

PREWAY

A nice warm feeling®



**INSTALLATION - OPERATION MANUAL
SERVICE INSTRUCTIONS AND PARTS LIST
- FOR
SUPER ENERGY MIZER®
PREFABRICATED
BUILT-IN FIREPLACE**

**MODEL
BI41 SEM
TYPE AP**

DO NOT INSTALL IN A MOBILE HOME

THIS MANUAL WILL HELP YOU TO OBTAIN EFFICIENT, DEPENDABLE SERVICE FROM THE FIREPLACE AND CHIMNEY, AND ENABLE YOU TO ORDER REPAIR PARTS CORRECTLY. KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

WHEN WRITING, ALWAYS GIVE THE FULL MODEL NUMBER AND SERIAL NUMBER WHICH IS ON THE NAMEPLATE ON THE RIGHT SIDE PANEL.

DO NOT MODIFY OR ALTER THE CONSTRUCTION OF THIS FIREPLACE OR COMPONENTS. ANY MODIFICATION OR ALTERATION OF CONSTRUCTION VOIDS THE WARRANTY AND APPROVALS OF THIS UNIT.

UL LISTED MH9126

contents

Rules for Safety	2	Elbow Installation and Chimney Support	11
Basic Tools and Materials	2	Finishing the Fireplace Face	12
General Information	3	Care and Operation	13-14
Locating the Fireplace	3	Parts Illustrations and Optional Equipment	15-17
Installing the Fireplace	4-12	Warranty	18
		Building Inspectors Checklist	20

introduction

Please read our instructions before installing and using your new fireplace. This will help you obtain the full value from your fireplace. It will also help you avoid any needless service costs that result from causes we cannot control.

If you plan to install this fireplace yourself, you must realize that the improper use of any tool can be dangerous. Unless you are completely familiar with the tools, equipment and potential hazards involved, we ask that you contact your salesman and arrange for professional installation.

rules for safety

1. **READ THESE RULES AND THE INSTRUCTIONS CAREFULLY. FAILURE TO FOLLOW THEM COULD CAUSE MALFUNCTION OF THE FIREPLACE. THIS COULD RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR PROPERTY DAMAGE.**
2. Local codes should be consulted in all cases as to the particular requirements concerning the installation of factory built fireplaces.
3. **DO NOT INSTALL FIREPLACE IN A MOBILE HOME OR RECREATIONAL VEHICLE.**
4. Connect this fireplace to a **8" TRIPLE WALL** Preway Residential Type and Building Heating Appliance Chimney only and vent to the outside. Never vent to another room or inside a building.
5. Provide air for combustion from the outside into the fireplace with duct provided. If air is taken from below home, be sure access to outdoor air is provided.
6. To prevent injury do not allow anyone who is unfamiliar with the operation to use the fireplace. Follow the fire starting procedure.
7. To maintain top efficiency, and to prevent buildup of soot and creosote, clean the fireplace and chimney periodically.
8. Use **SOLID** wood fuel only. **DO NOT** use artificial logs, chemical chimney cleaners or flame colorants in your fireplace. Gas logs may be used.
9. **DO NOT** use charcoal. This gives off deadly carbon monoxide fumes.
10. **NEVER** use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or 'freshen up' a fire in this fireplace. Keep all such liquids well away from the fireplace while it is in use.
11. **NEVER** leave children or bed-ridden persons unattended when there is a fire in the fireplace.
12. **WARNING: FIREPLACES EQUIPPED WITH DOORS SHOULD BE OPERATED ONLY WITH THE DOORS FULLY OPEN OR DOORS FULLY CLOSED. IF DOORS ARE LEFT PARTLY OPEN, GAS AND FLAME MAY BE DRAWN OUT OF THE FIREPLACE OPENING, CREATING A RISK OF BOTH FIRE AND SMOKE.**
13. Inspect and clean the fireplace and chimney before use and at least twice a year.
14. Check for overhead wires above house and near chimney area. Allow plenty of clearance. **Do not touch any wires.** Fatal electric shock could result.
15. For your safety and protection, ground the chimney and fireplace. Use a ground rod, clamp and wire or other means to ground chimney and fireplace system. Consult local codes having jurisdiction.
16. Before servicing, allow fireplace to cool. Always shut off any electricity and gas (if gas is used) to fireplace when working on it. This will prevent any electrical shocks or burns.
17. **Keep outlet flue damper open while heat is present in fireplace.**
18. This fireplace is not intended as a furnace to heat an entire home. Use for supplemental heating only.

basic tools and materials needed

TOOLS

Hand drill or grounded electric drill
6 ft. tape or folding rule
Hand saw or grounded electric sabre saw
Chisels
Putty knife
Caulking gun
24" spirit level
5/16 wrench or socket wrench
Tin snips
Screwdrivers
Hammer
Pliers

MATERIALS

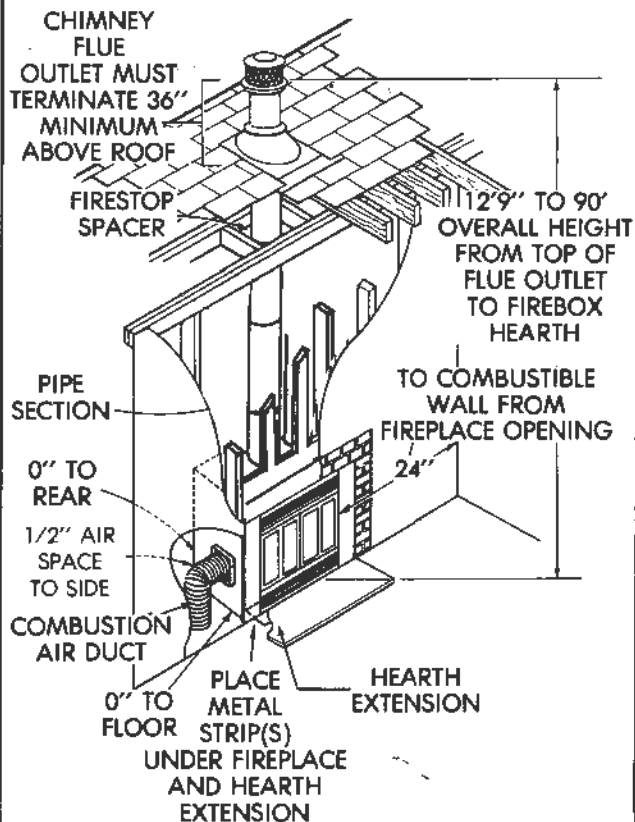
Wall finishing materials
Framing material
Grote
Chimney package and accessories
Caulk
Roofing Cement

general

Remove all parts and check to be sure everything is there. Report to your dealer if any parts are missing or damaged.

Dimensions

FIG. 1



NOTE: 24" CLEARANCE TO WALL MAY BE REDUCED TO 12" MINIMUM WITH USE OF PREWAY INSULATED WALL SHIELD OR EQUIVALENT.

One Carton Containing:

Fireplace, Metal Spark Strip(s), Air Inlet Duct AND

Other cartons you have ordered to complete your installation.

NOTE: To identify pieces, refer to Parts Illustration.

CLEARANCES

When installed according to these instructions, the fireplace may touch combustible materials at the bottom and back. Sides must have 1/2" AIR SPACE CLEARANCE. **Chimney sections require a minimum air space clearance of two inches to combustible materials and building insulation.** Firestop spacers, which must be installed at every ceiling level, will automatically provide the necessary clearance to the joist.

Any fireplace must not be installed closer than specified in Fig. 1 to any unprotected combustible wall, perpendicular to the fireplace openings (See Fig. 1) unless a Preway wall shield, Model WS40 or an equivalent, approved by the local authority having jurisdiction over the installation of the unit, is installed. This does not apply to corner installations (See Fig. 3).

INSTALLATION HEIGHT

Overall height from the bottom of fireplace to chimney flue outlet may be:

MINIMUM

12 feet - 9 inches to 15 feet - 11 inches with 8FSL Firestop Thimble at first joist,

16 feet with 8FS2 or 8FS230 Firestop at first joist,

12 feet - 9 inches with maximum of 4 elbows.

MAXIMUM

90 feet when SK90 Support Kits are used at every 35 foot level.

LOCATING THE FIREPLACE

Figure 3 shows some ways the fireplace can be installed. Consider the traffic pattern in your room. The location of doors and windows is important. Also the construction of your home around the fireplace must be checked. A corner location may be best where space is limited. Because of its slanted sides it can be placed well back in a corner.

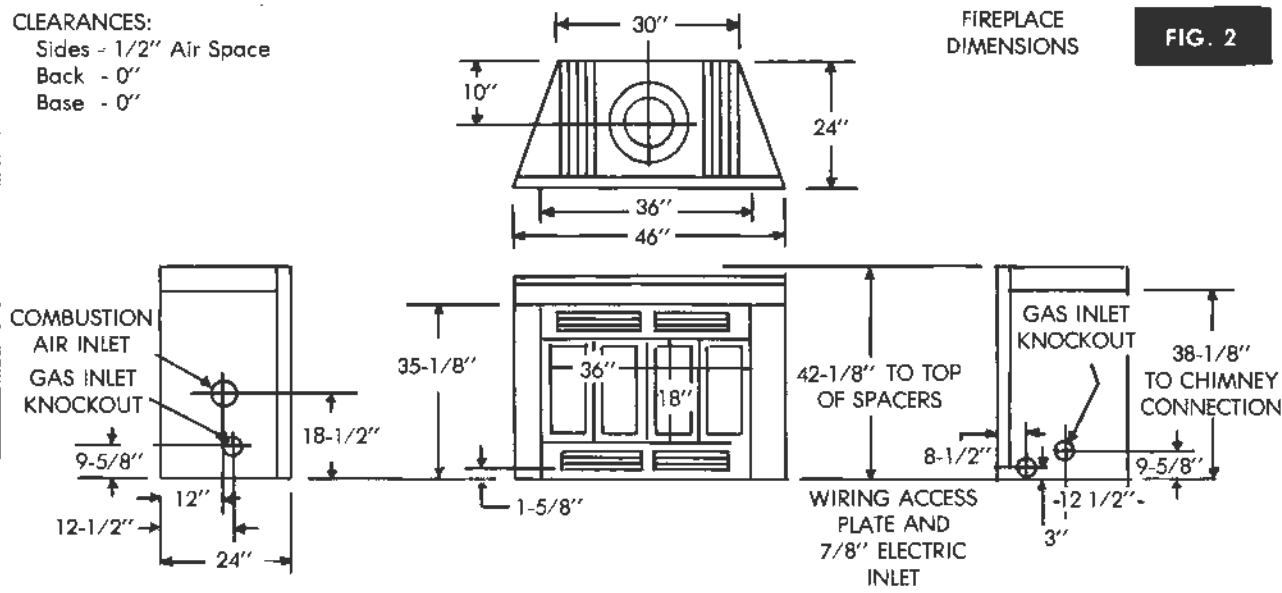
Floor which supports fireplace does not have to be reinforced unless the material used for facing is very heavy: (i.e. Flagstone - large areas of brick, etc.).

