



# GAS-FIRED VENTED WALL FURNACE



## INSTALLATION AND OPERATING INSTRUCTIONS

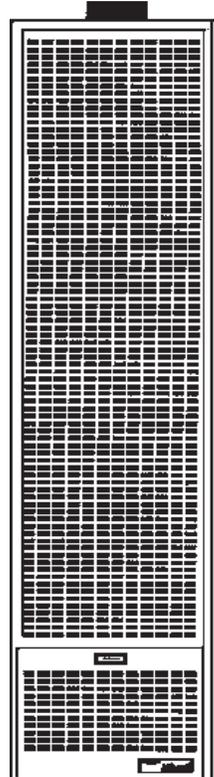
P/N 84502 / REV. 03/19/2013



NATURAL GAS	W255F, W355F, W505F	L.P. GAS	W256F, W356F, W506F
-------------	---------------------	----------	---------------------

**WARNING:** If the information in this manual is not followed exactly, a fire or explosion may result causing property

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS:**
  - Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- **INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.**



**INSTALLER:** Leave this manual with the appliance.  
**CONSUMER:** Retain this manual for future reference.

**WARNING:** Operation of this furnace when not connected to a properly installed and maintained venting system can result in Carbon Monoxide (C.O.) poisoning and possible death. For your safety, this furnace and the venting system should be inspected at least annually by a qualified service technician.

This appliance is equipped with a blocked flue switch designed to protect against a blocked flue condition.

The coating selected to provide longer life to the heat exchanger may smoke slightly upon initial firing. Please provide adequate ventilation if this occurs.

This heater may be installed without recessing into stud space by using optional FSK (Free Standing Kit).

This unit is for residential use only and is not approved for installation in mobile homes, greenhouses, or environments involving dusty, wet, corrosive, or explosive conditions. Such conditions will invalidate the warranty and may create unsafe conditions.

**THIS UNIT IS NOT TO BE INSTALLED IN MOBILE HOMES.**

Installation, maintenance, service, troubleshooting and repairs must be performed by a qualified service agency. MR./MRS. HOMEOWNER, **DO NOT** attempt any of these procedures yourself as this could expose you to property damage, personal injury, or loss of life and will invalidate all warranties.

## CONTENTS

Introduction.....	2	Lighting Instructions.....	11
Specifications.....	2	Pilot Adjustment.....	12
Safety Rules.....	3	Burner Flame Adjustment.....	12
Clearances.....	3	Maintenance Instructions.....	12
Controls.....	3	BBSK Kit Instructions.....	13-15
Combustion & Ventilation Air.....	4,5	WFF81 Fan Instructions.....	16-17
Venting.....	6,7	40542 Rear Register Kit Instructions.....	18-19
Rough-In Instructions.....	7	Trouble Shooting Chart.....	20-21
Installation.....	9	Parts Drawing.....	22
Wiring Instructions.....	10	Parts List.....	23
		Warranty.....	25

**The State of Massachusetts requires that installation and service of a gas appliance be performed by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.**

### READ CAREFULLY BEFORE INSTALLING UNIT

This appliance must be installed in accordance with local codes, if any; if not, follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54 or the Natural Gas and Propane Installation Code, CSA-B149.1.

This appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or Canadian Electrical Code, CSA C22.1, if an external electrical source is utilized.

The ANSI standards are available from the American Gas Association, 1515 Wilson Blvd., Arlington, Virginia 22209.

The NFPA standards are available from the National Fire Protection Association, Batterymarch Park, Quincy, MA. 02269.

Canadian standards are available from International Approval Services, 178 Rexdale Blvd., Etobicoke, Ontario, Canada M9W 1R3.

NOTE: If optional rear register kit is to be used, see supplemental installation instructions (No. 84504) and section marked "Special Instructions for Rear Register Kit Application" prior to installation of Rough-In.

