

OFFSET ELBOW INSTALLATIONS

Special Offset Instructions

To clear any overhead obstructions, you may offset your chimney system using Superior 30° offset and return elbows (Models TF8-30, TF10-30 and TF8-E30, TF10-E30). Use two elbows – an offset elbow to initiate the offset and a return elbow to terminate it.

When offsetting directly off the fireplace, always use a TF10-30 offset elbow. The TF8-SS Starter Section may then be used to convert to the TF8 (8" (203 mm) chimney system).

The offset and return elbow

may be attached together, or a section or sections of chimney in between may be used, but do not exceed 20' (6.1 m) in total length between elbows (see Figure 44). If sections of pipe exceed 10' (3 m) between elbows, a chimney stabilizer must be used at the 10' (3 m) point. The stabilizer support straps must be securely attached under tension (in shear) to structural framing members above (see Figure 31). When two sets of elbows are used, the maximum combined length of chimney used between each set of elbows cannot exceed 20' (6.1 m) (see Figures 45 and 46). Example: If $C_1 = 10'$ (3 m) then C_2 cannot exceed 10' (3 m). A 30° offset elbow, angling in any direction, may

be the first piece of flue pipe off the top of the fireplace flue collar.

Maximum offset of chimney system is 30°. Two offset elbows must not be assembled to form a 60° offset. However, two sets of offset and return elbows may be used on a single flue system, provided the total height of the system exceeds 25' (7.5 m).

Return elbow support straps must be securely attached under tension (in shear) to structural framing members above (Figure 47 Page 18). Do not substitute a TF8-30 or TF10-30 offset elbow in place of a TF8-E30 or TF10-E30 return elbow.