CLEARANCES:

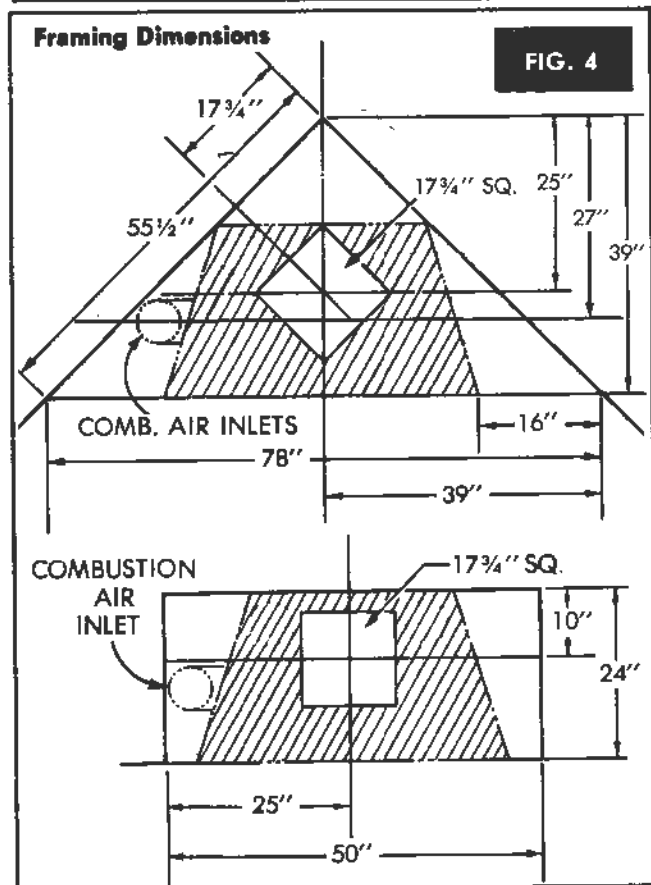
Sides - 1/2" Air Space
Back - 0"
Base - 0"

FIREPLACE DIMENSIONS

FIG. 2



1. Fireplace may be installed in any location which will provide the necessary clearances.
2. A location that requires cutting the least number of joists or rafters will simplify and reduce installation cost.
3. The fireplace may be installed directly on the floor, or on elevated wood or masonry platform may be used. **Be sure fireplace is on a solid continuous floor or platform for support and to reduce the possibility of cold air entering the room.**
4. The fireplace may be positioned and then the framing built around it or the framing may be constructed and the fireplace pushed into the opening (See Fig. 5). The dimensions shown may be used to construct the fireplace opening.



INSTALLING GAS LINE

If desired, a gas appliance may be installed. Use only iron pipe, 1/2" size, and appropriate steel or malleable iron fittings.

When installing a gas line, an approved shut off valve must be located outside of the fireplace.

Gas line may enter fireplace from either side. Refer to Page 3 for outside entrance knockout location. Remove knockout from outside of fireplace casing with screwdriver. Remove knockout from fire box refractory side carefully to avoid cracking refractory. Center of knockout is indicated by a small dimple 8" forward from rear refractory and 2-1/2" up from the hearth.

NOTE: To remove knackout easily, remove refractory (See Page 15) and place on hard flat surface. Tap knackout out of refractory from finished face.

Run gas line to just outside entrance hole of fireplace. Push gas line nipple (7" min.) through to reach inside of fireplace. Attach nipple to gas line. Finish installation by either capping gas line inside fireplace or attaching gas appliance, according to instructions with it. Use pipe compound on all joints approved for use with natural or L.P. Gas.

Seal any opening between pipe and refractory with furnace cement.

This provision is intended for connection of a decorative appliance only and the installation must conform with local codes. In the absence of local codes, the installation must conform with American National Standard Installation of Gas Appliances and Gas Piping, Z223.1-1984 or Canadian installation codes for natural and propane gas burning appliances and equipment CSA B149.1 and 2.

All gas piping and connections must be tested for leaks after the installation is completed.

Be sure the unit is turned off.

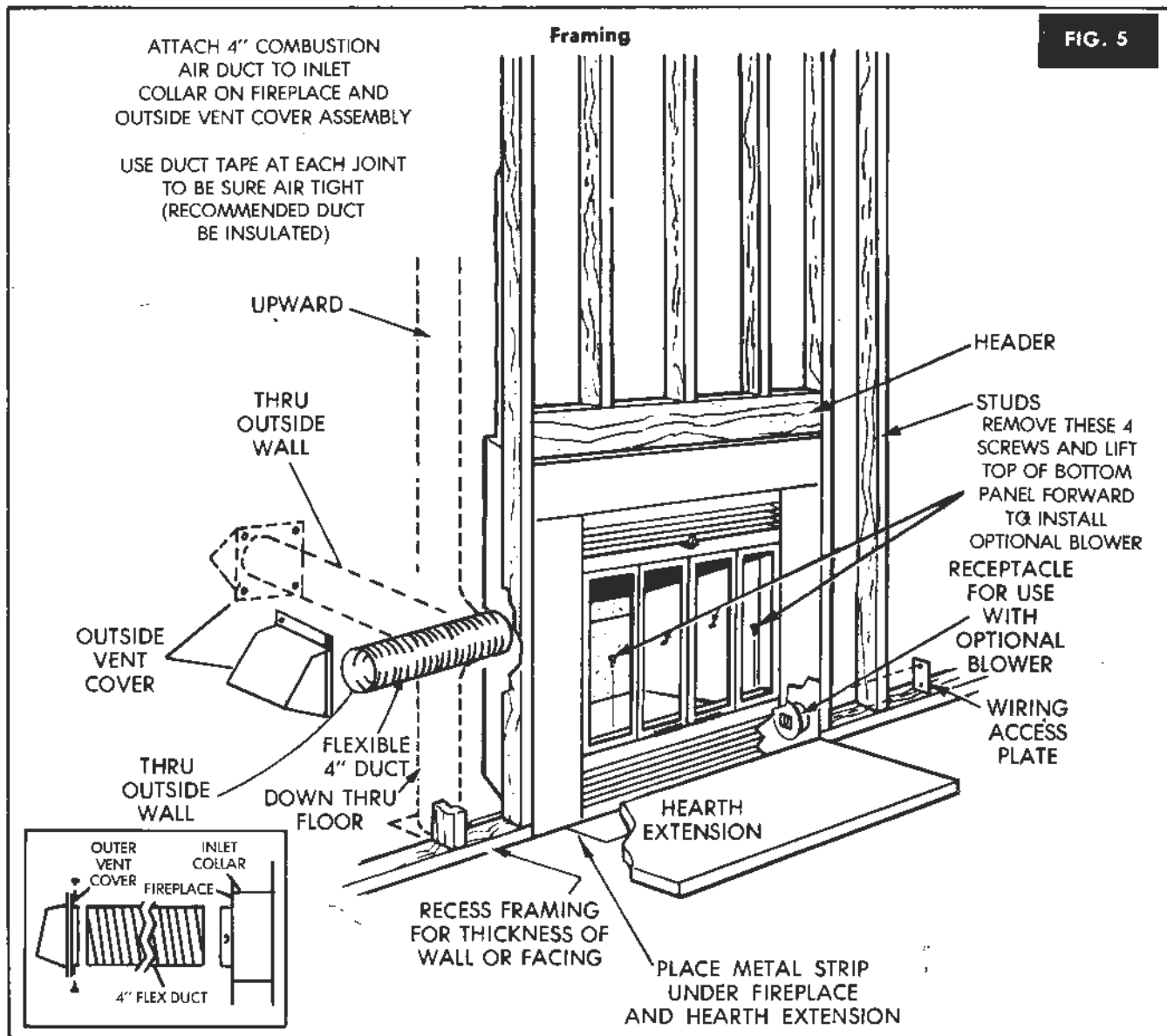
Apply soap suds solution to all connections and joints and if bubbles appear, leaks can be detected and corrected.

Do not use a match or open flame of any kind to test for leaks.

Never operate any appliance with leaky connections.

WHEN USING A DECORATIVE GAS APPLIANCE THE FIREPLACE DAMPER MUST BE SET IN THE FULLY OPEN POSITION.

FIG. 5



COMBUSTION AIR INLET

There is one 4" diameter air inlet on left side of the fireplace, a Barometric Damper installed in this inlet automatically opening and closing it. A 4" diameter flexible 42" long duct is supplied to duct outside air to the fireplace. The combustion air duct can be upward, downward, along side of fireplace or at the rear, (If the fireplace is on the outside wall). This air inlet allows the combustion air to be taken from any direction including above the fireplace.

DO NOT TAKE AIR FROM ATTIC SPACE ABOVE THE ROOF, OR ANY OTHER ROOM ESPECIALLY A GARAGE. Do not take air from area where another fuel burning appliance is installed. Provide a continuous supply of combustion air from outside, into the fireplace. If the area where the combustion air duct inlet is located is enclosed, provide an inlet from outside at least 15 square inches into that area.