## INTRODUCTION

THIS IS A GAS-FIRED, GRAVITY VENTED WALL FURNACE THAT WILL OPERATE SAFELY AND PROVIDE AN EFFICIENT SOURCE OF HEAT WHEN INSTALLED, OPERATED AND MAINTAINED AS RECOMMENDED IN THESE INSTALLATION AND OPERATING INSTRUCTIONS. READ THESE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING, SERVICING, OR USING THE APPLIANCE. IF YOU DO NOT UNDERSTAND ANY PART OF THESE INSTRUCTIONS, CONSULT LOCAL AUTHORITIES, OTHER QUALIFIED INSTALLERS, SERVICE TECHNICIAN, THE GAS SUPPLIER OR THE MANUFACTURER.

## SPECIFICATIONS

Your vented wall furnace comes packed in a single carton. (For wall thermostat models that includes the thermostat, thermostat wire, and insulated staples). Before installing the wall furnace check the rating plate to verify that the Model Number is correct and that the wall furnace is equipped for the type gas you intend to use.

Model No.	Type Control	Type Gas	BTU/Hr. Input	Vent Size	Gas Inlet	FINISHED DIMENSIONS	Shpg. Wt.	REAR REG. KIT		FAN KIT	
								Model	Weight	Model	Wt.
<b><u>SINGLE WALL FURNACE</u></b>											
W255F	Wall Stat	Nat.	25,000	4"	1/2"	16-1/2"Wx68"Hx6-1/2"D	90 Lbs.	40542	5 Lbs.	WFF81	10 lbs.
W256F	Wall Stat	L.P.	25,000	4"	1/2"	16-1/2"Wx68"Hx6-1/2"D	90 Lbs.	40542	5 Lbs.	WFF81	10 lbs.
W355F	Wall Stat	Nat.	35,000	4"	1/2"	16-1/2"Wx68"Hx6-1/2"D	90 Lbs.	40542	5 Lbs.	WFF81	10 lbs.
W356F	Wall Stat	L.P.	35,000	4"	1/2"	16-1/2"Wx68"Hx6-1/2"D	90 Lbs.	40542	5 Lbs.	WFF81	10 lbs.
<b><u>DUAL WALL FURNACE</u></b>											
W505F	Wall Stat	Nat.	50,000	4"	1/2"	16-1/2"Wx68"Hx6-1/2"D	134 Lbs.	N/A	N/A	WFF81	10 lbs.
W506F	Wall Stat	L.P.	50,000	4"	1/2"	16-1/2"Wx68"Hx6-1/2"D	134 Lbs.	N/A	N/A	WFF81	10 lbs.

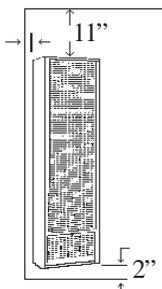
## SAFETY RULES

- A) The wall furnace should be located near the center of the house for best heat distribution.
- B) Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- C) Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.
- D) Young children should be carefully supervised when they are in the same room as the appliance.
- E) Do not place clothing or other flammable material on or near the appliance. Precautions should be taken so as not to place furniture, drapes, or other articles directly in front of grille or lower access door that would obstruct air openings as proper air flow is critical to proper operation of unit.
- F) Any safety screen guard or casing front removed for servicing an appliance must be replaced prior to operating the appliance.
- G) Heater must be installed with legs resting on the 2x4 floor sill plate (recessed) or the factory FSK kit (flush mount). The header plate shall then be installed at a height 65-3/4 inches above top surface of the plate that the heater legs rest on. This provides the listed 2 inch minimum floor clearance.  
If the area where the heater is installed contains carpeting, tile, etc., the listed 2 inch minimum floor clearance must be maintained from the top surface of these materials.  
If the heater is installed DIRECTLY on carpeting, tile or any combustible material other than wood flooring, the heater shall be installed on a metal or wood panel secured to the floor, extending the full width and depth of the heater.
- H) Installation and repair must be done by a qualified installer or service technician. The wall furnace must be inspected before use and at least annually by a qualified service technician.

## CLEARANCES

As viewed from front of heater, the minimum clearance from cabinet to combustible construction: Side Wall – 1”; Floor – 2”; Ceiling – 11”.

