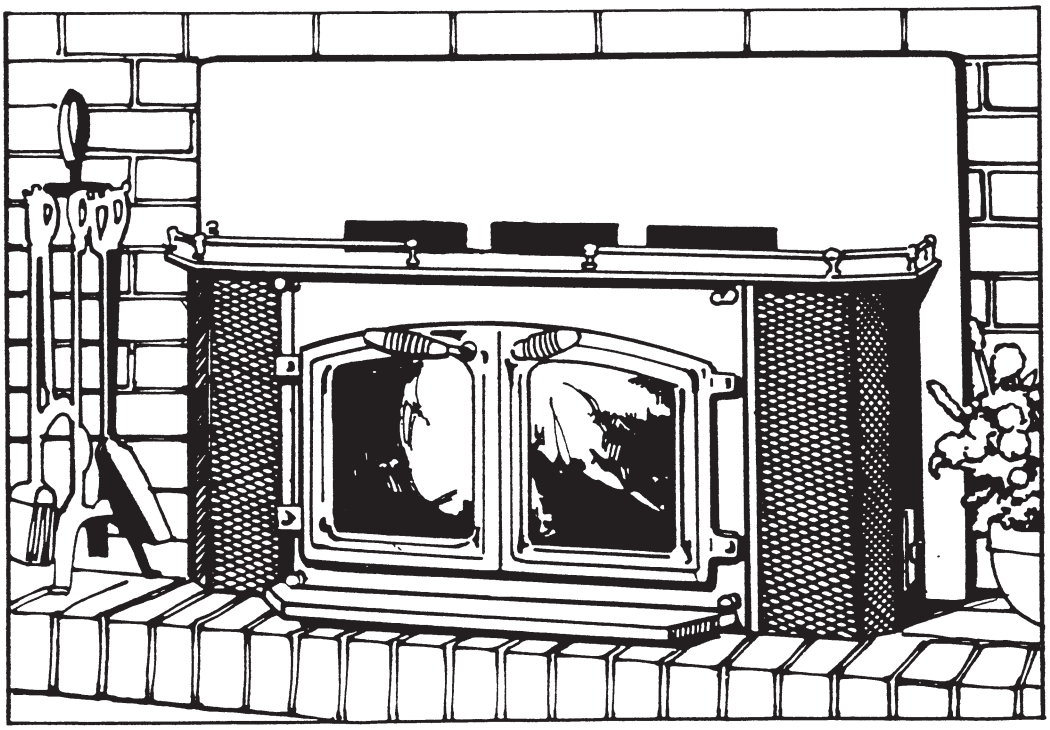
Elmira Stove Works

Owner's Manual for the FIREPLACE INSERT



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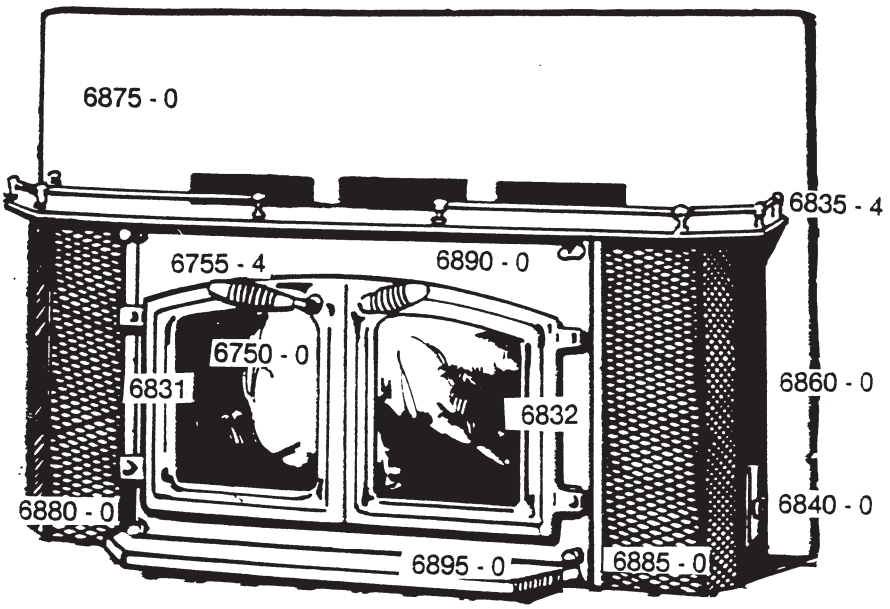


