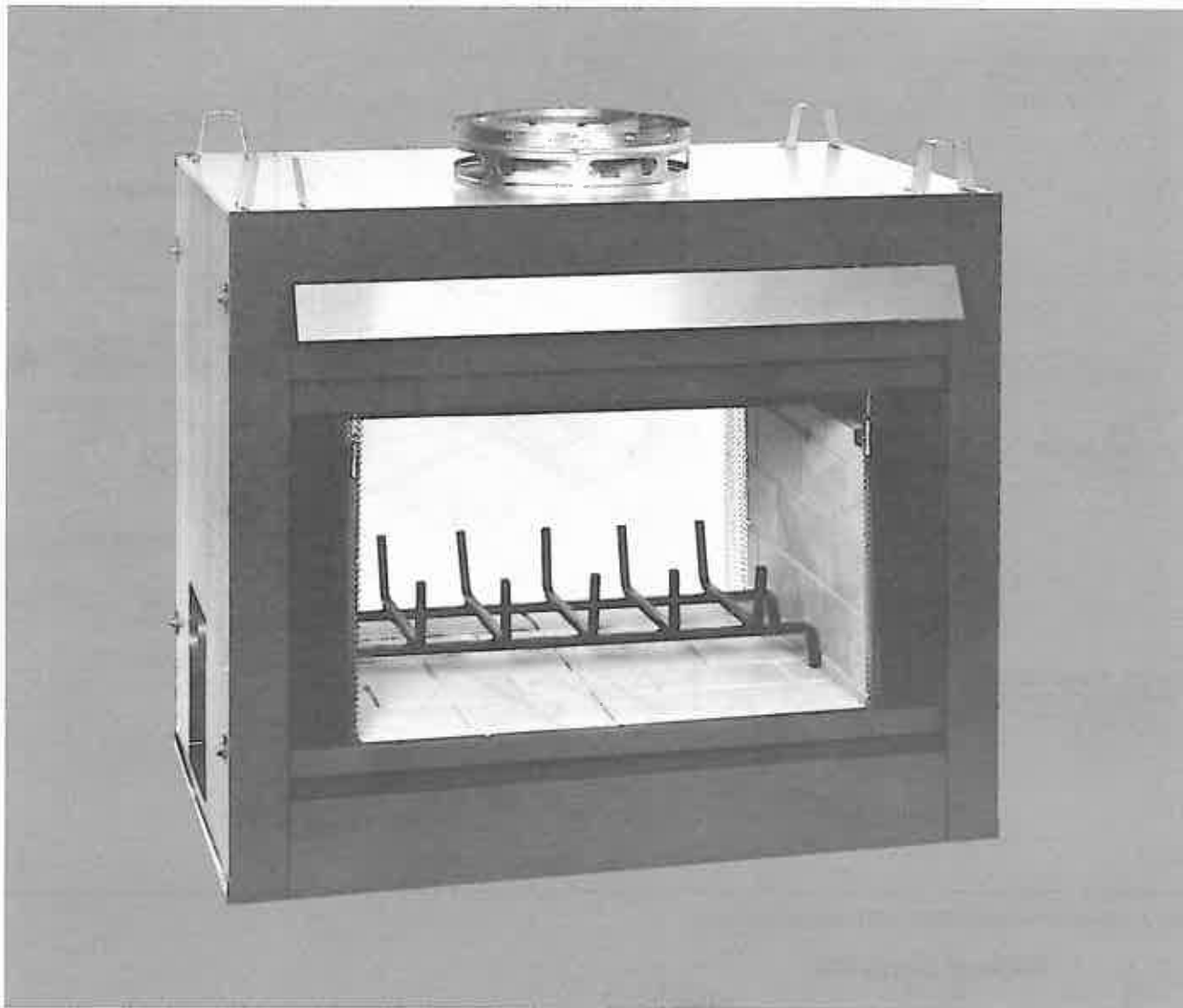


INSTALLATION MANUAL

for the **MAJESTIC**®

MST36
SEE-THROUGH FIREPLACE



IMPORTANT: Read all instructions carefully before starting installation. Failure to follow these installation instructions may result in a possible fire hazard and will void the MAJESTIC warranty.

Save this manual for future reference.

MAJESTIC®

IDENTIFICATION OF PARTS

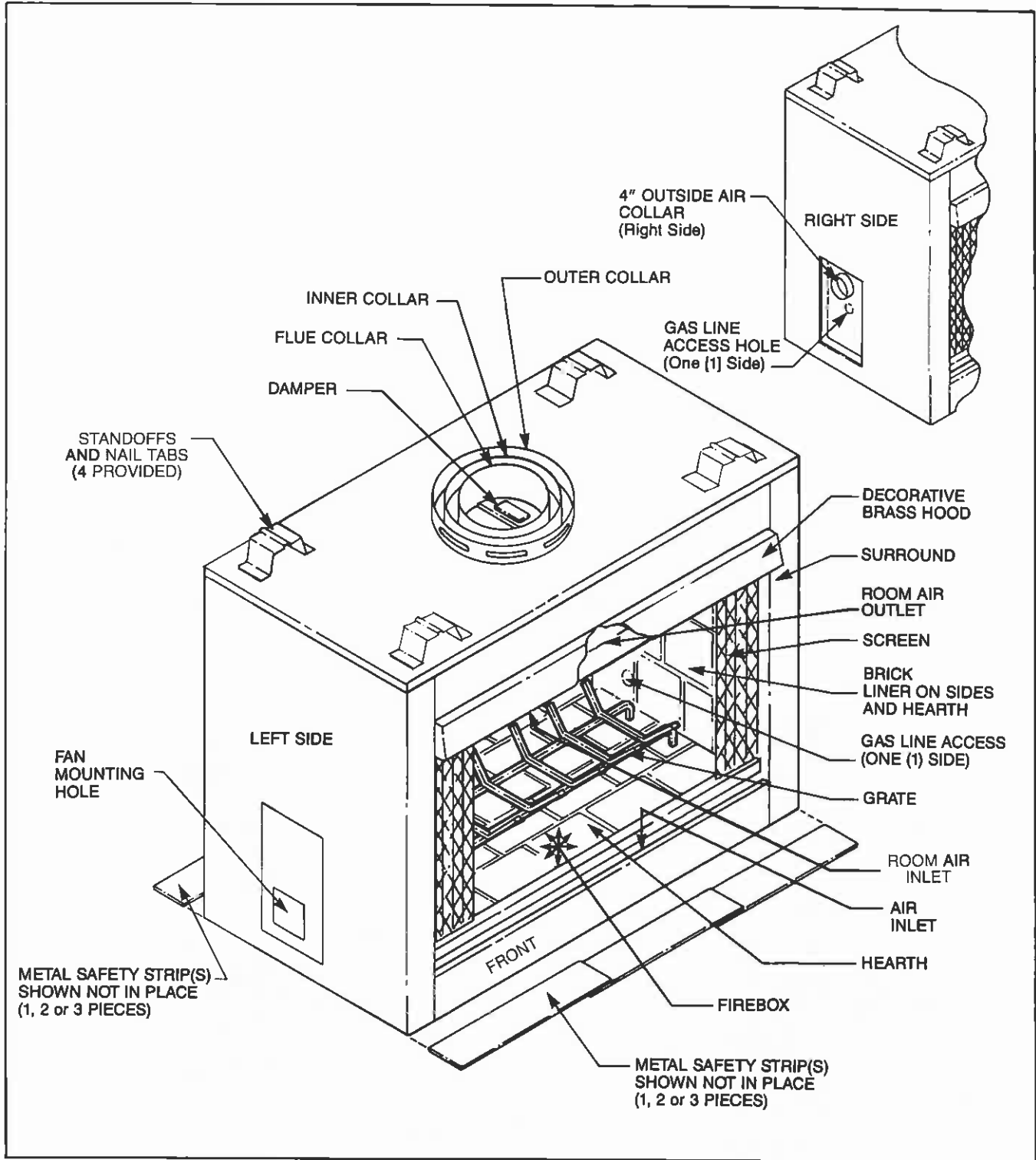


Fig. 1. Parts of the MAJESTIC MST Series fireplace.

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INSTALLATION PRECAUTIONS

This MAJESTIC Fireplace and its components are tested and safe when installed in accordance with this Installation Manual. Read all instructions **before** starting installation, then follow these instructions carefully **during** installation to insure maximum fireplace benefit and safety.

Report to your dealer any parts damaged in shipment, specifically, check for loose insulation in the fireplace and damper operation.

Since this fireplace and chimney assembly is a highly engineered system, **unless** you use Majestic components which have been designed for the system, you may possibly cause a fire hazard.

The MAJESTIC warranty will be voided by, and MAJESTIC disclaims any responsibility for, the following actions:

- Installation of any damaged fireplace or chimney component;
- modification of the fireplace, chimney assembly or any of the component parts thereof; (except for chase flashings as detailed in MAJESTIC Chimney Top installation instructions.)
- Installation other than as instructed by MAJESTIC; or
- Installation and/or use of any component part not manufactured or approved by MAJESTIC in combination or assembly with a MAJESTIC fireplace system, notwithstanding any independent testing laboratory or other third party approval of such component part or accessory.

Any such action may possibly cause a fire hazard.

Consult your local building codes.

This fireplace and chimney system must be vented out-of-doors.

Do not obstruct or modify air inlet/outlet grilles in any manner.

THE MST36 IS NOT APPROVED FOR INSTALLATION IN MOBILE HOMES.

Prior to first firing, read Owner's Manual for operating instructions.

INSTALLATION INSTRUCTIONS

A. Installing the Fireplace

A-1. CHECK HOW ACCESSORIES ARE INSTALLED

Determine where selected accessories fit into this fireplace installation procedure by checking the installation instructions provided with each accessory. See *Accessory Parts*, page 14.

NOTE: The outside air system and electrical connection for the fireplace cannot be installed after the fireplace is completely installed.

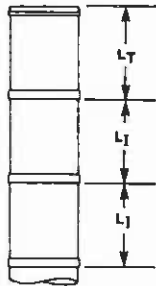
A-2. DETERMINE FIREPLACE LOCATION

The fireplace can be mounted on any of the following surfaces: 1) A flat combustible (burnable) surface
2) A raised wooden platform

Nearby combustible floors and walls must be protected as detailed in Section H.

Refer to *Framing Data* on page 13 to be sure that the location which you have selected for your fireplace provides for clearance and framing restrictions.

At this point you should have decided what components to include in your installation, where the fireplace is to be located, and how the chimney will be routed to the roof (straight-up, offset, or chase*). If this has not been done, stop and consult your Majestic Dealer for assistance with this planning.



CHIMNEY MODEL NO.	DIMENSIONS IN INCHES		
	DOUBLE WALL	TRIPLE WALL	INSTALLED LENGTH (L _I)
CF81	81	11½	10½
CF818	818	17½	16½
CF83	83	35½	34½
CF84	84	47½	46½

Fig. 2. Installed lengths of chimney sections.

Note that the installed length of any chimney section is less than its total length (except for the last section installed), because of its overlap at joints. (See Fig. 2.)

A-3. INSTALL METAL SAFETY STRIPS UNDER FIREPLACE

Thoroughly clean intended fireplace location area. Move fireplace to the location where it is going to be installed. Lift fireplace front slightly to slide metal safety strip(s) under front bottom edge about 1½ inches, allowing the remainder to extend out in front of the fireplace. Overlap the strips at least ½ inch to provide a positive joint. (See Fig. 3.) (Safety strips are packed with fireplace.) Be sure both openings have the metal safety strips installed.

When positioning the fireplace on all mounting surfaces (see Step A-2), the metal safety strips must be installed as described above to provide protection to combustibles (burnable) surfaces in front of the fireplace.

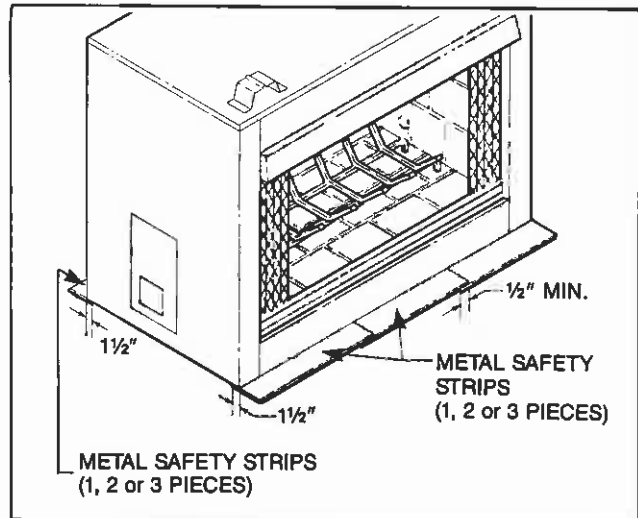


Fig. 3. Install metal strip(s) under both fronts of fireplace.

□ A-4. ANCHOR FIREPLACE IN POSITION

To prevent shifting of the fireplace and to maintain sealing, anchor the fireplace to the floor. Refer to Framing and Finishing Section H. The method uses the standoff at the top front of the fireplace. A nail may be installed through the standoff and into the header to stabilize the top of the fireplace. (Refer to Fig. 4.)

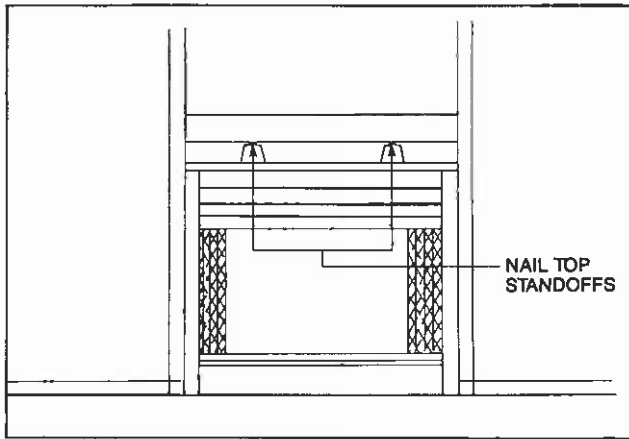


Fig. 4. Fasten fireplace in position using top standoff.

B. Installing the Chimney

CAUTION:

REPORT TO YOUR DEALER ANY PARTS DAMAGED IN SHIPMENT, SPECIFICALLY, CHECK THE END CONNECTIONS OF CHIMNEY SECTIONS AND ELBOWS.

NOTE: The MST36 fireplace may use Majestic Model CF, 2 wall chimney components or Majestic Model S, 3 wall chimney system. The installation procedure described in Section B (Installing the Chimney), applies to both systems. Either system may be used, but 2 wall and 3 wall components may not be mixed. For clarification, refer to the Accessory Section of this manual beginning on page 14. Components from Section 1 are common to all installations. Chimney components may be selected from Section 2 or Section 3, but may not be mixed.

□ B-1. LOCATE CENTERPOINT OF CHIMNEY — STRAIGHT UP INSTALLATION

The MST36 Fireplace is ideally suited as a room divider, and for optimal heat performance should be centrally located. You should consider ceiling and roof rafters that may require cutting, plumbing and wiring that may have to be moved when deciding where to locate the firebox. Then, using a plumb bob positioned directly over the center point of the fireplace flue collar, mark the ceiling to establish the chimney center point. (See Fig. 5.)

□ B-2. LOCATE CENTERPOINT OF CHIMNEY — OFFSET INSTALLATION

In order to clear an obstruction, it may be necessary to offset the chimney from the vertical plane. This is done by using MAJESTIC 15° and 30° CHIMNEY ELBOWS: Models CF815 or 815 (15°) and CF830 & 830 (30°). Each offset requires a pair of elbows. Use Table 1 and Fig. 6 to determine the offset that may be obtained using the various elbows.

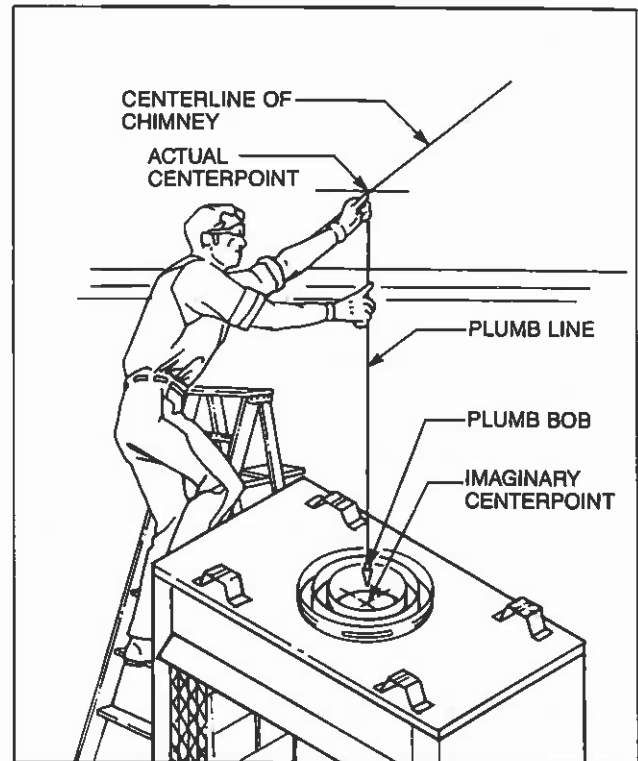


Fig. 5. Locate centerpoint of chimney with plumb line.

Table 1. Offset dimensions

	DIMENSIONS			
	T		S	
	CF815 or 815	CF830 or 830	CF815 or 815	CF830 or 830
No Intermediate Section	0'2 1/2"	0'5"	1'4 3/4"	1'7 1/2"
One 1' Section	0'5 1/4"	0'10 3/4"	2'2 3/4"	2'4 1/2"
One 1 1/2' Section	0'6 3/4"	1'1 1/4"	2'8 3/4"	2'9 3/4"
Two 1' Sections	0'7 3/4"	1'3 5/8"	3'1"	3'1 1/2"
One 1' and One 1 1/2' Section	0'9 1/2"	1'6 1/2"	3'6 3/4"	3'6 3/4"
One 3' Section	0'11 1/2"	1'10 1/4"	4'2"	4'1 1/4"
Two 1' and One 1 1/2' Sections	1'0"	1'11 7/8"	4'5"	4'3 7/8"
One 4' Section	1'2"	2'3 5/8"	5'1/4"	4'10 3/8"
One 3' and One 1 1/2' Section	1'3 3/4"	2'6 1/2"	5'6"	5'3 1/2"
One 4' and One 1' Section	1'5"	2'9 5/8"	5'11 3/4"	5'8 3/4"
One 1', One 3' and One 1 1/2' Section	1'6 1/4"	2'11 7/8"	6'4 1/8"	6'5/8"
Two 3' Sections	1'8 1/8"	3'3 5/8"	6'11 3/8"	6'7 1/8"

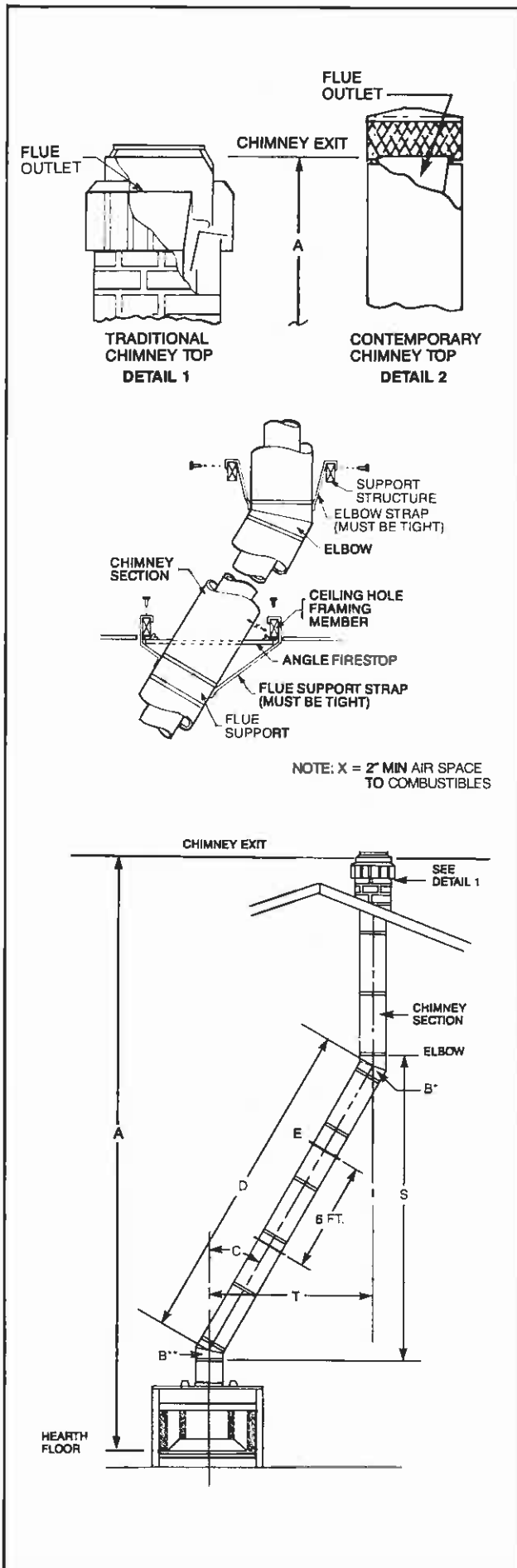


Fig. 6. Typical offset installations.

The following **safety rules** apply to offset installations. (The letters below match the letters in Fig. 6.)

A. Height of the chimney measured from the hearth to the chimney exit at top:

MST36	
Maximum:	45 Feet
Minimum:	
Without Elbows	14 Ft. 10 In.
With 2 Elbows	14 Ft. 10 In.

B. Do not use more than two elbows per chimney.

Attach the straps of the top elbows to a structural framing member.

The first elbow of any pair does not have straps.

C. The chimney cannot be more than 30° from the vertical plane.

D. The maximum length of the angled run of the total chimney system is 20 feet.

E. A chimney support (Model TCS8) is required every 6 feet of angled run of chimney. A chimney support is required at 30 feet of chimney height above the hearth also.

Determine the offset distance of your chimney arrangement from the centerline of the fireplace to the centerline of the chimney where it is to pass through the first ceiling. NOTE: This offset distance may not be your full offset distance (T).

Locate on the ceiling the centerpoint of the chimney, as though a straight up chimney arrangement is to be used, by following the procedure outlined in Step B-1. Then measure your offset dimension from the straight up chimney centerpoint on the ceiling. (Fig. 7.)

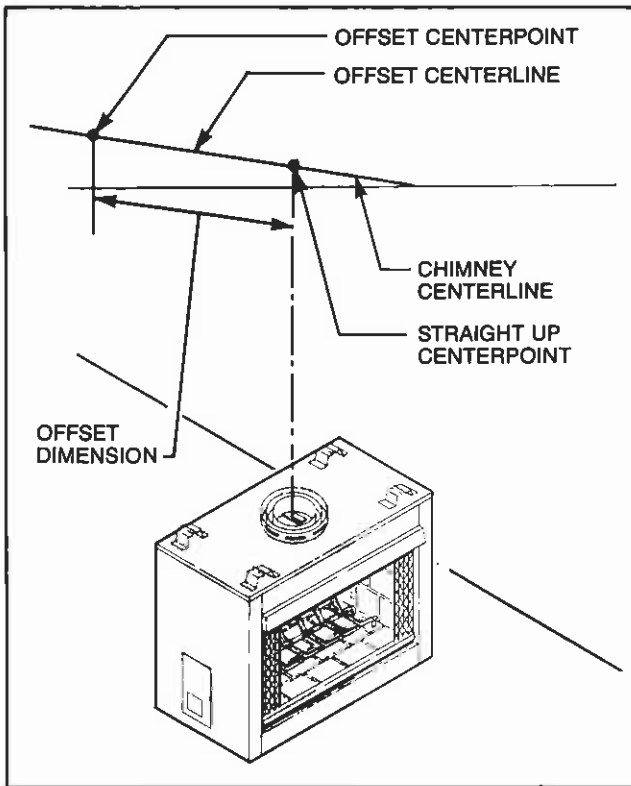


Fig. 7. Measure first ceiling offset distance from straight up centerpoint.

□ B-3. MARK AREA OF CEILING CHIMNEY HOLE

The size of the ceiling chimney hole will vary with the angle at which the chimney passes through the ceiling. Refer to Table 2.

Drive a nail up through the ceiling at the marked chimney centerpoint. Go to the floor above and check where the hole will be cut, relative to the ceiling joists and any obstructions such as wiring or plumbing runs. If necessary, re-position the chimney and/or the fireplace to better accommodate these joists and/or obstructions.

□ B-4. CUT CEILING CHIMNEY HOLE

After covering the opening of the fireplace collar, cut the chimney hole through the ceiling. Recheck the hole to be sure that it measures the hole size selected from Table 2.

□ B-5. FRAME CEILING CHIMNEY HOLE

Frame the ceiling chimney hole as shown in Fig. 8. It is good practice to use framing lumber that is the same size as the ceiling joists. (This is a requirement at the attic level.)

The inside dimension of the frame must be the same as the hole size selected from Table 2 in order to provide the required 2 inch air space between the outside diameter of the chimney and the edges of the framed ceiling hole.

Table 2. Sizes of ceiling chimney hole.

Size of Chimney	Angle of chimney at ceiling		
	Vertical	15°	30°
8" Flue	17½ x 17½	17⅞ x 22½	17⅞ x 29⅝

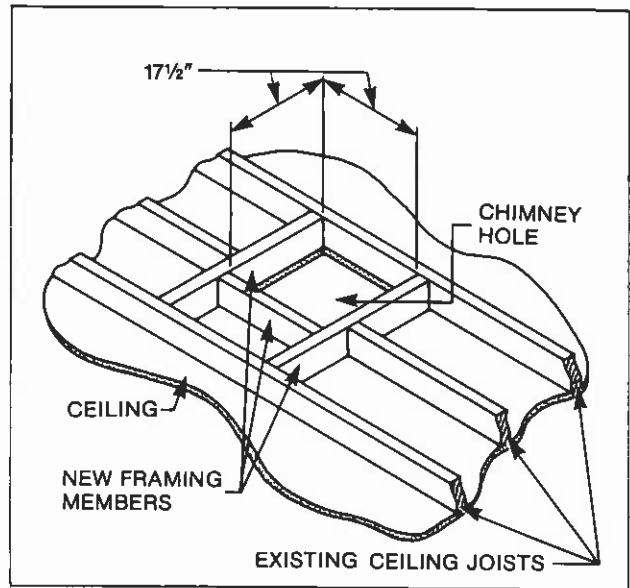


Fig. 8. Typical frame for ceiling chimney hole.

□ B-6. INSTALL FIRESTOP SPACER

Firestop spacers are required for safety. The hole sizes listed in Table 2 for angled firestop spacers provide the minimum required air space to the chimney pipe for ceiling thicknesses up to 8 inches. When the combined thickness of the ceiling material, ceiling joists and flooring material exceeds 8 inches, adjustments must be made in the framing to assure that the minimum air spaces to the chimney are maintained.

If the area above the ceiling is not an attic, position the firestop spacer with the flange on the ceiling side and the dished or angled portion extending up into the hole. If the area above the ceiling is an attic, position the firestop spacer with the flange on the top of the framed hole and the dished or angled portion extending down into the hole. (See Figs. 9 & 10.)

Nail each corner of the firestop spacer to the framing members of the ceiling hole. NOTE: A firestop spacer is not required at the roof.

Table 3. Firestop model numbers.

TYPE FLUE	TYPE OF SPACER	MODEL NO.
8" straight	Dished	FS2A
8" 15° inclined	Angled	FS9A
8" 30° inclined	Angled	FS6A

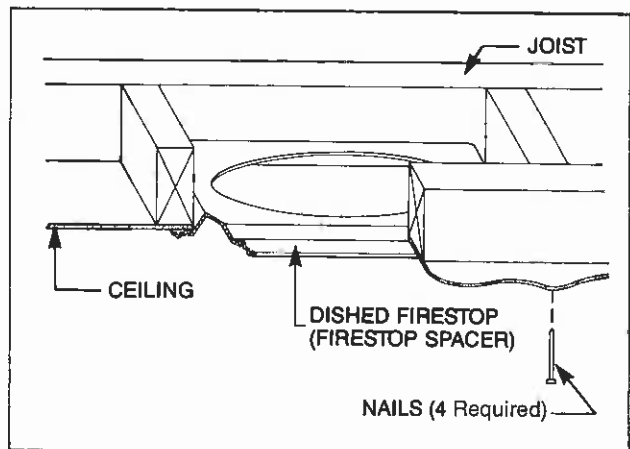


Fig. 9. Position of firestop when area above ceiling is not an attic.