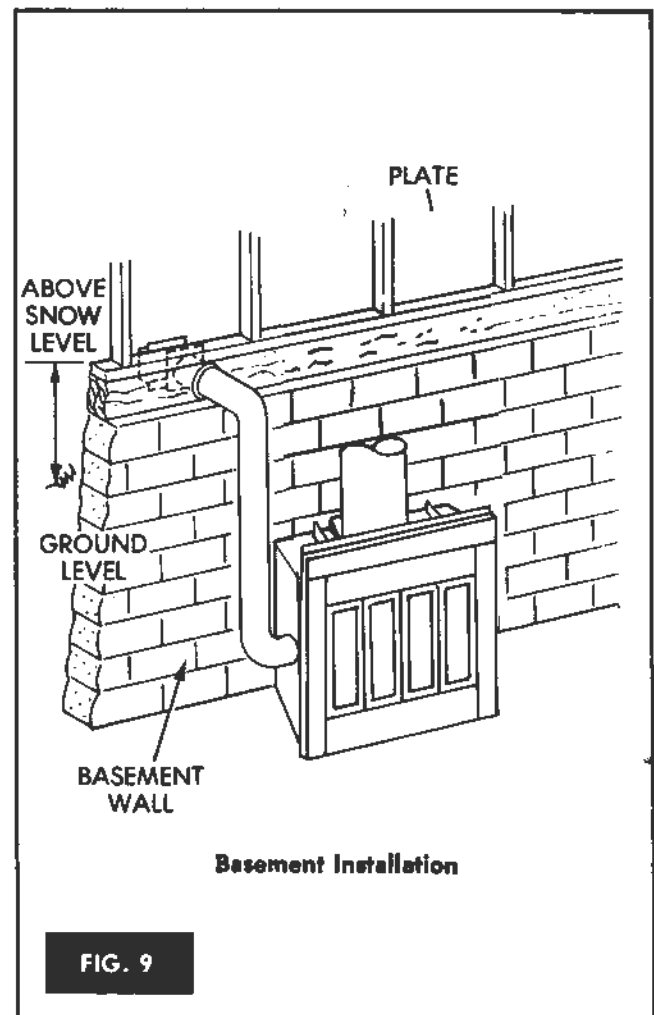
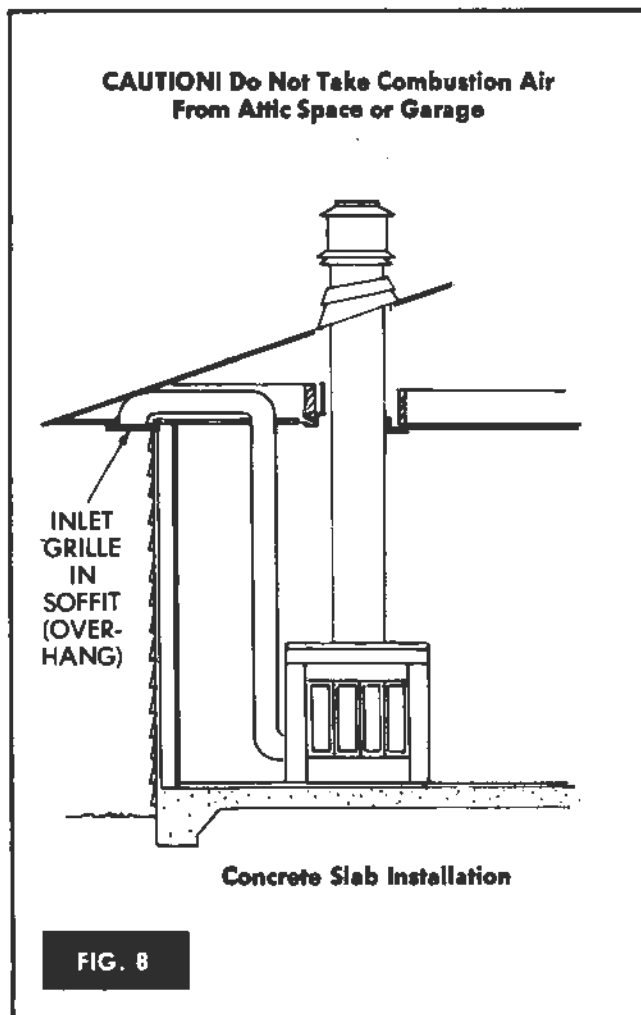
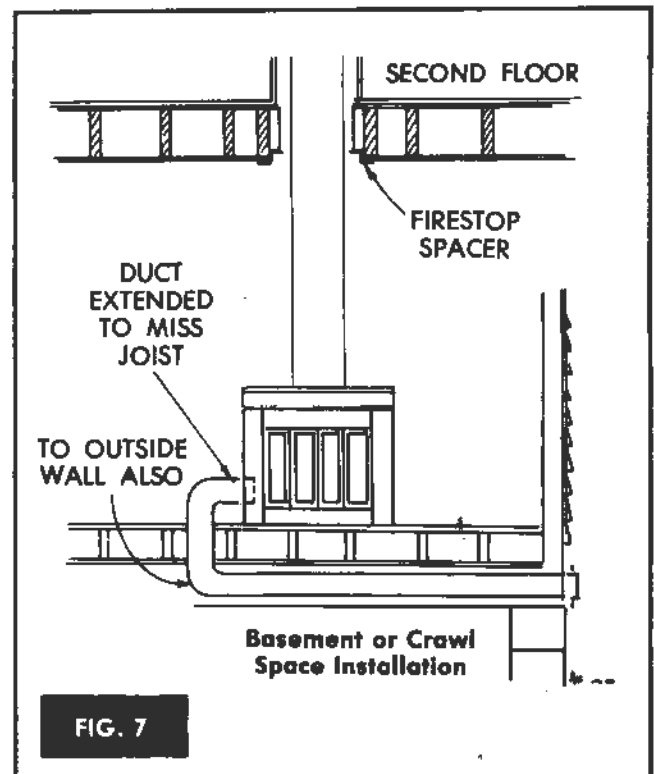
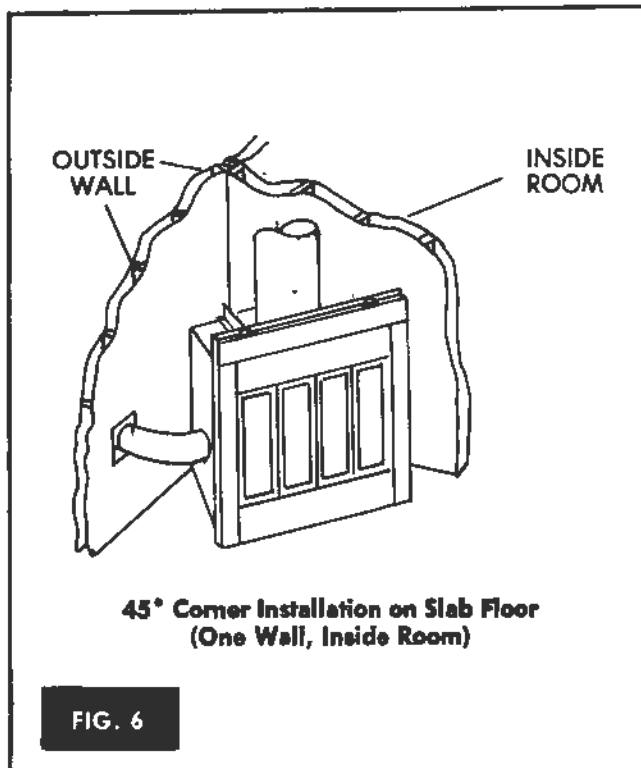
If the flexible duct is not long enough to extend to the outside, it can be extended with any 4" diameter metal pipe or UL Listed Air Duct to any length needed.

When installing the combustion air duct, attach to fireplace and inlet:

1. Locate outside vent cover and cut a 5" min. diameter hole for the 4" flexible air duct. Be sure to extend the 5" opening all the way through to outside. It must be through any insulation, vapor barrier, or sheet metal to the outside of the home.
2. Attach outer vent covers to air duct with two #8 x 1/2" long screws. Use 1/4" socket wrench or screw driver. Screws will pierce the air duct and screw into the collar of the outer vent cover. Push duct (with outer vent cover attached) through wall or floor from outside. Secure duct to inlet collar by pushing air duct onto the flange of the inlet collar so that the air duct snaps over the tabs on the collar. Use duct tape on all joints to assure they are air tight.
3. Attach outside vent cover to wall or flooring with four, #10 x 5/8" long screws provided.

The duct may be wrapped with fiberglass insulation to reduce cold air and condensation. See examples in Figs. 6 through 9.

METHODS OF RUNNING COMBUSTION AIR DUCT FOR OUTSIDE AIR KIT



ELECTRICAL

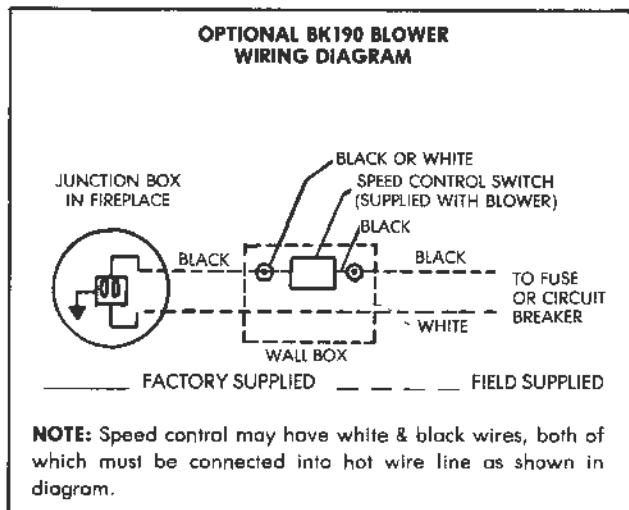
An electrical junction box (with grounded receptacle) is located at the lower right, behind the bottom panel (See Fig. 5). This is for use with the optional blower only (Page 16). The bottom panel may be removed for installation of the blower, by unscrewing four screws in top of bottom panel. (See Fig. 5). Electrical wiring connections may be made through the wiring access plate without removal of receptacle or grill. The fireplace junction box has a 7/8" hole provided next to the access plate for connection of an electrical wire fitting.

Wire the receptacle into an electrical circuit during the framing of the fireplace. A UL listed general use wall switch rated at 15 Amp, 125 VAC minimum may be used in the circuit or the speed control supplied with blower. Refer to wiring diagram below. Locate the wall switch close to the fireplace in a wall box.

Installation of wiring must comply with the National Electrical Code and all local codes and their requirements. Have the wiring installed by a qualified person.

The BK190 blower can be simply installed at any time provided the bottom panel can be removed. This is why it is important to prewire the fireplace during the framing operation.

The PAK-275-1 blower must be installed during the initial fireplace installation. Refer to instructions packaged with blower.



HEARTH EXTENSION

Due to the heat radiated from the fireplace when burning it is necessary to protect a combustible floor in front of the fireplace with a noncombustible insulated hearth extension.

Place metal strip (provided) under fireplace and extending out to where it will be under hearth extension also. This will prevent any sparks reaching the floor between fireplace and hearth extension.

The insulated hearth extension must extend at least 16" in front of and 8" beyond each side of the fireplace opening when a minimum 2-1/2" high (thick) raised hearth extension is installed. When the hearth extension is less than 2-1/2" in height, it must be 24" deep.

When 2-1/2" thick hearth extension is used the fireplace must be raised at least 1".

Use Preway HE36-1 or HE3624 or a material equal to 3/4" thick noncombustible insulating material with thermal conductivity of $K = 0.55 \text{ BTU/IN/HR/FT SQ } ^\circ\text{F}$. This material or Preway hearth extension may be covered with noncombustible materials which do not ignite or burn. Such materials consist of steel, iron, brick, tile, concrete, slate, glass or plaster.

As an alternate to K value: C (Thermal Conductance) or R (Thermal Resistance) may be used. Thermal conductance, C is a heat flow value at a given thickness. The required C value is .73. Thermal resistance, R is the ability of material to retard heat flow. To calculate:

$$K = C \times \text{Thickness} - K = .73 \times .75 = .55$$

$$C = K / \text{Thickness} - C = .55 / .75 = .73$$

$$R = \text{Thickness} / K - R = .75 / .55 = 1.36$$

NOTE: Los Angeles code requires hearth extension to be at least 20" in front and 12" each side of opening for all sizes.

For various Raised Hearth Extension Designs Form F4057 is available from Preway's Customer Service Department.

WARNING

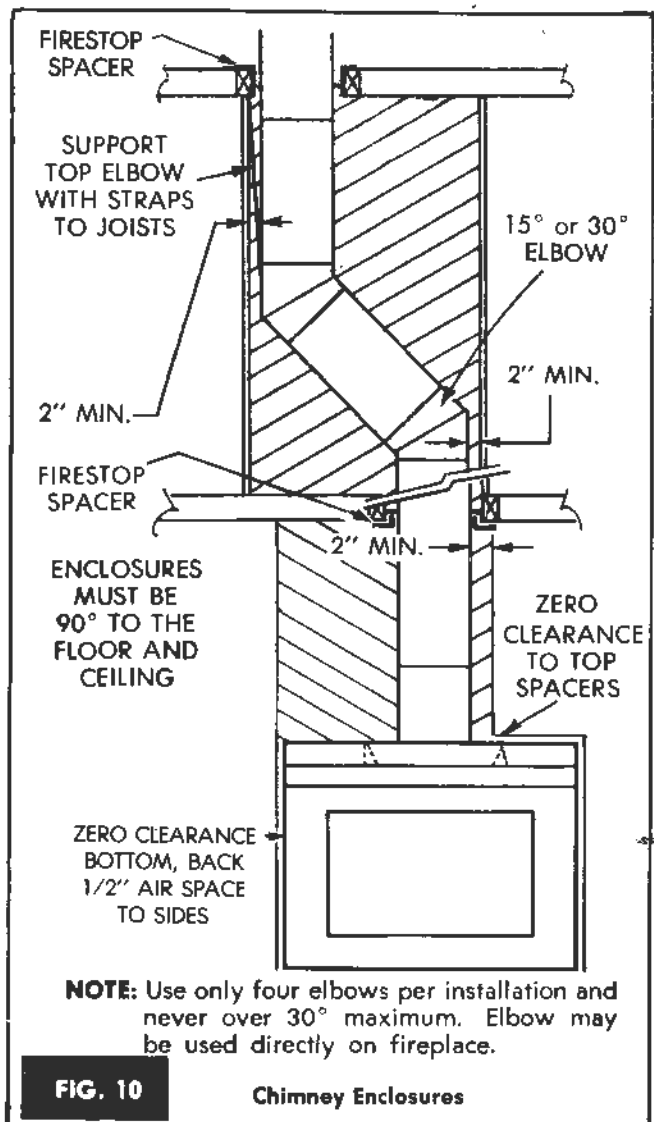
HEARTH EXTENSION IS TO BE INSTALLED ONLY AS ILLUSTRATED. HEARTH EXTENSION MUST NOT BLOCK CIRCULATING AIR OPENINGS AT BOTTOM OF FIREPLACE. IF THICKNESS OF HEARTH EXTENSION IS SUCH THAT IT BLOCKS OPENINGS THE FIREPLACE MUST BE RAISED. SEE FIG. 5.

CHIMNEY ENCLOSURE

The chimney should be enclosed within the building or in a chase (See Figs. 10 and 11).

WARNING

MAINTAIN THE MINIMUM FREE AIR SPACE CLEARANCE. DO NOT FILL THE REQUIRED AIR SPACES WITH INSULATION OR OTHER MATERIALS.