In selecting a location for installation it is necessary to provide adequate accessibility clearances for servicing and proper operation. This appliance must not be connected to a chimney flue that serves to vent a solid-fuel burning (wood or coal) appliance, or a multi-vent system.



## CONTROLS

All controls are preassembled at the factory.

The normal manifold pressure should be 3.5” w.c. on Natural Gas and 10” w.c. on L.P. Gas. The maximum inlet pressure in the gas supply pipe should never exceed 14” w.c. on L.P. Gas or 7.0” w.c. on Natural Gas.

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psig.

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psig.

The minimum inlet pressure in the gas supply pipe should be 5.0” w.c. on Natural Gas or 11” w.c. on L.P. Gas, “for purpose of input adjustment”.

The appliance is orificed at the factory for elevations up to 2,000 feet. If installed above 2,000 feet, the BTU input must be reduced 4% per 1,000 feet. See the following orifice chart for the proper orifice for a specific elevation. A blank orifice is shipped in the high altitude kit with each heater. This orifice(s) will have to be drilled to correct size by a qualified installer, service technician or the gas supplier.

### NATURAL GAS

Model No.	0 to 2,000’	2,000 - 4,000’	4,000 - 6,000’	6,000 - 8,000’	8,000 – 10,000’
W255F	43	44	45	47	48
W355F	36	38	40	41	43

#### **ORDER KIT #49820 45-1 HIGH ALTITUDE KIT**

W505F	43	44	45	47	48
-------	----	----	----	----	----

#### **ORDER KIT #49850 2287-2 HIGH ALTITUDE KIT**

### L.P. GAS

Model No.	0 to 2,000’	2,000 - 4,000’	4,000 - 6,000’	6,000 - 8,000’	8,000 – 10,000’
W256F	1.45mm 54	54	55	55	
W356F	52	52	52	53	54

#### **ORDER KIT #49820 45-1 HIGH ALTITUDE KIT**

W506F	1.45mm 54	54	55	55	
-------	-----------	----	----	----	--

#### **ORDER KIT #49850 2287-2 HIGH ALTITUDE KIT**

## **COMBUSTION AND VENTILATION AIR**

When installed, this gas appliance must be provided with fresh air for combustion, ventilation, and dilution of hot flue gases. The minimum required volume of the area where the appliance is installed should be 50 cubic feet per 1,000 btu/hr.

If installed in an area of the home that is considered an unconfined space, the natural infiltration of air around windows and doors will be adequate. If the area is considered a confined space (less than 50 cubic feet per 1,000 btu), fresh air can be supplied by providing two permanent openings into adjoining rooms. Each opening shall have a minimum free area of one square inch per 1,000 btu per hour of the total input rating of all gas appliances in the confined space, but not less than 100 square inches. One of the openings shall be within 12 inches of the ceiling and one within 12 inches of the floor. See Figure A.

If the home is of unusually tight construction (new and remodeled homes), free air must be supplied through opening(s) to the outdoors. This can be accomplished by providing 2 permanent openings, one commencing within 12 inches of the ceiling and one within 12 inches of the floor. These openings shall communicate directly with the outdoors, or spaces that communicate freely with the outdoors, such as a ventilated attic and crawl space through galvanized or equivalent corrosion-resistant ducts. Exception: unobstructed stud and joist spaces are acceptable ducts provided that not more than one fire block is removed. Special provisions must be taken to insure that these stud and joist spaces cannot be blocked with insulation or other objects. Each of these openings using vertical ducts shall have a minimum free area of one square inch per 4,000 btu/hr of total input rating of all gas appliances. See Figure B and C. If horizontal ducts are used, the minimum free area shall be one square inch per 2,000 btu/hr of total input rating of all gas appliances.

Fresh make-up air can also be provided through a duct to one permanent opening commencing within 12 inches of the ceiling. The minimum free area of this opening shall be one square inch per 3,000 btu/hr of the total input rating of all gas appliances but not less than the sum of the areas of all vent connectors in the space. See Figure D.