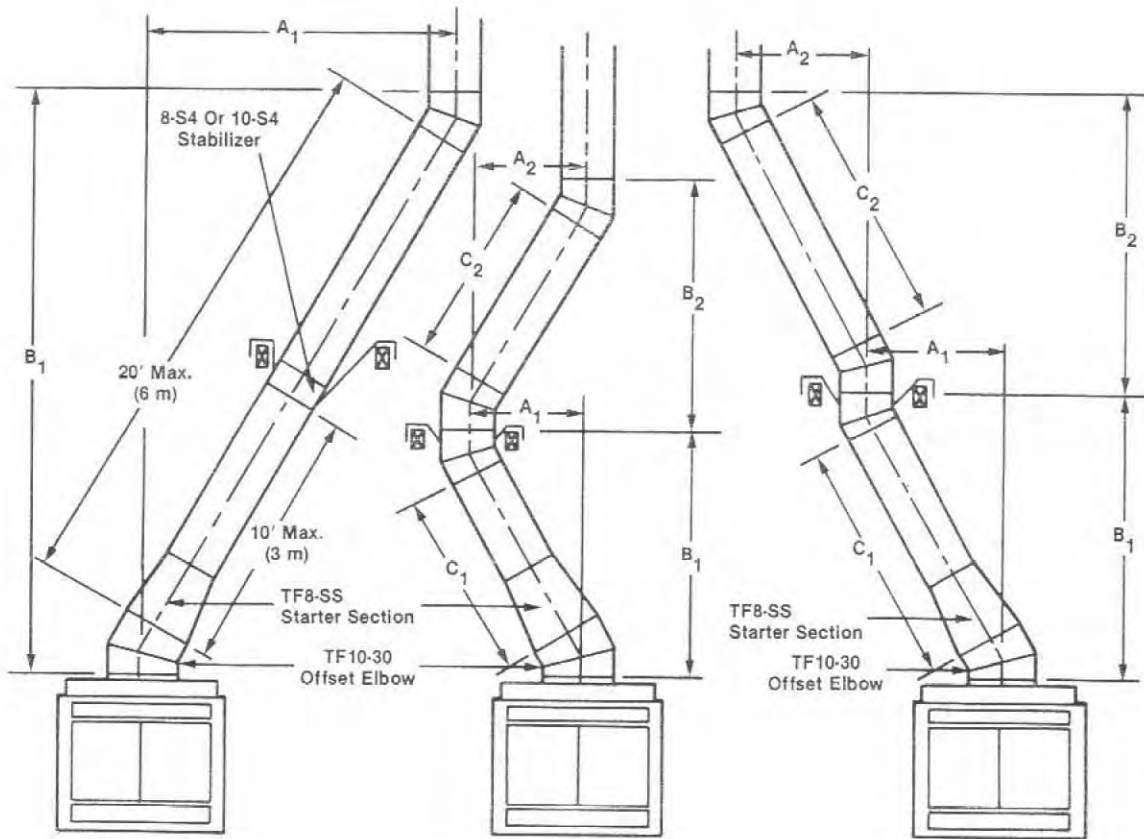


Figure 44

Figure 45

Figure 46

TO INSTALL OFFSETS

First, review chimney offset elevation chart and *Figure 42* and *43* on *Page 16* for reference.

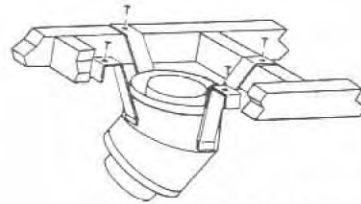
Step 1: Select desired chimney system (8" or 10") (203 mm or 250 mm). Determine the offset distance where flue is to pass through the first ceiling - dimension "A". To find this point on your ceiling, first determine the centerpoint for a vertical chimney following the instructions for vertical installation.

Measure height to the ceiling from top of fireplace - dimension "B". Use Offset Elevation Chart to find dimension "A". Mark point where you will drive your nail to show the centerpoint for your offset ceiling cut.

Step 2: Proceed by using the Straight Up Installation Instructions for cutting and framing ceiling and roof openings.

Note: See *Framing and Dimension Chart* for the sizes of the ceiling and roof openings. The size of the roof opening varies with the degree of the pitch of the roof.

Step 3 Offset Elbow Assembly: Offset elbows install the same as chimney sections. First, snap the inner section INTO the preceding inner sections of chimney. Check connection by pulling slightly to ensure a tight fit. Next, the outer section snaps LOCKS OVER the preceding outer section of chimney. Again, check outer section by pulling slightly to ensure proper connection is made.



TF8-E30 Or TF10-E30
Return Elbow

Figure 47

RETURN ELBOW ASSEMBLY

Return elbows install the same as stabilizers and round contemporary terminations. Follow these easy steps:

- 1) Hold return elbow over top of last chimney section.
- 2) Center inner slip section into inner flue pipe - slip down.
- 3) Center outer locking section over outer flue pipe - push down until locking joint snaps into position.
- 4) Pull up slightly on return elbow to ensure locking joint has firmly engaged.

Remember, all offset and return elbows and any chimney in between must maintain at least 1" (25 mm) minimum air space to combustible materials.

Note: Do not apply excessive pressure to any subsequent chimney sections following return elbow assembly when installing. Ensure each subsequent chimney section is securely attached, however, by testing as noted above.

OR15 OFFSET/RETURN ELBOWS

Refer to installation instructions packed with TF8-OR15 and TF10-OR15 for proper usage.

CHIMNEY OFFSET 30° THROUGH FLOOR OR CEILING

It may be necessary to construct the chimney at 30° when passing through the floor or ceiling area. Use 30° angled firestops as shown in *Figures 48* and *49*. Support the chimney at floor or ceiling penetration with stabilizer if distance below ceiling is 10' (3 m) or more. Maintain 1" (25 mm) minimum air space to combustibles from chimney sections.