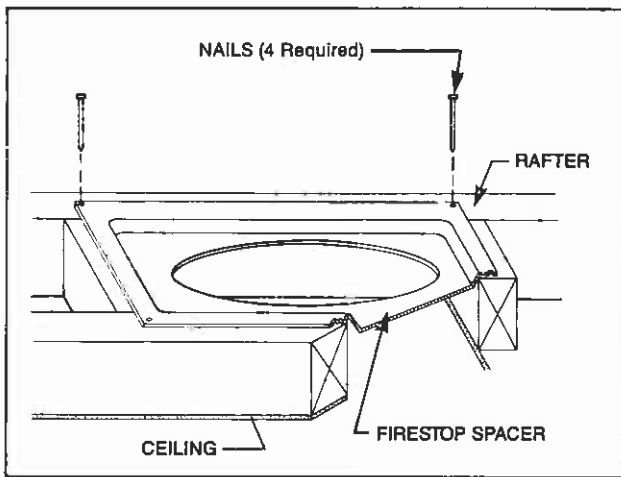


Fig. 10. Position of firestop when area above ceiling is an attic.

□ B-7. ATTACH CHIMNEY SECTIONS

Attach the first straight chimney section to the fireplace collar, or elbow if offset installation. (Refer to Step B-8.) Mount the flue pipe first, using the built-in snap-lock fasteners. (See Fig. 11.) Then mount the additional pipe(s). Position each pipe section so the direction arrow is pointing UP.

Make sure each pipe is firmly snapped and locked together as it is mounted.

Continue installing chimney sections until ONE SECTION (all pipes) extends up through the ceiling hole. To extend through the ceiling, it may be necessary to assemble all pipes, push them up through the ceiling hole and then slide them down one at a time to connect them.

□ B-8. ATTACH FIRST ELBOW — OFFSET INSTALLATION

If the first elbow is not to be attached to the fireplace, install chimney sections as required.

Attach first elbow where required. Note that only the outer pipe snap-locks.

Attach the straps of all upper elbows to a structural framing member. (See Fig. 6.)

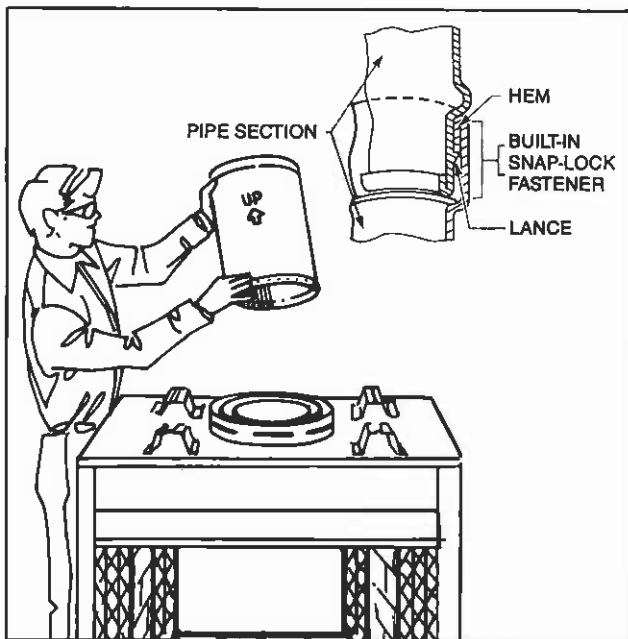


Fig. 11. Use built-in snap-lock fasteners to attach chimney pipe sections.

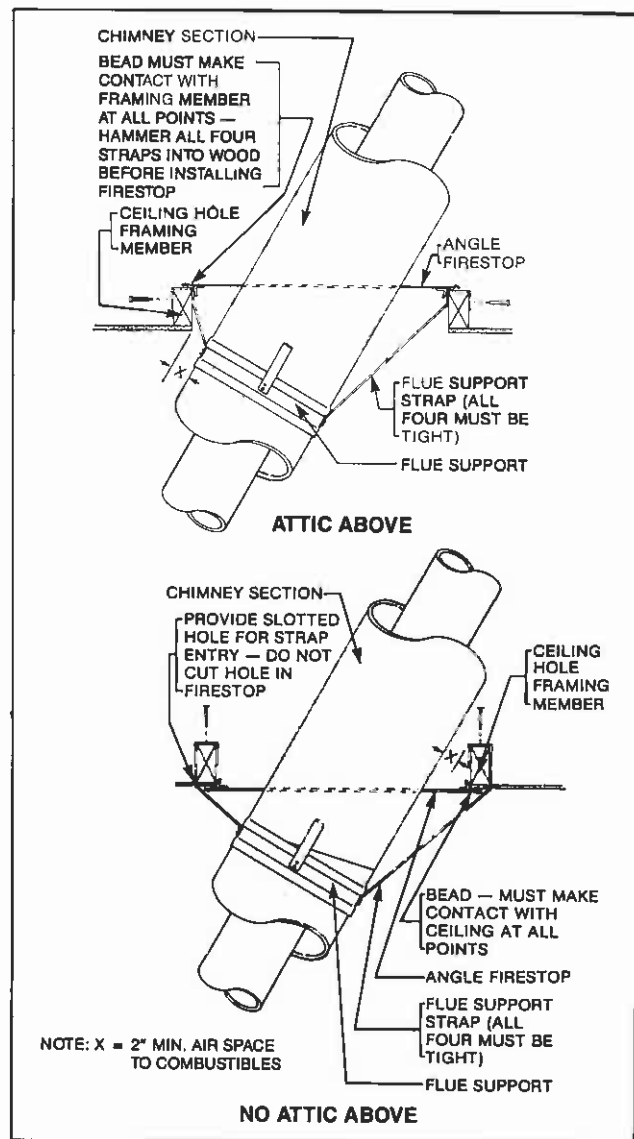


Fig. 12. Mount flue supports at ceiling hole frames or other structural framing.

□ B-9. DETERMINE HOW MANY CHIMNEY SUPPORTS ARE NEEDED

The chimney system is supported by the fireplace for chimney heights less than 30 feet of vertical height above the hearth. Chimney supports are required if the chimney height exceeds 30 feet. Locate chimney supports at ceiling holes or other structural framing at 30 foot heights. Spacing between chimney supports must not exceed 30 feet. Use MAJESTIC Chimney Support Model TCS8. (NOTE: The TCS8 can not be mounted directly to the fireplace.) Support provided by elbow straps fulfills the support requirement only if they are spaced as required above.

Angled chimney runs require support every 6 feet in addition to the elbow straps. MAJESTIC Chimney Supports are used for this function.

Refer to Step B-2 to determine how many chimney supports are needed and where they will be placed in the chimney run.

NOTE: A chimney support is 3 inches long when installed. This dimension must be considered when determining how many straight chimney sections are needed to provide the desired offset.

B-10. INSTALL CHIMNEY SUPPORTS

Chimney supports are attached to chimney sections the same way elbows are attached. Refer to Step B-8. Nail the chimney support straps to adjacent structural framing, as shown in Fig. 12. Bend the straps as necessary and make sure they are tight so they will be able to support the weight of the chimney.

B-11. LOCATE CENTERPOINT OF NEXT CEILING HOLE

NOTE: If there is no other ceiling, you have completed Section B. Turn now to Section C, *Penetrating the Roof*.

In a manner similar to that used in Steps B-1 and B-2, mark the centerpoint of the next ceiling hole.

B-12. PREPARE SECOND CEILING HOLE

Repeat Steps B-3. Mark area of ceiling chimney hole; B-4, Cut ceiling chimney hole; B-5, Frame ceiling chimney hole; and B-6, Install firestop spacer.

B-13. CONTINUE INSTALLING CHIMNEY SECTIONS

Continue installing chimney sections and chimney supports (as required), until the chimney passes through the second ceiling hole.

NOTE: Repeat Steps B-11 through B-13 as many times as necessary to pass through all the ceilings in the building and bring the chimney just short of the roof.

C. Penetrating the Roof

The chimney system must be vented out-of-doors and must be terminated in an approved MAJESTIC top termination.

NOTE: If you are using a chase, go to Section D.

C-1. LOCATE CHIMNEY CENTERPOINT AT ROOF

Use the same procedure detailed in Steps B-1 and B-2. Drive a nail up through the roof at the marked centerpoint. This will mark the centerpoint on the outside of the roof.

C-2. CUT AND FRAME ROOF HOLE

The size of the roof hole varies with the type of chimney top that will be installed. Refer to the installation instructions provided with your MAJESTIC chimney top termination to find the correct size of roof hole for this installation. There must be at least 2 inch air space between the outermost portion of the chimney sections and any adjacent combustible (burnable) surfaces.

WARNING: DO NOT PACK REQUIRED AIR SPACES WITH INSULATION OR OTHER MATERIALS.

(Combustible surfaces include such things as ceiling members, joists, flooring, combustible insulation and roof structures.)

Mark the outline of the roof hole around the centerpoint nail. **Note:** The hole dimensions given in the chimney top installation instructions are horizontal dimensions; therefore, the hole size must be marked on the roof accordingly.

Cover the opening of the installed chimney.

Cut and frame the hole. It is good practice to use framing lumber that is the same size as the rafters. Install frame securely. Chimney top and flashing anchored to frame must withstand heavy winds.

C-3. DETERMINE MINIMUM CHIMNEY HEIGHT ABOVE ROOF

Major U.S. building codes specify minimum chimney height above the roof top. These specifications are summarized in the *Ten Foot Rule*. (See Fig. 13.) The key points of this rule are:

1. If the horizontal distance from the center of the chimney to the peak of the roof is 10 feet or less, the top of the chimney must be at least 2 feet above the peak of the roof, but never less than 3 feet in height above the highest point where it passes through the roof.
2. If a horizontal distance from the center of the chimney to the peak of the roof is more than 10 feet, a chimney height reference point is established that is on the surface of the roof a distance of 10 feet from the center of the chimney in a horizontal plane. (See Fig. 13.) The top of the chimney must be at least 2 feet above this reference point, but never less than 3 feet in height above the highest point where it passes through the roof.

These chimney heights are necessary in the interest of safety and do not assure a smoke-free operation.

C-4. INSTALL REMAINDER OF CHIMNEY SECTIONS

Continue installing chimney sections up through the roof hole. Check your chimney top installation instructions for data on how high above the roof top the CHIMNEY SECTIONS (all pipes) should go.

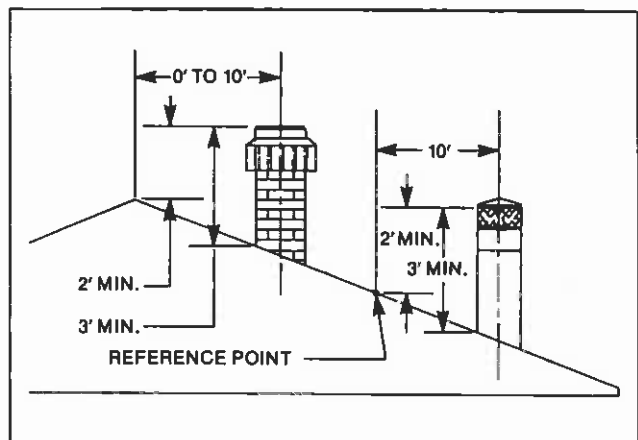


Fig. 13. Ten foot rule for chimney height.

C-5. INSTALL CHIMNEY TOP HOUSING OR TERMINATION

Follow the installation instructions provided with the MAJESTIC chimney top you have selected.

D. Installing Chimney in a Chase

A chase is a vertical box-like structure built to enclose the fireplace and/or its chimney.

CAUTION: Treatment of firestop spacers and construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Therefore, your local building codes must be checked to determine the requirements for these steps.

NOTE: Other material may be required in addition to MAJESTIC Firestop Spacers.

Refer to *Framing and Finishing* on page 10. Upon completion of building your chase frame, install the chimney system. Follow the instructions for *Installing the Chimney* starting on page 4. Then proceed to Step D-1.

D-1. INSTALL FLASHING AND CHIMNEY TOP

Follow the installation instructions provided with the MAJESTIC chimney top you have selected.

E. Install the Electrical Connection

E-1. ELECTRICAL CONNECTION

Fan Junction Box is directly connected to the fan motor and assembly. See instructions shipped with the FK-MST fan kit.

CAUTION: ALL WIRING SHOULD BE DONE BY A QUALIFIED ELECTRICIAN AND SHALL BE IN COMPLIANCE WITH ALL LOCAL, CITY AND STATE BUILDING CODES.

E-2. ELECTRICAL POWER

The fans require 120 VAC, 60 Hz power available at the left side of the fireplace. The power should be available to the fireplace through a single Listed 15 AMP, 125 V wall switch. (Switch not provided.)

E-3. INSTALLATION OF FIELD WIRING

A junction box is provided with the fan.

Next, route the field supplied wiring from the switch box to the junction box in accordance with local electrical codes. Be sure wiring does not contact outer fireplace surfaces and support wiring in a manner that will assure clearance from the fireplace components.

Insert 120 V, 60 Hz power lines through either knockout in the back or side of the junction box. The ground wire from the power should be attached to the ground stud in the top of the junction box with one of the supplied retaining nuts.

Using wire nuts, connect the ends of the white and black power leads to the fireplace leads (See Wiring Diagram, supplied with fan kit), making sure the wire nuts are tight to the leads. All black leads should be connected together and all white leads should be connected together.

E-4. SERVICING OF FANS

It is recommended to service fans once a year. Servicing involves cleaning of the blower mesh vent and oiling the bearing. Removal of the fan should not be necessary. Vacuuming dust and lint from blower housing will increase fan efficiency. We recommend using a light weight oil once a year on both front and rear bearings. Installation instructions accompanying fan kit will show location of oil ports.

If the fan needs to be removed, turn off power to fan, and disconnect the wires. Remove top screw holding the fan up. With the screw removed, the fan can be lifted and removed from fireplace side.

E-5. ADDING FAN ON INSTALLED UNITS

Installation on some units may not be advisable. You will have to cut an access hole of 12" x 12" located near the unit in order to allow access to the fan for better servicing. The hole must be cut on the opposite side of the outside air control (left side). The bottom of the 12" x 12" hole must start 2-inches up from the bottom of the fireplace. Refer to fan installation instructions for proper location.

F. Installing Optional Outside Air Kit and Fan Kit

Later addition of outside air and fans (without preinstalled Wiring Kit) will require significant reconstruction. These accessories should be installed at the time of original installation of the fireplace.

F-1. INSTALL OUTSIDE AIR KIT

Install outside air kit if desired or required by local code. Refer to AK-MST installation instructions supplied with the appropriate kit.

F-2. INSTALL FAN KIT

See individual instruction sheets on the Fan Kit and Junction Box.

G. Insulating Fireplace Enclosure For Cold Climates

In cold climates, insulation of the enclosure around the fireplace is critical to avoid future problems with cold air. The following steps are suggested to eliminate potential cold air problems.

G-1. INSULATE BASE OF FIREPLACE

Insulate the base of the fireplace with a non-combustible insulation rated for a minimum of 300°F. This step is particularly important for outside wall installations over concrete slab floor construction. If a platform is used to raise the fireplace, the insulation should be placed on top of the platform before the fireplace is set (See Fig. 14.)

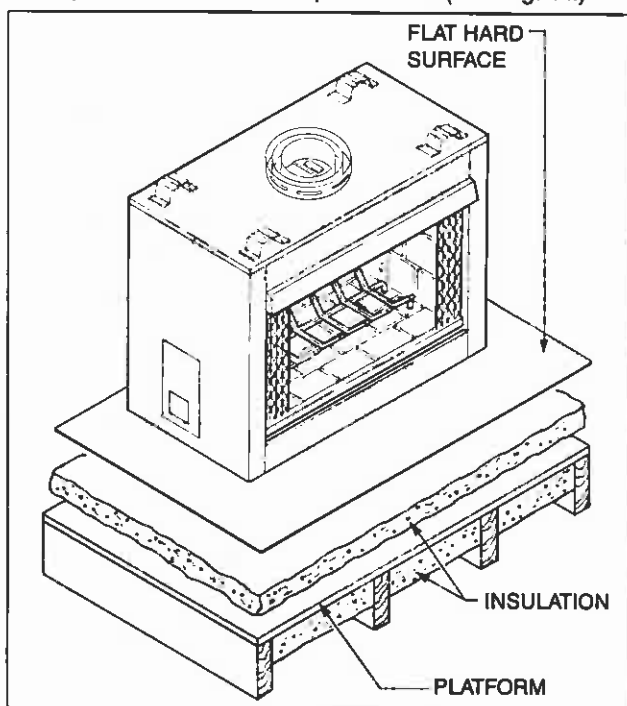


Fig. 14. Insulation between platform and fireplace.

G-2. INSPECT JOINTS

Inspect joints of the fireplace as well as the points of sealing between the fireplace and the finishing materials. Any cracks should be sealed with non-combustible caulking or insulation. See Fig. 15 for details of sealing spaces between the fireplace and finishing materials.

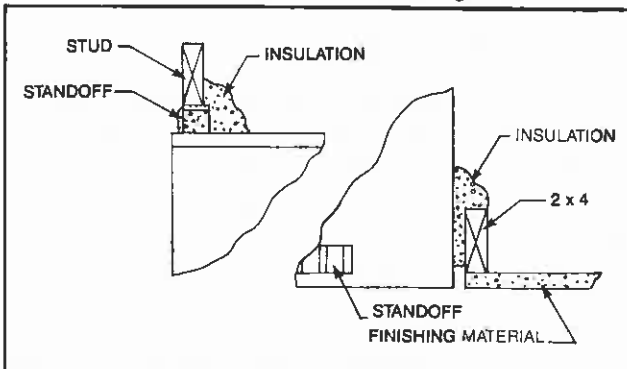


Fig. 15. Sealing spaces between fireplace and finishing materials.

□ G-3. INSULATION OF ENCLOSURE

When a fireplace is installed in a chase, the enclosure should be insulated like any other wall of the home. Insulation should be installed on the inside wall. In a chase, it is also a good idea to install a firestop at the first ceiling level above the fireplace and close the chase with sheeting material. Insulation may then be installed above the sheeting material to assure the space around the fireplace is totally protected.

CAUTION: WHILE INSTALLING A FIREPLACE IN AN INSULATED ENCLOSURE, BE SURE ALL MARKED AIR SPACES ARE MAINTAINED.

H. Framing and Finishing

□ H-1. DETERMINE WHEN TO INSTALL FRAMING

Fireplace framing can be built before or after the fireplace is set in place. Fig. 16 shows the minimum framing dimensions.

□ H-2. BUILD FRAMING

The fireplace framing should be constructed of 2 x 4 lumber or heavier. Refer to *Framing Data* on page 13 for basic fireplace dimension that will affect the framing dimensions.

The header may rest on the fireplace standoffs.

Framing should be positioned to accommodate wall covering and fireplace facing material. (See Figs. 22 and 23 for typical arrangements.) Standoff nailing tabs provided on the top of the fireplace can be used to position the fireplace for a 5/8" finished wall covering, as well as anchor the fireplace. Nail through the tabs (4) into the horizontal framing members. (See Figs. 4 and 16.)

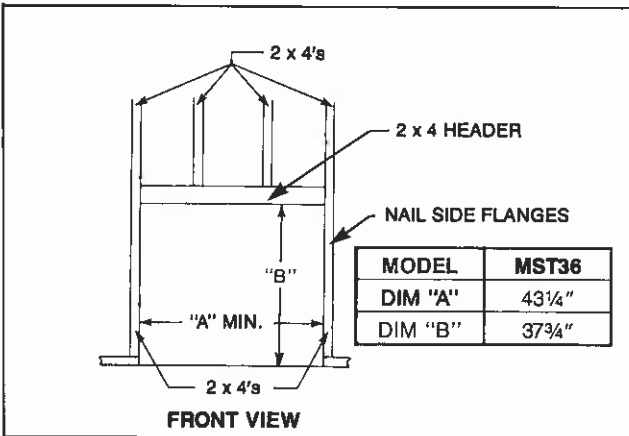


Fig. 16. Minimum fireplace enclosure dimensions.

CAUTION: All joints between the finished wall and the fireplace surround (top and sides) must be sealed with non-combustible material. Only non-combustible material may be applied as facing to the fireplace surround.

□ H-3. FINISH WALL

Finish the wall with material of your choice. Do not install a combustible mantel or other combustible projection less than 18" above the outlet grille. If a combustible material is used, consult your local building codes for the minimum clearance from the top of the fireplace opening to the bottom of the mantel.

All joints (top, bottom and sides), where the wall or decorative facing material meets the fireplace surround must be completely sealed with a non-combustible material. (See Figs. 17, 18 and 19.)

When finishing the fireplace, never obstruct or modify the air inlet/outlet grilles in any manner.

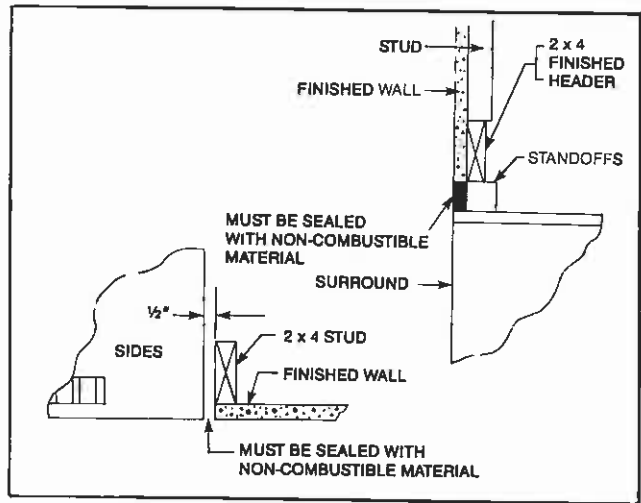


Fig. 17. Fireplace surround flush with finished wall.

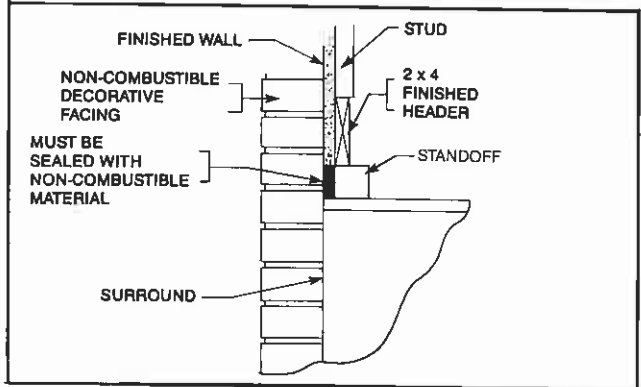


Fig. 18. Fireplace surround flush with finished wall.

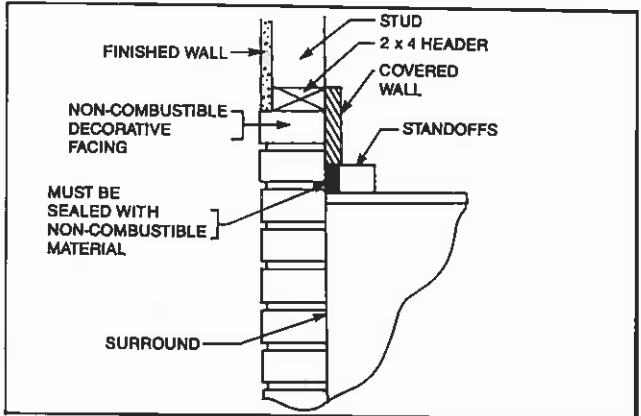


Fig. 19. Facing on fireplace surround flush with finished wall.

□ H-4. ADD PROTECTION TO SIDE WALLS

Adjacent combustible side walls that are within 12" of the MST fireplace openings must be protected with MAJESTIC Wall Shield Model SP40 or Majestic Specification 74-10-102A or a built up wall shield described in Fig. 20 (See Figs. 20 and 21).

The built-up wall shield design described in Fig. 20 is an alternate method for adding protection to side walls and can be used in place of the SP40 with the same wall clearances specified for the SP40.

EXAMPLES OF INSULATIONS:

1. Johns Manville — CERAFORM 126, K=.27, 1/2" required.
2. U.S. Gypsum Corp. — MICORE CV230, K = .54, 1" required.

Contact the Majestic Company, Huntington, Indiana 46750, Attention: Director of Customer Service to obtain Specification 74-10-102A.

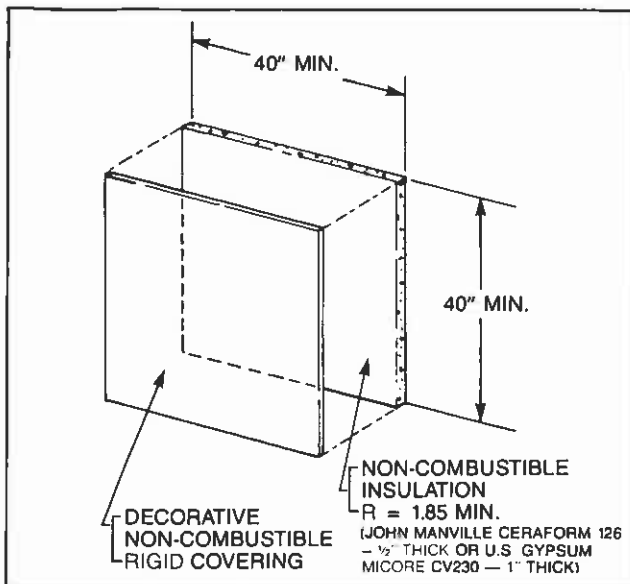


Fig. 20. Non-combustible wall shield dimensions.

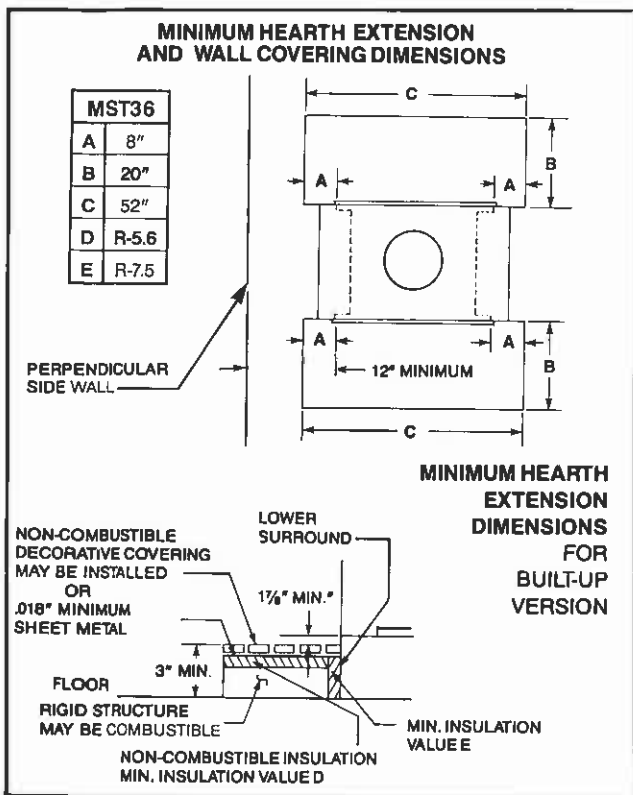


Fig. 21. Protection of adjacent combustible side walls and hearth extension dimensions.

H-5. INSTALL HEARTH EXTENSION

A hearth extension is required to protect combustible floor construction in front of the fireplace, and it must be a MAJESTIC Hearth Extension Model EH36A, or a design built in accordance with Figs. 21, 22 and 23 or Majestic Specification 74-10-102A.

The built-up hearth extension described in Fig. 21 must be a rigid structure at least 3 inches in overall height (above combustible floor) depth and width as indicated, and centered to the fireplace opening.

The top portion of the extended hearth and rear surface in contact with the lower fireplace surround must be made of non-combustible, rigid insulation with a minimum R value as indicated in Fig. 21. The top insulation must be covered with a piece of .018" minimum sheet metal or other non-combustible decorative covering.

EXAMPLES OF INSULATION:

1. Johns Manville — CERA FORM 126, 1½" Top and 2" Rear required.
2. U.S. Gypsum Corp. — MICORE CV230, 2½" Top and 3¼" Rear required.

Secure the hearth extension to the floor to prevent shifting, using trim molding or other similar means at the three outer edges. Seal the crack between the fireplace hearth and the hearth extension with a non-combustible material. (See Figs. 22 and 23.)

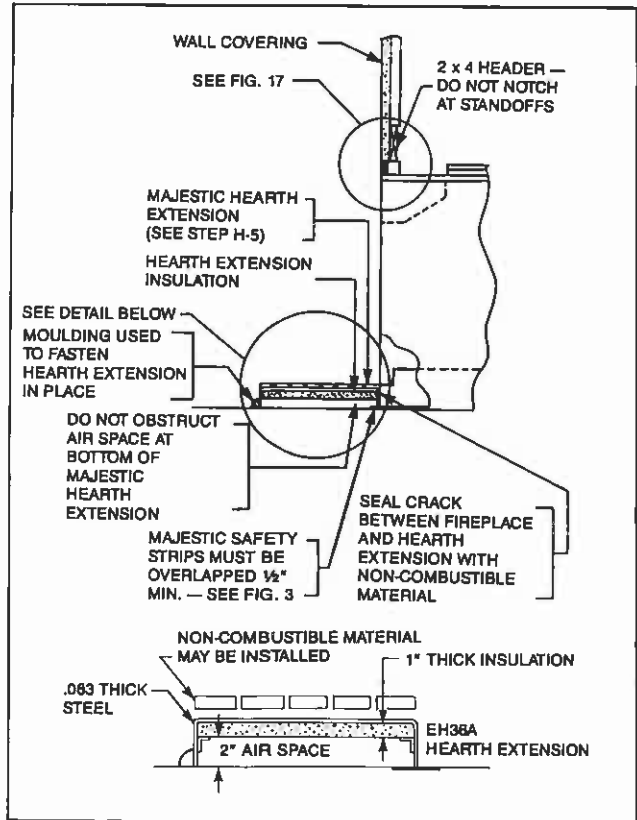


Fig. 22. Sealing detail.