ELMIRA FIREPLACE INSERT PARTS CHART

6750 - 0	Corning Pyroceram Glass
6755 - 4	Gold-Plated Spring Handle
6765 - 0	Two piece firebrick set
6785 - 0	Levelling Bolt
6790 - 0	Fiberglass Insulation
6795 - 0	Wire for Insulation
6810 - 0	Direct Flue Hook-up
6831 - 2	Left black cast door
6832 - 2	Right black cast door
6831 - 4	Left gold cast door
6832 - 4	Right gold cast door
6835 - 4	Decorative Rail set
6840 - 0	Decorative Switch plate and screws
6860 - 0	Electrohome Blower
6875 - 0	Removable faceplate
6880 - 0	Solid screen with no switch hole Left or Right
6881 - 0	Left screen with switch hole
6885 - 0	Right screen with switch hole
6890 - 0	Air-Intake Control Knob with Bolt
6895 - 0	Ash catch

INTRODUCTION

Your new Insert will give you many years of service and pleasure however, to ensure safe and trouble free operation, be sure to read these instructions carefully before commencing installation. Failure to do so could result in a fire hazard. Consult your dealer or local fire or building official if any questions arise.

PLEASE READ THIS INSTALLATION MANUAL BEFORE BEGINNING

GENERAL INFORMATION

The Elmira Fireplace Insert is intended for use only in masonry fireplaces constructed in accordance with all national and local building code standards. It is not to be installed in factory built or zero-clearance fireplaces. The Elmira Insert requires minimum fireplace dimensions of 20 inches high 27 inches wide, 18½ inches deep and 21 inches wide at the back of the fireplace for proper installation. The fireplace opening should not exceed 44 inches wide and 28 inches high. Do not remove bricks or mortar from the fireplace structure.

CONTENTS INCLUDE

a) A two-piece firebrick base
b) One roll stove pipe wire
c) Two side fiberglas insulation pieces 19" x 21"
d) One back fiberglas insulation piece 21" x 46"
e) Two, six inch wide insulation pieces to be placed between Insert and fireplace facing
f) ash catch
g) One grate bar assembly
h) Two 3/8" rear levelling bolts
i) One direct flue connection consisting of:
   1) One ceiling plate 18" x 36"
   2) One 45" x 8" diameter black elbow.
   3) One 8" diameter telescopic pipe section
   4) Six 3/4" cement nails
   5) One 10" rod
j) four gold plated air intake control knobs & bolts
k) one set of gold plated rails and bolts
l) one removable face plate 29" x 46"
m) two side screens.

PREPARING THE FIREPLACE

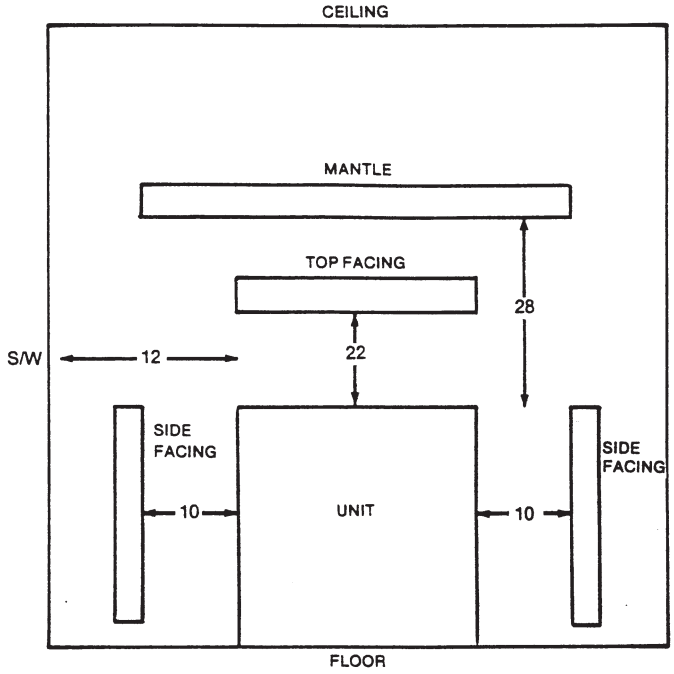
1) Clean out the inside of the fireplace (see maintenance instructions for handling of hot ashes).
2) Check to be sure the chimney and fireplace are clean and in good condition. Have a qualified mason repair any structural damage or deterioration before installing the insert. Mortar crack in the fireplace system can cause air leaks resulting in a smoke filled room.
3) If your fireplace has an ash dump or outside air inlet, pack it with fiberglas insulation.

