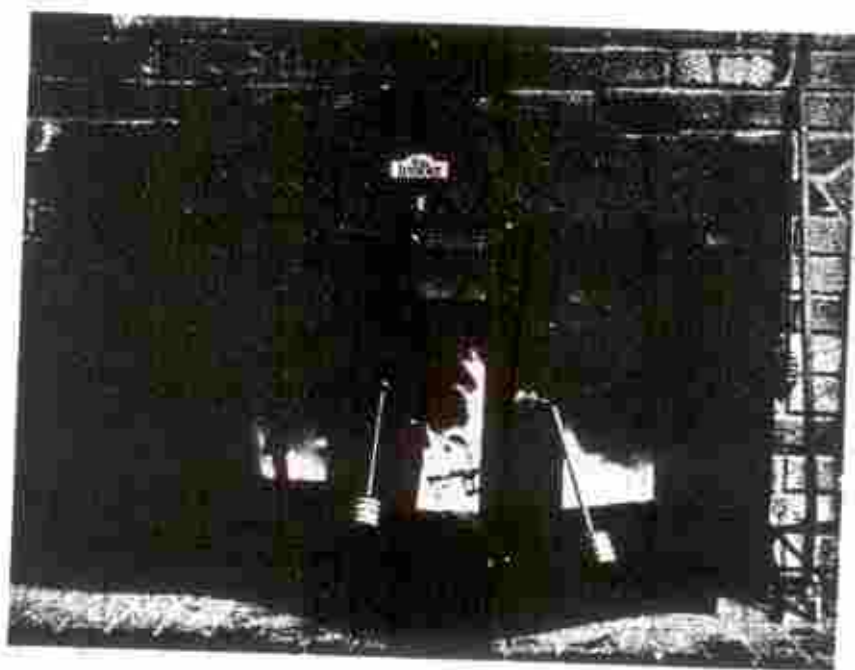


INSTALLATION INSTRUCTIONS
AND
OWNER'S MANUAL
FOR



A Product of

NATIONAL STOVE WORKS, Inc.

Howe Caverns Road, Cobleskill, New York 12043

Manufacturers of

Thermo-Control®

The ultimate wood burning system.

**READ THIS MANUAL BEFORE
INSTALLING AND USING YOUR NEW INSIDER**

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SPECIFICATIONS:

		INSIDER (Small)	INSIDER (Medium)	INSIDER (Large)
OVERALL DIMENSION (MINUS CLOSURE PLATES)	Height	23	23	23
	Width	30	34	38
	Depth	26	26	26
DOOR OPENING	Height	15½	15½	15½
	Width	25½	29½	33½
LOG LENGTH		15 to 24 (max.)	20 to 26 (max.)	24 to 32 (max.)
FIREBOX DIMENSIONS	Height	19½	19½	19½
	Width	varies 18 to 26	varies 22 to 30	varies 26 to 34
	Depth	16½	16½	16½
FIREBOX CAPACITY		(75 lbs. wood)	(90 lbs.)	(10½ lbs.)
FAN SIZE		2 fans, total 220 CFM	2 fans, total 220 CFM	2 fans, total 220 CFM
MASONRY OPENING	Height	24-28	24-28	24-28
	Width	30-36	34-40	38-44
	Depth	18	18	18

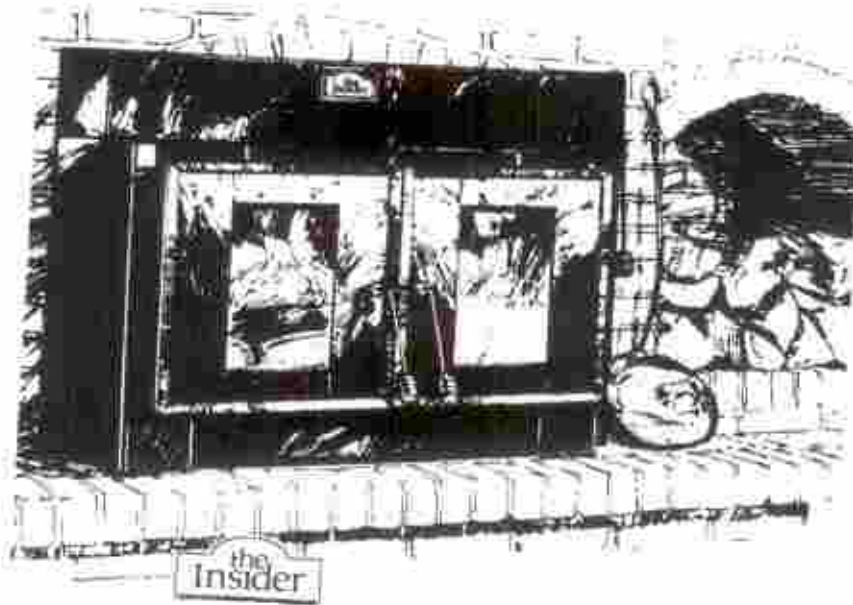
NOTE: All Insiders include 2 side closure plates and 1 top closure plate. All Specs. subject to change without notice.