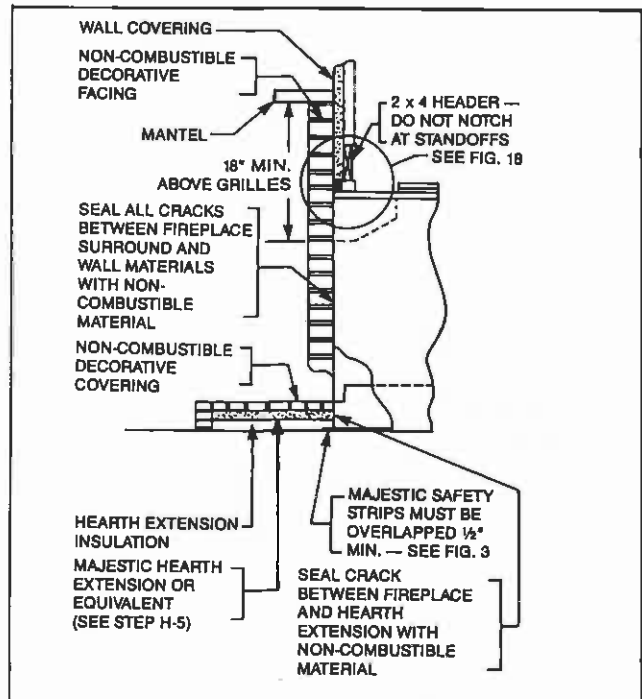


Fig. 23. Sealing detail.

WARNING:
HEARTH EXTENSION MUST BE INSTALLED IN ACCORDANCE WITH FIGS. 21, 22 and 23.

□ H-6. INSTALL DECORATIVE GAS APPLIANCE
 The Majestic MST36 fireplace is designed to accept a 1/2 inch gas line for an approved gas appliance. Have the appliance installed by a qualified plumber in accordance with all building codes.

Locate the gas line hole in the right outer casing of the fireplace and remove the insulation from the gas line tube.

Next, insert a 1/2 inch gas pipe through the gas line tube from the outside of the fireplace and forcibly punch out the ceramic or metal knockout on inside of the fireplace. Now, install the 1/2 inch gas pipe through the opening. After the gas pipe installation is complete, use the insulation that was removed from the gas line tube to repack the space around the pipe. This should be inserted from the outside of the fireplace and packed tightly to totally seal between the pipe and the tube.

NOTE: The gas pipe should not come in contact with any wood structures until it has reached a point at least one (1) inch away from the fireplace side. (See Fig. 24 for installation clarification.)

The gas pipe installation is intended for connection to a decorative gas appliance only, in accordance with the National Fuel Gas Code, ANSI Z223.1-1980.

CAUTION: WHEN USING DECORATIVE GAS APPLIANCE, THE FLUE DAMPER MUST BE SET IN THE FULLY OPEN POSITION.

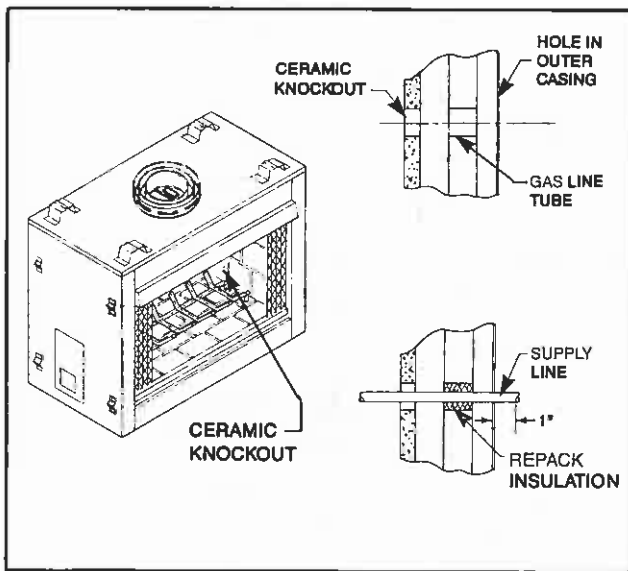


Fig 24. Install iron pipe gas line through provided hole in right side of fireplace.

Reference Data

AIR SPACE DATA

The MAJESTIC MST36 fireplace can be located directly on a flat hard-surfaced combustible floor, against a combustible wall or on a wooden platform without air space from combustible construction. Some protection, however, is required for adjacent surfaces as detailed in Fig. 25.

Framing members can be placed within 1/2" of the sides of the fireplace.

The minimum air space-to-combustibles requirements for chimney sections and dome are detailed in Fig. 25.

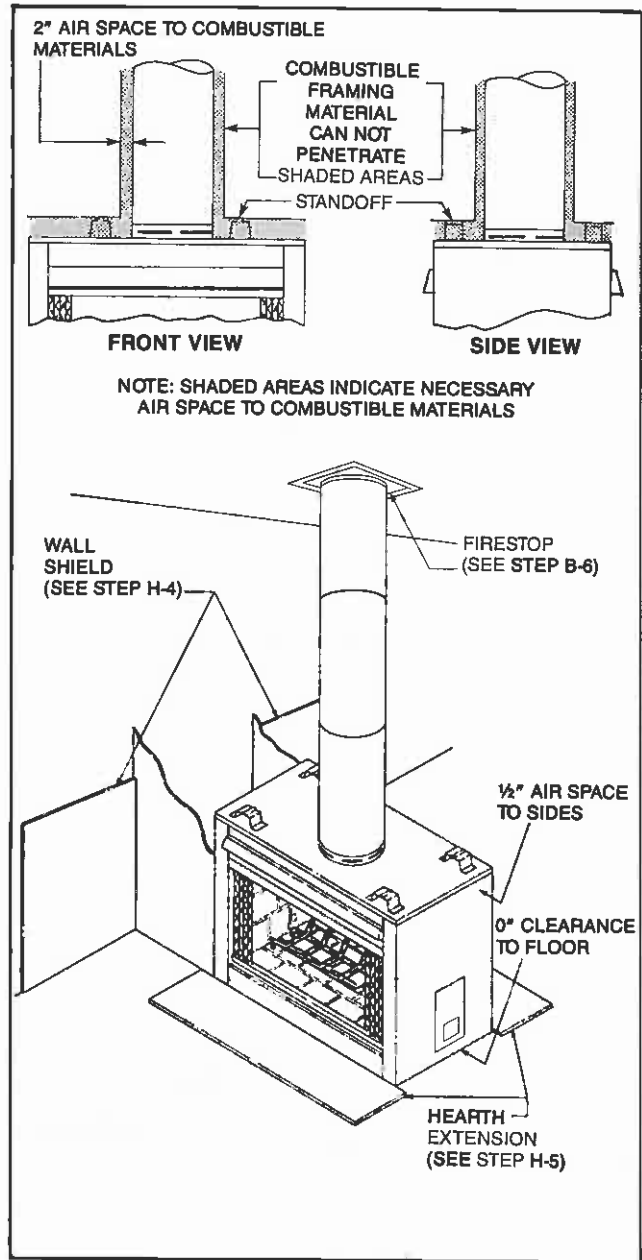


Fig. 25. Minimum air spaces to combustible materials.

FRAMING DATA

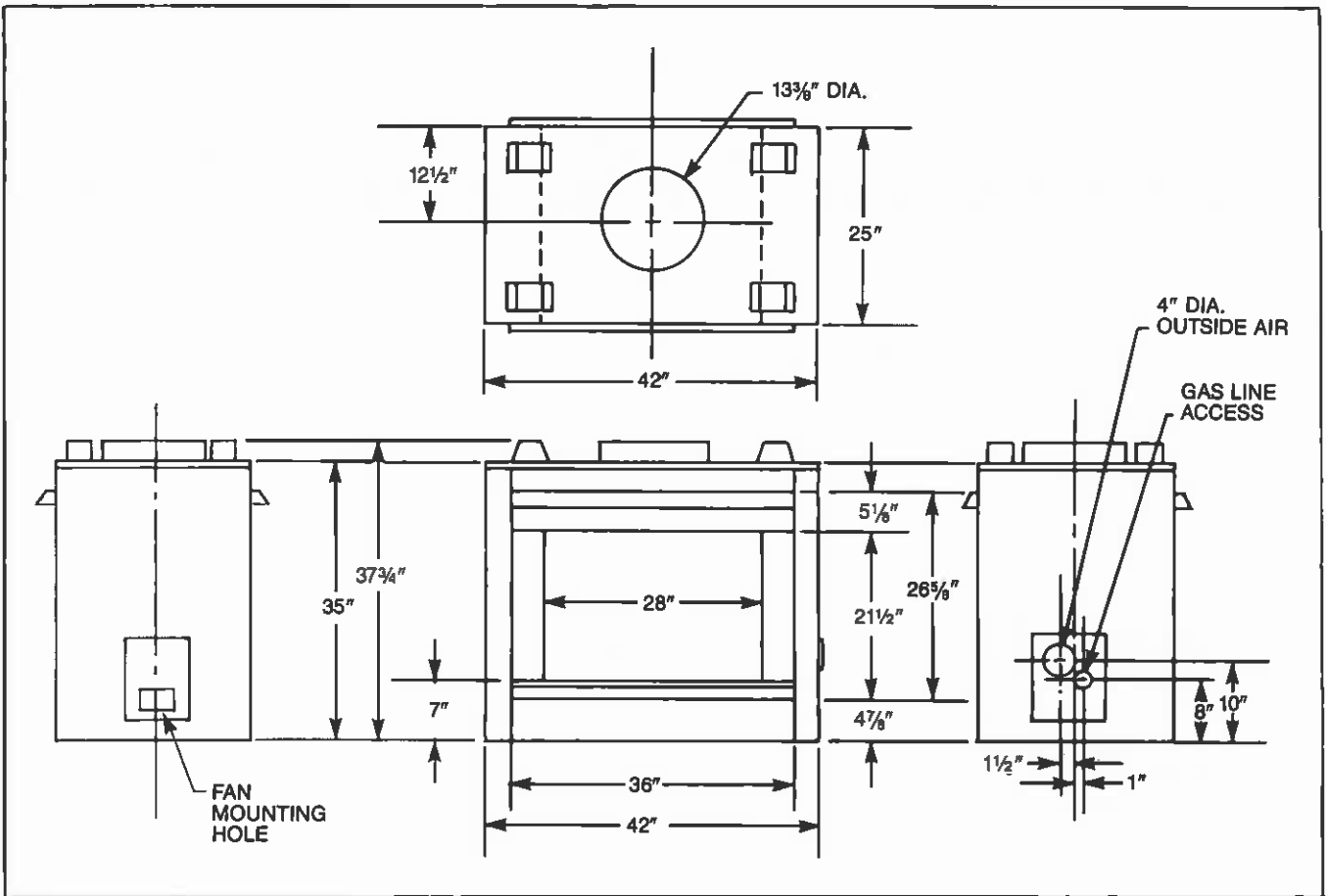


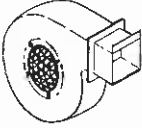
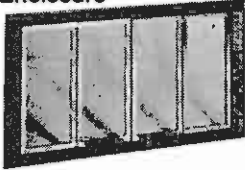
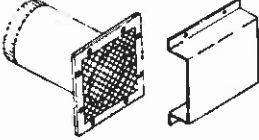



Fig. 26. Dimensions of MST36.

Accessory Parts

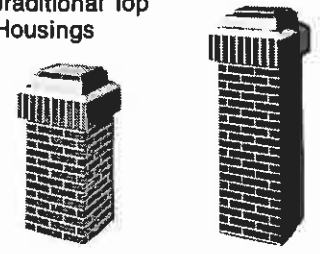
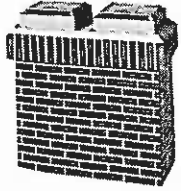


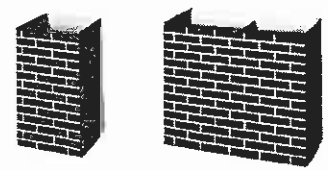

The following accessory parts can be obtained from your Majestic Dealer. The fan kit, top terminations, outside air kit, glass doors, and hearth patching kits are supplied with installation instructions packaged with the unit. Should you need additional information beyond what your dealer can furnish, contact the Majestic Company, Huntington, Indiana 46750, Attention: Director of Customer Service.

CAUTION: This fireplace and chimney assembly is a highly engineered system and, as such, must be operated only with Majestic approved components that have been designed as parts of the system. If you use an unapproved component or make any modifications, you may possibly cause a fire hazard and will void the Majestic warranty. In addition, such action may void the coverage provided by the owner's home insurance.

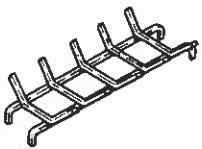


SECTION 1

Accessory	Description	Model No.
Fan Kit 	Designed for use with the fireplace to provide forced air flow. For use with MST36 fireplace.	FK-MST
Glass Enclosure Kit 	Designed to enclose the MST36 fireplace opening with glass doors allowing the fire to remain visible. Two (2) doors supplied in kit.	GD-MST
Outside Air Kit 	Designed to provide outside air for fuel combustion in the firebox. This accessory must be installed before the fireplace is installed.	AK-MST
Wall Shield 	Used to protect walls adjacent to the fireplace.	SP40
Hearth Extension 	Located on the floor in front of the fireplace openings to protect the floor from heat, hot embers, ashes, etc.	EH36A
Contemporary Flashing 	Required for contemporary round top termination on the roof to prevent rain entry.	8-6-12 (8" flue: 0 to 6/12 pitch) 8-12-12 (8" flue: 6/12 to 12/12 pitch)
Hearth Patching Kit	Used to patch cracks in hearth.	HPC1



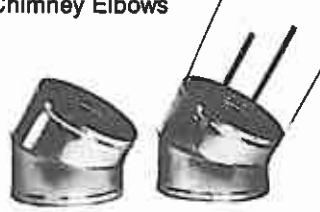



SECTION 1 (Continued)

Accessory	Description	Model No.
<p>Traditional Top Housings</p>  <p>Single Flue</p>  <p>Double Flue</p>	<p>Gives traditional chimney top look using simulated brick in red, tan or white color. Brick pattern is embossed into galvanized steel unit. Roof flashing is included. Appropriate adapter is required. See Sections 2 and 3.</p>	<p>T20A (single flue) TL20A (extra tall single flue) T44A (double flue)</p>
<p>Chimney Support</p> 	<p>Used to support the chimney at each 30 feet of vertical height above the hearth and at every 6 feet of inclined chimney run. Each support adds 3 inches to chimney length.</p>	<p>TCS8 (8" flue)</p>
<p>Chase Top Flashing</p> 	<p>Used with chase terminations to prevent rain entry.</p>	<p>FL88 (8" flue)</p>
<p>Housing Extensions</p> 	<p>Required to extend Traditional Top Housings on steeply pitched roofs.</p>	<p>202036 (single flue) 204436 (double flue)</p>
<p>Contemporary Chase Top Termination</p> 	<p>Used to terminate chimney at the top of a chase. Flashing is not included. Appropriate adapter is required. See Section 2 and 3.</p>	<p>TT200B</p>







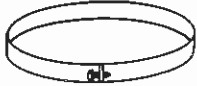
SECTION 1 (Continued)

Accessory	Description	Model No.
<p>Basket Grate</p> 	<p>Used in the firebox to hold firewood.</p>	<p align="center">Standard Equipment — Replacement RBGST36</p>
<p>Firestop</p> 	<p>Required at each floor level and attic on multi-story installation.</p>	<p>FS2A (8" straight flue) FS6A (8" 30° inclined flue) FS9A (8" 15° inclined flue)</p>
<p>Radiant Shield</p> 	<p>Used as an alternate to the FS2A firestop to reduce the clearance from the chimney to combustible framing.</p>	<p align="center">RS-8A</p>

**SECTION 2
(2 Wall Chimney Components)**

Accessory	Description	Model No.
<p>Contemporary Round Top Termination</p> 	<p>Used to terminate chimney on the roof. Flashing not included.</p>	<p>CFC8-42</p>
<p>Extended Round Top Chase Termination</p> 	<p>For use with MAJESTIC type "CF" Chimney Systems. Used to terminate chimney at the top of a chase. Adapter kit included. Flashing not included.</p>	<p>CFC8L-42</p>
<p>Chimney Elbows</p> 	<p>Used to develop offset chimney systems. Both 15° and 30° elbows are available. (8 inch elbows packed 2 per carton — upper and lower elbow set)</p>	<p>CF815/2 (8" 15° flue) CF830/2 (8" 30° flue)</p>
<p>Adapter Kit</p> 	<p>Required to unite chimney with Traditional Top Housing.</p>	<p>CF8CA (8" flue)</p>
<p>Adapter Kit</p> 	<p>Required to unite chimney with Contemporary Chase Top.</p>	<p>CFTT8CB (8" flue)</p>
<p>Chimney Sections</p> 	<p>Used to build chimney systems.</p>	<p>8" flue CF81 (1' long) CF818 (1½' long) CF83 (3' long) CF84 (4' long)</p>

**SECTION 3
(3 Wall Chimney Components)**

Accessory	Description	Model No.
<p>Contemporary Round Top Termination</p> 	<p>Used to terminate chimney on the roof. Flashing not included.</p>	<p>RT8C (8" flue)</p>
<p>Chimney Elbows</p> 	<p>Used to develop offset chimney systems. Both 15° and 30° elbows are available. (Elbows packed 2 per carton — upper and lower elbow set)</p>	<p>815/2 (8" 15° flue) 830/2 (8" 30° flue)</p>
<p>Extended Round Top Chase Termination</p> 	<p>Used to terminate chimney at the top of a chase. Adapter kit included. Flashing not included.</p>	<p>RT8CL (8" flue)</p>
<p>Adapter Kit</p> 	<p>Required to unite triple-wall chimney with Traditional Top Housing.</p>	<p>8CA (8" flue)</p>
<p>Adapter Kit</p> 	<p>Required to unite triple-wall chimney with Contemporary Chase Top.</p>	<p>TT8CB (8" flue)</p>
<p>Chimney Sections</p> 	<p>Used to build chimney systems.</p>	<p>8" flue 81 (1' long) 818 (1½' long) 83 (3' long) 84 (4' long)</p>
<p>Chimney Band</p> 	<p>Used ONLY with 3 wall chimney reduce air infiltration.</p>	<p>TWC8A</p>



THE MAJESTIC COMPANY, HUNTINGTON, INDIANA 46750

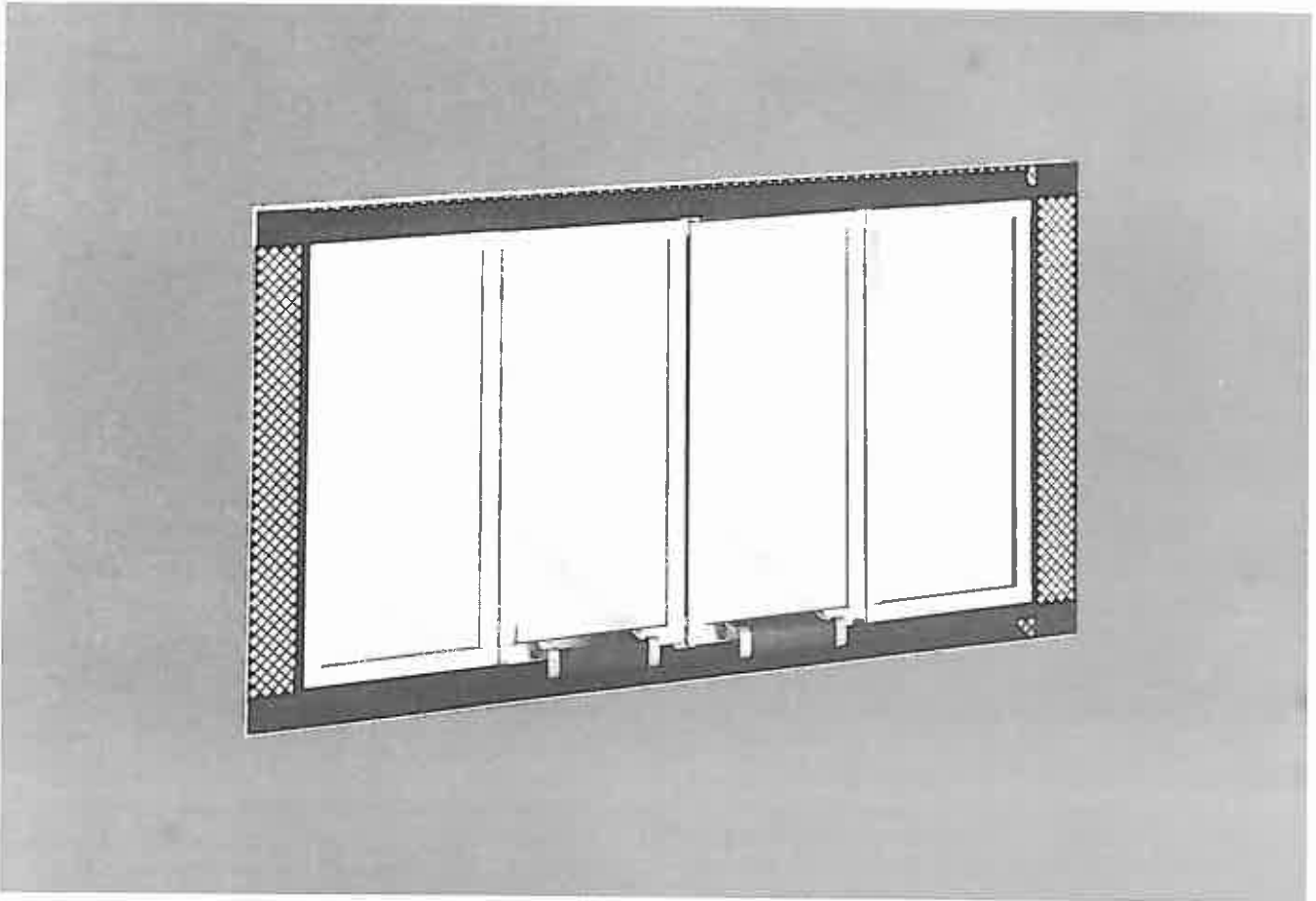
MAJESTIC Fireplaces are listed, certified, and/or accepted by leading national and local building codes and authorities including:



Underwriters' Laboratories, Inc.

INSTALLATION AND OPERATION INSTRUCTIONS

for the MAJESTIC[®]
GLASS ENCLOSURE KIT
MODEL: GD-MST



Important: Read instructions carefully before starting installation. Failure to follow these installation instructions as detailed may result in a possible fire hazard and will void the Majestic warranty.

MAJESTIC[®]

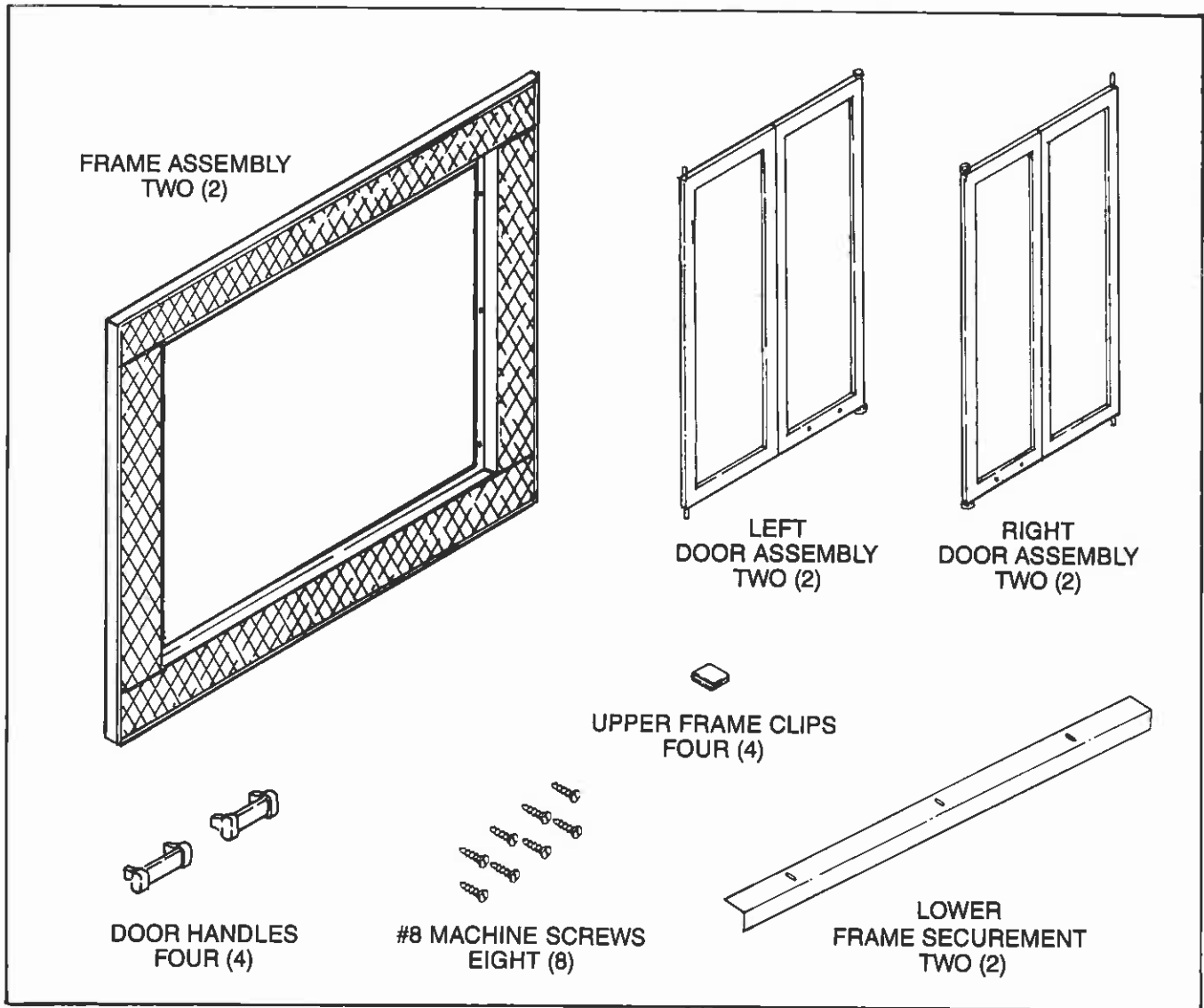


Fig. 1. Contents of shipping carton.

INSTALLATION PRECAUTIONS

The MAJESTIC Glass Enclosure Kit GD-MST is tested and safe when installed in accordance with this Installation Manual. It is your responsibility to read all instructions before starting installation and to follow these instructions carefully during installation to assure maximum benefit from and safe operation of the glass enclosure.

This glass enclosure is carefully engineered and must be installed only on the MST36 MAJESTIC fireplace. If you modify it or any of its components, you may possibly cause a fire hazard and will void the MAJESTIC warranty. In addition, such action may void the coverage provided by the owner's house insurance.

The glass enclosure must be installed **WITHIN** the fireplace opening as detailed in this manual. It must **NOT** be separated from the firebox with fireplace facing or finishing materials.

It is good practice to protect your hands and eyes during installation by wearing work gloves and safety glasses.

CHECK CONTENTS OF SHIPPING CARTON

Compare contents of shipping carton in Fig. 1 with actual parts received. If any parts are missing, or damaged, contact your Majestic Dealer before starting installation. Do not install a damaged glass enclosure kit.

CLEAN NEW MASONRY

Mortar and masonry cleaning agents will corrode brass unless they are neutralized. Therefore, if your fireplace surround has been faced with any type of masonry, wash it with ammonia water or a baking soda solution so the brass trim pieces of your GD-MST will not be corroded.

REMOVE PLASTIC COATING FROM BRASS TO PREVENT DISCOLORATION

If your door is protected with a plastic coating, it must be removed from the brass trim.

INSTALLATION INSTRUCTIONS

1. Remove the three (3) screws that retain the hearth angle from hearth support pan on MST36 fireplace. The angle should then be removed and discarded. (See Fig. 2).
2. Remove the frame and door assembly from the carton and open both doors. Remove each door assembly by depressing the spring bracket that holds each door in place (Fig. 3) and remove the door assemblies from the frame.
3. You are now ready to mount the frame assembly. Position the frame in the fireplace opening so the small mesh is at the bottom of the frame. Position the frame so that the top spring brackets and upper door pivots are at top of opening. The frame should be pushed inward until the frame rests against the filler angles and screen rail. (See Fig. 4).
4. Now install the two (2) upper frame clips to lock the top of the door frame to the screen rail front. The clips can be installed with a rubber hammer or wooden mallet to force the clips into place. These clips should be located approximately three (3) inches from the edge of the door frame. (See Fig. 4).
5. The lower frame securement angle should be placed in the lower door frame track and secured with the three (3) screws removed in Step 1. (See Fig. 4). The frame should be tight against the fireplace and the three (3) screws tightened at this time.
6. Mount the door handles to the glass doors. Using four (4) #8 machine screws, mount the door handles to the two (2) inboard doors at the bottom. The inboard doors are the panels with two (2) holes provided for the machine screws. The mounting of the door handles is shown in Fig. 5.