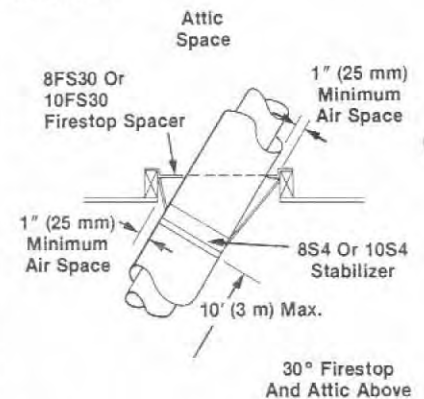


Figure 48

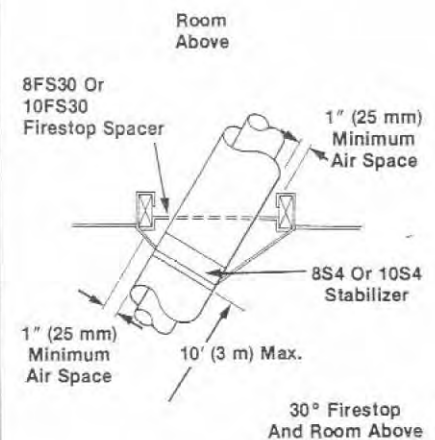


Figure 49

CAST IRON GRILLE AND DOOR

The heat circulation system of the Stoveplace provides for cool room air to enter through the inlet grille located beneath the hearth and for heated air to exit through the outlet grille located above the cast iron doors.

The inlet and outlet grilles are similar in appearance. However, the outlet grille has a hood cast in across the top to protect the wall above the Stoveplace from the convected heat.

The cast iron doors are opened and closed with two removable keys. These keys are inserted from the bottom and engage into the door activator knobs. Only the right hand door activator knob locks the door. To open the doors, insert the metal keys into the activator knobs. Turn the right key counterclockwise and pull doors open with both keys (Figure 50). Reverse this procedure for closing and locking the doors.

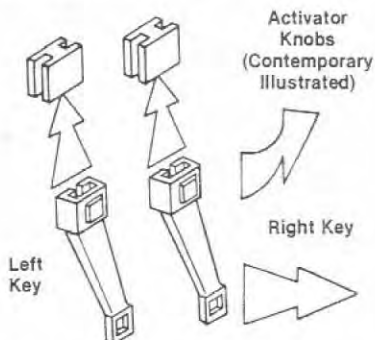
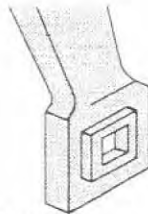


Figure 50

Both door keys incorporate a tool for use in adjusting the combustion air regulators located on the lower door panels (Figure 51). The Classic model does not provide for regulating the combustion air.



Combustion Air Regulator Wrench (Contemporary Illustrated)

Figure 51

CAUTION: DO NOT ATTEMPT TO TOUCH DOORS OR ADJUST COMBUSTION AIR REGULATORS WITH HANDS WHEN FIREPLACE IS IN USE. ALWAYS USE DOOR KEYS. DOORS WILL BECOME VERY HOT WHEN FIREPLACE IS IN USE.

Should adjustment of doors become necessary, the vertical position of both doors can be changed by rotating the adjustment nuts, located on the lower adjustable hinge pins (Figure 52).

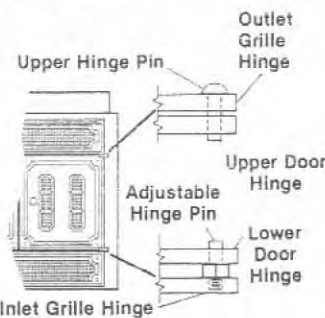


Figure 52

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

ACCESSORIES

Optional Combustion Air Kit

The Stoveplace is a controlled combustion device similar in design to a woodburning stove and, in our opinion, should not require an outside combustion air source to conform to HUD regulations.

Superior Fireplace Company does not recommend the use of outside combustion air with the Stoveplace as it will significantly decrease the efficiency of the product. However, should local codes require the use of outside combustion air, both the Combustion Air Kit Model CAK-4 and Combustion Air Kit Adapter Model CAK-AD (Figure 53) must be installed.

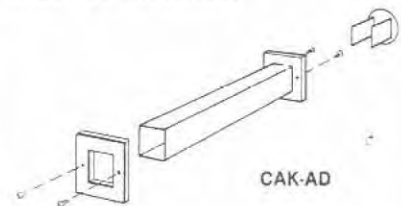


Figure 53

TO INSTALL

Step 1: Remove cover plates, both inside and outside, from left side of Stoveplace. Slide Combustion Air Kit Adapter through opening with flange on inside of Stoveplace and secure with screws provided. Slide metal plate and gasket over Combustion Air Kit adapter channel protruding through outer jacket of Stoveplace. Secure with screws provided (Figure 54).