INTRODUCTION

Congratulations on the purchase of your new INSIDER. This exciting new unit has been designed and constructed so that you can easily convert your existing fireplace to a clean and EFFICIENT wood heating system. The INSIDER will give you years of money saving service and comfort without sacrificing the warmth and charm of a glowing fireplace.

Unlike other fireplace inserts, the INSIDER combines several built-in features which easily make it the most enjoyable, efficient and "easy-to-install" unit on the market today. The INSIDER incorporates:

- (A) Glass doors which afford full view of the fire. The high technology glass which is built into every INSIDER door is specially formulated for strength and heat resistance in order to provide you with a unit which operates with the efficiency of an airtight stove while you view a cozy fire.
- (B) An outer jacket and two 110 CFM fan blowers which circulate room air to heat much of your house.
- (C) A quick and easy "slide-in" method of installation which saves you time, additional expense and use of special tools.



GETTING READY FOR INSTALLATION

- (1) After removing the unit from the box, inspect the unit, paying particular attention to the glass doors. If any damage has occurred during transit, file a claim with the delivering carrier immediately. See Warranty.
- (2) Locate the serial number of your INSIDER on the upper left corner of the exhaust deflector at the top front of the firebox. Write this number in the space provided on the inside cover of this manual for easy reference. Fill in also the date purchased and the name, address and telephone number of your INSIDER dealer.
- (3) Now turn to the inside back cover and fill in the warranty card and mail to National Stove Works, Inc. immediately.

(4) CHIMNEY INSPECTION

Before installing your INSIDER it is VERY IMPORTANT that you first inspect your fireplace and chimney to be sure that they are clean and in good condition. This section will aid you in making a proper inspection and in taking the necessary steps to assure a safe installation.

Follow the INSTRUCTIONS CAREFULLY.

- a. The fireplace and chimney should be thoroughly inspected for *Sound Construction*. Loose or cracked bricks, blocks, mortar joints or flue tile, as well as damaged or worn chimney caps, etc., should all be replaced or repaired by a qualified mason.
- b. The chimney flue should be *Airtight and Unobstructed*. It should be checked along its entire length for any possible blockage or obstruction (ex., swallow nests or broken flue tile). The use of a strong flashlight and a mirror are sometimes helpful in the inspection. All blockages must be removed and all broken tiles replaced or repaired.
- c. The flue should be inspected for *Creosote and Soot Buildup*. If a buildup exists it should be *Cleaned Thoroughly*. A properly sized chimney brush may be purchased through your dealer and its use as directed by the manufacturer is a standard and acceptable method of cleaning.
- d. Upon completion of cleaning of an existing fireplace and chimney or completion of construction of a new fireplace and chimney, the *Flue Lining* should be *Clean and Smooth*.
- e. The top of the chimney should be at least 2 feet higher than the peak of the roof or the highest portion of the roof within 10 horizontal feet of the chimney. In addition, the chimney should extend a minimum of 3 feet above the roof at the point where it passes through the roof.
- f. The recommended minimum height of the chimney above the hearth is 18 feet.
- g. If a chimney cap is used it should be such that it helps to prevent downdraft while providing adequate exhaust draft.

- h. In many localities there are now professional people established in the Chimney Sweep business. Some of these people are qualified not only to clean chimneys, but to inspect and even repair them. It may be well worth your while to solicit their services.