CHIMNEY CHASES

A chase is an enclosure for the fireplace and chimney or multiple chimneys alone. It can start from the basement floor line, first floor, part way up the outside wall or on the roof itself.

Consult local codes regarding height, firestops and construction details in your area, as requirements may vary with the type of building.

A chase should be constructed (and insulated) just as any other outside wall. The outside cover must be of a material designed for exterior use. The chase walls must have the same insulation as used in the house side walls. Many codes require a closure at the first ceiling level with a firestop spacer installed.

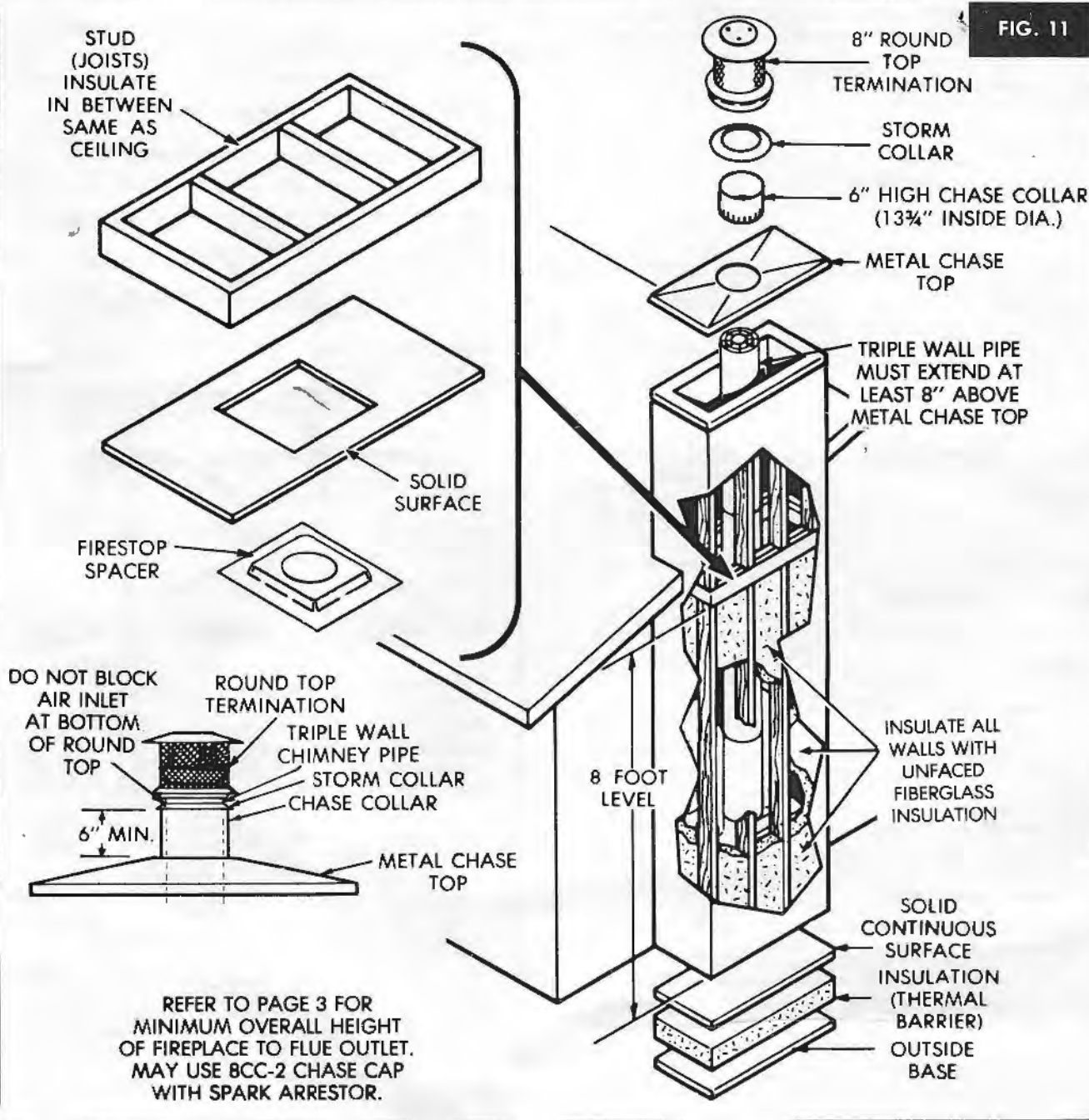
The chase must be insulated up to a minimum of this level (higher if more than one story) and also the closure insulated with ceiling insulation.

The base of the chase must also be insulated between the solid continuous floor beneath the fireplace and the chase bottom. This will break the cold conductivity into the fireplace.

A metal chase top and chase collar made by local sheet metal shop, must cover the chase to prevent water leakage. The 6" high collar attached to chase top will keep the triple wall pipe at its proper minimum height above the chase top. Use water proof caulking around all seams to be sure it is weather tight.

NOTE: The triple wall chimney pipe must extend at least 8" above the chase top unless an 8CC chase cap is used.

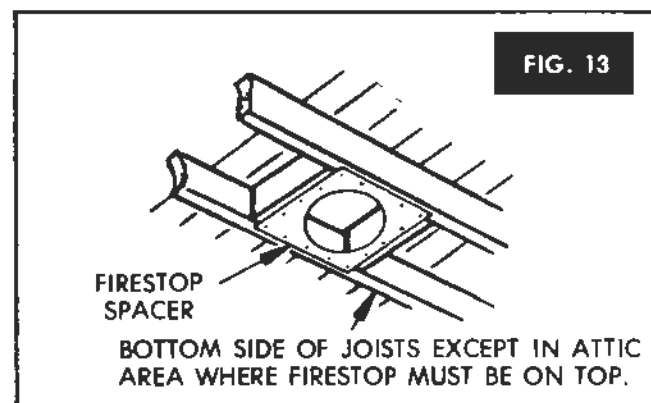
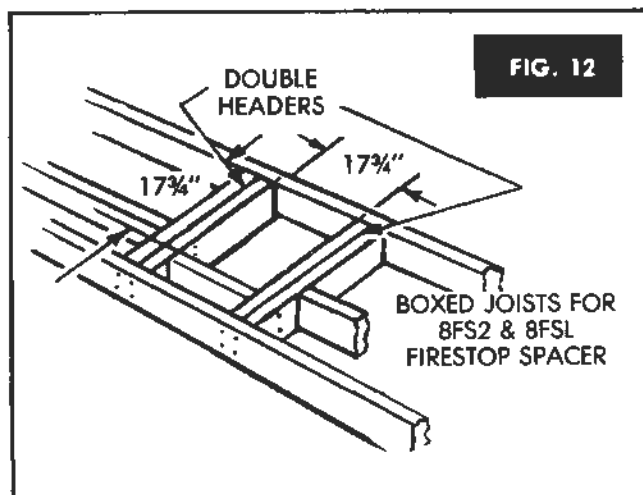
FIG. 11



installing the chimney

CUTTING HOLE IN CEILING

1. Locate center of opening in ceiling to prevent joist being cut if possible.
2. Drill hole in center of opening through ceiling and layout 17-3/4" square opening on ceiling for firestop spacer.
3. Cut out opening. Double headers should be placed between joists for extra support and nailed in place. (See Fig. 12). **NOTE:** If 8FS230 30° firestop spacer is used, the long side of opening must be 24-7/8".



FIRESTOP

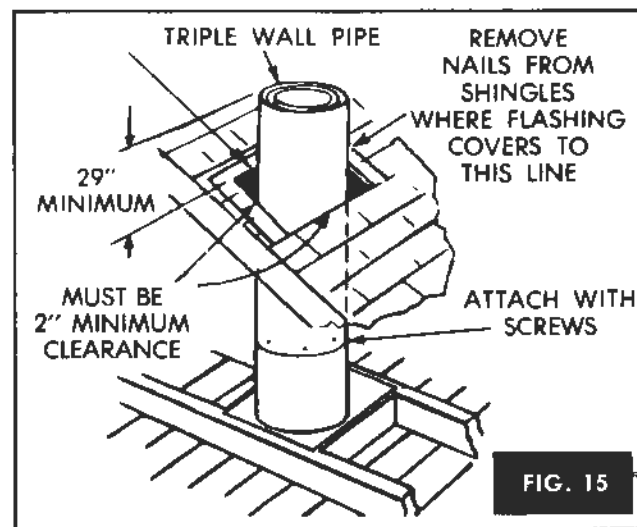
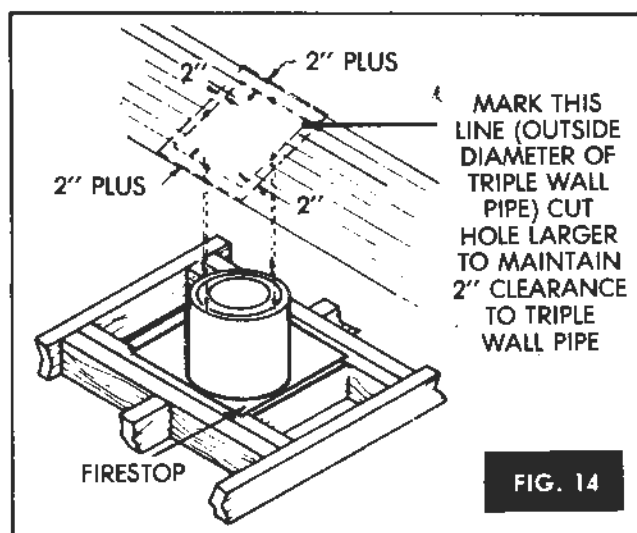
If chimney passes through a floor or ceiling, a firestop spacer must be used. See section on Installation Height for firestop to be used. Firestop spacer should be located at the bottom of each framed opening in any floor or ceiling that the chimney pipe passes through, (See Fig. 13), except in the attic joist area where insulation is present. Then spacer must be on top of joists.

Portions of the chimney that may pass through accessible spaces must be enclosed maintaining 2" minimum air space clearance to avoid personal contact with or damage to the chimney.

Keep Insulation Away From Chimney!

CUTTING HOLE IN ROOF

1. Find the size hole to cut into roof by using a string and plumb bob and marking four sides of the triple wall pipe on the inside of the roof.
2. Lay out roof opening larger, to keep 2" minimum clearance from triple wall pipe to combustibles in finished opening.
3. Cut out opening. Save shingles for covering flashing. A rafter may have to be cut to make opening. Place headers between remaining rafters and nail in place. Place additional rafter section to maintain 2" clearance. (See Fig. 14).



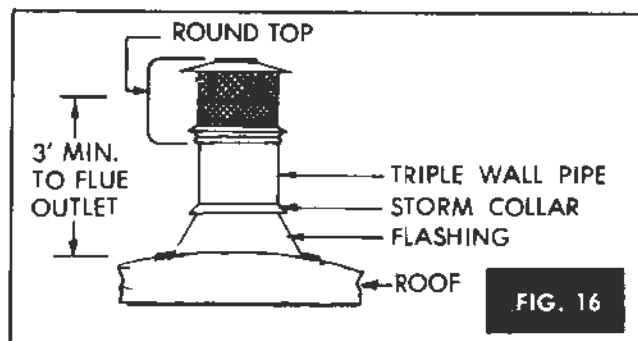
ADDING PIPE SECTIONS

1. Position triple wall pipe on top of the fireplace. Match seam of triple wall pipe into notch of ring on top of fireplace. Attach the pipe section to the fireplace with screws provided. If an offset is needed to miss a joist or rafter, use a 15° or 30° Elbow Kit.
2. Add sections of triple wall pipe. Rotate each section until seam is aligned and key and notch are mated.
3. Fasten together until top section is at least 29" above highest point of roof cutout.
4. Caulk seam notch and any open holes, on any joints above flashing.