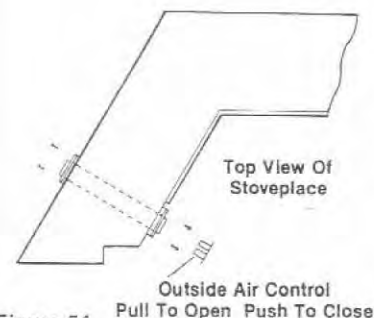


Figure 54

Step 2: Locate the source of outside air for the combustion system. We recommend the inlet be installed where it cannot be blocked by shrubs, snowdrifts, etc.

CAUTION: NEVER LOCATE IN GARAGE OR ANY AREA WHERE THERE IS ANOTHER FUEL BURNING APPLIANCE OR PRODUCTS EMITTING COMBUSTIBLE GASES SUCH AS PAINT, GASOLINE, ETC. IN COLD CLIMATES IT IS RECOMMENDED THE COMBUSTION AIR DUCTS BE INSULATED.

Cut a 4½" (114 mm) diameter hole for CAK-4 through outside wall for the air inlet hood.

Note: Do not terminate combustion air kit in attic space.

Step 3: Attach flexible duct to the inlet hood with two screws and set hood into opening. Secure in place with nails driven through holes in inlet hood flange. Seal with caulking.

Step 4: Attach other end of duct to collar using two screws per duct. Secure collar to opening on side of Stoveplace. Duct extends to a maximum of 44" (1118 mm).

A model ATO-4, Air Take-Off Boot may be used to reduce the framing dimensions when installing the CAK-4 Combustion Air Kit (Figure 55).

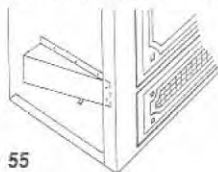


Figure 55

TO INSTALL WITH ATO-4 BOOT

Step 1: Position boot over square combustion air inlet on side of Stoveplace.

Step 2: Slide boot towards front of Stoveplace. Be sure that front edge of boot is positioned under front "S" clip.

Step 3: Secure to side of Stoveplace with sheet metal screws.

Step 4: Install Combustion Air Kit as previously described. Attach the 4" (102 mm) collar to the opening at rear of boot.

CAUTION: IN NO EVENT MAY THE TOTAL DUCT FOR BRINGING IN OUTSIDE AIR EXCEED 50 FEET (15.2 m).

FORCED AIR KIT ELECTRICAL CONNECTION

The fan motors must be wired through an ON/OFF switch to the standard 115VAC house electrical system. Switch should be rated at 3 amps - 115VAC or more.

Step 1: Remove external junction box cover by removing hex head screw. The junction box cover has a 7/8" (22 mm) diameter knockout hole for connection of a conduit bushing.

Step 2: Wire with 60°C wire with prevailing codes (fans draw .5 amps at 115VAC). Connect ground wire to ground screw located inside junction box.

Step 3: Place junction box cover back in place and secure with hex head screw.

CAUTION: ELECTRICAL CONNECTIONS SHOULD ONLY BE PERFORMED BY A QUALIFIED PERSON. MAIN POWER SHOULD BE OFF WHEN CONNECTING FANS TO ELECTRICAL POWER SUPPLY.

FIREPLACE FINISHES, HEARTH EXTENSIONS, WALL SHIELDS

Framing

It's best to frame your Stoveplace after it is posi-

tioned and the chimney is installed. Frame with 2 x 4's (51 x 102 mm) (or heavier) lumber.

Note: The header must rest on the 2 metal spacers.

No clearance is required between the vertical framing and Stoveplace. However, remember a 1" (25 mm) clearance is required between framing and the chimney. Note that a 39½" (1003 mm) clearance from the top of the Stoveplace to overhead combustible material is required (Figures 2 and 22). To install the Stoveplace facing flush with the finish wall, position framework to accommodate the thickness of the final finishing material (Figure 56).