7. Install the door assemblies into frame by folding each door and then placing it in the track at an angle and sliding the hinge pin into the frame spring clip. When the hinge pin is snapped in place, top and bottom, the door should slide smoothly in the track.
8. If the doors do not align and work smoothly, the door assembly needs to be aligned. Open the door and loosen the top or bottom spring clip slightly and adjust the door to eliminate the misalignment or binding. Position the door and retighten the retaining screw.
9. Determine if the door is properly retained in closed position. The lower rail detent may be adjusted up or down to give lesser or greater tension.
10. Repeat Step 1 through Step 9 for mounting second door.
11. Your GD-MST doors are now ready to use.

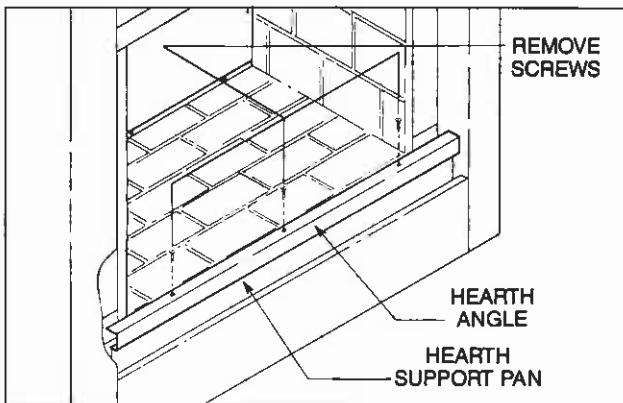


Fig. 2. Removing hearth angle.

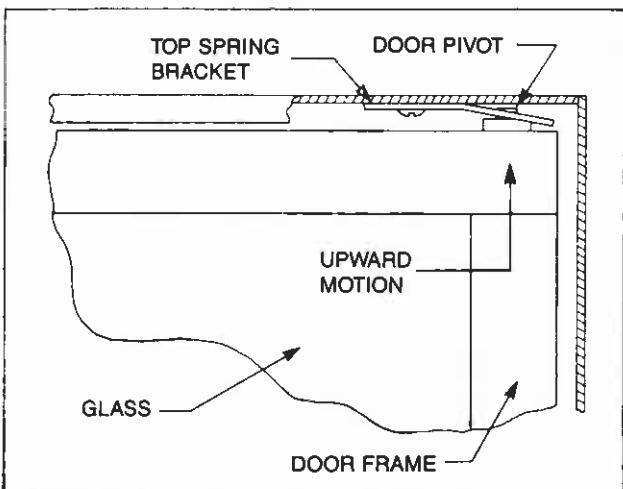


Fig. 3. Depress top spring bracket to remove door assembly.

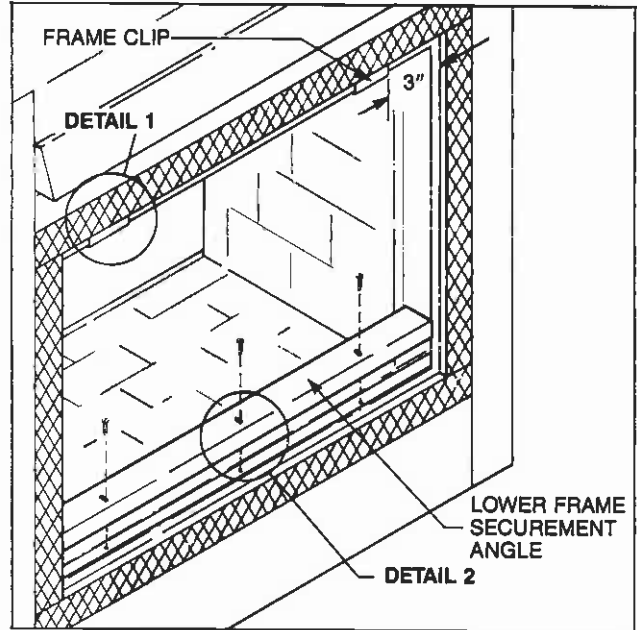


Fig. 4. Installing door frame to fireplace.

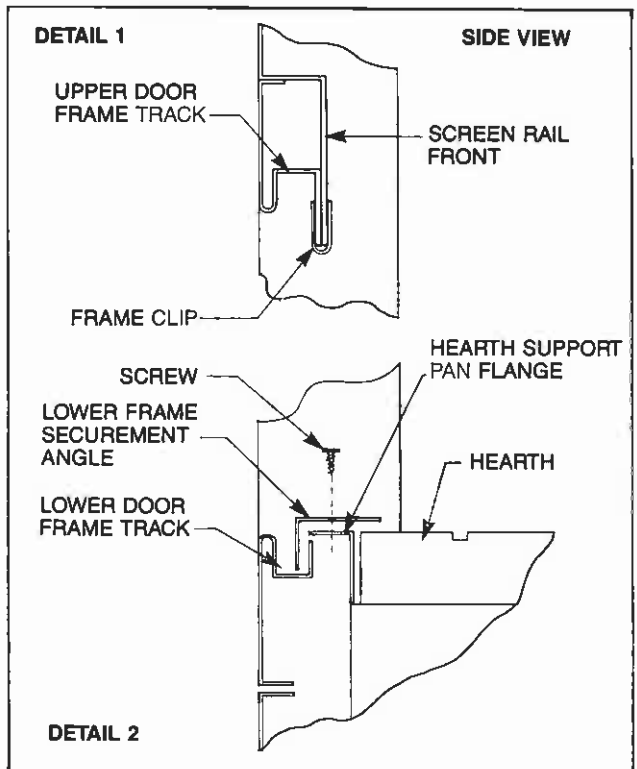


Fig. 4a. Detail of upper frame clips and lower frame securement.

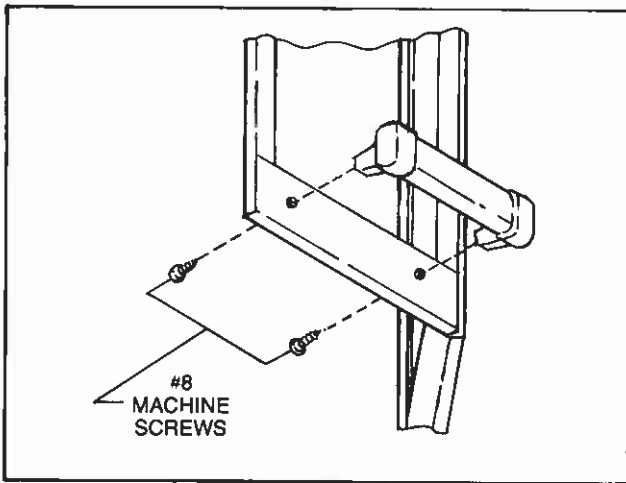


Fig. 5. Mounting door handles.

OPERATING PRECAUTIONS AND INSTRUCTIONS

The GD-MST doors and the fireplace flue damper must both be in the fully open position before starting your fire.

Follow the procedure for building and starting a fire as detailed in your fireplace homeowner's manual. You may close the doors AFTER the fire is well started.

Do not, however, close the GD-MST doors on an excessively hot fire. The glass must be allowed to warm slowly. The tempered glass in the doors will withstand a gradual temperature rise to 550°F, which is more than a normal fire will create. Keep the fire well back from the doors and never let flames contact the glass.

If your fire gets too large at any time, open both glass doors. This will quickly reduce the heat in the firebox. Push the logs or other fuel to the center of the firebox and rearrange into a single layer. Let the fire burn to a smaller size before closing the glass doors again.

The GD-MST doors must always be in either the fully opened or fully closed position. Partially opened doors can cause air drafts that may swirl the fire dangerously or cause smoke to be blown into the room. Any time you have a fire burning in the fireplace and you open the GD-MST doors, be sure to close the fireplace screen.

WARNING: FIREPLACES EQUIPPED WITH DOORS SHOULD BE OPERATED ONLY WITH BOTH DOORS FULLY OPEN OR BOTH 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.

See Fig. 6 for correct door positions.

The following check list summarizes the key steps discussed under OPERATING INSTRUCTIONS.

1. Open GD-MST doors and fireplace damper.
2. Build fire as described in fireplace owner's manual.
3. Close GD-MST doors after the fire is started IF fire is normal size.
4. If fire gets too large, open GD-MST doors and reduce size of fire.
5. Keep damper open until fire is completely out and all smoking has stopped.

For maximum benefit and efficient usage refer to operating instructions in Owner's Manual.

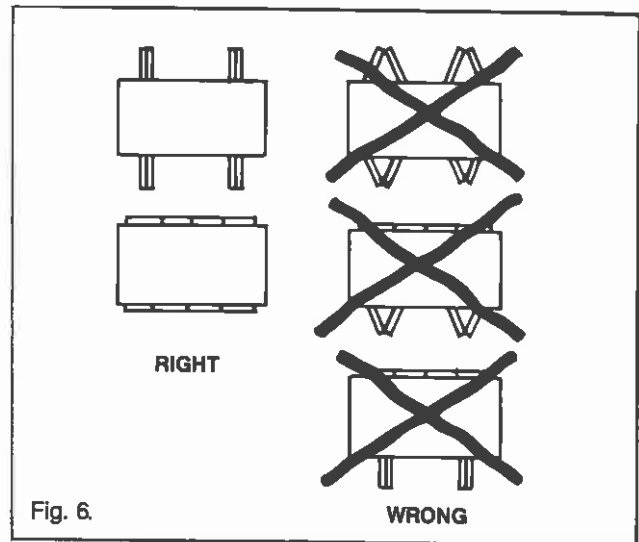


Fig. 6.

MAINTENANCE

Your MAJESTIC Glass Enclosure Kit GD-MST is built to require very little maintenance. It is suggested, however, that you perform the following procedures as required to maintain the original attractive appearance of the glass enclosure.

CARE OF GLASS

The glass in the GD-MST doors has been specifically treated for use with fireplaces. This glass is eight times stronger than conventional plate glass; but, it is possible to break the glass through abuse, by overheating it, or by blocking any of the air intakes. The glass can be cleaned when completely cool with most household glass cleaners.

Should a glass panel ever break, you can order replacement door panels from Majestic through your Majestic Dealer.

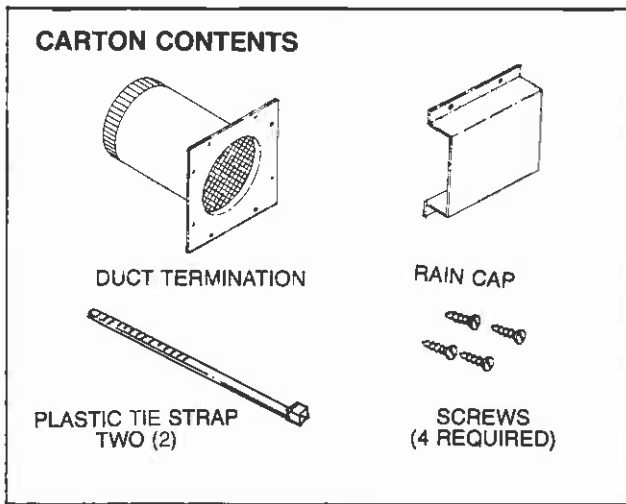
CARE OF BRASS

Your glass enclosure is covered with a facing of brass. The surface of the brass is coated with a clear baked-on enamel to prevent tarnishing of the brass. This finish is treated to withstand any temperature up to 600°F, which is more than will be developed with normal fireplace operation.

Do not polish the brass. When cleaning is required, use Ivory soap suds and a soft cloth. After washing, dry the surface with a clean, dry, soft cloth.

MAJESTIC®

Huntington, Indiana 46750 (219) 356-8000



INSTALLATION AND OPERATION INSTRUCTIONS

for the MAJESTIC[®]
OUTSIDE AIR KIT
MODEL: AK-MST

The Majestic AK-MST outside air kit can be installed to a MAJESTIC MST36 fireplace to bring combustion air to fire chamber.

The air that is drawn into the fire chamber from outside the home or unheated area helps relieve the pressure in the home.

CONTENTS OF THE SHIPPING CARTON

Compare contents of the shipping carton in Fig. 1 with actual parts received. If any parts are missing or damaged, contact your MAJESTIC dealer before starting installation.

NOTE: Four (4) inch Class 1 ducting material or metal duct (not supplied) may be used with AK-MST.

(For installation in New York State, only aluminum, non-combustible flexible or type "O" metal ducting is permissible.)

INSTALLATION PRECAUTIONS

The duct termination should be located so it is exposed to an out-of-doors opening at least 100 square inches. If the duct termination must be located in a crawl space or basement, be sure the termination area has 100 square inches of ventilation opening to outside air.

The duct termination must be located so it does not compete for air flow with exhaust fans, gas vent hoods or other air consuming devices or appliances. It must not be obstructed by rafters, insulating materials or other obstructions. The less restrictive the air supply, the better the AK-MST will perform.

It is a good practice to protect your hands and eyes during installation by wearing work gloves and safety glasses.

CAUTION: DO NOT INSTALL TERMINATION INTO A GARAGE OR OTHER AREA THAT COULD CONTAIN FLAMMABLE LIQUIDS OR FUMES, OR INTO AN ATTIC SPACE.

INSTALLATION INSTRUCTIONS

Determine the location of the fireplace as described in the fireplace Installation Manual. Then plan the location of the duct termination and the route of the duct run between the fireplace and the duct termination.

Duct run must be limited to a maximum distance of 40 feet from the fireplace pipe collar to duct termination. This will provide the least restriction to air flow. No more than four 90° elbows can be used. Duct run may be horizontal, vertical inclined or any combination of these. Vertical duct runs must be at least three (3) feet below the fireplace chimney flue exit. (See Fig. 2.) You are now ready to install the AK-MST Outside Air Kit.

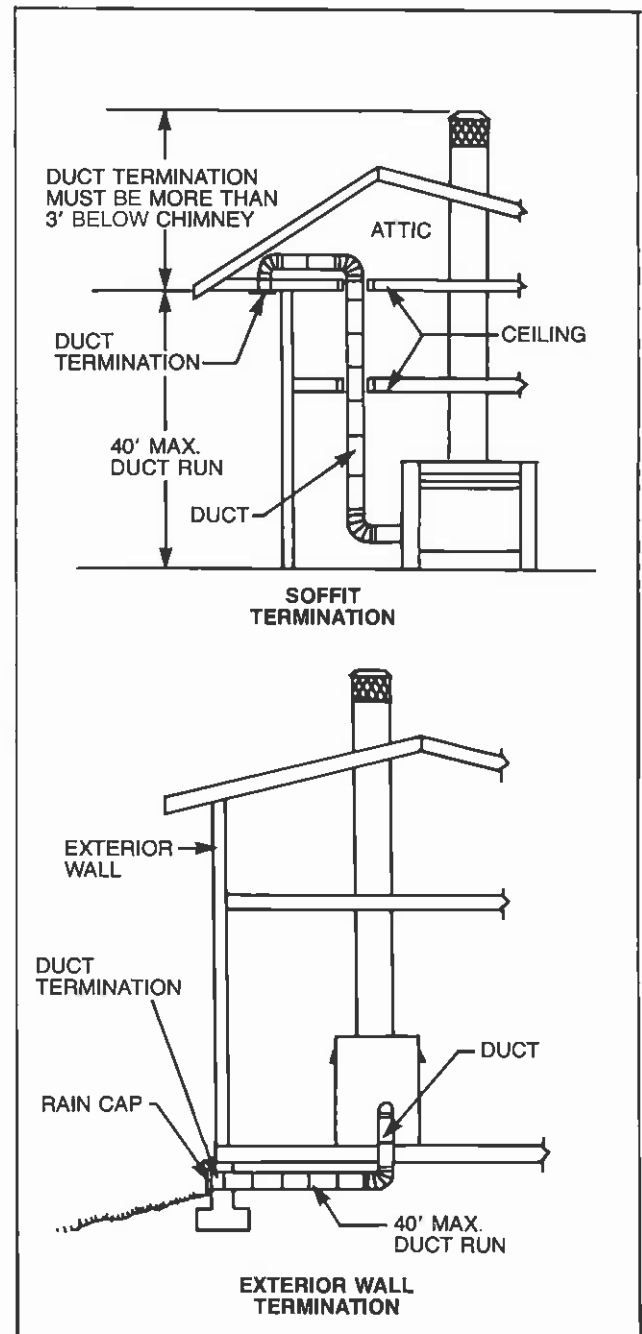


Fig. 2 Typical installations.

1. Locate the outside air connector collar center right side of the fireplace. Use care not to rub against the sharp edges of this opening to avoid cuts.
2. Slide the duct over the collar and attach the duct to the collar using the plastic tie straps or three (3) screws (screws not provided). Continue attaching the ducting together using three (3) screws at each joint until you have installed sufficient duct to arrive at your duct termination location.
3. At the termination end, you should install the duct termination. This should be installed from the outside of the home and should be covered with the rain cap. Cut a hole in the desired location approximately 4½ inches in diameter, caulk around the hole, and slide the termination through the opening from outside the home. The termination may be held in place by using four (4) screws or nails in the side flanges. Align the rain cap over the termination and secure by using four (4) # 10 screws (provided). See Fig. 3.
4. Your AK-MST Outside Air Kit is now installed and ready for use.

OPERATION PRECAUTIONS AND INSTRUCTIONS

When operating with glass doors, open the doors and close the AK-MST damper so your fire will be started using room air. After the fire is well started, you may open the AK-MST damper and close the doors to provide outside air to the fire. To open damper, pull the control lever towards the front face of the firebox. To 'close' push the control lever away from the front face until it stops. The fireplace may be operated in any combination of outside air, doors open or doors closed.

Periodically inspect the duct termination for any blockage. Correct if necessary.

For maximum benefit and efficient usage, refer to operating instructions in Owner's manual.

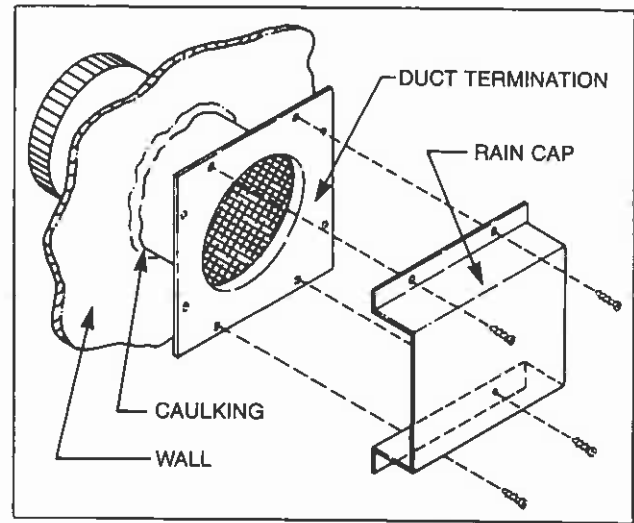


Fig. 3. Caulk and nail or screw rain cap in place.

INSTALLATION INSTRUCTIONS

for the MAJESTIC[®] FK-MST BLOWER KIT

FOR INSTALLATION IN MST36 SERIES,
FIREPLACES



Tools required for assembly:

Flat blade screwdriver
Drill
1/8" Drill Bit

INSTALLATION PRECAUTIONS

The MAJESTIC FK-MST Blower Kit is tested and safe when installed in accordance with this installation manual. It is your responsibility to read all instructions before starting installation and to follow these instructions carefully during installation to assure maximum benefit from and safe operation of the blower.

This blower kit is carefully engineered and must be installed only on the specified MAJESTIC Fireplace. If you modify it or any of its components, you may possibly cause a fire hazard and will void the MAJESTIC WARRANTY. In addition, such action may void the coverage provided by the owner's house insurance.

When installing the FK-MST Blower Kit a 12" x 12" vent opening is recommended in the finished wall to provide air and access to the Blower. This opening should be positioned to allow easy access to the Blower for any possible repairs and maintenance.

CAUTION: All wiring should be done by a qualified electrician and shall be in compliance with all local, city and State building codes.

CHECK CONTENTS OF SHIPPING CARTON

Compare CONTENTS OF CARTON in Fig. 1 with actual parts received. If any parts are missing or damaged, contact your Majestic Dealer before starting installation. Do not install a damaged blower kit.

INSTALLING THE BLOWER

1. The MST36 Series Fireplace is equipped with provision to install the Blower. Locate the 3 7/8" x 4 7/8" inlet opening on the left side of the fireplace inner casing.
2. Holding Blower Assembly in the upright position, hook the lower mounting flange (A) into the Blower opening. Lift Blower Housing until Blower side and top flange are tight against inlet opening. (See Fig. 2.)
3. Position upper Mounting Bracket (B) on Blower Assembly and against Outer Casing as shown in Fig. 2. Using the two holes in Bracket (B) as guides, mark and drill two (2) 1/8" holes in the Blower Housing and Outer Casing. Secure upper Mounting Bracket with the two (2) #8 x 3/4" Metal Screws provided. When securing Mounting Bracket to Blower Housing, adjust Blower Assembly so that Blower Mounting Flange is tight against inlet opening. (See Fig. 2.)

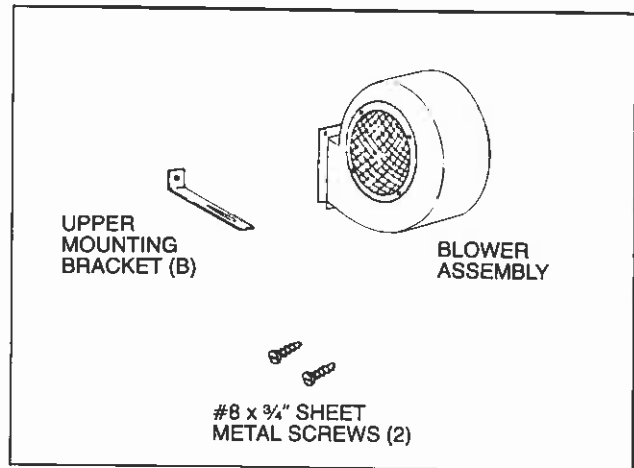


Fig. 1. Carton contents.

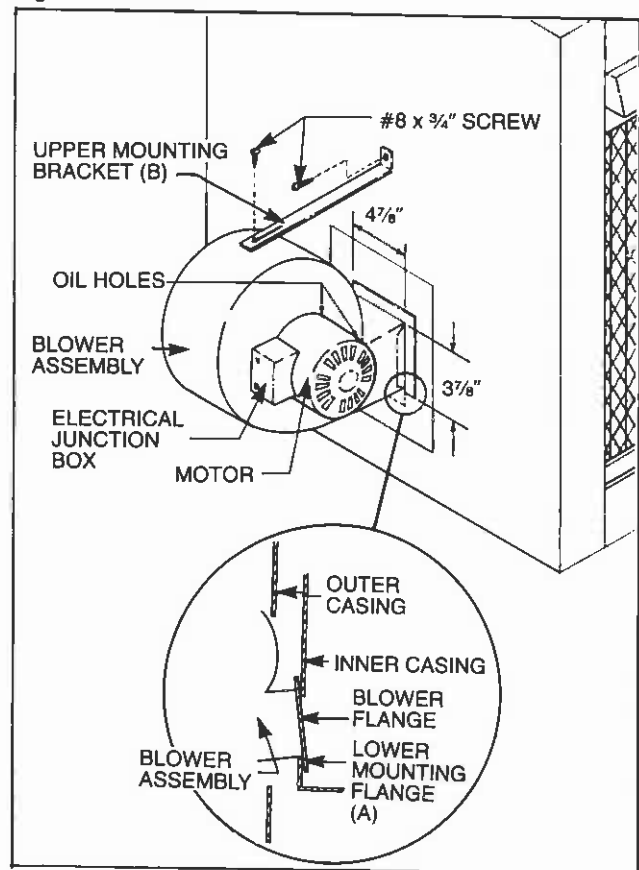


Fig. 2. Mounting blower assembly.

WIRING INSTRUCTIONS

CAUTION: The Blower require 120 VAC, 60 HZ power available at the Blower Assembly. This power must be provided during the initial installation of the fireplace. The power should be available to the Blower through a single listed 15 AMP, 125V Wall Switch (switch not provided). A variable Speed Control can be used with the Blower but must meet the electrical rating of 120 VAC, 60 HZ, 2.2 Amps.

1. Route the field supplied wiring from the switch box to the junction box in accordance with local electrical codes. The electrical junction box is located on the motor of the Blower Assembly. Be sure wiring does not contact outer fireplace surfaces and support wiring in a manner that will assure clearance from the fireplace components.

2. Insert 120V, 60 HZ power line through the knockout in the top or bottom of the junction box. The ground wire from the power should be attached to the junction box. A Star Washer is recommended for a good ground connection.

3. Using wire nuts (not supplied), connect the ends of the white and black power leads to the black motor leads (See Wiring Diagram, Fig. 3), making sure the wire nuts are tight to the leads. Reinstall the wiring box cover.

WARNING: Never contact Blower Wheel (Vaness) during Blower operation with body parts or foreign objects.

RECOMMENDED OPERATING PROCEDURES

1. Build your fire in the MST36 fireplace with blower "off".
2. After a good fire has been developed for at least 15 minutes, then turn the blower switch to the "on" position and heated air should immediately be delivered from beneath the decorative hoods.

MAINTENANCE

The blower motor is equipped with bearing oil ports. They should be oiled before the start of each season. Place a couple of drops of S.A.E. 20 oil into each oil port (See Fig. 2.)

Check the air inlet area of the blower for accumulation of dust, dirt or obstructions. Remove any dust or dirt or obstruction and assure free movement of the blower wheel before use.

REPLACEMENT PARTS AND CUSTOMER SERVICE

Replacement and service parts may be obtained through your Majestic distributor. If you need additional information contact:

The Majestic Company
Huntington, Indiana 46750
ATTN: Director of Customer Service

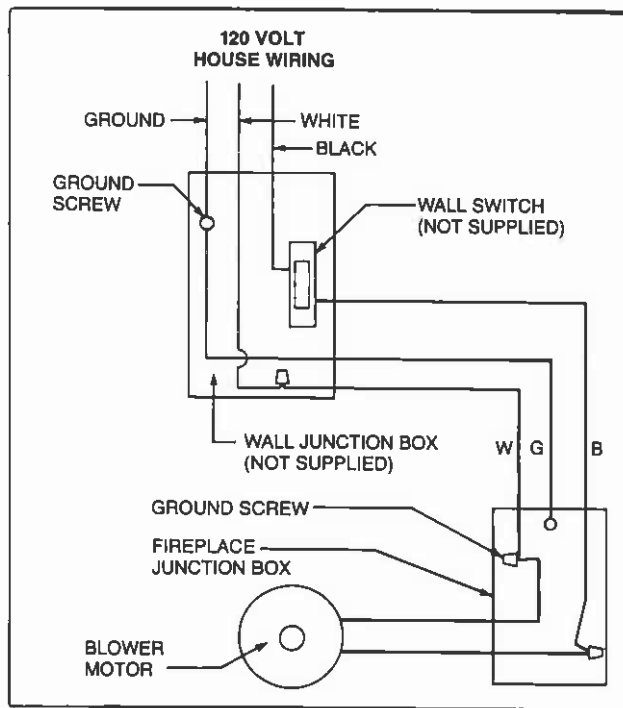


Fig. 3. Wiring diagram.