IMPORTANT

Remove the existing fireplace damper or lock in the open position.

INSTALLATION CLEARANCES

Minimum sidewall clearance 12"
Minimum top wood trim clearance 22"
Minimum side wood trim clearance 10"
Minimum mantle clearance 28"



FIREPLACE INSERT

Do not place combustible materials (i.e. drapes, furniture, bookshelves) within 48" to the front and 36" to the sides of the insert.

A non combustible hearth of 3" concrete or equivalent must extend 18" to the front and 8" to the side of the insert opening. In Canada and the U.S.A. ULC and UL require the Insert to be installed with a direct flue connection. (See page 3).

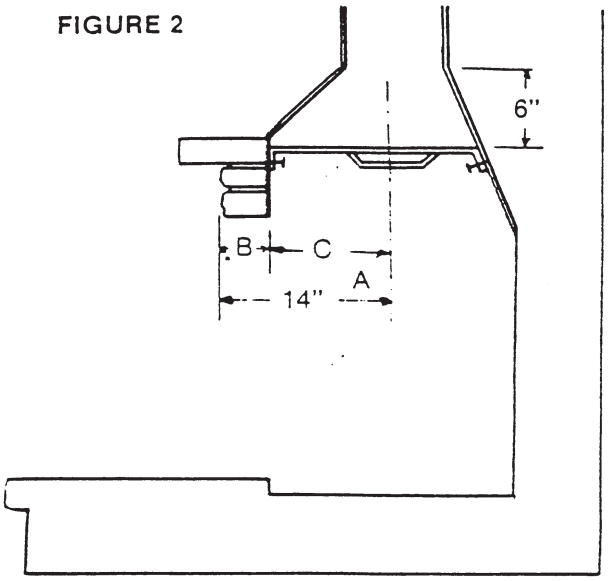
TOOLS & SUPPLIES REQUIRED FOR INSTALLATION

Tin snips	Cardboard sheet 20" x 32" (for template)
Hammer	Utility Knife
Measuring Tape	Caulking Gun
One Caulking cartridge of Silicone Seal	Fine Point felt marking pen

INSTALLATION OF THE DIRECT FLUE CONNECTION

The following steps outline the method of construction and installing the direct flue connection. It is important that the Insert flue center line, lines up with the centre hole of the ceiling plate.