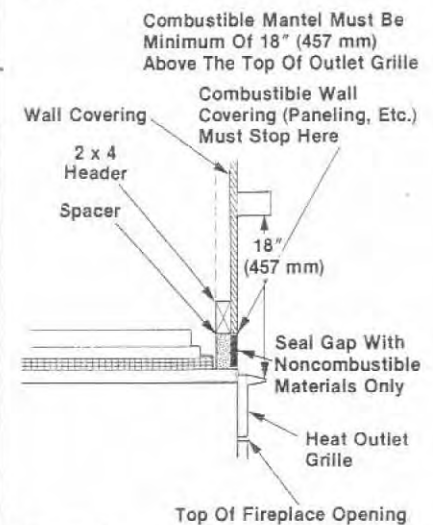


Figure 56

Hearth Extensions And Wall Shields

- The hearth extension must extend 8" (203 mm) beyond both sides of the Stoveplace opening and 16" (406 mm) beyond the front. Use either the metal hearth extension (Model No. HE36) manufactured by Superior Fireplace Company, a ½" (13 mm) thickness of millboard or a durable

noncombustible material of equal or greater insulating value than $K = .84 \text{ BTU-IN./SQ. FT.-HR.-}^\circ\text{F}$. These materials should be covered with a decorative noncombustible material.

• WARNING: THE CRACK BETWEEN THE FIREPLACE AND HEARTH EXTENSION MUST BE SEALED WITH A NONCOMBUSTIBLE MATERIAL.

• WARNING: WHEN INSTALLING THE HEARTH EXTENSION BE CAREFUL NOT TO BLOCK THE HEAT CIRCULATING AIR INLET.

• Secure the hearth extension to the floor to prevent possible shifting.

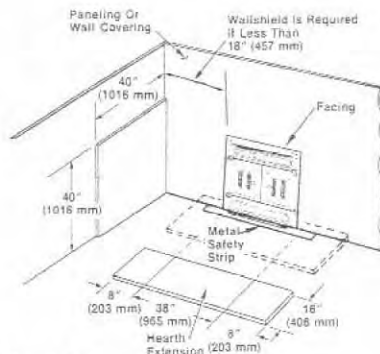


Figure 57

• The Stoveplace must in all cases be installed on flat 2 x 4 (51 x 102 mm) construction (minimum) whether on a noncombustible or combustible floor. This is to permit the thickness of a minimum thickness hearth extension.

• The metal safety strips are installed to cover the 2 x 4 (51 x 102 mm) support in addition to 2" (51 mm) in front of the support. If Stoveplace is elevated higher than 2 x 4

(51 x 102 mm) flat construction, a special "Z" metal safety strip should be fabricated. Refer to Figures 5, 6 and 7.

• Secure the hearth extension to the floor to prevent possible shifting.

• If a side wall is closer than 18" (457 mm) to the fireplace opening, a wall shield is required. Use metal wall shields (Model No. WS40) manufactured by Superior Fireplace Company or construct with a 40" x 40" x 1/2" (1016 mm x 1016 mm x 13 mm) millboard or a durable noncombustible material with equal or greater insulating value than $K = .84 \text{ BTU-IN./SQ. FT.-HR.-}^\circ\text{F}$. In no case shall a perpendicular wall be closer than 8" (203 mm) to the fireplace opening.

FINISH TO YOUR TASTE

There are a wide variety of "finished looks" for your Stoveplace; from formal wall decor with elaborate mantels to rustic wood paneling to warm brick facings.

If you are using a combustible material, remember only noncombustibles may overlap the black facings.

Noncombustible materials, like tile, stone, brick, etc. may overlap the black facing a maximum 2" (51 mm) on each side. Overlapping further may interfere with the installation and operation of the cast iron doors. If the black facing is flush with the surrounds, the doors will open all the way or 180° (Figure 58). However, if a 4" (102 mm) thickness of brick overlaps the black facing the maximum allowable 2" (51 mm), the doors will only

open 3/4 of the way or 135° (Figure 59). Seal all joints and wall surrounds to prevent cold air intrusion.