IMPORTANT

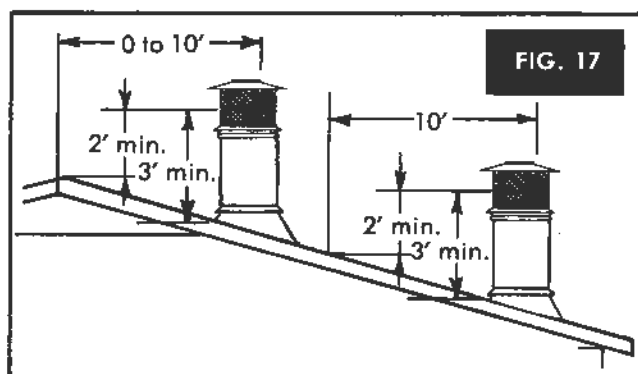
NOTE: If Square Decorative Chimney (DCT) is to be used, refer to instructions included with the Decorative Chimney at this point to finish above the roof installation.

INSTALLING ROUND TOP ABOVE ROOF



IMPORTANT

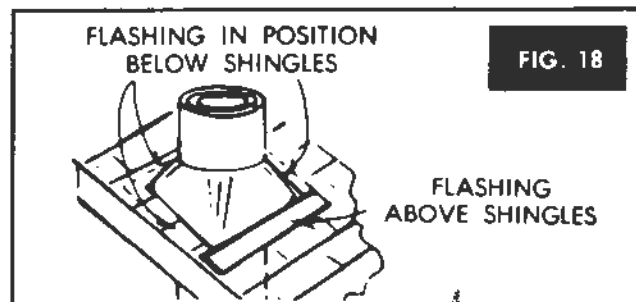
The Chimney Flue Outlet **MUST** be at least 3 feet above the roof surface top cutout and 2 feet above the highest point within 10 feet horizontally (See Fig. 17).



When chimney is within 10' of roof peak, the top should extend a minimum of 2' above the roof peak, but never less than 3' in height above the highest point where it passes through the roof. When further than 10' from roof peak the top of chimney should be positioned so that it is 10' or more from the closest point on roof in a horizontal direction, and a minimum of 2' above that point, but never less than 3' in height above the highest point where it passes through the roof.

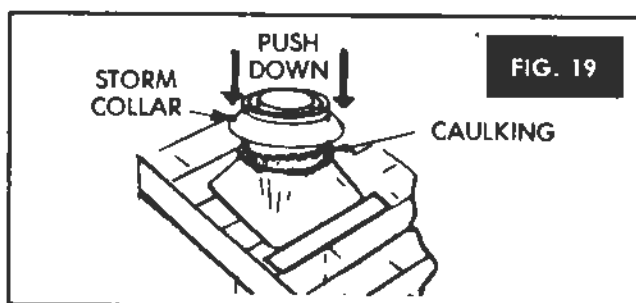
INSTALLING FLASHING

Place flashing over chimney pipe and mark outline on roof. Remove nails from shingles in this outline to bottom edge of roof cutout (See Fig. 18). Coat area on roof with roof cement. Slide flashing under shingles into position and renail top and side shingles. It may be easier to remove the shingles and install them over the flashing after it is in place. **DO NOT** nail through lower portion of flashing. If necessary, cover side and top of flashing with salvaged shingles.



INSTALLING STORM COLLAR

Install storm collar and raise upward. Apply waterproof caulking around flashing where collar fits at top of flashing. Push storm collar down securely on caulking and flashing (See Fig. 19).



INSTALLING ROUND TOP

When triple wall pipe is used to extend chimney, extra sections are attached as described previously. The Round Top Assembly is then attached to the triple wall pipe. To attach, slide the Round Top brackets over outside wall of triple wall pipe and rotate until holes line up. Attach with three screws provided.

It is recommended that all exposed parts of the chimney be painted with galvanized primer paint. Then a coat of paint to match the decor of the home may be applied.

ELBOW INSTALLATION

A maximum of four elbows (two offsets) may be used in the chimney system to offset the chimney to avoid beams, joists, rafters or other obstructions.

Elbows are available in 15° and 30° bends. See page 11.

When angled chimney runs pass through a floor or ceiling an 8FS230 firestop must be used.

CHIMNEY SUPPORTS

When the overall height of the fireplace and chimney is greater than 38 feet, then support straps, SK90 must be installed at every 35 foot level.

Chimney must be laterally supported at 8 foot intervals above the roof or when not enclosed.

elbow installation and chimney support

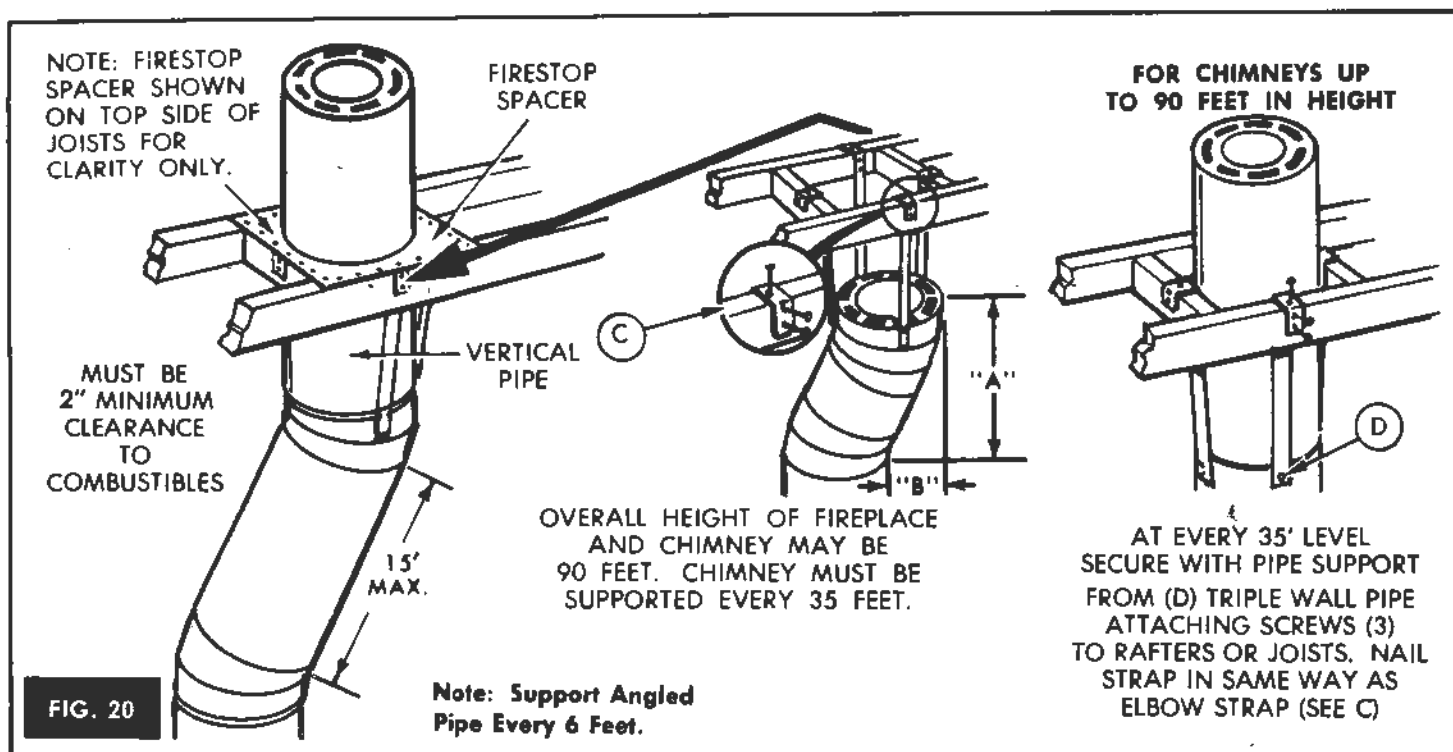


FIG. 20

Number and Length of Triple Wall Pipe				8" Dia. (8E15) 15° Elbows		8" Dia. (8E30) 30° Elbows	
18 Inch 818	24 Inch 824	36 Inch 836	48 Inch 848	Height A"	Offset B"	Height A"	Offset B"
0	0	0	0	13¾	17½	16¾	4½
1	0	0	0	31	6½	32	13¼
0	1	0	0	36¾	8½	37½	16¼
0	0	1	0	48½	11¼	47¾	22¼
1	1	0	0	54¼	13¾	52¼	25¼
0	0	0	1	60½	14¼	58	28½
1	0	1	0	65¾	15¾	63¼	31¼
0	1	1	0	71¾	17¾	69	34¼
1	0	0	1	77½	19	73¾	37¼
0	0	2	0	83¼	20½	78¾	40¼
1	1	1	0	89½	22	84	43¼
0	0	1	1	95	23¾	89½	46¼
1	0	2	0	100¾	25¼	94¼	49¼
0	0	0	2	106¾	26¾	99½	52¼
1	0	1	1	112¾	28¼	104¾	55¼
0	0	3	0	118¼	29¾	109¾	58¼
1	0	0	2	124	31½	115	61¼
0	0	2	1	129¾	33	120¼	64¼
1	0	3	0	135¾	34½	125½	67¼
0	0	1	2	141½	36½	130¾	70¼
1	0	2	1	147¼	37¾	135¾	73¼
0	0	0	3	153	39¼	141	76¼
1	0	1	2	158¾	40¾	146¾	79¼
0	0	3	1	164¾	42¾	151¾	82¼
1	0	0	3	170½	44	156¾	85¼
0	0	2	2	176¼	45½	161¾	88¼
1	0	3	1	182½	47	167	91¼
0	0	1	3	188	48¾	172½	94¼

NOTE: All Elbow Kits include Offset and Return. **DO NOT** use less than 18" of triple wall pipe between Elbow Kits, when using four elbows. **DO NOT** use more than four elbows per chimney or elbow over 30°. Elbows may be mounted directly on fireplace. **DO NOT** use elbows on installations less than 12 feet 6 inches in height.

finishing

Fireplace may be installed so face material is flush with, or projecting in front of finished wall. For flush installation, fireplace is recessed back of finished wall surface, the thickness of the face material.

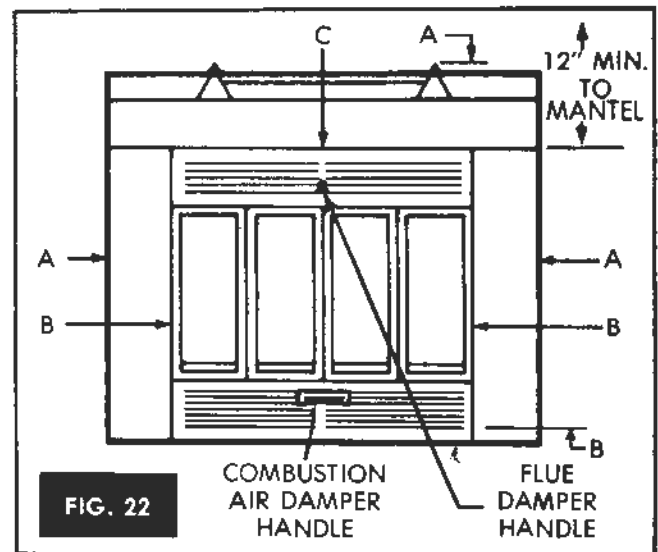
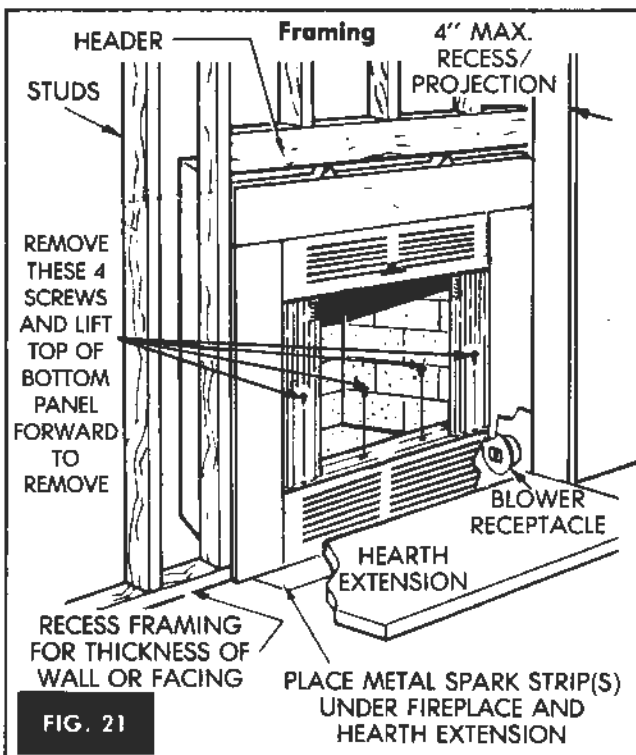
For projecting installation, the fireplace is flush with finished wall at minimum and can be any distance into the room. (See Fig. 3).