FIGURE 2



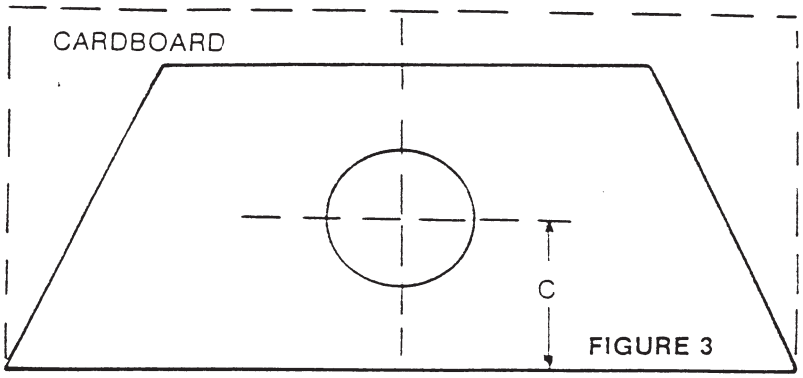


FIGURE 3

1. Measure the fireplace throat (Width & Depth) about six inches below damper opening. (See figure 2)
2. Cut a cardboard template to above dimensions and test for proper fit.
3. Draw centre line on the template from front to back. (See figure 3)
4. Establish the centre line for the depth as follows. A dimension is 14". B dimension is depth of facing. C dimension is A minus B. (See figure 2). Mark centre line.
5. Where the centre lines cross, cut out 8 1/8" diameter flue hole (use compass or stove pipe to trace circle). (See figure 3)
6. Place cardboard template on metal ceiling plate making sure the holes are lined up. Tape template to ceiling plate.
7. Trace the outline of the cardboard template on the metal ceiling plate and remove template. (See figure 4).
8. Add 1" bending allowance on all four sides for lip and cut to shape, making sure corners are notched.
9. Bend lips down to the required angles. (Example —clamp sheet metal between two pieces of wood and bend.)
10. Test the ceiling plate for proper fit and remove.
11. Insert flanged pipe in ceiling plate hole from top.
12. Spread a bead of silicone seal on the 4 lips of the ceiling plate and place into position in the throat of the fireplace. Secure the plate onto the masonry with the 6 cement nails supplied. Make sure pipe is vertical. (See figure 5)
13. Install the telescopic pipe section over the ceiling plate extension pipe. Make sure the two 1/4" holes located at one end of the pipe section are to the top. Push the pipe tight against the ceiling plate.

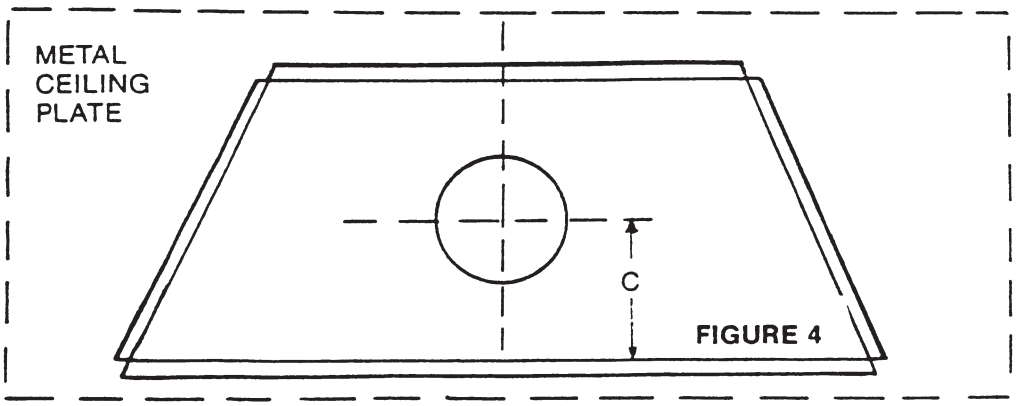
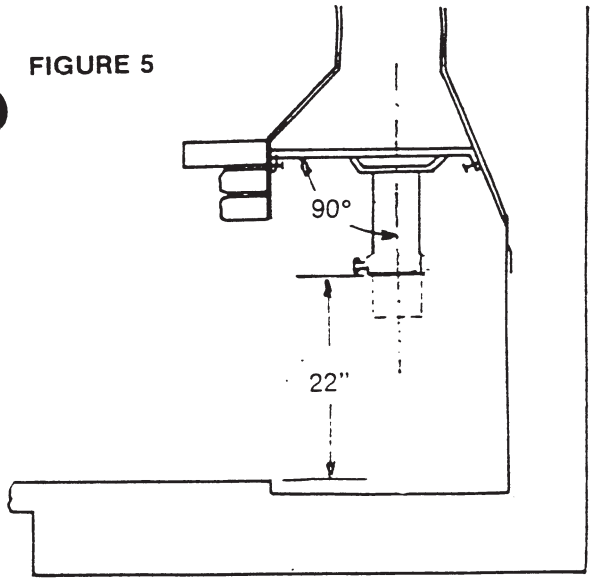