INSTALLING YOUR INSIDER

When installing your INSIDER, bear in mind that it is very heavy and somewhat awkward to handle—at least 2 strong men should work together when lifting or moving the unit. Now carefully follow the steps listed below:

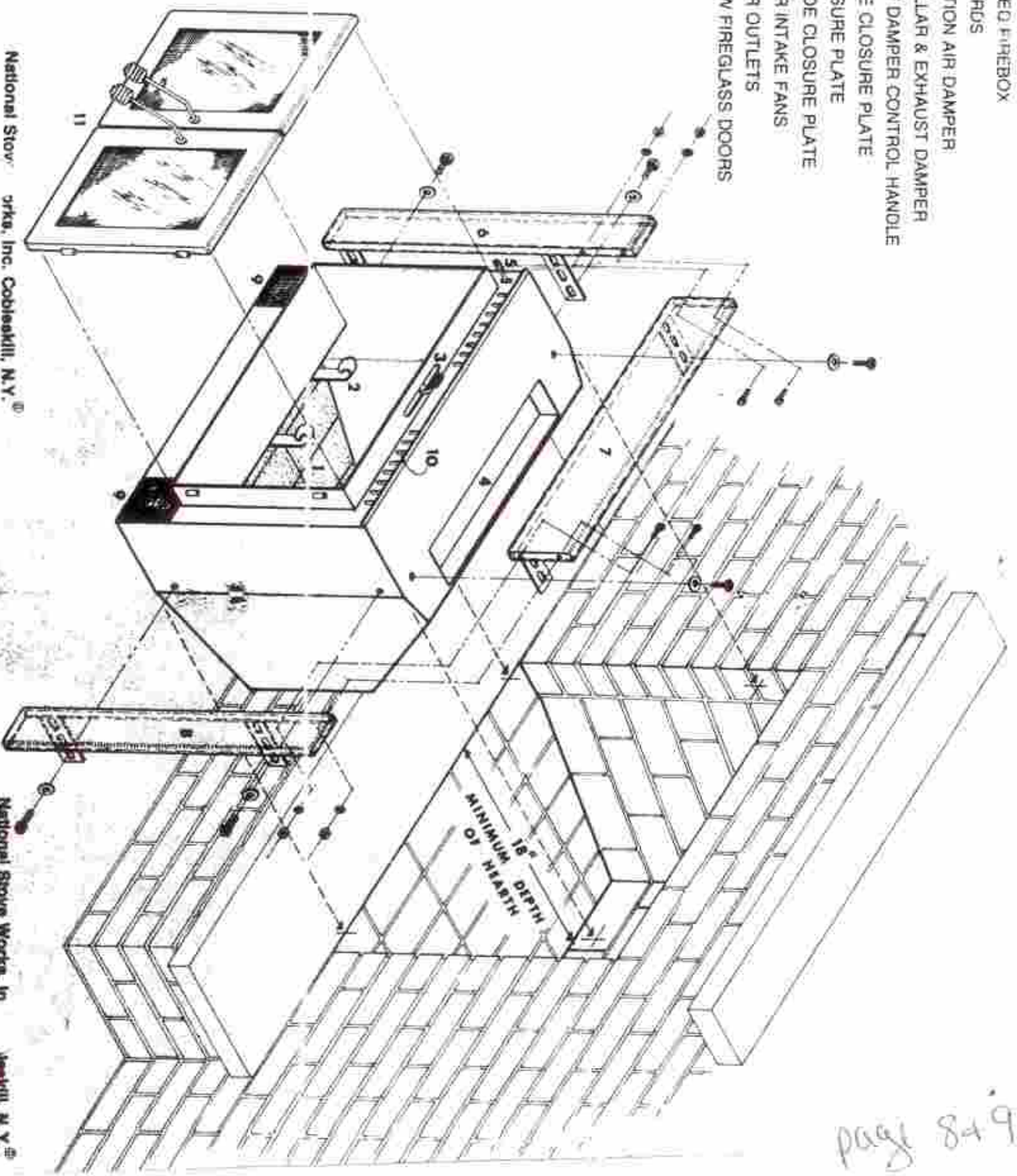
- (1) Measure the distance from the front of your fireplace to the rear of the hearth. THIS DIMENSION MUST BE AT LEAST 18 INCHES.
- (2) Now measure the distance from the face of the fireplace to the back of the lintel (the lintel is the steel angle or long piece of stone which spans the width of the fireplace and acts to support the masonry above it). Preferably, this dimension should be 4" or less, but in no case should it be more than 6".
- (3) Open the damper in your fireplace to its FULLY OPEN position. If your fireplace has an "interior" damper handle (i.e., a handle built within the neck of the fireplace) and if, when the damper is fully open, the handle projects down far enough to interfere with the installation of your new INSIDER, then the damper and handle must be removed before installing your INSIDER. Further, if the handle is removable but the damper is not, remove the handle, but BE SURE the damper is SECURED or FIXED in the FULLY OPEN POSITION so that it CAN NOT FALL CLOSED.
- (4) If you haven't already done so, thoroughly sweep off all ashes and dirt from the hearth of your fireplace. If you have a grate or andirons, remove them. The floor or hearth of your masonry fireplace must be reasonably level. If your fireplace has an ash door which projects above the level of the floor, it may be necessary to remove it.
- (5) Place the INSIDER in front of your fireplace. The top and side closure panels are then installed by aligning the oblong anchor slots on the closure panel brackets with the respective bolt holes on the top and sides of the INSIDER and securing the panels to the unit using the washers and $\frac{3}{8}$ " \times 1" long bolts provided. SEE ILLUSTRATION on the following page.