Flush installations are recommended for smooth or thin face materials. Use a molding to cover crack between finished wall and face material.

Projecting the fireplace into a room allows a more shallow cavity to be used to contain the fireplace. It will accent large natural materials (i.e. fieldstone) used for face material. The cracks between face material and wall must be filled with non-combustible colored caulking, or mortar. The top is usually covered by a mantel.

The fireplace may be recessed at the sides only a maximum of 4 inches into combustible construction or a 4-inch maximum combustible projection at the sides of the fireplace may be used to frame or trim the fireplace. (See Fig. 21).

NOTE: Any mantel must be at least 12" from the top of fireplace top grille opening.



- A -- Do not install combustible material closer than line A.
- B -- Do not install non-combustible material any closer than line B for clearance for doors and air inlets.
- C -- Non-combustible material can be installed up to this line.

NOTE

Do not allow any opening between the front of the fireplace and the surrounding materials. Cold air may enter or hot air be lost if there is an opening. Fill this area with non-combustible caulk or equal. Check with local codes for installation procedures.

FINISHING

- For finishes using non-combustible facings, the materials may overlap the frame of the fireplace up to the opening on either side. Do not extend it below Line C above the fireplace opening (See Fig. 22). The finish materials may be anchored using metal screws into the fireplace frame.
- The framing of the fireplace may be covered with any non-combustible facing material, i.e., light-weight stone, brick, veneer, ceramic tile, etc.

CAUTION

Do not block the circulating air opening at the top or bottom front of the fireplace.

care and operation of your preway fireplace

TO BUILD A FIRE

Start with small fires to "season" refractory and hearth. Gradually increase size of fires to desired height and amount of heat.

Chimney damper opens by pulling handle to right side of slot as far as it will go. Damper will swing fully open. Damper should be open at all times when heat is present in the fireplace. One knob in the front bottom releases Barometric Combustion Air Damper. Move knob to "open" position while fireplace is in operation to allow the damper to operate automatically.

1. Open glass doors and mesh screens.
2. Be sure proper size grate is placed as far back in fireplace as it can go. Place several crumpled pieces of paper on grate. Cover paper with small pieces of kindling wood.
3. Open chimney damper (see above). Light a piece of crumpled rolled up paper and hold paper high inside the chimney. Repeat until a roaring sound is heard. This indicates that the draft has been established.
4. Light the paper in the grate. **Never use gasoline, kerosene or lighter fluid to light or freshen the fire.** As the kindling catches, add more or heavier wood until fire is well established, being careful not to "smother" fire. Close mesh screen and/or Preway glass doors completely. **If fireplace is operated with glass doors open, the mesh screens must be closed to prevent sparks or embers from entering the room.**
5. **DO NOT OVERFIRE** - Excessively cracked refractory and glass breakage are indications of over-firing. Use of 3 to 4 approximately 4" round logs should provide an enjoyable fire. This fireplace is not intended as a furnace to heat an entire home. Use for supplemental heating only.
6. Keep combustible materials and furniture at least 3 feet from front of fireplace.

NOTE: Some smoke and odor may occur on first light. This is from oil used in manufacture. This should not reoccur.

CAUTION

Creosote - 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 slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited this creosote makes an extremely hot fire.

The chimney should be inspected at least twice a year 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.

WARNING

Burn solid wood fuel only. Do not use artificial logs, chemical chimney cleaners or flame colorants. Use of these products may damage your fireplace and create a fire hazard.

NOTE: Brass Glass Door Frames may discolor after exposure to long periods of heat from the fireplace.

HINTS FOR BEST RESULTS

Your fireplace may be operated with the Preway glass doors completely open or closed as you prefer.

1. Keep chimney and flue pipe clean to avoid any flue blockage, smoking, or chimney fires. Check and clean at least twice a year (more often if necessary). It is recommended that this be done by a professional chimney sweep.
If necessary for cleaning, the rain cap can be removed by removing the 3 screws that hold the cap to the pipe and lifting the cap off the pipe.
2. Always open chimney damper completely before lighting fire or warming chimney.
3. Keep base of fireplace clear of excess ash accumulation. This will extend life of the grate.

CAUTION

Ventilating fans, exhaust hoods or central heat system often cause fireplaces to smoke by stealing the fireplace combustion air. If the volume is enough, it can even cause a reverse flow of air down the fireplace chimney causing smoking.

4. If starting a fire in a cold room be sure and warm the chimney first -- see instruction 3, "To Build a Fire". (It may take two or three pieces of paper before it warms.) Otherwise fireplace will smoke until flue is warm.
5. A proper size grate promotes a quick and even fire. Be sure grate is placed as far back in fireplace as it can go to allow air to enter the fire from all directions. Be sure ashes do not accumulate under grate. The proper size grate will then be approximately 1-1/2" to 2" from each side and 4" to 6" from glass doors. If it is closer, the excess heat may cause glass breakage.
6. When the fire has gone completely out, close all dampers to reduce excess heat loss and cold air entering. This will also reduce condensation in the chimney and resulting water in hearth. If dampers are not closed, it will result in increased heating bills.
7. To close chimney damper, pull handle to left as far as it will go. To close combustion air damper, pull knob to left as far as it will go.

8. Disposal of Ashes - 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.

PREWAY BLOWER

Two optional blowers are available for the fireplace to aid in the circulation of the heated air from the fireplace (See Optional Equipment).

Both blowers have an adjustable speed control to regulate the flow of air. The blowers will not create a "Blast" of air, but simply keep the room air gently circulating. This should eventually create an even heat throughout the room.

The BK190 blower can usually be installed at any time and is a very simple procedure provided the electrical outlet in the fireplace was wired during the original installation (see page 8) and the frame bottom can be removed.

The PAK-275 blower must be installed during the original fireplace installation.

PREWAY GLASS DOORS

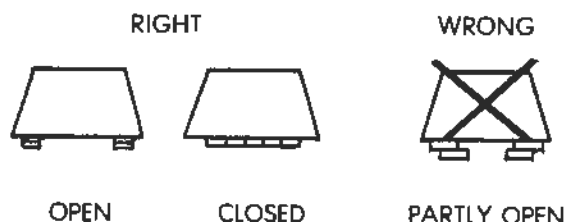
NOTE: Only Preway Glass Doors designed for this model meet U.L. approval for installation.

WARNING

IF FIREPLACE IS TO BE OPERATED WITH PREWAY GLASS DOORS OPEN, THE MESH SCREEN MUST BE KEPT CLOSED TO PREVENT SPARKS OR EMBERS FROM ENTERING THE ROOM.

FIREPLACES EQUIPPED WITH DOORS SHOULD BE OPERATED ONLY WITH DOORS FULLY OPEN OR DOORS FULLY CLOSED. IF DOORS ARE LEFT PARTLY OPEN, GAS AND FLAME MAY BE DRAWN OUT OF THE FIREPLACE OPENING, CREATING RISKS OF BOTH FIRE AND SMOKE.

TOP VIEW



HOT WHILE IN OPERATION. TO AVOID BURNS OR INJURY DO NOT TOUCH GLASS OR FRAME WHEN FIREPLACE IS IN OPERATION.

NOTE

Be sure grate is 4" to 6" back from glass. If closer, there is a possibility of glass breakage.

HEARTH OR REFRACTORY CRACKS

The hearth and refractory material have metal shields behind them to protect any combustibles outside the fireplace if a crack occurs. A crack can be caused by sudden changes in temperature (thermal shock, very hot fires, drafts, etc.). **A crack does not impair any usage of the fireplace.** If you wish to cover and seal a crack, order the K18327 Sealant Kit from your dealer.

PARTS REPLACEMENT PROCEDURE

To Remove Screens

1. Remove screw from top center allowing rod to drop down.
2. Drop end of rod down out of side frame.
3. Remove screen and rod.

To Remove Doors

1. To remove center doors, lift them up until bottom clears track. Swing bottom out and pull down to remove.
2. To remove outer doors, remove door stop from top track (one screw). Pull doors into center of opening and remove same as center doors.
3. To replace, reverse procedure but be sure doors overlap so they catch on carrier.

To Remove Side Refractory

1. Remove side brick holder.
2. Lift up and swing back edge of refractory toward center of fireplace while sliding it back out of the front side panel.
3. Tilt top of refractory forward and remove from unit. Careful - the refractory is heavy.
4. Repeat for other side.

To Remove Rear Refractory

1. Remove doors.
2. Remove two screws in refractory retainer over top of refractory. Remove one screw holding retainer to front heat deflector.
3. Grasp refractory at top and lower top forward. Tilt to remove from fireplace.

To Remove Bottom Panel

1. Remove four screws from top of bottom panel and damper knob.
2. Remove frame. Grasp grill, pull forward, and remove.

To Remove Top Panel

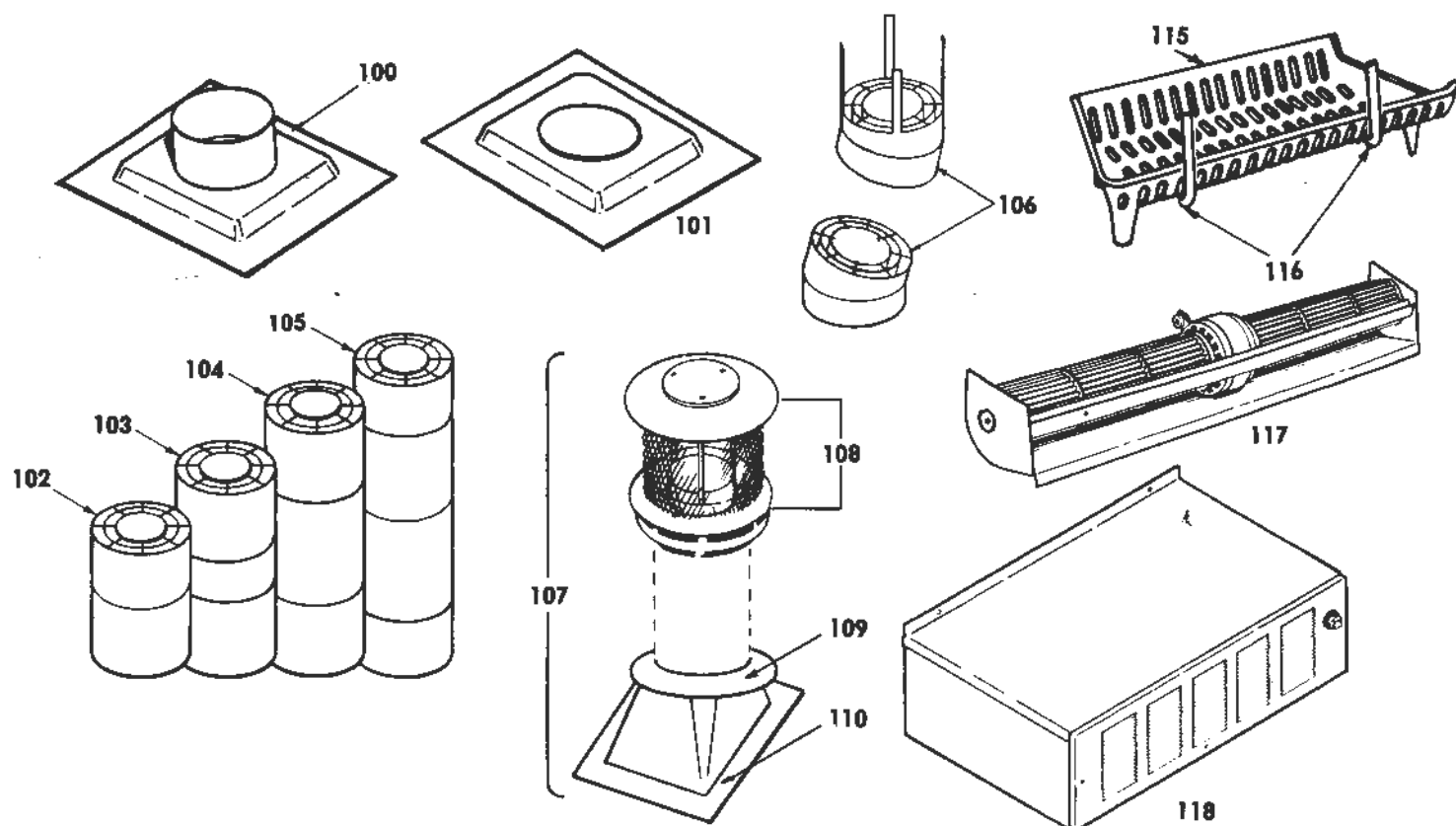
1. Remove two screws in top of bottom deflector.
2. Grasp grill, lift slightly, swing out bottom and pull down. Remove from fireplace.