FIGURE 4

FIGURE 5

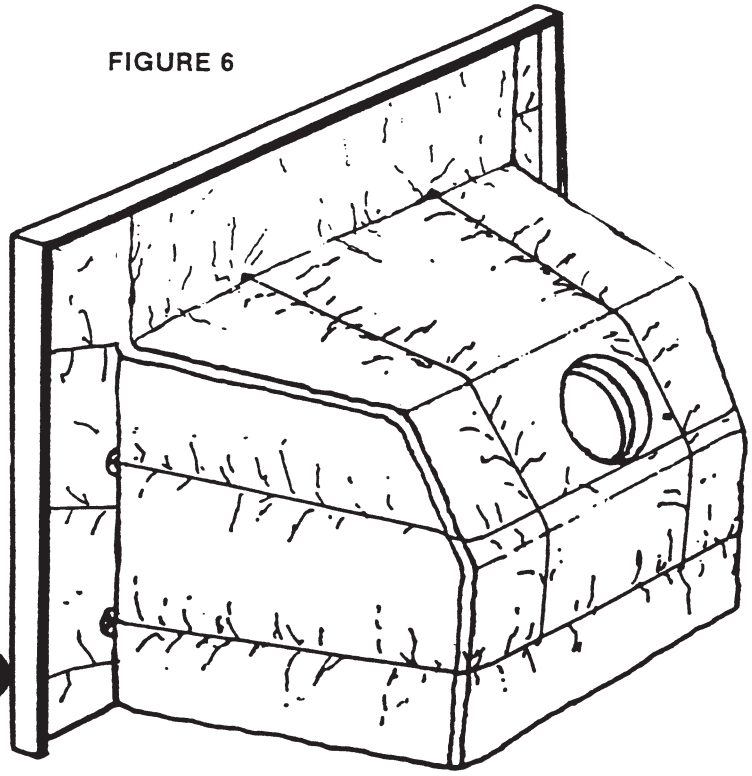


14. Measure 22" from the hearth of the fireplace and cut off excess pipe. (See figure 5)
15. Reverse the pipe so that the two 1/4" holes are at the bottom.
16. Insert 10" rod into pipe.
17. Push pipe up to ceiling plate (22" from hearth) to allow Insert to be installed.

PREPARING THE INSERT

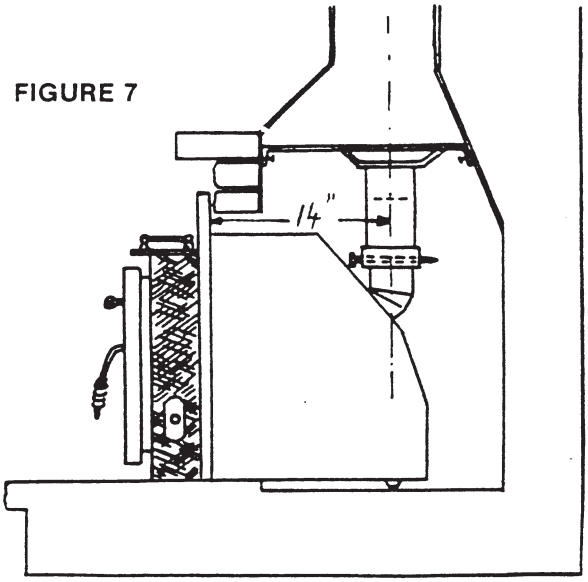
1. Remove all contents from inside the Insert.
2. Place one 19" x 21" insulation piece on each side of the firebox and cut insulation to fit contour of the firebox.
3. Place the 21" x 46" insulation on the back, top and face plate of the insert. (See figure 6)

FIGURE 6



4. Secure fiberglas insulation in place by tying wire (supplied) to the wire retainers on the side of the firebox. Loop wires around back of the firebox and fasten to retainers on opposite side. Secure wires to top retainers on firebox and fasten to lower horizontal wire on back of the firebox. (See figure 6).
5. Cut a 8 1/8" round hole in the fiberglas at flue position.
6. Measure drop between the fireplace floor and fireplace hearth. If the floor and hearth are level, no levelling is required. If a drop does exist, adjust the rear levelling bolts to compensate for this drop. This procedure insures that the Insert is installed in a level position. Levelling bolts may be adjusted from inside the firebox with a regular slot screwdriver.
7. Push the elbow into the flue collar. (See figure 7)

FIGURE 7



8. Fasten the faceplate with the eight bolts and six nuts provided.
9. Lift the Insert onto the hearth and walk it into the fireplace opening leaving a 4" space between the Insert and the fireplace facing.
10. Place the 8" wide fiberglas strips between Insert and fireplace facing.
11. Push Insert against fireplace facing making sure no air spaces are visible.
12. Reach into the flue and pull connector pipe tightly into elbow. (Use rod as handle).