MAJESTIC

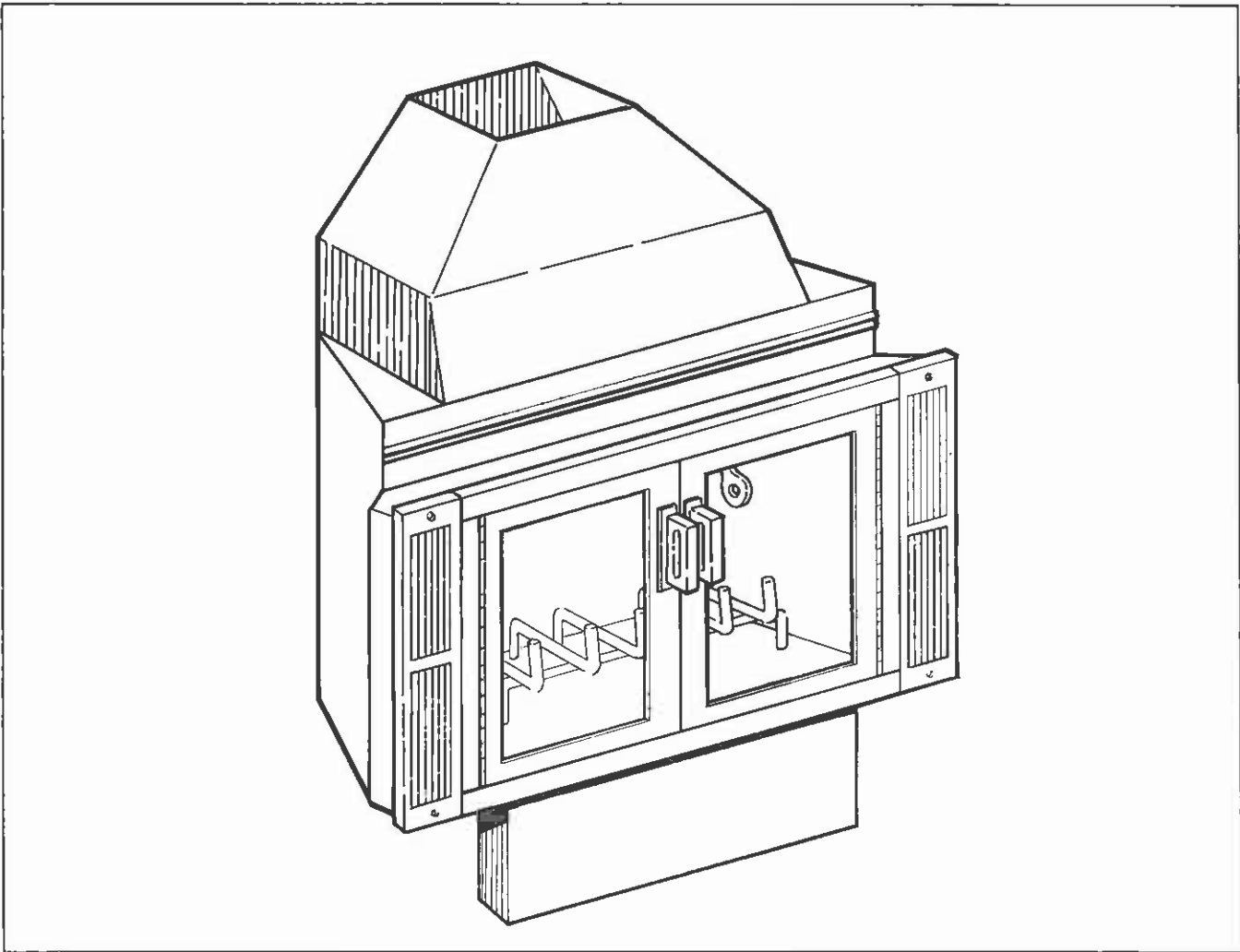
An Equus Building Products Company

Huntington, Indiana 46750 (219) 356-8000

INSTALLATION MANUAL



for the **MAJESTIC**[®]
SUPERCIRCULATOR™ FIREPLACE
MODEL: SC4850



IMPORTANT: Read all instructions carefully before starting installation. Failure to follow these installation instructions may result in a possible fire hazard and will void the MAJESTIC warranty.

THIS UNIT MUST BE TOTALLY ENCLOSED IN MASONRY CONSTRUCTION. IT IS NOT A ZERO CLEARANCE FIREPLACE.

Save this manual for future reference.

MAJESTIC[®]

IDENTIFICATION OF PARTS

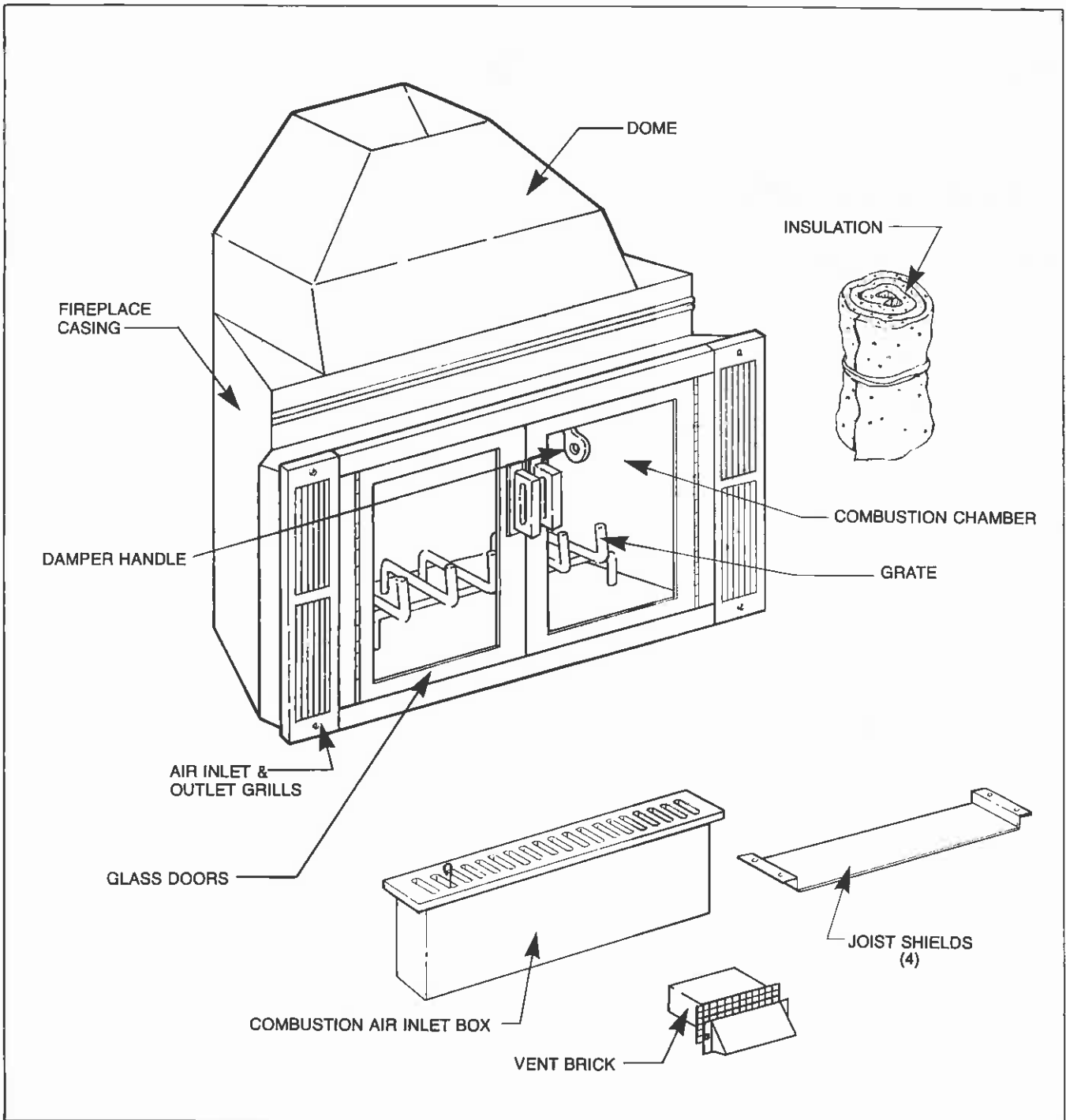


Fig. 1 Identification of SC4850 Parts.

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INSTALLATION PRECAUTIONS

This MAJESTIC SuperCirculator Fireplace and its components are tested and safe when installed in accordance with this Installation Manual. It is your responsibility to read all instructions before starting installation and to follow these instructions carefully during installation to assure maximum benefit from and safe operation of the fireplace.

If you make any modification on the MAJESTIC SuperCirculator, you may possibly cause a fire hazard and will void the MAJESTIC warranty. In addition, such action may void the coverage provided by the owner's house insurance.

Consult the local building codes and investigate the requirements for installing a masonry enclosed fireplace. Failure to comply with these requirements can result in the installation being disapproved by the local building inspector.

The MAJESTIC SuperCirculator serves as a form around which to build the fireplace masonry. The Circulator is **NOT** to be used as a support for the masonry. All masonry **MUST** be self-supporting.

The MAJESTIC Circulator must be completely covered with fiberglass wool (provided with the unit). Fiberglass fills the void between the unit and the surround masonry. Masonry must not come closer to the unit than $\frac{1}{2}$ inch. This allows the sheet metal casing of the Circulator to expand and contract without cracking the masonry.

A hearth extension must project at least 12 inches on either side of the fireplace opening and 20 inches in front of that opening. The hearth extension must be non-combustible material. It must be supported or reinforced by non-combustible materials so as to support its own weight as well as any additional loading.

Combustible mantels may be installed at a minimum height of 30" above the fireplace opening.

A combustible side wall, at a right angle to the fireplace opening, must be a minimum of 36 inches from the fireplace opening.

You must maintain at least 24 inches clearance from the warm air outlet grille to any adjacent combustible (burnable) materials.

WARNING:

Except as noted in these instructions, **DO NOT PACK REQUIRED AIR SPACES WITH INSULATION OR OTHER MATERIALS.**

Chimney and flue tile must not rest on the Circulator. This allows the sheet metal casing of the Circulator to expand and contract without cracking the flue tile. $\frac{1}{2}$ " space is recommended.

Seal the crack between the Circulator and the flue tile with Fiberglass insulation.

The chimney must extend at least three feet above a flat roof, or two feet above any part of a roof, roof ridge, or wall which is located within ten feet of the chimney.

SECTION I. INSTALLATION INSTRUCTIONS

A. Locating the Fireplace.

□ A-1. DETERMINE FIREPLACE LOCATION

Good planning is very important for a satisfactory installation. Therefore, at this time, you should decide what components you want to include in your installation, where the fireplace is to be located and how the chimney will be routed to the roof. Consult your Majestic Dealer for assistance with this planning.

This fireplace may not be installed within a combustible interior wall enclosure. Try to avoid locating the MAJESTIC SuperCirculator Fireplace across the room from a door which leads to the outside. When this door is opened, it is possible for a gust of wind to blow into the room. This can

cause the fireplace to discharge smoke out into the room from the firebox opening. Avoid locating the MAJESTIC SuperCirculator Fireplace near a forced air furnace, return air register. This can cause a chimney downdraft, resulting in smoke being pulled from the fireplace and out into the room. Also try to avoid locating the MAJESTIC SuperCirculator Fireplace near a stairway which leads to the floor above, unless there is a door which closes that stairway off. Otherwise, the warm air from the fireplace will rise to the floor above without adequately heating the room in which the fireplace is located.

□ A-2. GENERAL DIMENSIONS — Circulator Fireplace.

The general dimensions of the SC4850 MAJESTIC SuperCirculator Fireplace are found in Fig. 2A. These will assist you in planning, along with a detailed dimensional home plan.

□ A-3. GENERAL DIMENSIONS — Minimum Foundation and Footing.

The dimensions for foundation required for the MAJESTIC SuperCirculator Fireplace are found in Fig. 2B. These dimensions, are **minimum**, and for common brick of a minimum width of 3 inches. It is best to figure the foundation size based on the materials being used. There are many sizes of decorative brick and other non-combustible materials.

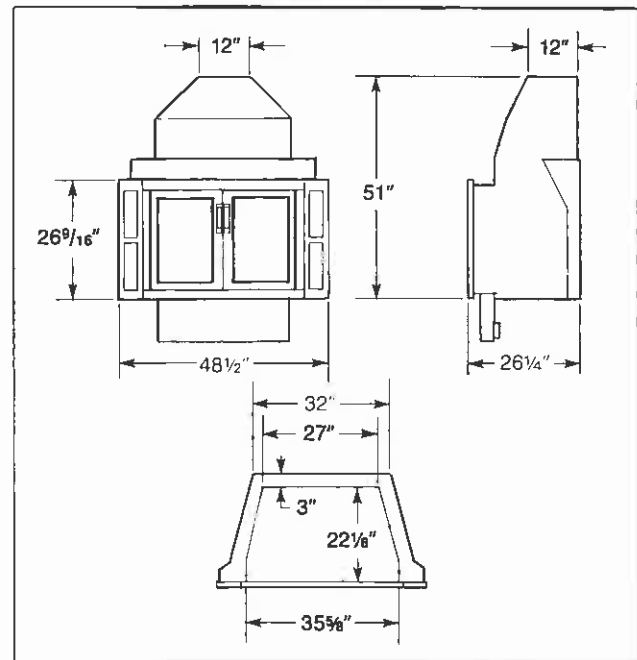


Fig. 2A.

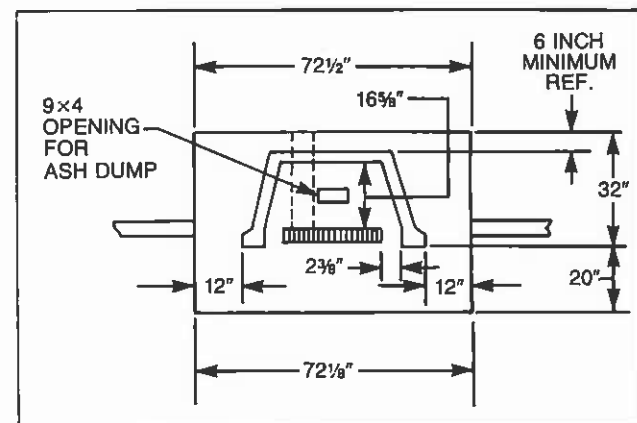


Fig. 2B.

Add to the foundation dimensions where extra flues are incorporated.

The height of the foundation determines the level of the fireplace hearth. Plan the foundation height to accommodate the fireplace hearth in relation to the floor. Remember to deduct the thickness of the firebrick hearth and hearth slab from the foundation height.

Foundation walls should be at least 8 to 12 inches thick.

Footings should extend 6 inches beyond on all sides of the outer foundation walls.

Consult your local building codes for specific requirements on footing and foundation. In general, footings should be located below the frost line, usually 30 inches below the ground surface.

□ A-4. DETERMINE FLUE SIZE.

The recommended flue size for the MAJESTIC SuperCirculator Fireplace can be found in Table 1. Check this Table to insure that the flue size you have chosen is adequate for the proper functioning of the fireplace.

These are general rules which do not assure smoke-free operation. Other factors such as tightness of the home, wind patterns, location of surrounding trees, affect the fireplace operation.

TABLE 1

Model No.	ALL DIMENSIONS ARE OUTSIDE				Modular Flue Sizes Rectangular	Min. Inside Flue Area Sq. Inches
	FLUE SIZES					
	Chimneys over 20' Rect.	Chimneys Under 20' Rd.	Chimneys over 20' Rect.	Chimneys Under 20' Rd.		
SC4850	13" x 13"	12"	13" x 13"	12"	12" x 12"	87"

□ A-5. CHECK CLEARANCES

Review all clearance requirements.

A hearth extension must project at least 12 inches on either side of the fireplace opening and 20 inches in front of that opening.

The hearth extension must be raised above the surrounding floor a minimum of 3 inches.

Combustible mantles may be mounted at a minimum of 30 inches above the fireplace opening.

A combustible side wall, at a right angle to the fireplace opening, must be a minimum of 36 inches.

A 2" air space must be maintained from the chimney surface to any combustible materials.

The chimney must extend at least three feet above a flat roof, or two feet above any part of a roof, roof ridge, or wall which is located within ten feet of the chimney.

B. Installing the Fireplace

□ B-1. INSPECT CIRCULATOR

Inspect the MAJESTIC SuperCirculator to insure that the Fiberglass Wool insulation, joist shields, outside air kit, grilles and door assembly components are on hand. **do not** install the fireplace without the Fiberglass Wool Insulation or Joist Shields. (See Fig. 1).

Before installing the MAJESTIC SuperCirculator Fireplace, test the Damper. The Damper Blade should hold in the open and closed positions.

□ B-2. POUR FOOTINGS

Refer to Figs. 2B and 3 for footing and dimensions. Also consult your local building codes. The footing should extend beyond the fireplace foundation at least 6 inches on all sides. It should be located below the frost line, typically 30 inches below ground surface. After having determined the appropriate dimensions, pour the concrete footing. Make sure it is level.

□ B-3. BUILD FOUNDATION

The dimensions for foundations required for the MAJESTIC SuperCirculator are found in Fig. 2B. These dimensions are minimum and for common brick having a minimum width of 3 inches. It is best to figure foundation size based on the materials being used. Add to the foundation dimensions where extra flues are to be incorporated.

The height of the foundation determines the level of the fireplace. Remember to deduct the thickness of the firebrick hearth and hearth slab from the foundation height.

The foundation may be constructed either of concrete blocks or poured concrete or common brick. Conduit **must** be incorporated into the hearth slab. (See Fig. 4) for location. Provide for outside air duct and vent brick openings as well as any options; such as: ash pit cleanout door, when laying the foundation. (See Fig. 5) The outside air ductwork should be routed from the outlet air box to the vent brick assembly on the exterior foundation wall.

The ducting to be used between the air outlet box and the vent brick assembly on the exterior foundation wall should preferably be constructed of sheet metal. The ducting should allow a minimum flow area of 24 square inches, or a 3-inch by 8-inch rectangular passageway. Standard single-wall galvanized sheet metal duct 3¼-inch by 8-inch may be used and can be purchased at local retailers. If using a masonry passageway, it should be constructed as smooth as possible to avoid air flow restrictions. Any combustible forms or materials used during construction must be removed prior to fireplace usage.

Ductwork should be located and attached to air outlet box and vent brick assembly during construction of the fireplace hearth slab.

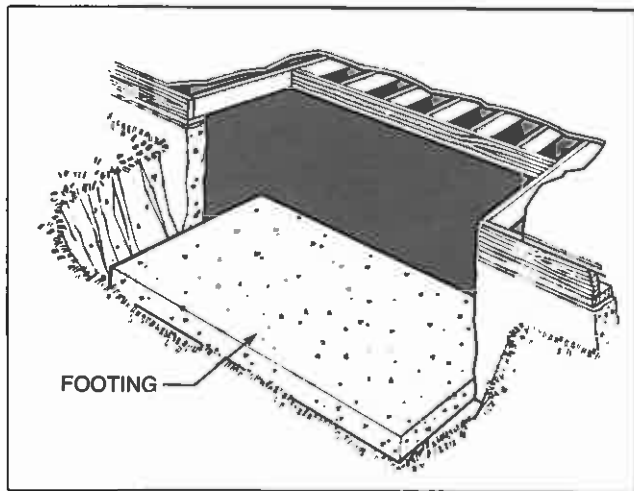


Fig. 3 Pour footings.

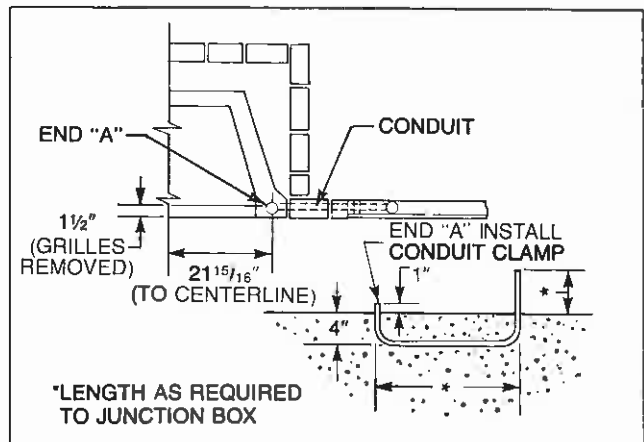


Fig. 4 Install conduit as shown in foundation, from both sides.

□ B-4. INSTALL VENT BRICK

To provide replacement air for a modern, air-tight home, and to give the Circulator a sufficient amount of air for combustion, the outdoor vent must be installed. This brick is connected to the air outlet box.

Set the vent brick level with the top of the cleanout door. (See Step B-5), in the outside foundation wall. It should be several inches above ground surface, (See Fig. 6). This prevents blockage from earth and snow.

□ B-5. INSTALL CLEAN-OUT

To provide for removal of ash accumulation, a clean-out door in combination with an ash dump may be installed. See Accessory Parts Section at the end of this manual.

The clean-out door is set into the foundation with mortar as shown in Fig. 6. On outside walls the clean-out door should be several inches above ground level.

□ B-6. FILL FOUNDATION

Fill the foundation cavity with loose non-combustible materials such as stones, brick chips and rubble to approximately 6 inches below the vent brick and clean-out door.

□ B-7. INSTALL DUCTWORK

At this time, attach the galvanized sheet metal duct to the vent brick assembly with sheet metal screws, (not provided); or construct a masonry channel if that option has been chosen, securing the channel to the assembly with mortar. (See Fig. 7). The duct run should be short, smooth and as direct as possible, heading in a slight upward direction from the vent brick assembly attachment toward the air outlet box attachment.

□ B-8. INSTALL AIR INLET BOX

Attach the galvanized sheet metal duct to the air inlet box with sheet metal screws (not provided), or the optional masonry channel to the air inlet box with mortar. It is important that the ductwork connection at the air inlet box is relatively air tight to prevent air loss in the foundation cavity. Air inlet box should be in proper position relative to its intended location in the hearth. It should be located in the center of the intended fireplace opening, with the inside edge of the air inlet box 16 $\frac{5}{8}$ " from the back wall of the fire chamber. (See Figures 8 and 9).

Any combustible forms or materials used during construction must be removed prior to fireplace usage.

□ B-9. BUILD HEARTH SLAB AND EXTENDED HEARTH

The hearth slab and extended hearth should be built at the same time. Use concrete or concrete blocks. The extended hearth must project at least 12 inches on either side of the fireplace opening and 20 inches in front of that opening.

NOTE: Before pouring hearth slab, read Steps B-10 and B-11.

The extended hearth and hearth slab must be supported or reinforced by non-combustible materials so as to support its own weight as well as the additional loading of Circulator, brick and flue.

Support the extended hearth and hearth slab on the front, back, and side walls of the foundation. (See Fig. 8 for typical construction).

□ B-10. PREPARE ASH DUMP (OPTIONAL)

To provide for easy removal of ash accumulation in the fireplace hearth as well as to provide make-up air for combustion, an optional ash dump may be installed. See Accessory Parts Section.

Prepare a 4 $\frac{1}{2}$ inch by 9 inch opening in the center of the hearth slab.

Do not install the ash dump at this time. It is installed after the firebrick is laid in place.

□ B-11. PREPARE CIRCULATOR FAN WIRING

To provide power to circulator fans, electrical wiring capable of handling 120 VAC, 60 Hz, 34 Watts, must be installed by a qualified electrician.

Pull the wiring through the conduit which was installed at the pouring of the foundation. Allow an ample amount of wiring to facilitate ease of attachment with the fan wires. (See Fig. 4). Determine location for wall switch or variable speed control on adjacent wall and allow for necessary wiring.

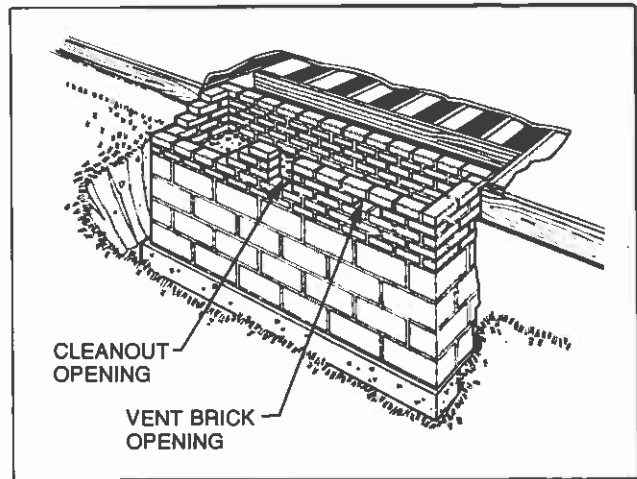


Fig. 5.

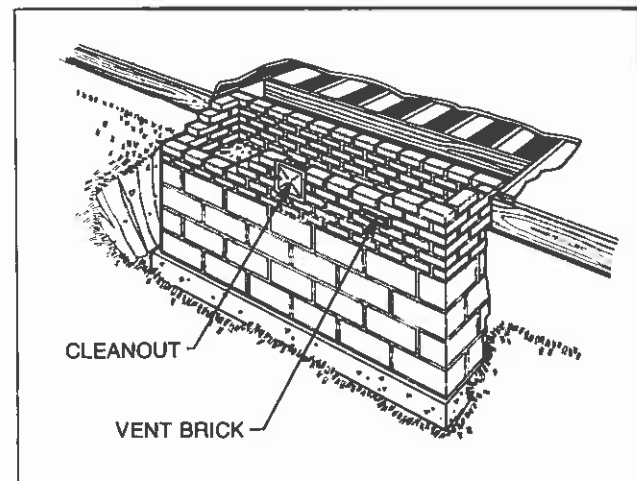


Fig. 6. Install ventilator and clean-out.

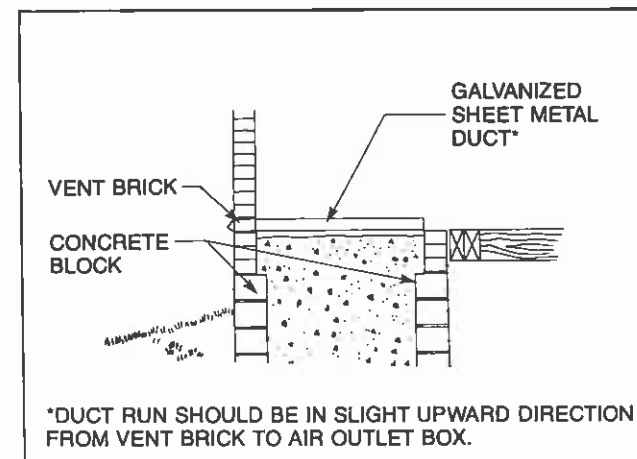


Fig. 7. Install ductwork.

□ B-12. CEMENT HEARTH FIREBRICK

Cement the hearth firebrick to the concrete slab with a non-combustible adhesive, leaving approximately 1/8 inch joints. The first row of firebrick should be positioned even with the planned front edge of the Circulator.

Cover the concrete hearth slab with enough firebrick to adequately support the Circulator. Top lid of air outlet box should rest on firebrick.

If an ash dump is intended to be used, remember to leave the 4 1/2 by 9 inch opening in the firebrick. (See Fig. 10).

□ B-13. INSTALL ASH DUMP (OPTIONAL)

Insert the flanges of the ash dump into the opening, (4 1/2 inch by 9 inch), in the hearth firebrick. The edges of the ash dump overlap the firebrick, supporting the ash dump. It is not necessary to cement the ash dump in place.

Test the operation of the ash dump to insure that it works properly. (See Fig. 11).

□ B-14. PREPARE CIRCULATOR FOR PLACEMENT ON HEARTH

Locate the electrical junction box in the lower grille area on both sides of the unit. Remove the retaining screw holding the junction box in place and then lift out both junction boxes. Retain boxes and screws for remounting. The hole below the junction box on each side is provided for entrance of the electrical conduits and wiring into the junction box area.

□ B-15. SETTING CIRCULATOR IN PLACE

At this point, set MAJESTIC SuperCirculator in position on the firebrick hearth. Care must be taken that conduit stubs with wiring are aligned with the holes provided through the base plate in the junction box areas on both sides of the unit.

□ B-16. MOUNT DOOR ASSEMBLY and SIDE GRILLES

To allow for proper placement of brickwork around the top and sides of the Circulator, the door assembly and side grilles should be installed at this time.

Remove door assembly and grilles from component carton. Four (4) retainer brackets are used to secure the door frame assembly to the Circulator.

Position bottom of door frame in place in Circulator opening, resting the lip of the bottom door frame member on top of the

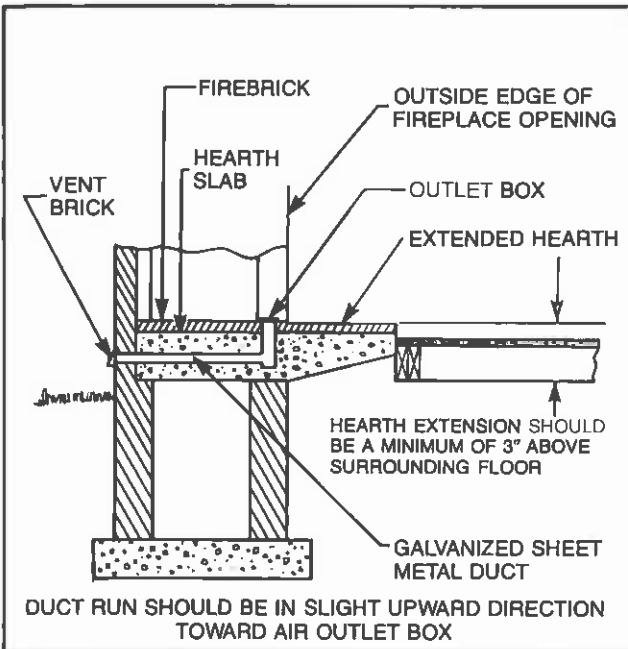


Fig. 8. Install Air Outlet Box, build hearth slab and extended hearth.

lower angle brace of the Circulator. Attach four (4) retainer brackets as shown in Figure 12, securing door assembly to Circulator. A slot is provided in the door frame mating bracket to allow for adjustment.

Position left grille adjacent to left side of door frame aligning upper and lower mounting holes in grille with corresponding holes in Circulator casing. Secure with screws provided. Repeat procedure for right side grille.

This combination of door assembly and grilles forms the portion of the Circulator that should be visible when the front brickwork is completed.