To Remove Cast Hearth

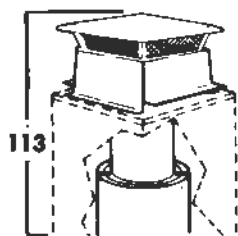
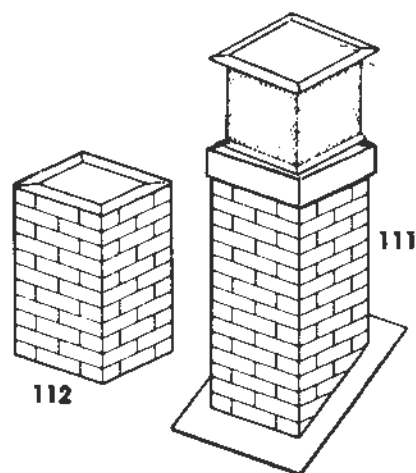
1. Remove doors and refractory as described.
2. Remove both front refractory spacers (6 screws).
3. Tilt hearth upward from side and remove from fireplace.

To Replace, Reverse Above Procedures.

chimney and optional equipment



PARTS LIST

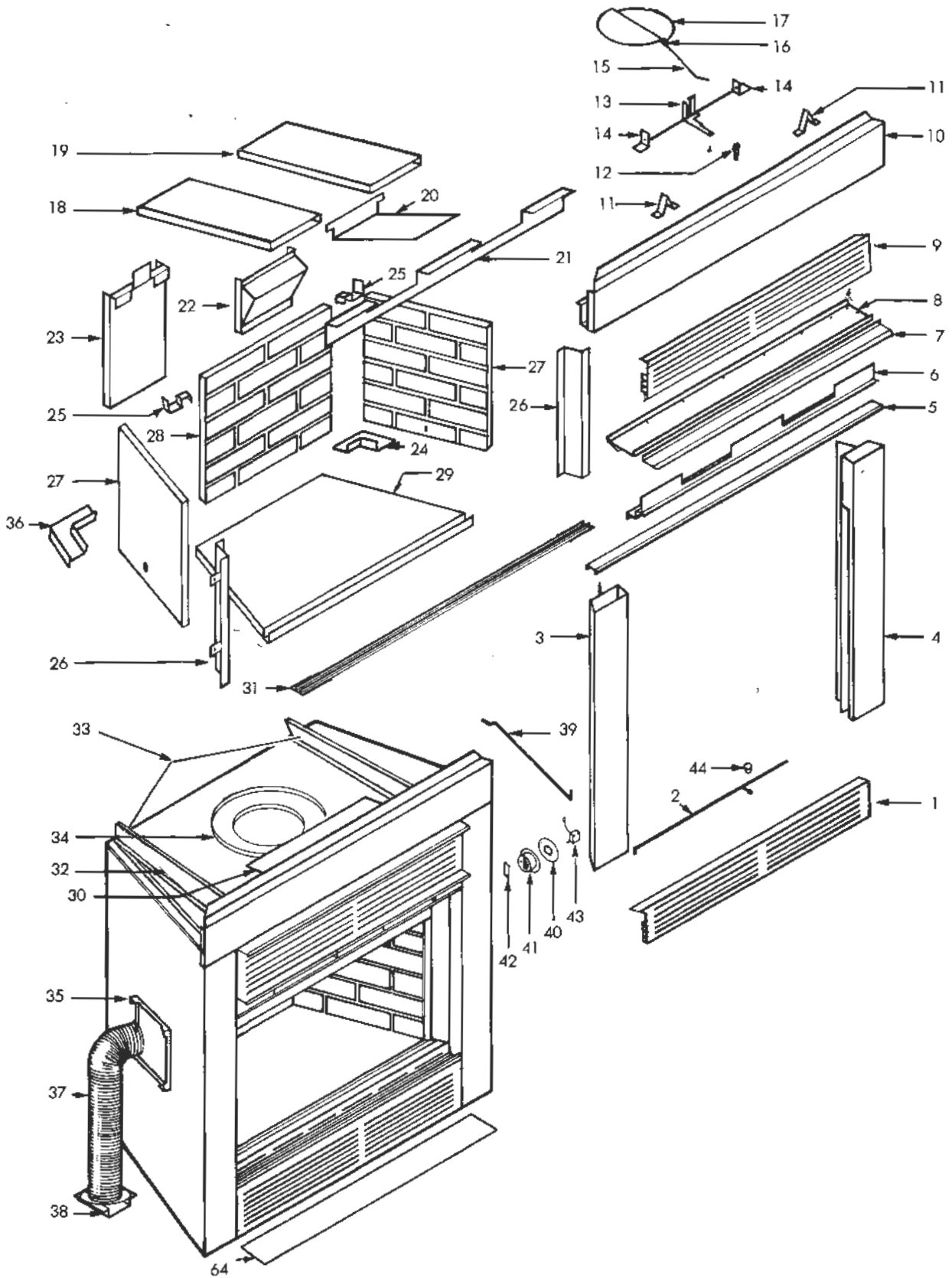


KEY NO.	PART NO. FOR FIREPLACE MODEL BI41-SEM	DESCRIPTION
100	8FSL	Firestop Spacer Thimble
101	8FS2	Firestop Spacer
101	8FS230	Firestop Spacer, 30°
102	818	Triple Wall Pipe, 18"
103	824	Triple Wall Pipe, 24"
104	836	Triple Wall Pipe, 36"
105	848	Triple Wall Pipe, 48"
106	8E15	Elbow, 15° (Set of 2)
106	8E30	Elbow, 30° (Set of 2)
107	8CA6	Chimney Assy. 0/12 - 6/12
107	8CA12	Chimney Assy. 6/12 - 12/12
108	8RTSA	Round Top w/Spark Arrestor Storm Collar
109	8SC	Storm Collar
110	8F6	Flashing 0/12 - 6/12
110	8F12	Flashing 6/12 - 12/12
111	8DCT-1R	Dec. Chimney Pkg. - Red
111	8DCT-1W	Dec. Chimney Pkg. - White
112	DE36R	Dec. Chimney 36" Ext. - Red
112	DE36W	Dec. Chimney 36" Ext. - White
113	8CC-2	Chase Cap w/Spark Arrestor
115	GR22	Grate
116	LRK	Log Retainer Kit
117	BK190	Blower Kit
118	PAK275	Blower, High Capacity Support Strap Kit
N/S	SK90	

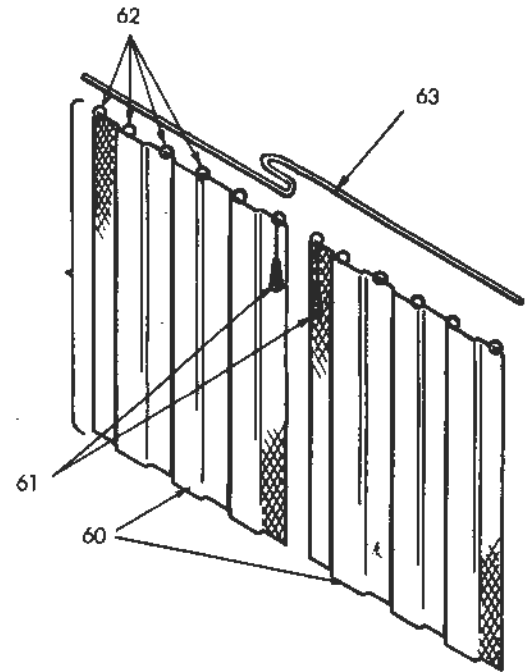
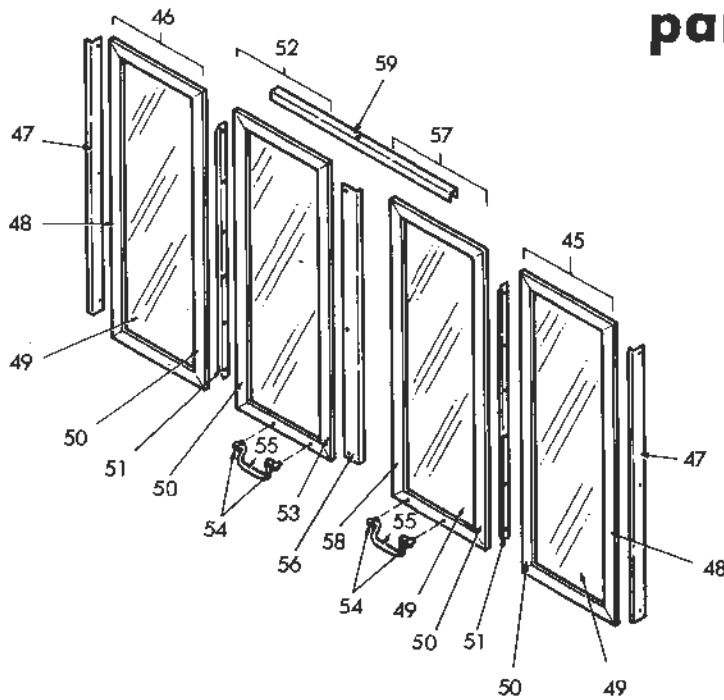
N/S — Not Shown

parts illustration

MODEL BI41-SEM TYPE AP



parts



FIREPLACE PARTS LIST MODEL BI41 SEM TYPE AP

KEY NO.	PART NO.	DESCRIPTION
1	T20688	Bottom Panel
2	K18349	Link Rod
3	Y14943	Frame, Left
4	Y14944	Frame, Right
5	Y14907	Upper Track
6	Y15627	Lower Top Panel
7	T20704	Top Grill Lower Deflector
8	T19870	Top Grill Support
9	Y16003	Top Panel Assembly
10	T17992	Top Frame
11	T17993	Top Frame Spacer (2 Req.)
12	K17795	Knob
13	Y15230	Riser
14	T19537	Riser Bracket (2 Req.)
15	K18273	Damper Rod
16	K17755	Spacer
17	T20545	Damper
18	T19852	Left Duct
19	T19853	Right Duct
20	T19862	Front Heat Deflector
21	T19872	Smoke Shield
22	Y15224	Rear Shield
23	T19859	Refractory Retainer
24	T20318	Refractory Holder
25	T20073	Side Refractory Holder (2 Req.)
26	Y15229	Front Refractory Spacer (2 Req.)
27	Y15363	Side Refractory (2 Req.)
28	Y15364	Rear Refractory
29	Y15989	Hearth
30	T20249	Top Shield
31	Y14908	Lower Track
32	T18685	Case Tap
33	T18687	Top Spacer (2 Req.)
34	T19544	Case Insert