    NOTE: If experiencing difficulties connecting flue pipe to elbow, remove Insert damper assembly.

13. Install ash catch beneath firedoor.
14. Place grate bar assembly onto holding brackets inside fire chamber.
15. Push blower control know onto shaft.

START UP PROCEDURES

Your Fireplace Insert is equipped with a thermostatically controlled blower assembly that will automatically activate after the Insert has been fired (approximately within 20 minutes) and will turn off when the fire goes out.

Plug power cord into receptacle.

NOTE: Make sure there is power at the receptacle (110 volts).

The blower has been designed with a three speed (hi - med - low) switch with no off position. Because of the heat in the blower area while the Insert is running, the blower will shut off automatically only when Insert has cooled.

IMPORTANT: Do not unplug while Insert is being fired or use while power is off without removing blower from insert, as heat could melt oil seals.

IMPORTANT PRECAUTIONS

— Burn wood only.
— Build fire only behind grate bar assembly.
— Do not store combustible materials within 48" of Insert.
— This Insert is designed to operate with the door closed only.

FIRING YOUR INSERT

1. To light, open both primary and secondary combustion air controls located on each side of the door bottom and top. (To open controls, move the four knobs away from the centre of the door).
   After fire has been burning and the chimney is warm (about 10 minutes) you should be able to close or partially close the bottom air controls. The top air controls (air wash) direct air over the glass and into the fire. It not only keeps the windows cleaner longer, but tests prove that fires burn cleaner using top air.
2. Crumple paper and place behind grate bar assembly. Cover with kindling wood and light. When fire is burning well add firewood and close the door. Adjust combustion controls for desired rate of burn.

   NOTE: If the fire smokes when first lit, it may be because of a downdraft or cold air in the chimney. To prime chimney, light a torch of rolled newspaper and place into insert flue until chimney begins to draw.

3. The damper located in the flue collar restricts heat loss up the chimney automatically.
4. Build a small fire first to allow paint and brick to cure. An odour may be noticed from this curing process but it will disappear quickly.

CAUTION: Never start fire with volatile liquids such as gasoline or lighter fluid. Never leave aerosol containers or any flammable liquids on the cooking surface or near the fireplace.

PREVENTIVE MAINTENANCE

Stove Maintenance

Check the door gaskets periodically for proper seal. Worn gaskets can cause air leakage into the stove resulting in lost efficiency or wasted fuel. 5/8" door seal material or window gasket can be purchased from your local wood stove dealer.

To renew the finish on your stove, we recommend the use of Thermolux Hi heat aerosol paint available from your dealer. Before painting, rough up the paint with either fine steel wool or sandpaper. Follow painting directions on side of paint can. Do not paint stove when hot.

In case the doors may require adjustment, you can loosen the nuts on the hinge pins with a wrench. Adjust door to desired fit with a slot screwdriver and tighten nuts.

Care of 24 Karat Gold Doors

The optional 24 Karat Gold doors are guaranteed not to tarnish. Clean doors with a windex type liquid glass cleaner and a soft cloth. The gold finish will virtually last forever.

Do not use polishes or cleaners that contain abrasive agents to clean gold doors as they will mar or scratch the finish.

Glass Maintenance

This stove is equipped with Corning Pyro Ceram 5M.M. glass which can only be broken by impact or misuse.

Do not slam stove door or impact the glass. When closing door make sure that logs or other objects do not protrude against the glass.

Never attempt to clean the glass while hot, clean the glass with a non abrasive glass cleaner available from your dealer. Abrasive cleaners may scratch and cause glass to crack.

Inspect the glass regularly. If you detect a crack or break extinguish fire immediately and return door to your dealer for a glass replacement before further use.

Do not use substitute materials for glass replacement. Keep fires away from the glass.

BLOWER

1. The Elmira Insert is equipped with an Electrohome thermostatically controlled blower assembly. The blower is equipped with a three speed switch. If any part becomes defective be sure to replace with original component parts available through your dealer or Elmira Stove Works.