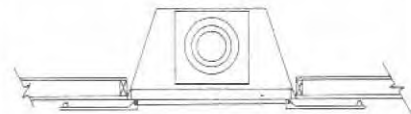


Figure 58

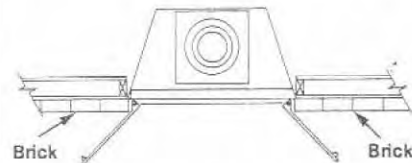


Figure 59

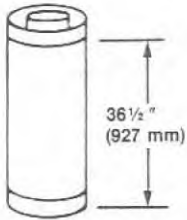
SUPERIOR ACCESSORY PARTS COMPONENTS LIST FOR MODELS SP38T-1, SP38C-1 AND SP38A

The following accessory parts and components are to be

used only with your SP Superior fireplace system. Separate installation instructions are packaged separately with all combustion air kits, forced air fan kits, chimney top terminations and the manufactured home chimney pack. If you encounter any problems

or have questions concerning the installation or application of this system, please contact:

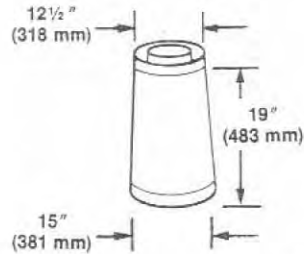
SUPERIOR FIREPLACE COMPANY
Special Services Coordinator
4325 Artesia Ave.
Fullerton, California 92633
714-521-7302



Chimney Section

	TF8
O.D.	12 1/2" (318 mm)
I.D.	8" (203 mm)

TF8-48



Starter Section

TF8-SS



Return Elbow

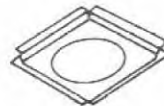
TF8-E30
TF10-E30



Chimney Section

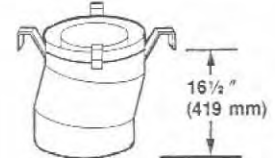
	TF8	TF10
O.D.	12 1/2" (318 mm)	15" (381 mm)
I.D.	8" (203 mm)	10" (254 mm)

TF8-36
TF10-36



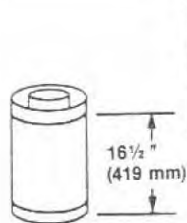
Firestop Spacer (Flat)

8FS
10FS



15° Offset/Return

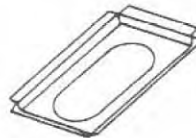
TF8-OR15
TF10-OR15



Chimney Section

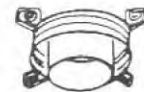
	TF8	TF10
O.D.	12 1/2" (318 mm)	15" (381 mm)
I.D.	8" (203 mm)	10" (254 mm)

TF8-18
TF10-18



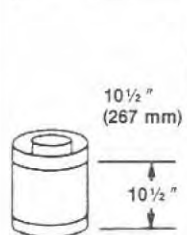
Firestop Spacer (30°)

8FS30
10FS30



Stabilizer

8-S4
10-S4



Chimney Section

	TF8	TF10
O.D.	12 1/2" (318 mm)	15" (381 mm)
I.D.	8" (203 mm)	10" (254 mm)