KEY NO.	PART NO.	DESCRIPTION
35	T19968	Air Inlet Spacer
36	T20319	Refractory Holder
37	T19648	Air Inlet Pipe (4" x 42")
38	K18168	Air Inlet
39	K17434	Left Damper Rod
40	T19448	Plate
41	T19901	Outlet Box
42	T19902	Cover
43	K17033	Receptacle
44	K17164	Knob
45	Y14938	Right Inner Door, Complete
46	Y14937	Left Inner Door, Complete
47	T19418	Door Baffle (2 Req.)
48	K17008	Door Frame (2 Req.)
49	K17015	Door Glass (4 Req.)
50	K17009	Door Frame (4 Req.)
51	T19417	Door Carrier (4 Req.)
52	Y14939	Left Center Door, Complete
53	K17007	Door Frame
54	K17126	Stud (4 Req.)
55	K17018	Handle (2 Req.)
56	T19416	Door Seal
57	Y14940	Right Center Door, Complete
58	K17006	Door Frame
59	T19423	Door Stop
60	K18280	Screen (2 Req.)
61	Y13321	Handle (2 Req.)
62	K14273	Ring (18 Req.)
63	K18240	Rod
64	T19931	Metal Spark Strip
†	F4299	Owners Manual
†	K18327	Refractory Sealant

† Not Illustrated

Limited 25-Year Warranty

The following products are covered by this warranty: Preway Models BI36EM, PB36, BI36SEM, BE41SEM, BI41SEM and all Preway chimney components used with them.
(U.L. Listed Preway fireplace installations require use of Preway chimney components.)

Preway Inc., warrants to each original retail purchaser that each product or part manufactured by Preway and installed in the continental United States or Canada will be free from defects in material and workmanship for twenty-five years from date of purchase under normal use and service. Door glass, grate and refractory materials are not included in this warranty. The refractory materials are products that will expand and contract with heat and subsequent cooling. The function of the fireplace will not be impaired by cracking. Electrical components are warranted for 90 days from date of purchase.

The front panels of Model PB36 are solid brass and are subject to normal brass discoloration (oxidation) or antiquing effect. The brightness or condition of the front solid brass panels is not covered by this warranty.

Preway's duty in event of defect shall be limited as follows: For the first year from date of purchase, Preway will replace or repair any defect in material or workmanship at no cost to the buyer or, at Preway's option, refund the original purchase price of the Preway fireplace or chimney. For the next twenty-four years Preway will furnish replacement parts on the following schedule, but the buyer must bear all other expenses in connection with the repair or replacement, including labor.

Years 2 through 10 - no charge except shipping

Years 11 through 15 - 50% off then current list price

Years 16 through 25 - 25% off then current list price

Modification or alteration of the original equipment, or use of any fireplace insert, shall void this warranty. This warranty shall also become void if the product of any other manufacturer is used in conjunction with the Preway prefabricated fireplace without first obtaining the prior written consent of Preway, which

consent shall not be unreasonably withheld.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS IS LIMITED TO THE DURATION OF THIS EXPRESS WARRANTY. IN THE EVENT OF BREACH OF AN IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, THE TERMS OF THIS WARRANTY SHALL CONSTITUTE THE BUYER'S SOLE AND EXCLUSIVE REMEDY. IN NO EVENT AND AT NO TIME WILL PREWAY BE LIABLE FOR BREACH OF WARRANTY, WHETHER EXPRESS OR IMPLIED (INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS), IN ANY AMOUNT GREATER THAN THE ORIGINAL PURCHASE PRICE OF THE PRODUCTS DESCRIBED BY THIS WARRANTY. No agent, distributor, salesman, wholesale or retail dealer has authority to bind Preway to any other affirmation, representation or warranty concerning these goods. Any sample or model shown the buyer is for illustration use only. Preway does not assume responsibility for poor draft caused by air conditioning systems, heating systems or any other mechanical devices, or caused by negative pressure created by irregular wind currents.

To obtain Preway's performance, the buyer must take the following two steps: (1) Notify Preway (at address below) of the problem; (2) permit examination by Preway, which examination must establish satisfactory proof that the problem is due to a defect in material or workmanship.

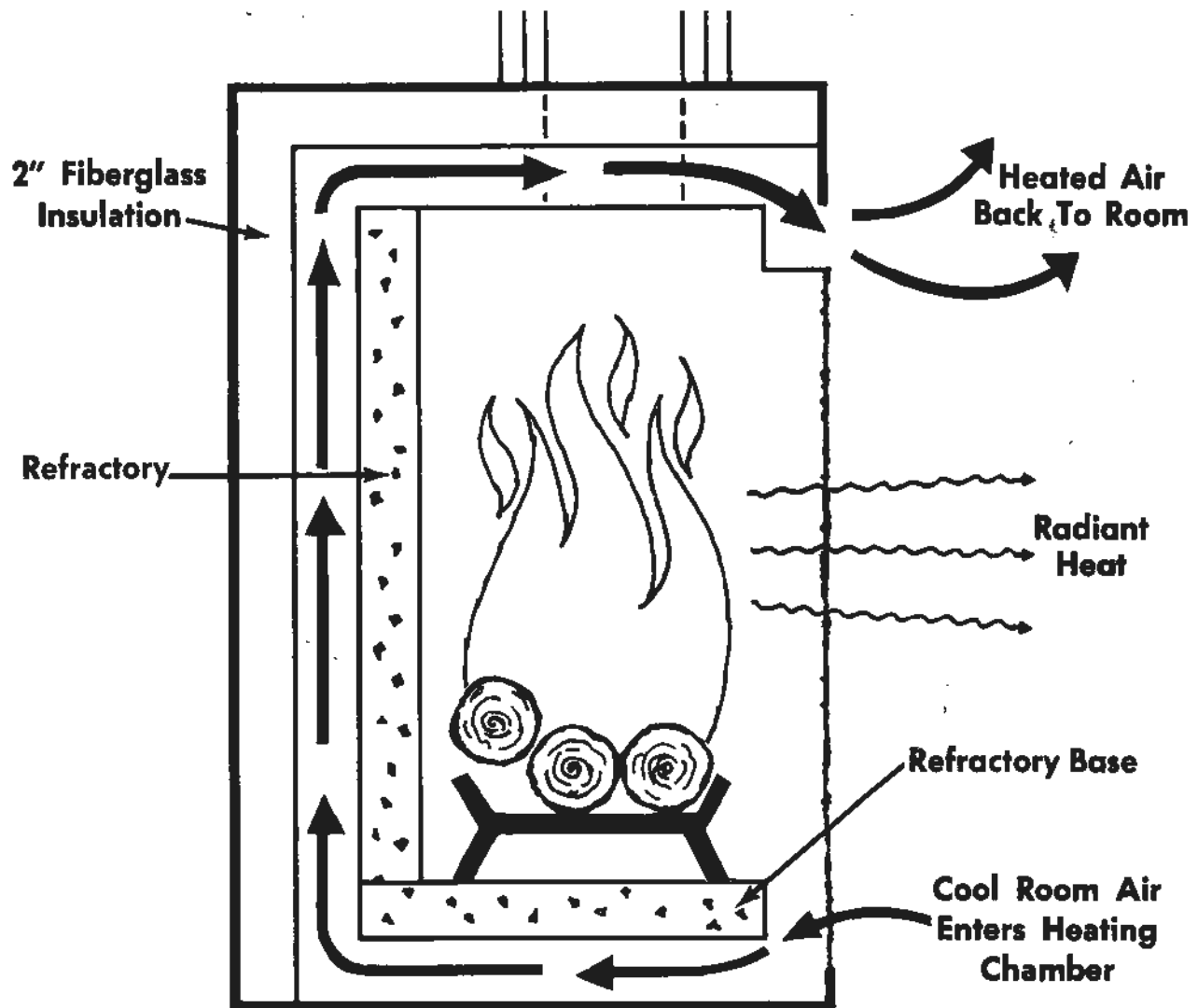
Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you also may have other rights which vary from state to state.

1430 Second Street North
Wisconsin Rapids, Wisconsin 54494


PREWAY
A nice warm feeling®

COPYRIGHT PREWAY INC. 1986
Printed in U.S.A.

YOUR PREWAY FIREPLACE Produces Heat!



- Heating chamber completely closed off from firebox.
- Attractive front louvers direct air flow through heating chamber.

Room air is drawn into heating chamber at floor level, heated as it circulates around the firebox, and returned to room.



BUILDING INSPECTOR'S CHECKLIST FOR FACTORY BUILT FIREPLACES

This checklist is not a substitute for the manufacturer's installation, operation and maintenance instructions and your jurisdiction's building code requirements. This checklist should be used only for checking some of the major aspects of the fireplace and its installation. A complete inspection will require reference to the local building code and the manufacturer's installation, operation and maintenance instructions.

A. Examination of Parts

- ☐ 1. All parts of the fireplace and chimney system (except for chase covers that may be made locally) bear labels identifying them as listed components for use with the fireplace model installed.
- ☐ 2. All parts of the fireplace and chimney system are properly installed in accordance with the manufacturer's instructions, and none appear to have been damaged to an extent that would impair their function.
- ☐ 3. All louvers, slots or other means of air circulating to and through the fireplace are clear of all obstructions.
- ☐ 4. All spacers, supports, etc., on the fireplace are in place, unbent; and all combustible and insulation materials are spaced away from the fireplace the distance intended by these spacers.

B. Installation Safety

- ☐ 5. If the fireplace is installed on a combustible floor, a noncombustible safety strip was placed on the floor beneath the joint between the hearth extension and fireplace.
- ☐ 6. The hearth extension is constructed of noncombustible materials and is the thickness, depth and width specified in the building code and manufacturer's instructions, or is a listed accessory for the fireplace.
- ☐ 7. All insulation materials used near the fireplace and chimney are unfaced and noncombustible, or if the cellulose-type insulation is used in the attic, proper shielding of the chimney is provided in accordance with the instructions on the insulation package.
- ☐ 8. The fireplace is adequately supported, fastened down, or blocked in a manner to prevent it from settling or shifting out of position.

C. Trim

- ☐ 9. All trim materials applied to the face of the fireplace comply with the building code and manufacturer's instructions, and no cracks exist between the trim and the fireplace.

- ☐ 10. All combustible trim materials, including the mantel, are located the distance from the fireplace opening required by the building code and the manufacturer's instructions.

D. Chimney Inspection

- ☐ 11. There is an air space clearance between the chimney and all combustible and insulating materials as specified by the manufacturer's instructions and the label applied to the chimney sections.
- ☐ 12. The termination of the chimney is a minimum of three feet above the roof surface and two feet above any part of a structure within ten feet.
- ☐ 13. The chimney housing or termination assembly has been installed and fastened in place in the manner specified by the manufacturer's instructions.
- ☐ 14. The chimney is enclosed where it passes through living spaces, and firestops are installed where the chimney passes through ceiling as specified by the manufacturer's instructions.
- ☐ 15. If elbows are used, the chimney is not inclined more than 30 degrees from vertical, and the inclined portion of the chimney and the weight of the chimney above the elbows is supported by elbow support straps or other means specified by the manufacturer's instructions.

E. Miscellaneous

- ☐ 16. No modifications have been made to the fireplace unless specifically permitted by the manufacturer's instructions.
- ☐ 17. The owner's manual has been left where it will be available for the user of the fireplace.
- ☐ 18. No insert has been installed in the fireplace

PREWAY INC.

147718343



00C

812-424-7749

A nice warm feeling®

1430 Second Street North • Wisconsin Rapids, WI 54494 • 715-423-1100 • TWX: 510-337-4443