When calculating the amount of fresh air needed you must include make-up air requirements for the operation of exhaust fans, kitchen ventilation systems, clothes dryers, and fireplaces.

Additional information can be found in the latest edition of ANSI Z223.1 (National Fuel Gas Code).

# COMBUSTION AND VENTILATION AIR

ALL COMBUSTION AIR FROM  
ADJACENT INDOOR SPACES  
THROUGH INDOOR COMBUSTION  
AIR OPENINGS

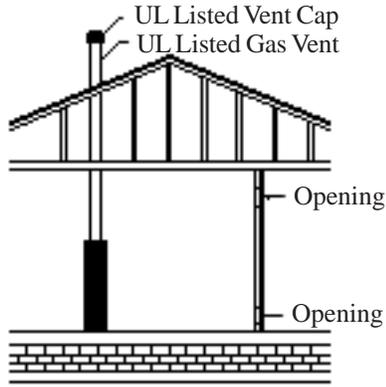


FIGURE A

ALL COMBUSTION AIR FROM OUTDOORS  
THROUGH VENTILATED ATTIC

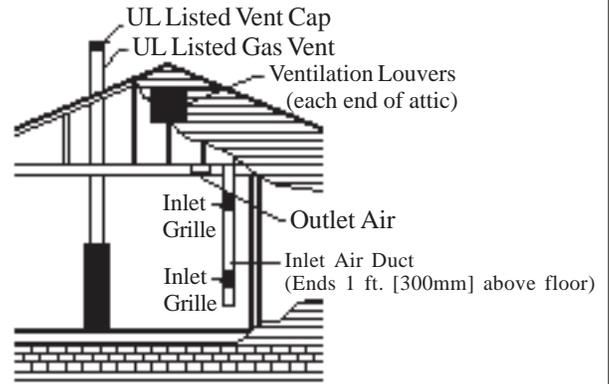


FIGURE C

ALL COMBUSTION AIR FROM  
OUTDOORS. INLET AIR FROM  
VENTILATED CRAWL SPACE AND  
OUTLET AIR TO VENTILATED ATTIC.