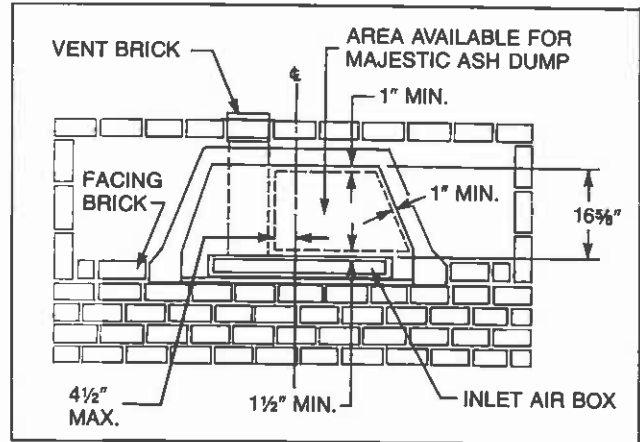


Fig. 9. Location prevents interference with glass doors.

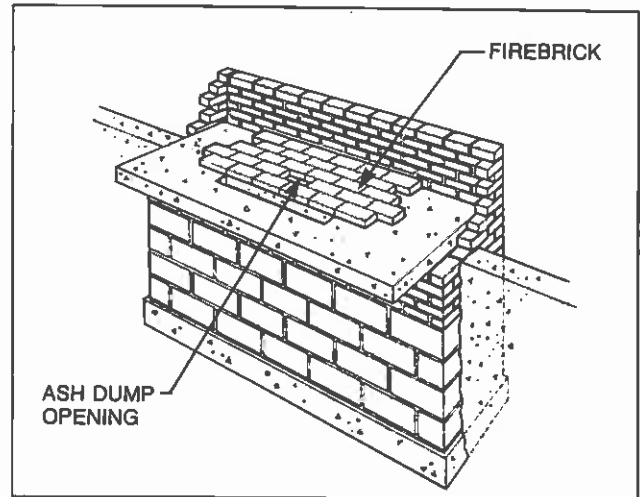


Fig. 10. Cover hearth slab with firebrick.

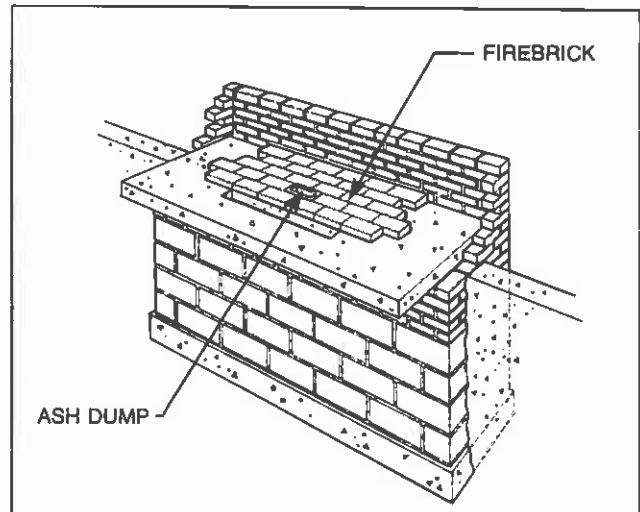


Fig. 11. Install ash dump.

□ B-17. APPLY INSULATION and LAY BRICK.

Apply a thin coat of firebrick cement to the front edges, ends and back of the Circulator about 18 inches high or the width of the insulation strip. Starting behind one side of the fireplace grille, wrap the insulation completely around the Circulator pressing it in place (See Fig. 13). Cut off the excess insulation. Masking tape may be used temporarily to hold the insulation during installation. Brickwork now may begin. Masonry should not come closer to the circulator than ½ inch.

HINT: It is always best to lay, loosely, a course of brick (or pieces of other materials being used) on the floor to determine how they will fit together when the course is complete across the fireplace opening — or follow your detailed dimensional home plan.

Lay the first course of brick at the outer desired finished dimensions. Also lay a course of brick next to the unit for support of the chimney weight. (See Figs. 14 and 15).

Continue to lay brick until most of the first layer of fiberglass insulation is covered. When placing brick next to the side grilles, allow enough clearance to facilitate later removal of the grilles for access to the electrical area and fans.

Make certain that the qualified electrician brings his lead-in wires into both air inlet ducts through the conduit, as shown in Fig. 4.

Apply a second section of Fiberglass Wool Insulation. Cover the front of the Circulator. See Fig. 16.

Continue with the brick work to the top of the heat exchanger area on either side of the Circulator.

SET LINTEL

To support the brick work above the fireplace opening, use a Lintel 54" long, 3½ inch by 3½ inch by ¼ inch angle iron across the top of the fireplace opening. The lintel is supported by the brick on either side of the fireplace, not the Circulator unit. Remember to place a generous supply of fiberglass insulation between the lintel and the Circulator front. (See Fig. 16)

CONTINUE BRICK WORK

As the masonry is laid up, continue to apply the Fiberglass Wool insulation, (double at all corners), to the casing of the Circulator.

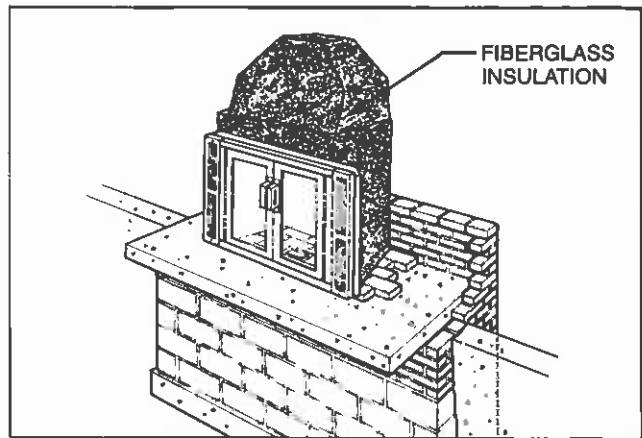


Fig. 13. Wrap insulation around fireplace.

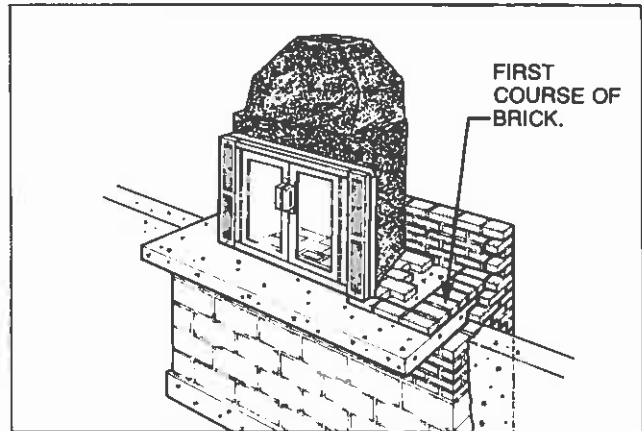


Fig. 14. Lay first course of bricks.

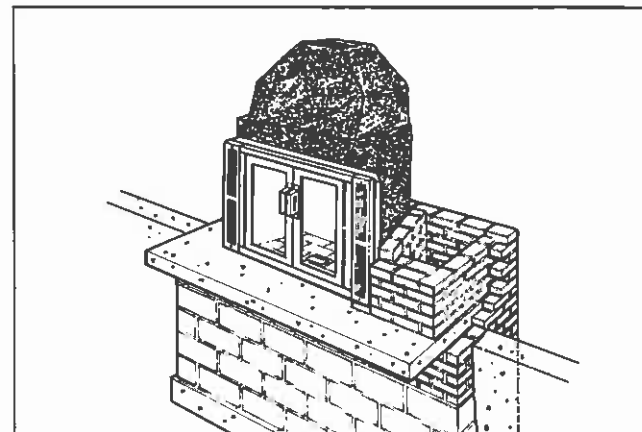


Fig. 15. Lay course next to unit for support.

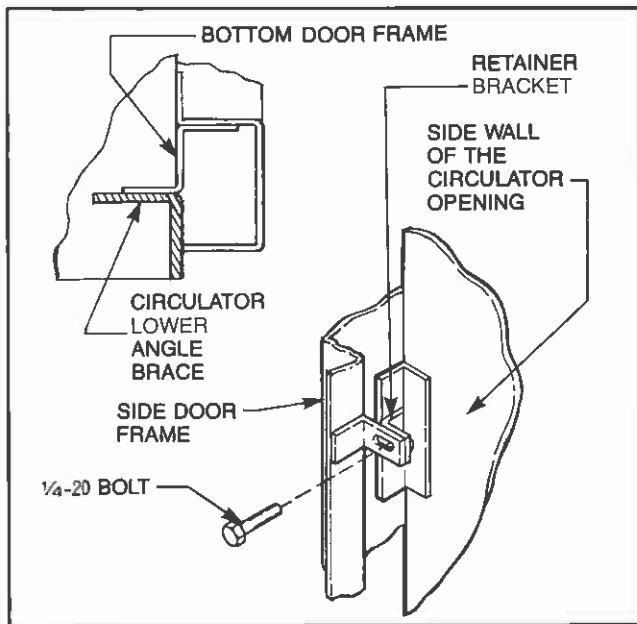


Fig. 12. Use four (4) retainer brackets to secure door assembly to Circulator.

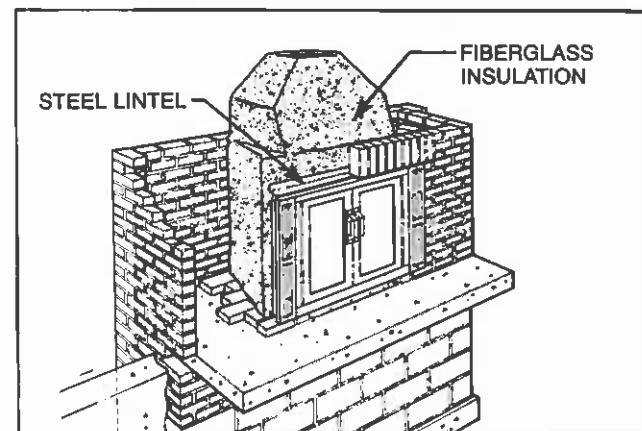


Fig. 16. Set lintel.

Construct an inner wall around the smoke dome at this time, by use of lintels. Maintain ½ inch clearance between the brickwork and the fiberglass insulation. This inner wall, from the lintel around the smoke dome to the top of the smoke dome, is constructed to support the weight of the chimney. Continue the outer wall. See Fig. 17.

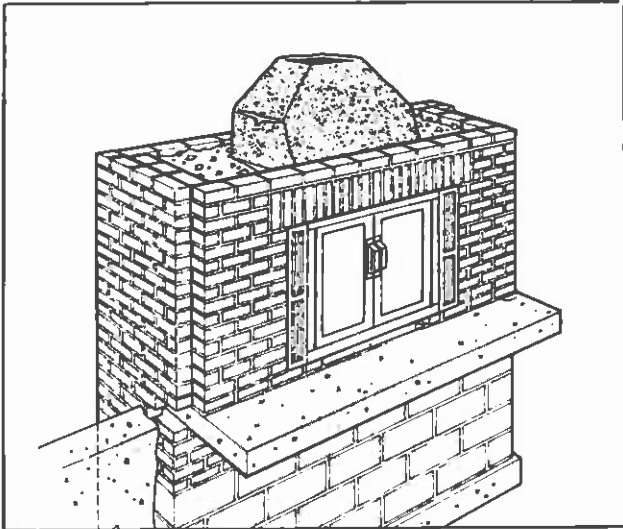


Fig. 17. Continue outer wall.

□ B-18. THE CHIMNEY.

The flue tile and brickwork for the chimney must rest on lintels or on corbelled masonry. (See Fig. 18).

They must not rest on the Circulator!

Install ½" fiberglass wool insulation between flue tile and the top of the circulator. Wipe or fill joint with refractory mortar for sealing (see Fig. 18). Continue building the chimney and filling voided areas until the chimney extends at least 3 feet above the high point where the chimney penetrates the roof, or 3 feet above a flat roof. The chimney must always extend 2 feet above any portion of the building or surrounding structure within 10 feet. (See Fig. 19.) When using a round flue tile, start installation with square tile on top of Circulator and then continue with round, filling joint between round and square with refractory mortar to make transition.

A chimney cap is strongly recommended as an additional safeguard against the elements. (See Fig. 20 and 21)

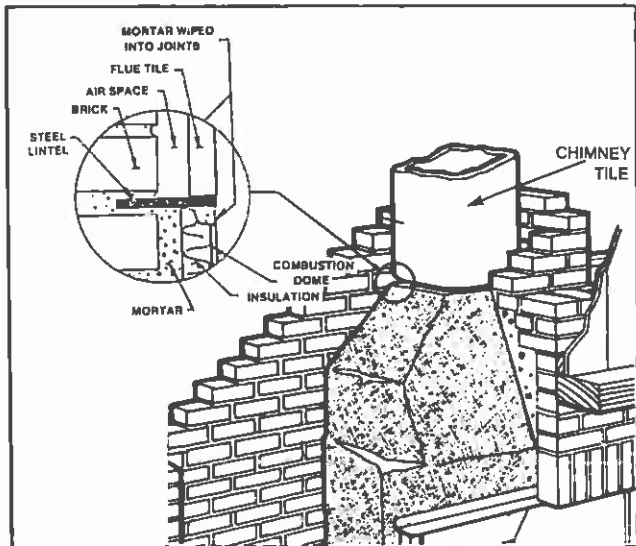


Fig. 18. Chimney tile.

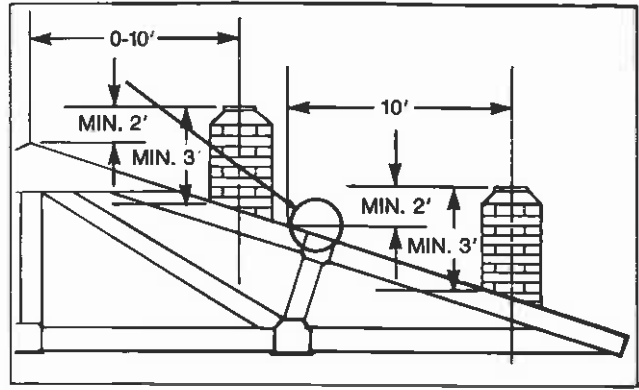
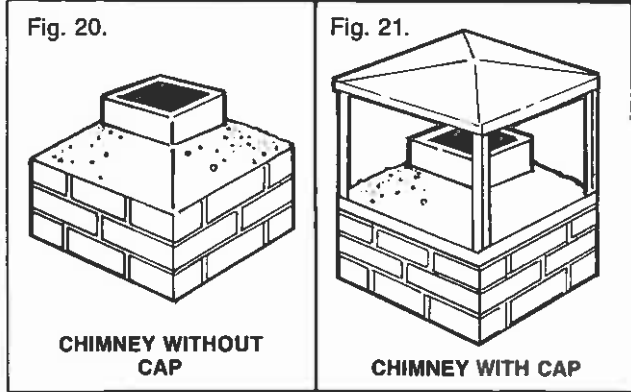


Fig. 19. Ten foot rule.



□ B-19. WOOD FRAMING AROUND MASONRY ENCLOSURE.

A minimum of 2 inches air space must be maintained between the chimney and combustible framing materials. Minimum chimney height 12', maximum chimney height 35'. Minimum height to first joist area may not be less than 7'-6".

When passing through the roof joist area or roof overhang, the insulated joist shields (4 supplied with unit) must be installed. When passing through additional joist areas or overhangs above this point, use a MAJESTIC SCJS Kit. Install as follows. Frame joist opening around chimney, maintaining the 2" airspace to chimney surface on all sides. Position insulation pad on joist side and slide metal shield in place over insulation. Nail through shield and insulation to secure. (2 nails each side of shield required) Repeat procedure on remaining 3 sides of joist. Refer to Figure 22 for typical installation.

□ B-20. FINISH HEARTH EXTENSION

Finish covering the hearth extension slab with the noncombustible material of your choice. (See Fig. 23) Top surface of hearth extension must be a minimum of 3" above surrounding floor area.

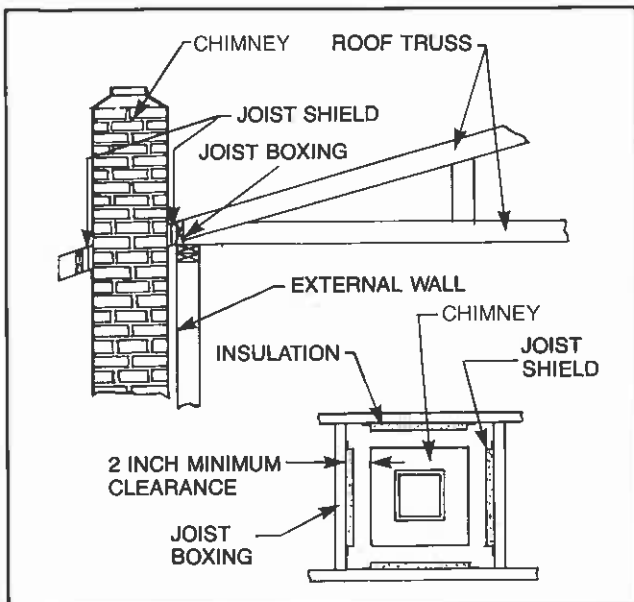


Fig. 22. Typical installation of joist shields.

□ B-21. INSTALL FLOOR GRILLE

Install cast floor grille on air outlet box. The damper actuator handle should be placed through slotted opening in grille. See Fig. 24.

C. Connecting Electricity.

□ C-1. ELECTRICAL POWER FOR FANS

The fans require 120 VAC, 60 Hz power available at each side of the SuperCirculator. This should already be available through the electrical conduits installed when the foundation was constructed. If not previously installed, determine location for wall switch. Install standard 2 inch deep electrical box and run wiring from both fans to that point. Install green ground screw, provided in bolt bag, in junction box for attachment of ground wire as indicated in Figure 25. Assure that bonding is maintained between junction box, conduit, and ground wire. A single listed 15 amp and 125 volt wall switch should be used.

A SuperCirculator Variable Speed Control is offered for use with this fireplace as an option. Refer to instructions supplied with variable speed control for mounting and electrical connections to control.

NOTE: All wiring and electrical connections should be installed by a qualified electrician in accordance with the national electrical code and other local codes which may apply.

□ C-2. MAKE FINAL ELECTRICAL CONNECTION TO FANS.

Remove grilles from both sides of unit, exposing fans and field supplied wiring previously installed, if not previously mounted, install conduit clamp and secure nut to retain. Starting on one side of the unit, connect the ground wire from the power to the ground stud on the exterior wall of the enclosure with one of the supplied retaining nuts. Feed the two (2) black fan leads through the grommeted hole in the top of the junction box cover. Using the supplied wire nuts, connect the ends of the white and black power leads to the fan leads, making sure the wire nuts are tight to the leads. Position junction box cover against bottom back and side of compartment, enclosing wire connections. Secure in place with screw provided through flange on front of junction box cover. Refer to Fig. 25 for wiring diagram.

Replace grille on unit. Repeat procedure for electrical connection on opposite side of unit. Electrical connection for fans is now complete.

For servicing fans after installation, access is gained by removing grilles and following above steps.

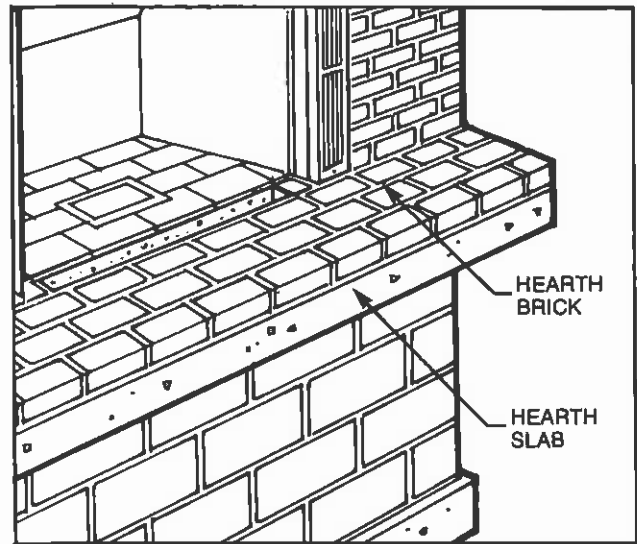


Fig. 23. Finish covering hearth slab.

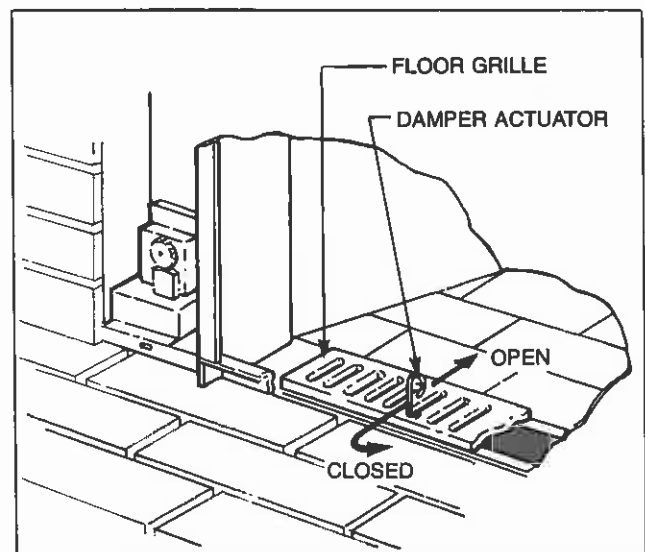


Fig. 24. Installing grille.

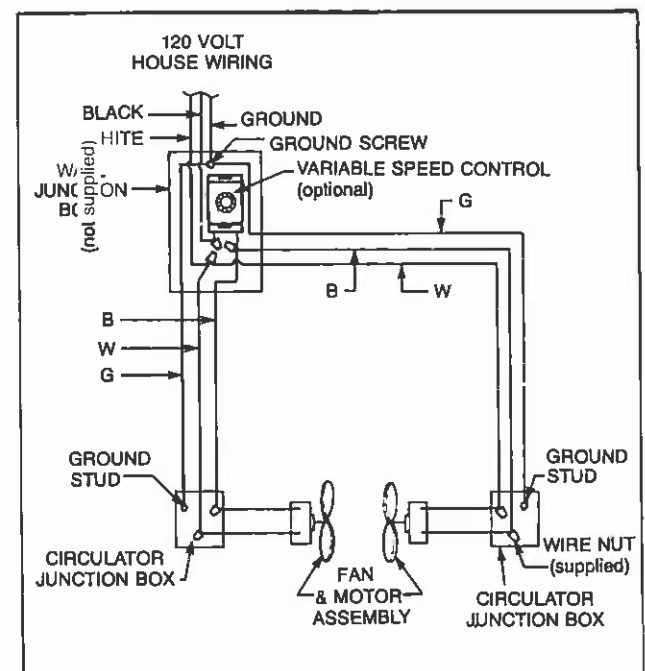


Fig. 25 Wiring Diagram.

SECTION II.

CARE & OPERATING PRECAUTIONS.

The following precautions provide a quick reference to safe MAJESTIC SuperCirculator operation.

1. Make sure that all passageways of the chimney are clear and unobstructed.
2. Never use liquid fuels, especially gasoline or liquid fire starters. These types of liquids should never be stored in the vicinity of the SC4850 Circulator.
3. Never burn scrap lumber or pine branches, since these produce dangerous sparks. Never burn trash, refuse, artificial logs, plastic, waste materials, flame colorants, soot cleaners, and other chemicals or compounds. They may contain or may form by-products which may be noxious to you or corrosive to your system.
4. Always open the SuperCirculator flue damper before lighting a fire and keep it fully open while the fire is burning. Do not close the damper until the fire is completely out and smoking has stopped.
5. Always use care in adding fuel to the Circulator or using tools such as shovels, tongs, pokers, etc.
6. **CAUTION: Never let anything obstruct the air inlet or outlet ducts as this may cause a fire hazard. Maintain a minimum clearance of 2 feet from the upper air outlet to furniture, drapes, etc. The air leaving this area can be very hot.**
7. Always remain in attendance while the fire is burning.
8. Remember, the Circulator (grilles and doors, etc.) is hot during operation and should not be touched. Small children and pets should not be allowed near the Circulator while it is hot.
9. Disposal of Ashes — Ashes should be placed in a metal container with tightfitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground, out-of-doors, well away from all combustible materials, pending final disposal. If the ashes are disposed by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.

Your First Few Fires.

Care should be taken that no fire is built in the Circulator until the mortar is thoroughly dry! This will take at least 2 to 3 weeks.

Make sure that all passageways of the Chimney system are clear and unobstructed.

Open damper outside air control. Open doors and place a small amount of paper and kindling on the hearth or grate. Place small split logs on the kindling and light the paper. After the kindling has started burning, the doors may be closed.

CAUTION: Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or "freshen up" a fire in this unit. Keep all such liquids well away from the SuperCirculator while it is in use.

The paint used on the Circulator must be cured for proper operation. Build small fires to bring all components slowly up to operating temperatures. Some smoking and paint curing may occur during this period.

Tending the fire.

Always remain in attendance while the fire is burning. The Circulator is designed to burn wood with a grate.

Always use care when adding fuel to the Circulator. Never burn scrap lumber or pine branches, since these produce dangerous sparks. Never burn trash, refuse, artificial logs, plastic, waste materials, flame colorants, soot cleaners, and other chemicals or compounds. They may contain or may form by-products which may be noxious to you or corrosive

to your system.

To maintain a longer fire, use a seasoned, hard wood. **Do not overfire.**

Fan Operation

The dual fans supplied with your MAJESTIC SuperCirculator will improve the forced convection heating system. They will provide heat extraction from the heat exchanger passage; in the sides and back of the unit.

The optional variable speed control can be used to adjust fan speed and vary the heat output. Turn switch clockwise for fan operation. Maximum heat output and high fan speed is obtained when the switch is first turned on. As the dial is rotated clockwise, the fan speed is reduced. Turn dial counterclockwise until click is felt to turn fans off. Fan operation will depend on your heating needs. A little experimenting will enable you to select the proper fan operation to maintain the comfort level desired.

Glass Doors & Firescreen.

The MAJESTIC SuperCirculator is provided with firescreens and glass doors. The unit can be operated with the doors open or closed. Your Circulator will operate more efficiently in the door closed mode.

If the Circulator is operated with doors open, the firescreens supplied with the unit must be closed to reduce the chance of hot embers or sparks leaving the firebox.

If glass gets smudged, clean with water and cleaning agent such as a non-abrasive cleanser.

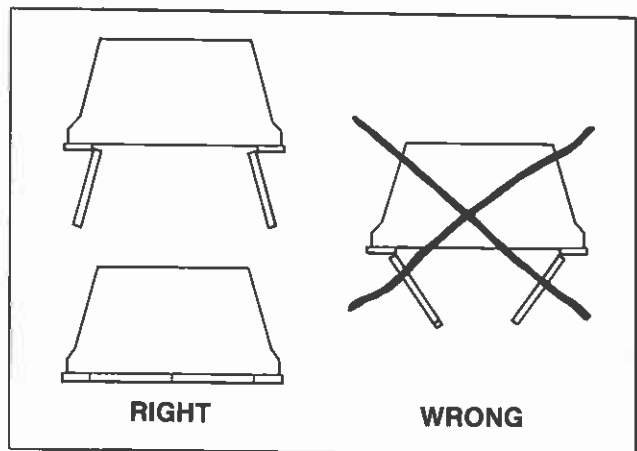


Fig. 26. Top view of glass door position.

WARNING: 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.

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

When coal is burned, the products of combustion combine with moisture to form a soot residue which accumulates on the flue lining. When ignited, this soot makes an extremely hot fire.

The chimney should be inspected at least twice monthly during the heating season to determine if a creosote build-up has occurred.

If creosote or soot has accumulated, it should be removed to reduce the risk of a chimney fire. The best prevention of creosote is to fire the insert in its medium to upper ranges using well seasoned hardwood. This can dry out and flake off creosote that may have built-up.

MAINTENANCE INSTRUCTIONS.

How to Care for your Majestic SuperCirculator.

Your MAJESTIC SuperCirculator is built to operate trouble-free with little need for extensive time-consuming maintenance chores on your part. As with any such piece of equipment, however, your Circulator will operate better and give longer service if a few basic housekeeping procedures are followed.

First, keep your MAJESTIC SuperCirculator and its key parts clean at all times. In addition, the following housekeeping procedures are recommended. They are divided into three different times when you should care for your Circulator.

A. Before Each Use of the Circulator.

Inspect the firebox to be sure it is clean and ready for use. Remove excessive ashes and dispose of properly. Remove grate on air inlet box and remove ashes if present. Replace grate.

B. In the Fall Before the First Seasonal use of the Circulator.

1. Inspect the roof in the area of the chimney and remove any obstructions of foreign material.
2. Inspect the chimney top if used and remove any obstruction (bird nests, animal nests, large leaves, etc.) that may have accumulated during the summer. If the chimney top has a screen (bird guard), clean it thoroughly.
3. Inspect the flue for obstructions (bird nests, animal nests, leaves, etc.) and remove them if any are found.