NOTE: If your fireplace is 18" to 20" deep use the oblong anchor slots which are CLOSEST to the closure plate. If your fireplace is 20" deep or more, you may be able to use one of the other two sets of anchor slots on the closure panel brackets. This will allow you to set the unit deeper into the fireplace so that less of the unit will project out into the room. As examples, if your fireplace is 20" deep you should use the MIDDLE set of slots and if your fireplace is 22" deep or more you should use the slots at the ENDS of the closure brackets.

- (6) Fasten the top and side closure plates together using the four $\frac{1}{4}$ " x $\frac{3}{4}$ " bolts and the washers provided.
- (7) Push the unit firmly into the fireplace until the insulation gasket (at the perimeter of the closure panels) forms a tight seal with the face of the fireplace. Be sure to center the INSIDER in the fireplace.
- (8) Install the glass doors by inserting the hinge pins into the hinges and place the flue damper handle (packed inside the unit) in the hook provided at the left hand side of the left closure plate.
- (9) Remove the 3 log guards (also packed inside the unit) and install them by placing the straight ends down into the 3 slots provided at the bottom front of the firebox.
- (10) Plug in the electrical cord to a 110-120 volt power supply, and your INSIDER is ready to operate.

WARNING! Your INSIDER comes equipped with a built-in ground wire and 3-prong plug—it must be connected to a properly grounded 110-120V electrical outlet.

- 1. BRICKLINED FIREBOX
- 2. LOG GUARDS
- 3. COMBUSTION AIR DAMPER
- 4. FLUE COLLAR & EXHAUST DAMPER
- 5. EXHAUST DAMPER CONTROL HANDLE
- 6. LEFT SIDE CLOSURE PLATE
- 7. TOP CLOSURE PLATE
- 8. RIGHT SIDE CLOSURE PLATE
- 9. ROOM AIR INTAKE FANS
- 10. WARM AIR OUTLETS
- 11. FULL VIEW FIREGLASS DOORS



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OPERATING PROCEDURES

A. STARTING A FIRE IN YOUR INSIDER

1. Open the exhaust damper fully by first lifting and then pushing in the control handle (located at the top, left corner of your INSIDER) as far as it will go.
2. Completely open the combustion air damper which is located on the top of the door frame.
3. Open both doors of your INSIDER and place several pieces of crumpled newspaper in the center of the firebox. Crisscross a couple of handfuls of dry kindling wood on top of the paper. Then stack small pieces of dry firewood over the kindling.
4. Ignite the paper and close the doors. It will take a few minutes for the fire to establish itself. When it has, add larger pieces of wood. The rate of burn can then be reduced if desired by sliding the combustion air damper toward the closed position.

To start a fire from just a few coals, simply rake the remaining hot coals towards the center of the stove and add logs so that they rest on the hot coals. If your combustion air damper has been closed or on a low setting, open it and the logs will begin burning in just a few minutes.

B. SAFE AND EFFICIENT OPERATION

ASH REMOVAL

Removal of ashes from your INSIDER will be necessary only on a weekly or monthly basis, depending on whether you use your INSIDER on a continual basis.

The best time to remove ashes without letting the fire go out, is when the wood has burned down to a small bed of hot coals, as after an overnight burn. Simply rake the hot coals to one side and remove the underlying ashes. Repeat the same procedure on the other side.

ASH DISPOSAL

Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, 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.

TOOLS REQUIRED

There are four basic tools which you will need to safely tend to your fire and remove and dispose of ashes. They are (1) an ash rake, (2) an ash shovel, (3) a poker, and (4) a covered metal ash pan. All of these are available through your SHOWPLACE dealer if you don't already have them.