2. The blower is equipped with perma lube ball bearings and requires no lubrication. Should you hear a noise or notice a drop in air flow, unplug power cord, remove the control knob, plate and screen.
3. Unscrew the self tapping bolts holding the blower in place and remove the assembly.
4. Carefully check fan blades for foreign materials (eg. grease, dust, etc. or loose screws on housing.)
5. Clean fan blades with a small paintbrush and reassemble.

CHIMNEY

Inspect your chimney frequently for creosote and soot accumulation. Remove the Insert and clean your chimney once a year or as often as required.

ASH REMOVAL

Remove ashes from the Insert by shovelling cold ashes (never hot) into a metal container and cover with a lid. Always treat them as if they contain hot coals and store the container on a non-combustible floor away from combustible material pending final disposal.

REVERSING BLOWER

Your blower is factory installed on the right side of the Insert. If you would prefer blower mounted on the left, remove switch plate, screens and unbolt blower from insert. Unfasten the cord by blocking the right side of the face plate up at least two inches. Pull cord down on each side of face plate to release it from hole. Reverse blower and screen and repeat procedure on left side.

You will notice that screen louvers when reversed will be pointing up instead of down. You may order a new left hand screen by mailing a cheque (check) for $25.00 to Elmira Stove Works. We will ship you a screen prepaid. #6881 - 0 special left screen with switch hole.

For further information, directions or parts, see your dealer or write Elmira Stove Works at the address on the front. When ordering parts please supply part number and description as shown on parts chart in this manual.

YOUR WOOD

Wet unseasoned wood will give you more headaches than warmth. Green wood has too high a moisture content for satisfactory use. For instance, you can waste as much as 40 per cent of the potential heat just to drive the water out of wet wood in the form of steam. Use of the proper wood is your best safeguard against an accumulation of creosote. Select hardwood that has been seasoned at least 6 months and preferably longer. 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 20 percent moisture by weight, and should be burned hot enough to keep the chimney hot for as long as it takes to dry it 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 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's dry. Also bark separation is a good indication. In addition, pick several small to medium sized pieces and rap them together. If they are dry, they will sound loud and clear—like a baseball bat. A dull thud means they are still wet. If your wood sizzles in the fire, even though the surface is dry, it may not be fully cured. Splitting of wood before it is stored reduces drying time. Wood should be stacked so that both ends of each piece are exposed to air, if space is available, since more drying occurs through the cut ends than through the sides. This is true even with wood that has been split. Cover your wood pile with a tarp, plastic, tarpaper, sheets of scrap plywood, etc. Do not extend any cover down the sides or it will trap in moisture. Use smaller limbs or old shipping pallets to stack your wood on. This allows air to circulate under the stack and prevent your wood from contacting the ground.

CREOSOTE

When wood is burned slowly, it produces acids, which combines with available 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. As time passes the thickness of the creosote increases and the opening through the flue decreases. This interferes with the draft through the chimney and eventually could lead to a chimney fire. A slow burning or smouldering fire should not be maintained for any extended period of time. It is far better to prevent accumulation of creosote by periodically maintaining a briskly burning fire. This can be done with each new load of wood or on a once a day basis. The use of a good chimney cleaner chemical can also help reduce the accumulation of creosote. It is usually the continuous burning of a smoldering fire that leads to the accumulation of creosote and a resulting chimney fire. Creosote usually ignites by exploding. The quick, hot fire, causes a strong draft up the chimney and burns violently. A roaring sound may be produced and sparks will fly from the chimney. The danger from a chimney fire is real as sparks could land on the house and start a fire or heat could penetrate through the chimney to surrounding combustibles. It is a sound policy to have your chimney inspected and/or cleaned on a regular basis by a reputable chimney sweep.

INSERT WARRANTY

MODEL .....

SERIAL .....

Your new Elmira Insert is warranted by the manufacturer against defects in materials and workmanship for a period of five years. The warranty does not cover glass, paint, gaskets and firebrick.

The blower system is warranted for one year. Accident, abuse, misuse or shipping damages are excluded from this warranty. If any part of the Insert becomes defective during the period of this warranty, send part or stove, freight prepaid to the address below for replacement.

TO VALIDATE WARRANTY

Please mail warranty card within ten days of purchase.

Your registration allows us to provide you with usable up to date Insert information as available.

The serial number is located on the metal plate behind the left hand screen.