C. In the Spring After the Last Seasonal Use of the Circulator.

1. Inspect the chimney top. Remove any foreign objects that may have collected in them. Be careful to avoid sharp edges that could cut your hands (wear gloves).
2. Inspect the flue for obstructions by removing the top or by looking up from inside the fireplace. If you find any obstructions, they usually can be removed by pushing them down through the flue with a long pole from the roof. They can be removed through the fireplace opening. Before starting this operation, however, be sure to seal off the fireplace front to keep soot out of the room.
3. After any obstructions have been removed, inspect the inside of the flue for excessive soot accumulation. Clean if necessary.
4. Replace the chimney top.
5. Remove all wood from inside your wood storage area and stack outside to dry. Clean out all debris (bark, splinters, sawdust, chips, etc.) from this area. (It makes good mulch around garden hedges and bushes.) If the firewood and debris are left in the wood storage area over the summer, it can bake tinder-dry. Although a rare occurrence, such an environment can cause a fire start.

REFERENCE DATA

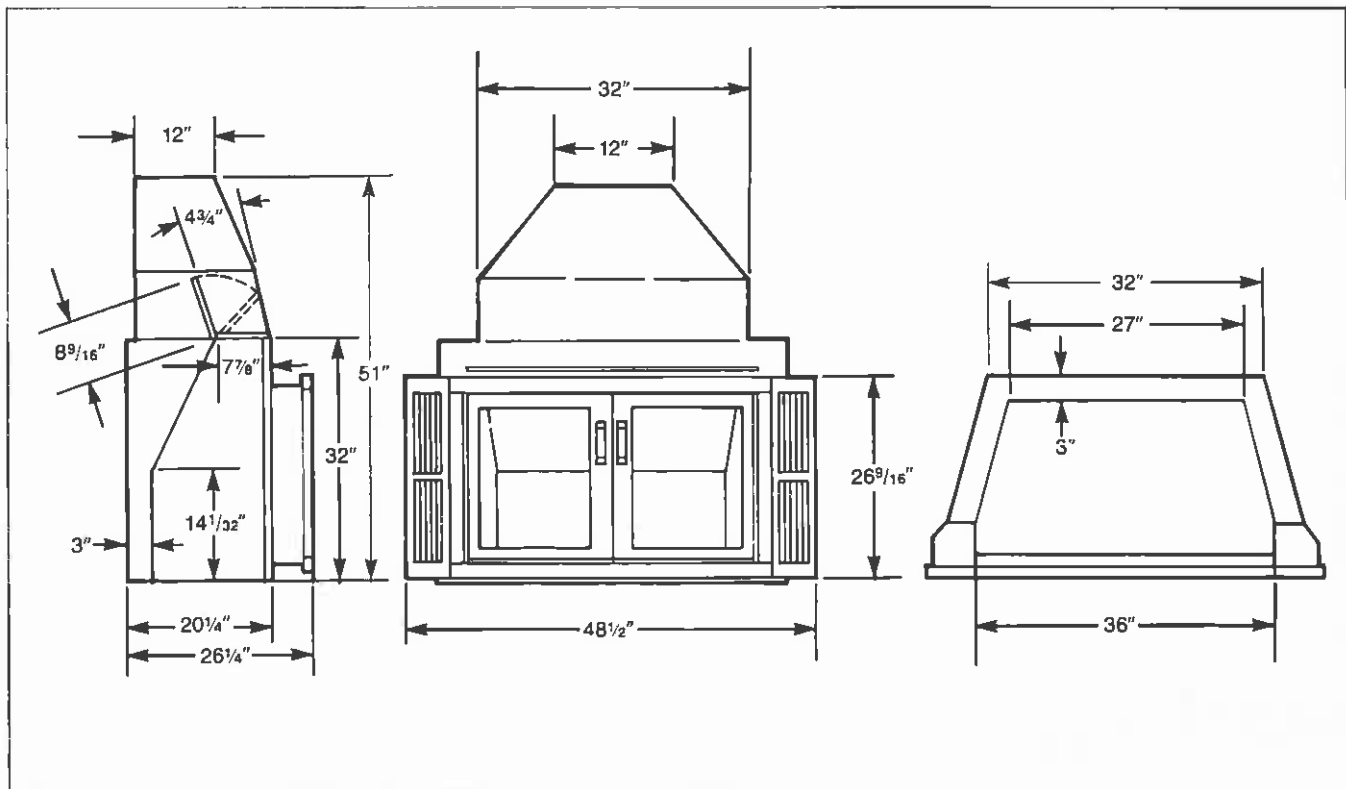






Fig. 27. Dimensions of SC4850 Super Circulator.

ACCESSORY PARTS

	MODEL NO.	DESCRIPTION
BRASS TRIM KIT	SCT-BRS	Used on SC4850 door and frame assembly.
FIREPLACE ASH DUMP 	49	4½" x 9" floor opening needed, steel construction.
FIREPLACE CLEANOUT AND ASH PIT DOORS 	80R	Wall Opening 7½" W x 7½" H. Overall Size. 10 ⁷ / ₁₆ " x 10 ⁷ / ₁₆ "
SUPERCIRCULATOR VARIABLE SPEED CONTROL 	SCVS	Variable speed control for fans.
SUPERCIRCULATOR JOIST SHIELD 	SCJS	Used when passing through roof joists.

MAJESTIC®

Huntington, Indiana 46750 219/356-8000

74-12-236 SCII/1084

INSTALLATION MANUAL

for the MAJESTIC[®]
CIRCULATOR FIREPLACE
MODELS: MC3200, MC3600, MC4200, MC4600



IMPORTANT: Read all instructions carefully before starting installation. Failure to follow these installation instructions may result in a possible fire hazard and will void the MAJESTIC warranty.

THIS UNIT MUST BE TOTALLY ENCLOSED IN MASONRY CONSTRUCTION. IT IS NOT A ZERO CLEARANCE FIREPLACE.

Save this manual for future reference.

MAJESTIC[®]

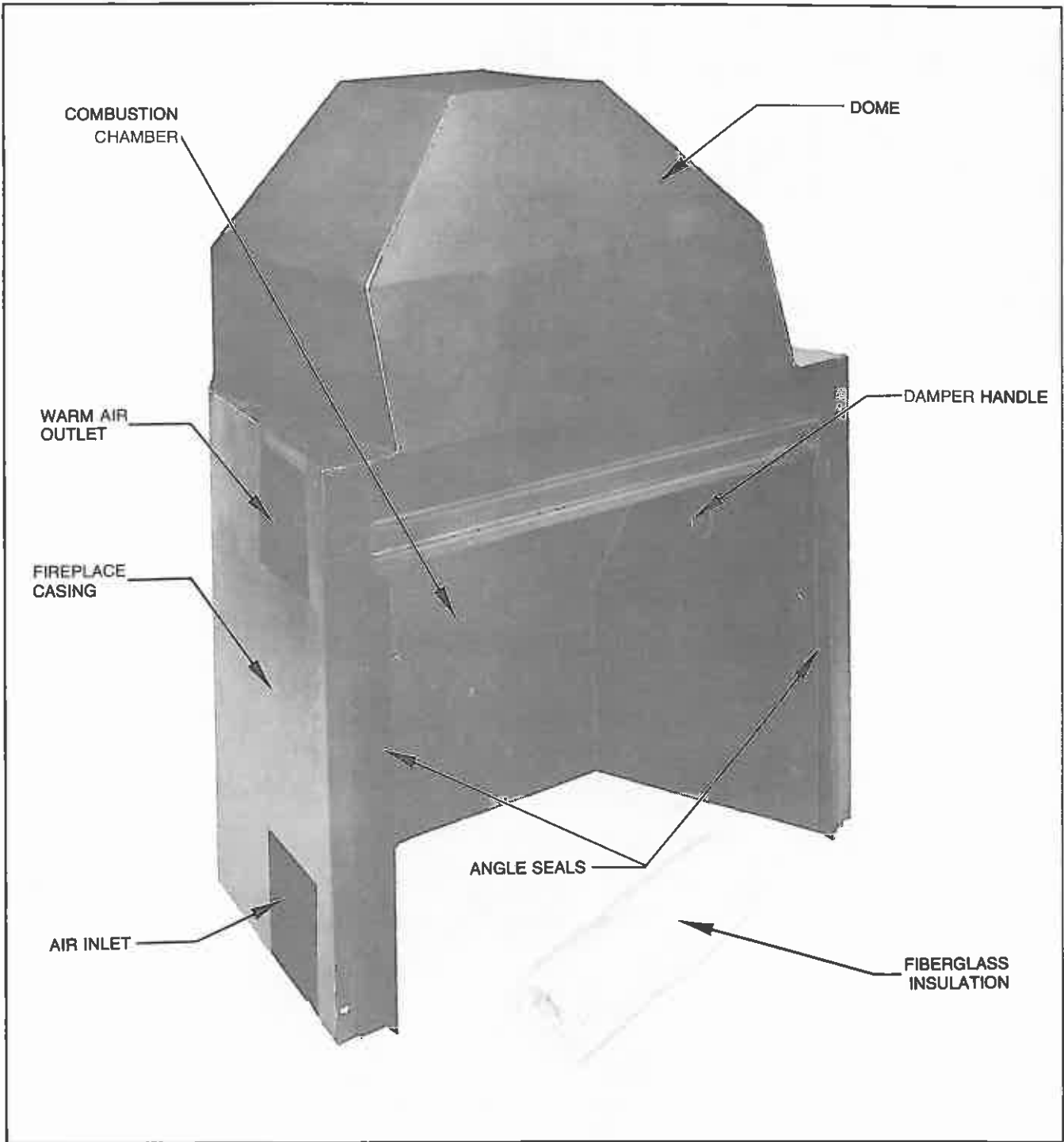


Fig. 1. Identification of Parts.

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2 IDENTIFICATION OF PARTS

INSTALLATION PRECAUTIONS

This MAJESTIC Circulator Fireplace and its components are tested and safe when installed in accordance with this Installation Manual. It is your responsibility to read all instructions before starting installation and to follow these instructions carefully during installation to assure maximum benefit from and safe operation of the fireplace.

If you make any modification on the MAJESTIC Circulator, you may possibly cause a fire hazard and will void the MAJESTIC warranty. In addition, such action may void the coverage provided by the owner's house insurance.

Consult the local building codes and investigate the requirements for installing a factory-built fireplace. Failure to comply with these requirements can result in the installation being disapproved by the local building inspector.

The MAJESTIC Circulator serves as a form around which to build the fireplace masonry. The Circulator is **not** to be used as a support for the masonry. All masonry must be self-supporting.

The MAJESTIC Circulator must be completely covered with fiberglass wool (provided with the unit). Fiberglass fills the void between the unit and the surround masonry. Masonry must not come closer to the unit than ½ inch. This allows the sheet metal casing of the Circulator to expand and contract without cracking the masonry.

Return air inlets and warm air outlets must be used with every Circulator. Air must circulate through the fireplace casing.

Optional Circulator Fans must be installed in the lower cold air return boxes — Never in the top warm air boxes.

Foundation walls should be at least 8 inches to 12 inches thick. The footing should extend beyond the outer foundation wall at least 6 inches on all sides.

A hearth extension must project at least 12 inches on either side of the fireplace opening and 20 inches in front of that opening.

The hearth extension must be a minimum of 4-inch-thick non-combustible material. It must be supported or reinforced by non-combustible materials so as to support its own weight as well as any additional loading.

Combustible mantels may have projections of no more than: 8 inches out from the face of the fireplace at a minimum of 54 inches above the hearth floor; or 4 inches out from the face of the fireplace at a minimum of 48 inches above the hearth floor.

A combustible side wall, at a right angle to the fireplace opening, must be a minimum of 36 inches from the fireplace opening for MAJESTIC Circulator Models MC3200 through MC4600.

You must maintain at least 12 inches clearance from the warm air outlet grille to any adjacent combustible (burnable) materials or ceilings. For ducting to an adjoining room, the wall adjacent to the MAJESTIC Circulator must be of non-combustible construction. The warm air outlet ducts must not be connected to any existing duct work.

Combustible materials must maintain a clearance of 2 inches when the chimney is constructed entirely within the home, or 1 inch when the chimney is built entirely outside the structure. One-half-inch gypsum board may be substituted for the 1 inch clearance between the chimney and an exterior wall.

Chimney and flue tile must not rest on the Circulator. This allows the sheet metal casing of the Circulator to expand and contract without cracking the flue tile.

Seal the crack between the Circulator and the flue tile with Fiberglass insulation.

The chimney must extend at least three feet above a flat roof, or two feet above any part of a roof, roof ridge, or wall which is located within ten feet of the chimney.

A chimney cap is recommended as a safeguard against the elements.

INSTALLATION INSTRUCTIONS

A. Locating the Fireplace.

□ A-1. DETERMINE FIREPLACE LOCATION

Good planning is very important for a satisfactory installation. Therefore, at this time, you should decide what components you want to include in your installation, where the fireplace is to be located and how the chimney will be routed to the roof. Consult your Majestic Dealer for assistance with this planning.

Try to avoid locating the MAJESTIC Circulator Fireplace across the room from a door which leads to the outside. When this door is opened, it is possible for a gust of wind to blow into the room. This can cause the fireplace to discharge smoke out into the room from the firebox opening.

Try to avoid locating the MAJESTIC Circulator Fireplace near a forced air furnace, return air register. This can cause a chimney downdraft, resulting in smoke being pulled from the fireplace and out into the room.

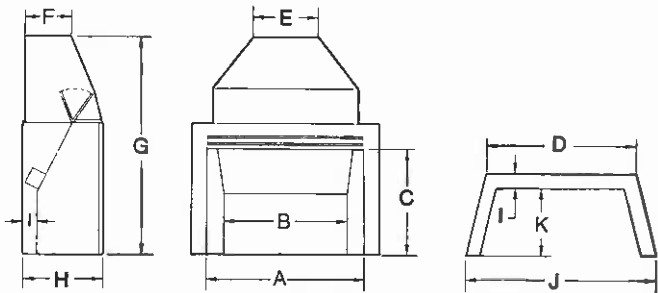
Also try to avoid locating the MAJESTIC Circulator Fireplace near a stairway which leads to the floor above, unless there is a door which closes that stairway off. Otherwise, the warm air from the fireplace will rise to the floor above without adequately heating the room in which the fireplace is located.

□ A-2. GENERAL DIMENSIONS — Circulator Fireplace

The general dimensions of the various models of MAJESTIC Circulator Fireplaces are found in Table I. These will assist you in planning, along with a detailed dimensional home plan.

TABLE I

Model No.	DIMENSIONS										
	A	B	C	D	E	F	G	H	I	J	K
MC3200	32"	23"	24½"	28½"	12"	8"	47½"	19¼"	3"	38¼"	16"
MC3600	36"	27"	25¾"	32"	12"	12"	51"	20¼"	3"	43"	17"
MC4200	42"	32¾"	27¾"	38¾"	17"	12"	56"	20¼"	3½"	49¼"	17"
MC4600	46"	36¼"	29"	43"	17"	12"	60"	22¼"	4"	55"	18"



□ A-3. GENERAL DIMENSIONS — Minimum Foundation and Footing

The dimensions for foundations required for the various models of MAJESTIC Circulator Fireplaces are found in Table II. These dimensions, are **Minimum**, and for common brick of a minimum width of 3 inches. It is best to figure the foundation size based on the materials being used. There are many sizes of decorative brick and other non-combustible materials.

Add to the foundation dimensions where extra flues are incorporated.

The height of the foundation determines the level of the fireplace hearth. Plan the foundation height to accommodate the fireplace hearth in relation to the floor. Remember to deduct the thickness of the firebrick hearth and hearth slab from the foundation height. Foundation walls should be at least 8 to 12 inches thick.

Footings should extend 6 inches beyond on all sides of the outer foundation walls.

Consult your local building codes for specific requirements on footing and foundation. In general, footings should be located below the frost line, usually 30 inches below the ground surface.

□ A-4. DETERMINE FLUE SIZE

The recommended flue size for each model of the MAJESTIC Circulator Fireplace can be found in Table III. Check this Table to insure that the flue size you have chosen is adequate for the proper functioning of the fireplace.

NOTE: The height of the fireplace opening is specified for an average flue height of 20 feet. If the height of the flue is less than 20 feet, the height of the fireplace opening must be reduced by lowering the lintel 1 inch for every unit of 5 feet the flue is less than 20 feet.

Flue size ratios to fireplace opening areas are as follows:

- Chimneys over 20 feet 8%
- Chimneys at 20 feet 10%
- Chimneys under 20 feet 12%

These are general rules which do not assure smoke-free operation. Other factors such as lightness of the home, wind patterns, location of surrounding trees, affect the fireplace operation.

□ A-5. DETERMINE GRILLE LOCATIONS

At this point in the planning of your MAJESTIC Circulator Fireplace installation, determine the desired location of the cold air inlet grilles and the warm air outlet grilles.

Figure 2 provides some suggestions of the most efficient inlet and outlet grille locations.

When the MAJESTIC Circulator Fireplace sits entirely outside the wall with the fireplace opening flush with that wall, it is necessary for the grilles to be placed on the front facing of the fireplace.

With the fireplace inset in the room, the inlet and outlet grilles may be placed on the side facings, the front facing, or a combination of facings of the fireplace.

The cold air inlet grilles, (lower ones), should be at the hearth level floor line. The warm air outlet grilles, (upper ones), should be placed at mantel height for best operation. Masonry ducts may also be constructed for discharging warm air from the Circulator into an adjoining room.

Individual masonry ducts must be built from the Circulator inlet and outlet openings, to their respective inlet and outlet grilles. These ducts should be continuous and as smooth as possible to reduce air loss and flow restriction.

Maintain at least 12 inch clearance from the warm air outlet grille to any adjacent combustible materials or ceilings. For ducting to an adjoining room, the wall surrounding to the ducting must be of non-combustible construction.

Outlet ducts may not be connected to any existing duct work.

TABLE II

Model No.	Grilles on End of Fireplace							Grilles on Front of Fireplace						
	A	B	C	D	E	F	G	A	B	C	D	E	F	G
MC3200	56"	35½"	12"	29½"	20"	56"	4½"	72"	29"	20"	0"	20"	72"	4½"
MC3600	60"	36½"	12"	29½"	20"	60"	4½"	76"	30"	20"	0"	20"	76"	4½"
MC4200	66"	37½"	12"	29½"	20"	66"	4½"	82"	31"	20"	0"	20"	82"	4½"
MC4600	70"	38½"	12"	29½"	20"	70"	4½"	86"	32"	20"	0"	20"	94"	4½"

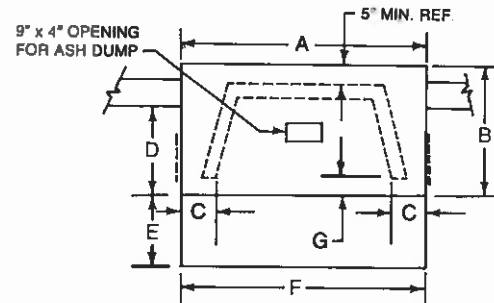


TABLE III

Model No.	ALL DIMENSIONS ARE OUTSIDE					
	FLUE SIZES				Modular Flue Sizes Rectangular	Min. Inside Flue Area Sq. Inches.
	Chimneys over 20'		Chimneys under 20'			
	Rect.	Rd.	Rect.	Rd.		
MC3200	8½" x 13"	10"	8½" x 18"	12"	12" x 12"	75"
MC3600	13" x 13"	10"	13" x 13"	12"	12" x 16"	75"
MC4200	13" x 13"	12"	13" x 13"	12"	12" x 16"	114"
MC4600	13" x 13"	15"	13" x 13"	15"	16" x 20"	114"

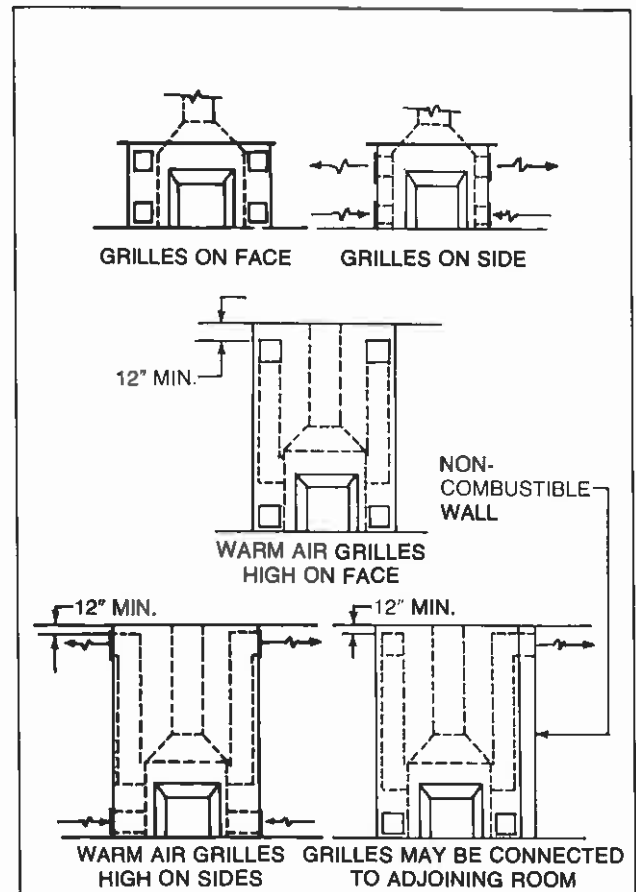


Fig. 2. Determining grille locations.

□ A-6. CHECK CLEARANCES

Review all clearance requirements.

A hearth extension must project at least 12 inches on either side of the fireplace opening and 20 inches in front of that opening.

Combustible mantles may have projections of no more than: 8 inches out from the face of the fireplace at a minimum of 54 inches above the hearth floor; or 4 inches out from the face of the fireplace at a minimum of 48 inches above the hearth floor.

A combustible side wall, at a right angle to the fireplace opening, must be a minimum of 36 inches from the fireplace for MAJESTIC Circulator Models MC3200 through MC4600.

Combustible materials must maintain clearance of 2 inches when the chimney is constructed entirely within the home, or 1 inch when the chimney is built entirely outside the structure.

One-half-inch gypsum board may be substituted for the 1 inch clearance between the chimney and an exterior wall.

The chimney must extend at least three feet above a flat roof, or two feet above any part of a roof, roof ridge, or wall which is located within ten feet of the chimney.

□ A-7. PLAN ACCESSORIES

Now is the time to plan for all accessories intended to be incorporated in your fireplace, such as Circulator Fans, providing for outside air through COAK-1 Outside Air Kit or Majestic ventilating brick and ash dump, cleanout doors for the ash pit, etc. Read all pertinent installation instructions to familiarize yourself with each accessory's function, installation and time of installation relative to the primary Circulator Installation.

You may wish to check the Accessory Parts listing at the end of this Circulator Installation Manual, or consult your Majestic Dealer for assistance with this planning.

B. Installing the Fireplace

□ B-1. INSPECT CIRCULATOR

Inspect the MAJESTIC Circulator to insure that the Fiberglass Wool insulation and other components are on hand. Do not install the fireplace without the Fiberglass Wool insulation or angle seals. (See Fig. 1).

Before installing the MAJESTIC Circulator Fireplace, test the Damper. The Damper Blade should hold in any position that the Damper Lever is set. If too loose, tighten the Lock Nut sufficiently so that tension holds the Damper in position.

□ B-2. POUR FOOTINGS

Refer to Fig. 3 for footing dimensions. Also consult your local building codes. The footing should extend beyond the fireplace foundation at least 6 inches on all sides. It should be located below the frost line, typically 30 inches below ground surface. After having determined the appropriate dimensions, pour the concrete footing. Make sure it is level.

□ B-3. BUILD FOUNDATION

The dimensions for foundations required for various models of MAJESTIC Circulator Fireplaces are also found in Table II. These dimensions are minimum and for common brick having a minimum width of 3 inches. It is best to figure foundation size based on the materials being used. Add to the foundation dimensions where extra flues are to be incorporated.

The height of the foundation determines the level of the fireplace. Remember to deduct the thickness of the firebrick hearth and hearth slab from the foundation height.

The foundation may be constructed either of concrete blocks or poured concrete or common brick. If Circulator Fans are used, conduit must be incorporated into the hearth slab. (See Fig. 4). Provide for optional clean-out door and vent brick openings when laying foundation. (See Fig. 5)

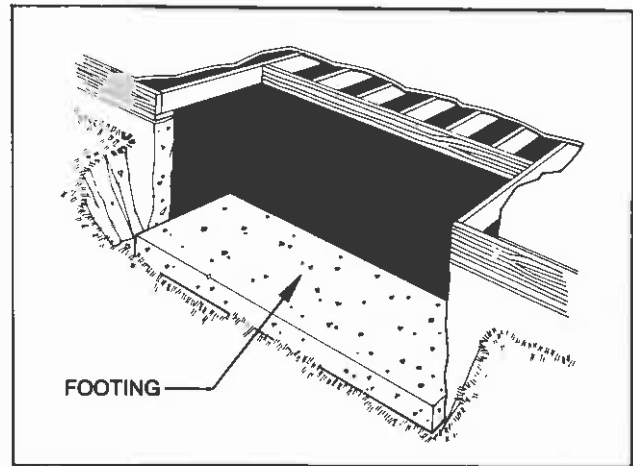


Fig. 3. Pour footings

TABLE IV

Model No.	END GRILLE		FRONT GRILLE	
	X	Y	X	Y
MC3200	23"	10"	27"	5"
MC3600	25"	10"	29"	5"
MC4200	28"	10"	32"	5"
MC4600	30"	10"	34"	5"

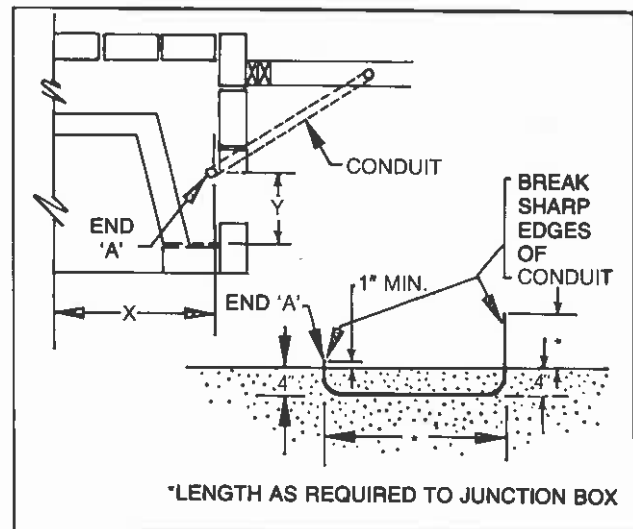


Fig. 4. If circulator fans are used, install conduit as shown in foundation.

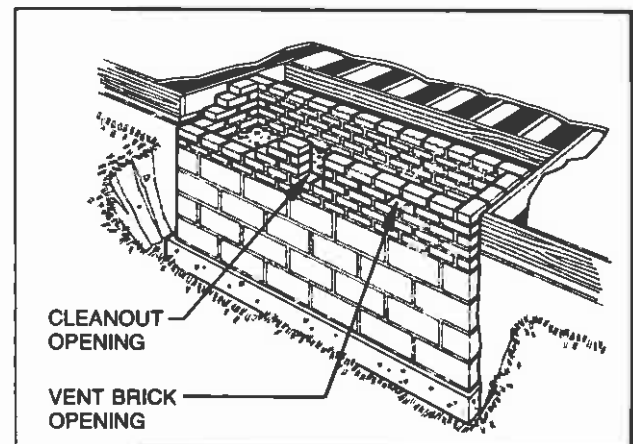


Fig. 5.

□ B-4. INSTALL VENT BRICK

To provide replacement air for a modern, air-tight home, and to give the Circulator a sufficient amount of air for combustion, an outdoor vent may be installed. See Accessory Parts Section. This brick is connected to the ash pit.

Set the vent brick level with the top of the cleanout door, (See Step B-5), in the outside foundation wall. It should be several inches above ground surface, as illustrated in Fig. 6. This prevents blockage from earth and snow.

□ B-5. INSTALL CLEAN-OUT

To provide for removal of ash accumulation, a clean-out door in combination with an ash dump may be installed. See Accessory Parts Section at the end of this manual.

The clean-out door is set into the foundation with mortar as shown in Fig. 6. On outside walls the clean-out door should be several inches above ground level.

If located on an inside foundation wall, the clean-out door should be located for easy access for removal of ashes.

□ B-6. FILL FOUNDATION

Fill the foundation cavity with loose non-combustible materials such as stones, brick chips and rubble to approximately 6 inches below the vent brick and clean-out door.

□ B-7. BUILD HEARTH SLAB AND EXTENDED HEARTH

The hearth slab and extended hearth should be built at the same time. Use concrete or concrete blocks. The extended hearth must project at least 12 inches on either side of the fireplace opening and 20 inches in front of that opening.

NOTE: Before pouring hearth slab, read Steps B-8 and B-9.