TF8-12
TF10-12



Offset Elbow

TF8-30
TF10-30



Locking Band

8LB
10LB



Storm Collar

8SC
10SC

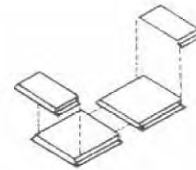
Installation Instructions



Chase Termination **TF8-CT1**



Chase Termination **TF8-CT2**
TF10-CT2



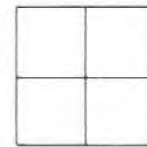
Hearth Extensions **HE-36**



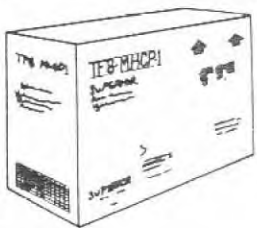
Round Termination **TF8-CTD**
TF10-CTD



Thimble Extension **8TE2**

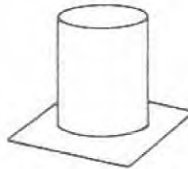


Wall Shield **WS40**



- Contents**
 2 - TF8-36
 2 - TF8-12
 1 - MHFT
 1 - 8MHLB
 1 - TF8-MHT
 1 - 8F6

Chimney Pack
Manufactured Home **TF8-MHCP-1**



Firestop Thimble **8MHFT**

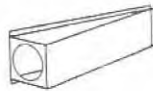


Refractory Patch Kit **RPK**



- Contents**
 3 - TF8-36
 1 - 8FS
 1 - 8F6
 1 - TF8-CTD

Chimney Pack
Conventional Home **TF8-CP7**



Air Take Off Boot **ATO**

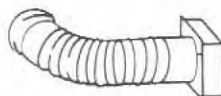


Cast Grate **CGR-3843**



Termination
Manufactured Home **TF8-MHT**

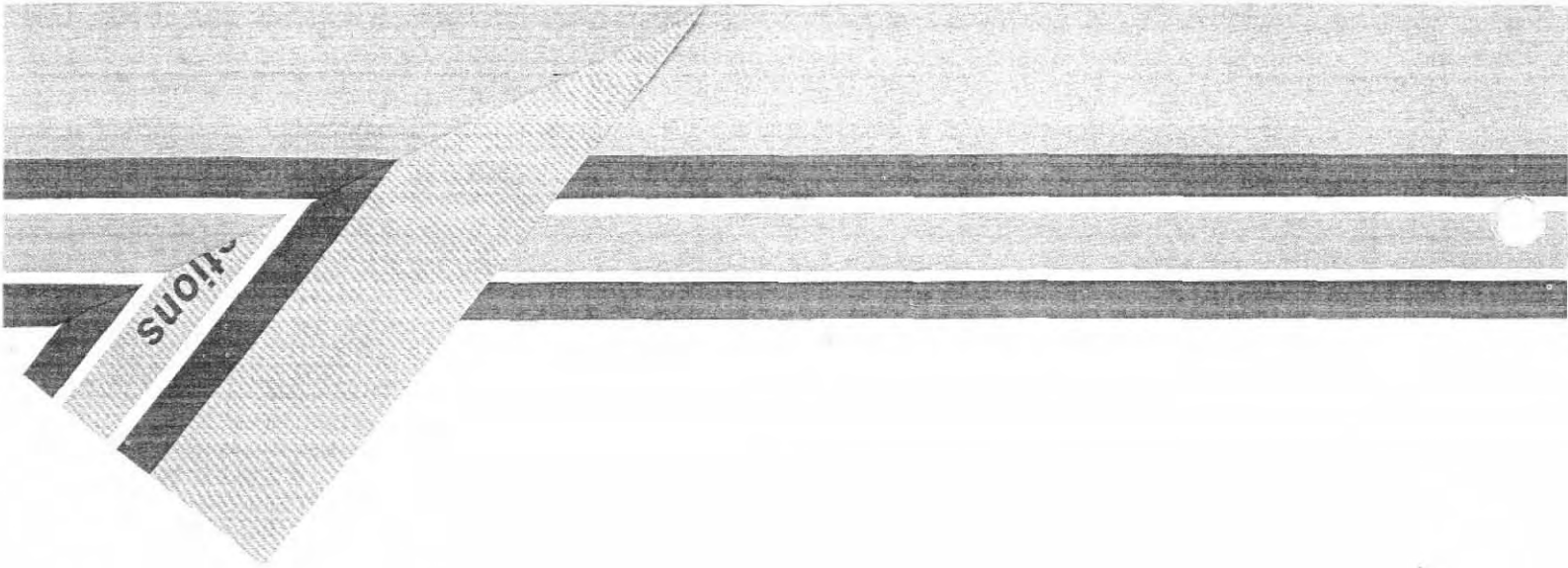
Flashing **8F6 10F6**
8F12 10F12
8F60 10F60



Combustion Air Kit **AK-4**
AK-6



Refractory Tint Kit **RTK**



Distributed by:

Printed in U.S.A.
© 1983 by Superior Fireplace Company
P/N 091998 REV. B 4/85

SUPERIOR

The Fireplace Company

A MOBEX Subsidiary

4325 Artesia Avenue
Fullerton, CA 92633

Plants in Fullerton, CA,
Union City, TN