C. OVERNIGHT BURNING

To stoke your INSIDER for an overnight burn, place large dry pieces of hardwood over a bed of hot coals as lightly as possible and as high as possible without creating the danger of a log rolling past the log guards. Depending on the amount of natural draft in your chimney, partially close the exhaust damper. Then close the doors and adjust the combustion air damper to a low air intake setting.

DO's AND DON'Ts

The following pointers must be observed for safe and efficient operation of your INSIDER:

- DO NOT use your INSIDER for burning trash—it is not an incinerator. Trash can burn too hot and it can also cause dangerous soot buildup.
- DO NOT ignite large masses of paper or similar lightweight material in your INSIDER.
- DO NOT use charcoal lighter, gasoline, kerosene, or any other liquid to start a fire. Use only the procedures described in this manual.
- DO NOT allow children to play with or near the stove. It is not a toy and some of its surface can get very hot!
- DO add only the amount of wood necessary to heat your house comfortably between stokings for best efficiency.
- DO be careful when tending the fire. Always open the doors *slowly* and watch for sparks.
- DO NOT leave your INSIDER unattended with the doors open—*Ever*.
- DO NOT load your INSIDER so high that a log can roll past the log guards toward the stove doors.
- DO NOT disconnect the electrical fan cord when the wood stove is operating.
- DO be careful NOT to scratch or break the glass when loading or tending to your INSIDER.
- DO use only dry, seasoned wood, preferably hardwood—see "Preventing Creosote Buildup".
- DO keep load of wood to the REAR of the firebox as much as possible.
- DO NOT allow ashes to build up to the stove's door sill. Remove ashes periodically.
- DO NOT allow stain to build up on glass doors. Clean the glass periodically—see "GLASS DOORS" under Maintenance Instructions.

MAINTENANCE INSTRUCTIONS

Door Gasket

Should the gasket material around the door wear out to a point where it allows air to readily enter the firebox at the edge of the door, it should be replaced immediately. Gasket replacement kits are available through your INSIDER dealer.

Stove Finish

Should the paint become marred or scratched it can easily be touched up or refinished. Touch-up paint is available through your INSIDER dealer.

Fan Blower

Keep the protective wire screening (at the air intake of each fan blower) **CLEAN** by periodically removing any dust buildup.

Glass Doors

Periodically, the glass in your INSIDER may become stained. This is most likely to occur if you run the stove at low fire levels for prolonged periods or if you use wet, or unseasoned wood. To remove the staining, a "foam type" oven cleaner should be used according to the manufacturer's instructions with the following additional instructions:

- (1) USE RUBBER GLOVES
- (2) Spray the cleaner on a CLEAN rag and then apply to the glass—DO NOT spray directly onto the glass!
- (3) DO NOT apply the oven cleaner when the stove is HOT! Do not apply cleaner to any part of the metal frame.
- (4) Wipe clean as per instructions of oven cleaner manufacturer.

NOTE! If a glass is accidentally broken, contact your dealer for a replacement pane IMMEDIATELY.

Preventing Creosote Buildup

Your INSIDER has been designed to burn wood only! Wood, however, if burned improperly, can cause creosote to form within your stove or chimney. To prevent a potentially hazardous buildup of creosote follow the maintenance procedures listed below:

- (1) Your chimney may be particularly susceptible to creosote buildup during *mild weather conditions* as in the spring or fall of the year. Some people have a tendency to fully load their stove and then close the primary air damper control, allowing the logs to "smolder" for several hours at a time. *This practice will usually cause creosote to form.* From both a standpoint of creosote prevention and wood burning economics, it is *far better* to build *smaller fires* and allow them to *burn hotter* by setting the air damper control at a higher setting.

(2) As a general rule, at least for the beginner, even if it is not apparent that creosote exists, it is *good policy* to inspect your chimney at least *twice* during the heating season—once *just before you begin burning* and again at *mid-winter*. Your chimney should be cleaned at *least* once a year—just before the heating season begins.

(3) Always try to use Good, Seasoned, Dry and Property Sized Hardwood.
Good Hardwood = wood with combustion characteristics similar to that of maple, oak and ash for example.
Seasoned = air dried outdoors but under cover for a minimum of 6-18 months.
Dry = free of surface moisture or punky wood or bark.
Property Sized = of various diameters or split to various sizes and cut in lengths not to exceed the width of the firebox.

If you live in an area where hardwoods are not available, the general rule of thumb is to avoid the use of softwoods which have a high resin content. Many softwoods have excellent heat capacity if properly cured; they simply burn up at faster rates than most hardwoods due to their low densities.