The extended hearth and hearth slab must be supported or reinforced by non-combustible materials so as to support its own weight as well as the additional loading of Circulator, brick and flue. (See Fig. 7).

Support the extended hearth and hearth slab on the front wall of the foundation. Use a lintel built into the foundation to support the rear and sides of the hearth slab. (See Fig. 7).

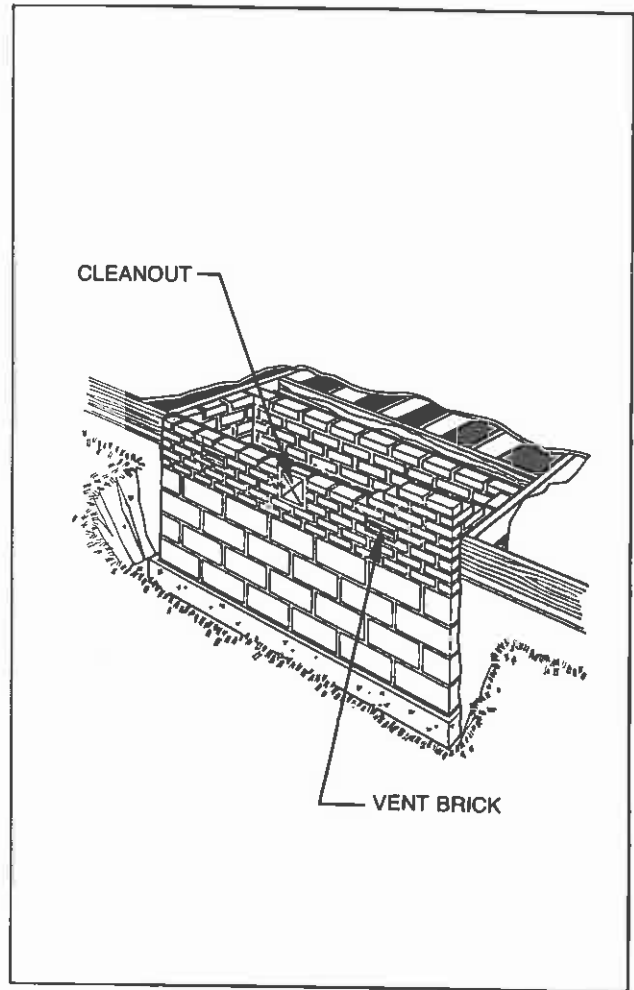


Fig. 6. Install ventilator and clean-out

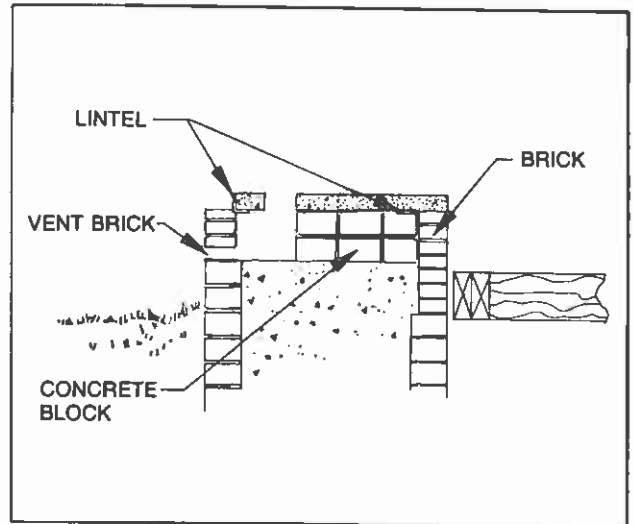


Fig. 7. Support extended hearth & hearth slab.

□ B-8. PREPARE ASH DUMP

To provide for easy removal of ash accumulation in the fireplace hearth as well as to provide make-up air for combustion, an optional ash dump may be installed. See Accessory Parts Section.

Prepare a 4½ inch by 9 inch opening in the center of the hearth slab.

Do not install the ash dump at this time. It is installed after the firebrick is laid in place. (See Fig. 8).

□ B-9. PREPARE CIRCULATOR FAN WIRING

If Circulator Fans are to be used in this installation, electrical wiring capable of handling 120 VAC, 60 Hz, 5.0 Watts, must be installed by a qualified electrician.

Pull the wiring through the conduit which was installed at the pouring of the foundation. Allow an ample amount of wiring to facilitate ease of attachment with the fan wires. (See Fig. 4).

□ B-10. CEMENT HEARTH FIREBRICK

Cement the hearth firebrick to the concrete slab with a non-combustible adhesive, leaving approximately ⅛ inch joints.

The first row of firebrick should be positioned even with the planned front edge of the Circulator.

Cover the concrete hearth slab with enough firebrick area to adequately support the Circulator.

If an ash dump is intended to be used, remember to leave the 4½ by 9 inch opening in the firebrick. (See Fig. 9.)

□ B-11. INSTALL ASH DUMP

Insert the flanges of the ash dump into the opening, (4½ inch by 9 inch), in the hearth firebrick. The edges of the ash dump overlap the firebrick, supporting the ash dump. It is not necessary to cement the ash dump in place.

Test the operation of the ash dump to insure that it works properly. (See Fig. 10).

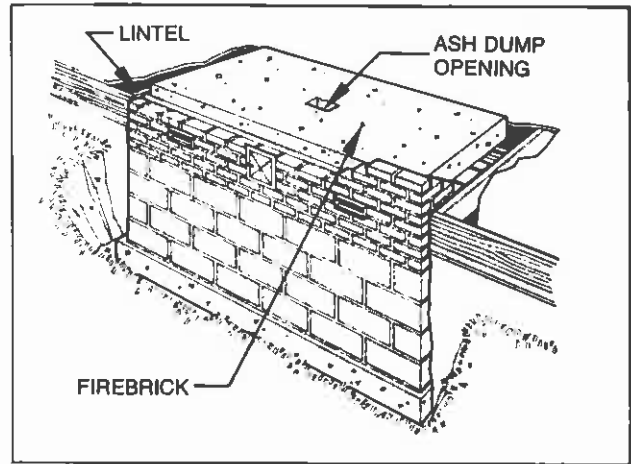


Fig. 8. Prepare an opening in hearth slab.

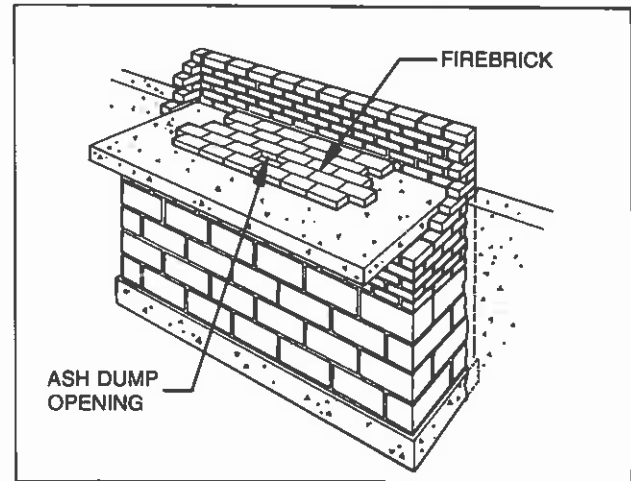


Fig. 9. Cover hearth slab with firebrick.

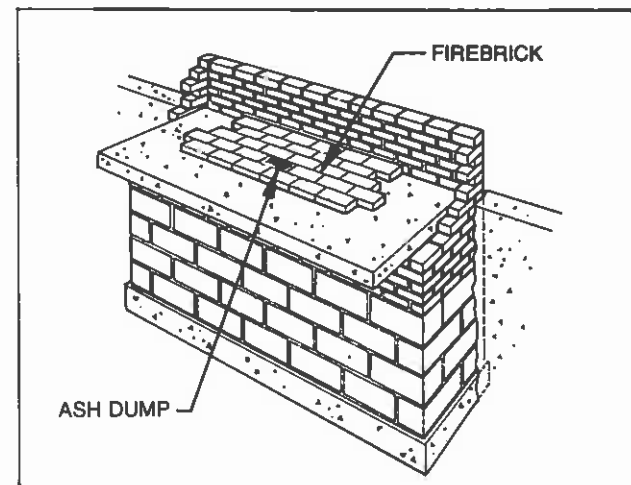


Fig. 10 Install ash dump.

□ B-12. SETTING CIRCULATOR IN PLACE

At this point, set the MAJESTIC Circulator In position on the firebrick hearth.

Remove the two angle seals, (wired inside one of the top warm air outlets).

Apply a thin coat of firebrick cement to the front edges, ends, and back of the Circulator about 18 inches high or the width of the insulation.

Starting at one side of the fireplace opening, wrap the insulation completely around the Circulator. Attach one angle seal with metal screws to the fireplace clamping the fiberglass insulation between the angle seal and the Circulator. (See Fig. 11). Attach the remaining angle seal, also pinching the insulation between the angle seal and the Circulator, then cut the insulation.

Make cut-outs in the insulation at the air inlets and outlets. Use a sharp knife to make these cutouts.

Return air inlets and warm air outlets must be utilized with every Circulator! Air must circulate through the fireplace casing.

□ B-13. LAY BRICK

Masonry should not come closer to the circulator than $\frac{1}{2}$ Inch.

HINT: It is always best to lay, loosely, a course of brick (or pieces of other materials being used) on the floor to determine how they will fit together when the course is complete across the fireplace opening — or follow your detailed dimensional home plan.

Using a level, plumb the adjustable angle seals, (installed in Section B-12). These new angle seals have the flexibility laterally of 1" to accommodate various sizes and styles of finish bricks. Tighten down the metal screws firmly.

Using the plumbed angle seals as a starting point, lay the first course of brick against them.

Lay the first course of brick at the outer desired finished dimensions. Also lay a course of brick next to the unit for support of the chimney weight. (See Fig. 12 & 13).

Continue to lay brick, allowing open air passages for the circulating air from the unit to the intended locations of the inlet and outlet grilles, until most of the first layer of fiberglass insulation is covered. These air passages must measure $7\frac{1}{4}$ inches by $7\frac{1}{4}$ inches minimum inside dimension.

Separate masonry air passages must be made between each return air inlet and each warm air outlet to the appropriate openings on the Circulator casing. Inside air passages should be as smooth as possible to assist air flow and reduce air restriction. Air inlet grille boxes should also be installed at this time. Grille louvers must face down. **Do not remove the paper from the grilles until the installation of the Circulator is completed.**

If optional MAJESTIC Circulator Fans and Grilles are intended to be used, make certain that the qualified electrician brings his lead-in wires into both masonry air inlet ducts through the conduit, as shown in Fig. 4.

Apply second section of Fiberglass Wool insulation, as in Section B-12, cover the front of the Circulator, and be sure to make the cut-outs in the insulation for the upper warm air outlet ducts.

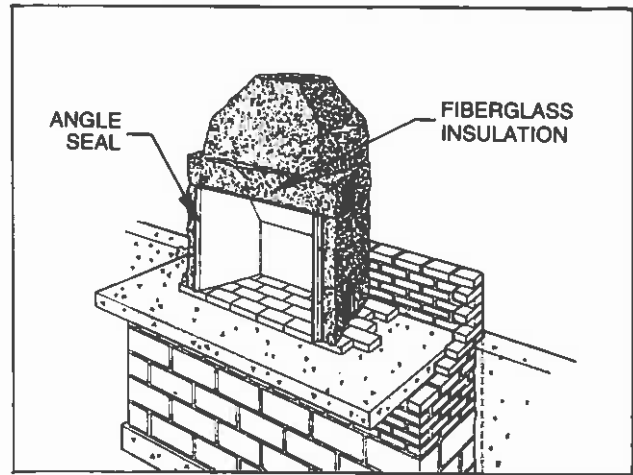


Fig. 11. Wrap insulation around fireplace.

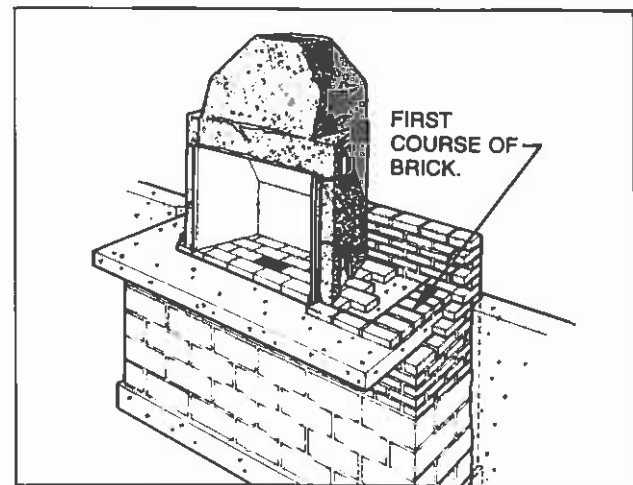


Fig. 12. Lay first course of bricks.

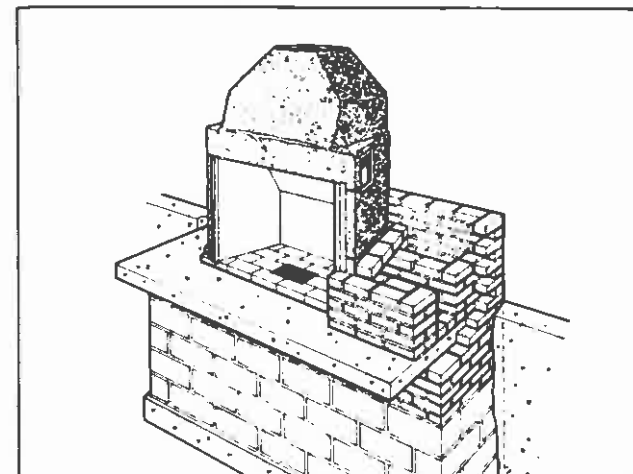


Fig. 13. Lay course next to unit for support.

Continue with the brick work to the bottom of the warm air outlet openings on either side of the Circulator. Construct the warm air outlet passages in the same manner as the inlet air passages, constructed earlier. Install the Circulator Grilles to be used, in the same manner as the cold air return boxes were installed earlier. (See Fig. 14.) Note the warm air outlet grille clearance restrictions, found on Page 6 of this Installation Manual.

□ B-14. SET LINTEL

To support the brick work above the fireplace opening, use a MAJESTIC Lintel, (ordered separately), or a 3½ inch by 3½ inch by ¼ inch angle iron lintel across the top of the fireplace opening. The lintel is supported by the brick on either side of the fireplace, not the Circulator unit. Remember to place a generous supply of fiberglass insulation between the lintel and the Circulator front. (See Fig. 15.)

□ B-15. CONTINUE BRICK WORK

As the masonry is laid up, continue to apply the Fiberglass Wool insulation, (double at all corners), to the casing of the Circulator. Construct an inner wall around the smoke dome at this time, by use of lintels and/or corbelling of brick. Maintain ½ inch clearance between the brickwork and the fiberglass insulation. This inner wall, from the lintel around the smoke dome to the top of the smoke dome, is constructed to support the weight of the chimney. Continue the outer wall. It may continue straight up or be corbelled inward. (See Fig. 16).

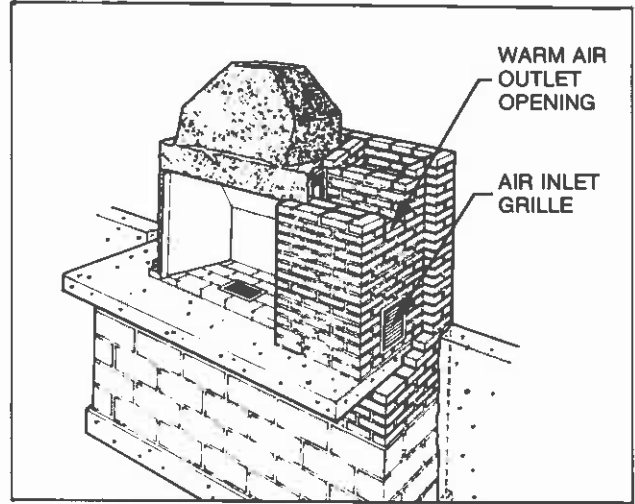


Fig. 14. Install grilles

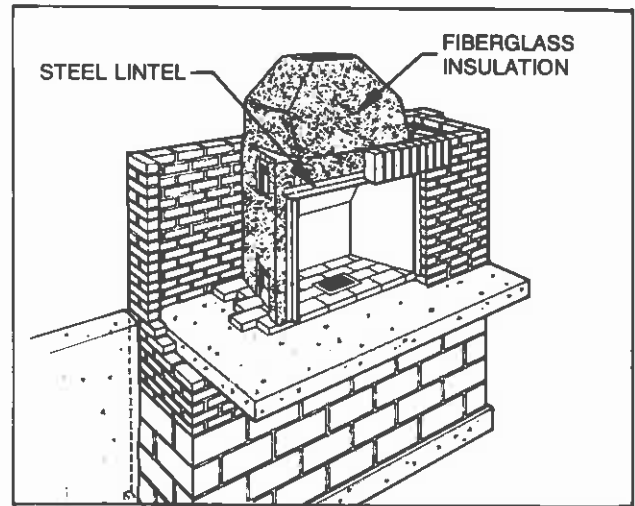


Fig. 15. Set lintel

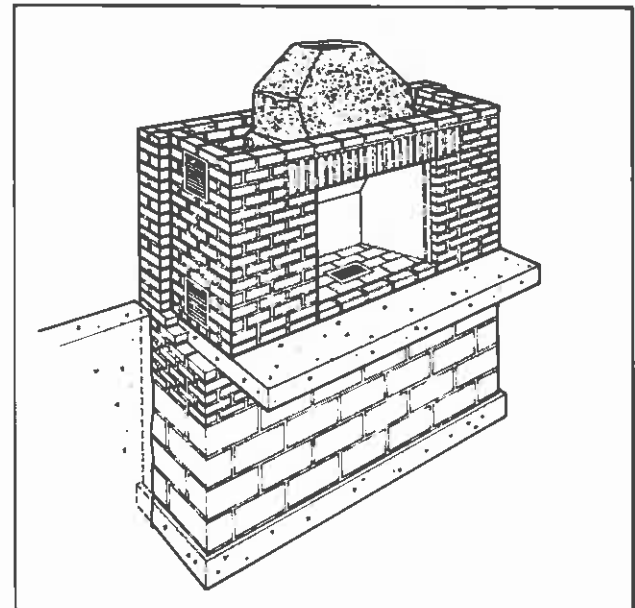


Fig. 16

□ B-16. THE CHIMNEY

The flue tile and brickwork for the chimney must rest on lintels or on corbelled masonry. (See Fig. 17.)

They must not rest on the Circulator!

Allow at least ½ inch space between the flue tile and the top of the Circulator. Use Fiberglass Wool insulation to seal this space.

Continue building the chimney and filling voided areas until the chimney extends at least 3 feet above the high point where the chimney penetrates the roof, or 3 feet above a flat roof. The chimney must always extend 2 feet above any portion of the building or surrounding structure within 10 feet. (See Fig. 18.)

Where two flues are built into the same chimney, let the tile of one of the flues extend 6 to 8 inches above the other flue. (See Fig. 19.)

A chimney cap is strongly recommended as an additional safeguard against the elements. (See Fig. 20.)

□ B-17. FINISH HEARTH EXTENSION

Finish covering the hearth extension slab with the noncombustible material of your choice. (See Fig. 21.)

□ B-18. FINISH INSTALLING INLET AND OUTLET GRILLES

Remove the protective paper from the inlet and outlet grilles. Fasten the grilles to the inlet and outlet boxes with the screws provided. Remember that the grille louvers must face downward.

If MAJESTIC Circulator Fans are to be installed, before replacing the grilles, slide the fan boxes into the cold air return inlet boxes, (fan blade toward Circulator), and connect the electric wires.

Review the MAJESTIC Circulator Fan Installation Instructions for complete details.

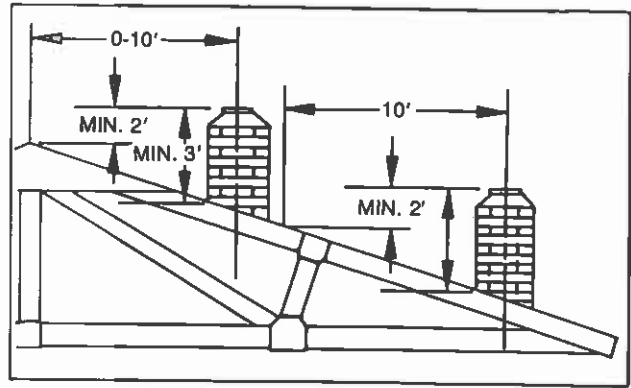


Fig. 18. Ten foot rule.

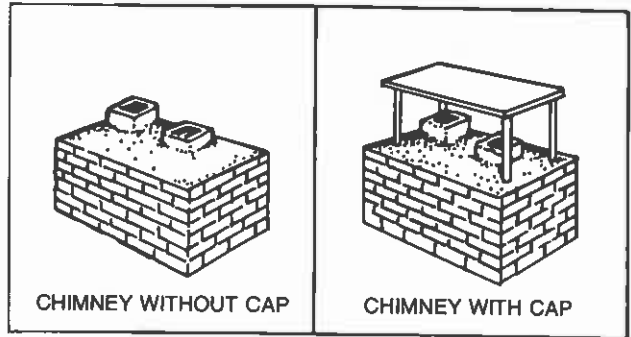


Fig. 19

Fig. 20

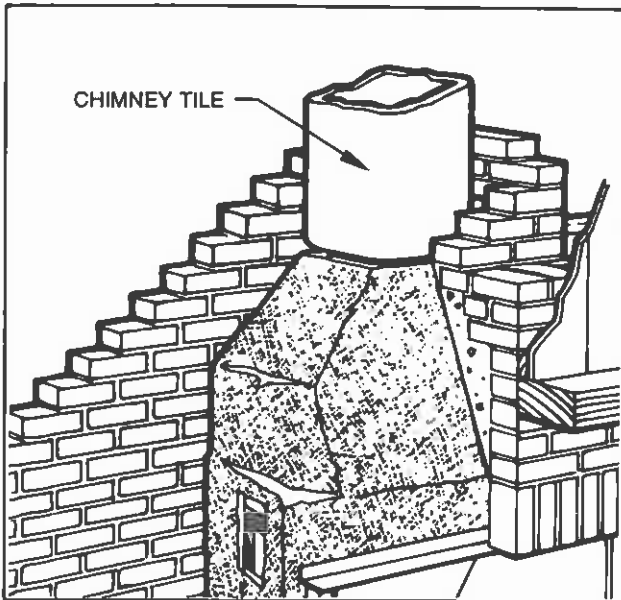


Fig. 17

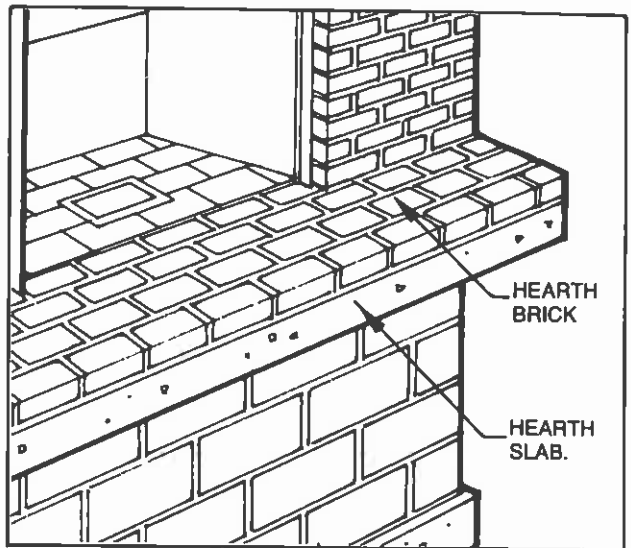


Fig. 21. Finish covering hearth slab

□ B-19. MULTIPLE CIRCULATOR INSTALLATIONS

When two or more Circulator Fireplaces are installed, each fireplace must have its own flue.

For multiple installation, follow the same instructions. All bends in flues must be as gradual as possible. Sharp offsets in flues form draft-reducing edges and allow flying ashes to accumulate, causing the fireplace to smoke. (See Fig. 22.)

□ B-20. FIRST USE

Care should be taken that no fire is built in the Circulator fireplace until the mortar is thoroughly dry! This will take at least two to three weeks.

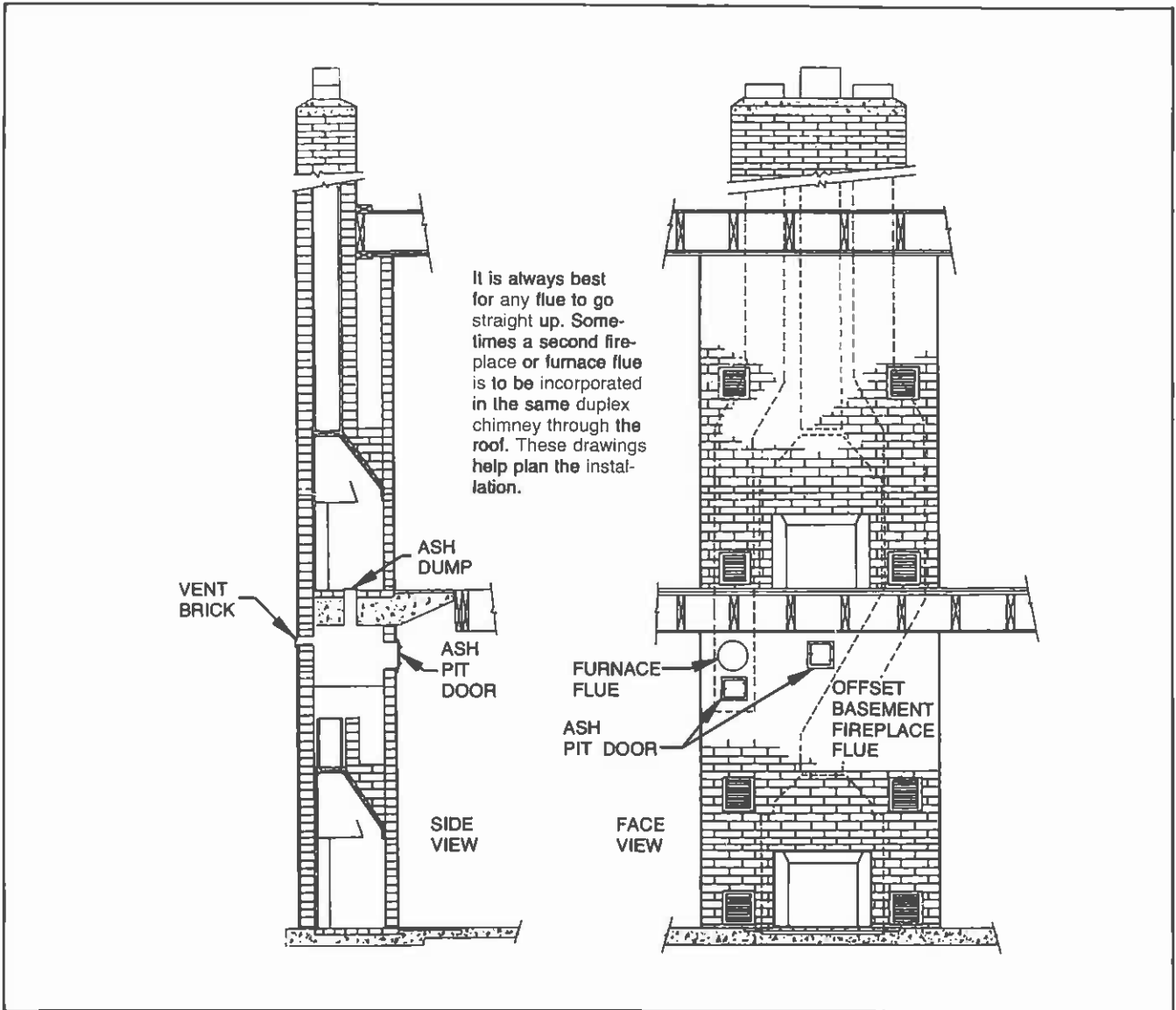
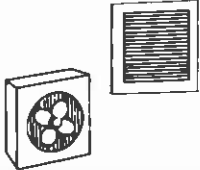




Fig. 22 Multiple Circulator Installations.

ACCESSORY PARTS

	MODEL NO.	Outside Dimensions					
CIRCULATOR FIREPLACE GRILLES AND FAN 	CF88* 1 (8x8)**	Grilles	Box	Used with Circulator			
		9¼" x 9¼"	7¾" x 7¾"				
		120 Volt A.C.Fan					
		*Grilles packed 4 to a carton **Fans packed 2 to a carton.					
FIREPLACE ASH DUMPS 	49	Floor Opening		Type			
		4½" x 9"		Steel			
FIREPLACE CLEANOUT AND ASH PIT DOORS 	80R	Wall Opening		Overall			
		Wide	High	Wide	High		
		7½"	7½"	10 ⁷ / ₁₆ "	10 ⁷ / ₁₆ "		
OUTSIDE AIR KIT	COAK-1	Rough Opening		Overall			
		Depth	Width	Depth	Length	Height	
		3"	30"	4"	31"	11"	