PERIODIC OR SUMMER SHUTDOWN

- Whenever your INSIDER is NOT IN USE and the fire has COMPLETELY DIED OUT, the exhaust damper may be closed to seal off the flue.
- During the summer shutdown period, your chimney should be cleaned. This may be done by simply removing your INSIDER "as is". To protect your carpet or rug, lay a large piece of cardboard in front of your fireplace and slide your INSIDER onto the cardboard, far enough away from the front of the fireplace so you can clean adequately. This is also a good time to inspect your INSIDER, replace any worn door gaskets, and/or touch-up any paint scratches or chips. Again, contact your INSIDER dealer for replacement gasket material or touch-up spray paint.

GUARANTEE

NATIONAL STOVE WORKS, INC. WARRANTS TO THE ORIGINAL OWNER ALL PARTS, with the exception of the electrical components, which are covered solely by the original manufacturer's warranty, IN THIS NEW MODEL to be free from defects in material under normal use for the period of one (1) year from date of purchase. Our obligation under these warranties is limited to exchanging any defective part with a new or re-manufactured part at the option of National Stove Works, Inc., or repairing if the part is returned, transportation prepaid, within the applicable warranty period. The replaced parts carry a warranty for the balance of the unit's applicable period of warranty.

Labor and transportation charges are not included in this warranty and are to be paid by the owner, under this warranty.

This warranty is void as to any unit which has been subjected to misuse, accident, or negligent damage, repaired with other than genuine replacement parts, damaged in transit or handling, or which, in the opinion of National Stove Works, Inc. has been altered or repaired in a way that affects the reliability or detracts from the performance of the unit, and in all events where installation has not been made by a qualified person and according to the commonly accepted customs and practices of the industry, and in total compliance with all statutes, ordinances, regulations and codes, applicable.

THIS WARRANTY IS IN LIEU OF ALL OTHER GUARANTEES, EXPRESSED OR IMPLIED, AND ALL WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABILITY AND ALL OTHER OBLIGATIONS AND LIABILITY ON NATIONAL STOVE WORKS, INC.'S PART AND MANUFACTURER NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR MANUFACTURER ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS.

NOTICE—National Stove Works will not be held liable for damage occurring to the stove or any accessory parts during transit. Should damage occur during transit, file a claim with the delivering carrier at once.

**TO PLACE WARRANTY IN EFFECT DETACH AND MAIL IMMEDIATELY
TO: INSIDER DIVISION, NATIONAL STOVE WORKS, INC.
P.O. BOX 640, COBLESKILL, N.Y. 12403**

PLEASE PRINT OR TYPE ALL INFORMATION

Purchaser's Name _____

Address _____

City _____ State _____ Zip _____

Date Purchased _____ Model _____

Serial # _____

Dealer's Name _____

Address _____ City _____



a product of
NATIONAL STOVE WORKS, Inc.

P.O. Box 640
Cobleskill, N.Y. 12043

Is a Member of:

NFPA (National Fire Protection Association)
470 Atlantic Ave.
Boston, MA 02210

WEI (Wood Energy Institute)

NSFTA (National Solid Fuel Trades Association)

CWEI (Canadian Wood Energy Institute)

Detach and mail to Insider Division, National Stove Works, Inc.
P.O. Box 640, Cobleskill, N.Y. 12043

The following information will be appreciated:

Where did you first see or hear of the INSIDER? _____ Newspaper _____ Magazine _____ Friend
_____ Show _____ Dealer _____ Other

Why did you buy the INSIDER? _____ Features _____ Styling _____ Conservation
_____ Price _____ Sewel _____ Just For Fun _____ Other

Do you have your own source of wood? _____ Yes _____ No

Did you replace another stove with the INSIDER? _____ Yes _____ No

Do you plan to use for— _____ Pleasure _____ Main Source of Heat _____ Back-Up System

Did you install it— _____ House _____ Cottage _____ Place of Business

What other fuel do you use? _____ Electric _____ Gas _____ Oil

How much do you expect to save in one year? \$ _____

About how much was your heat bill last year? \$ _____

Do you live— _____ in Town _____ Out of Town

NATIONAL STOVE WORKS, Inc.

Howe Caverns Road, Cobleskill, New York 12043

Manufacturers of

Thermo-Control®

The ultimate wood burning system

YOUR STOVE SERIAL NO. _____

DATE PURCHASED _____

DEALER'S NAME _____

HIS ADDRESS _____

TELEPHONE _____

National Stove Works, Inc. Cobleskill, N.Y.®