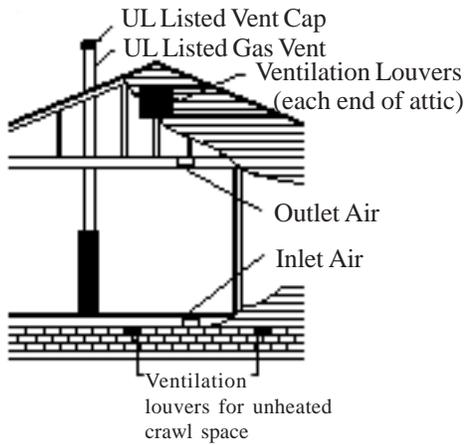


FIGURE B

ALL COMBUSTION AIR FROM OUTDOORS  
THROUGH SINGLE COMBUSTION AIR OPENING

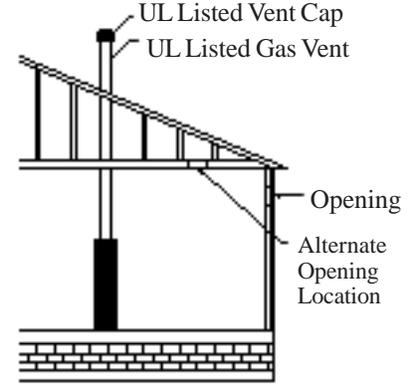
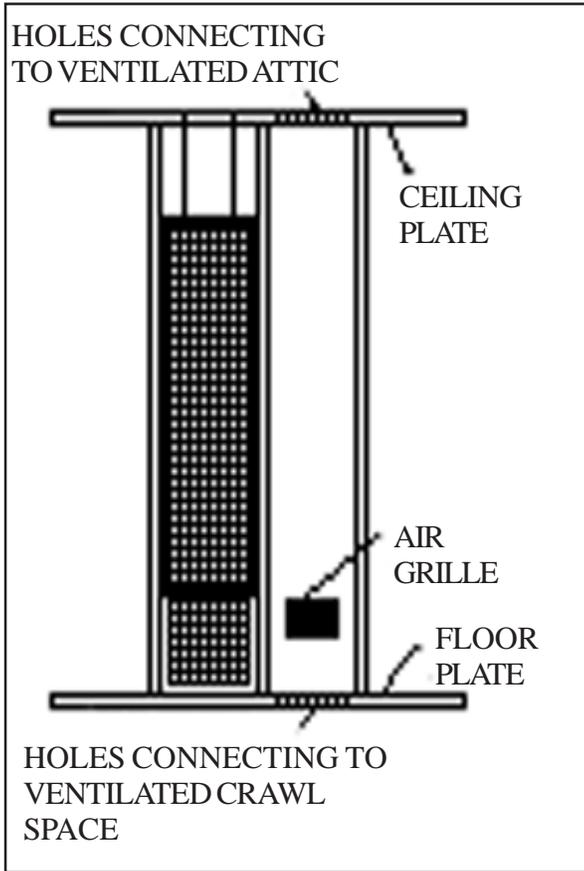


FIGURE D

**USING ADJACENT STUD SPACE  
FOR ALL COMBUSTION AIR  
FROM OUTSIDE**



BASED ON 4,000 BTU OF TOTAL INPUT RATING OF ALL GAS APPLIANCES, THE HEATER ONLY REQUIRES A MINIMUM FREE AREA OF:

BTU	SQUARE IN.	HOLE SIZE =	SQUARE IN.
25,000	6.25	1"	.785
35,000	8.75	1.5"	1.76
50,000	12.50	2"	3.14

**VENTING**

This appliance must be properly connected to a venting system.

Consult local ordinances governing venting. Install only UL listed type BW 4" oval gas vent. When the vent enters the attic, a listed type B-1 round flue pipe may be used. See Figure 2, Page 7.

Vent pipe must connect to the wall furnace header plate with a "B" vent base plate and terminate with a cap at a point at least 12 foot above the bottom of the wall furnace, two feet above any obstacle within a 10 foot radius, and at least 3 foot above the roof.

Provisions must be made for adequate combustion and ventilation air.

This appliance is equipped with a manual reset blocked flue switch designed to protect against a blocked flue condition, which would cause combustion products to spill back into the living quarters. NOTE: A partially blocked, inadequate, or disconnected vent system may not activate the switch. Discoloration of the grille is an indication of a bad vent. If this occurs, the vent can be checked by a qualified serviceman using a draft gauge. After 15 minutes the gauge should read between -.02 up to -.04 inches w.c. Vent must be checked at the beginning of each heating season.

The switch when activated on a bulb control burner will extinguish the pilot flame, on a thermostat controlled burner, the thermostat circuit will be broken, turning off the main burner flame. Before the heater can be relit, the reset button must be activated. See Figure B for location of the manual reset blocked flue switch. To reset the switch, insert a slender rigid object (i.e. screwdriver) through the front panel louvers and push the reset button down. See Figure B-1. However, you may have to remove the front panel, then reset the switch and reinstall the front panel to relight heater. If homeowner experiences this problem, the vent system must be checked and corrected. NOTE: A pre-existing vent that has worked for years may not be adequate for today's design because of higher efficiency requirements that result in lower stack temperatures. See "Possible Causes and Corrective Action" on Page 16.

All type "B" vents shall extend in a generally vertical direction with offsets not exceeding 45 degrees, except that a vent system having not more than one 60 degree offset may be allowed.

Any angle greater than 45 degrees from the vertical is considered horizontal. The total horizontal run of a vent plus the horizontal vent connector shall be not greater than 75 percent of the vertical height of the vent.

Any offsets used should be as far above the draft hood as possible to allow a venting action to begin before any restriction is encountered.

**WARNING:** Do not bypass the blocked flue switch. To do so could expose the consumer to property damage, personal injury or possible death.

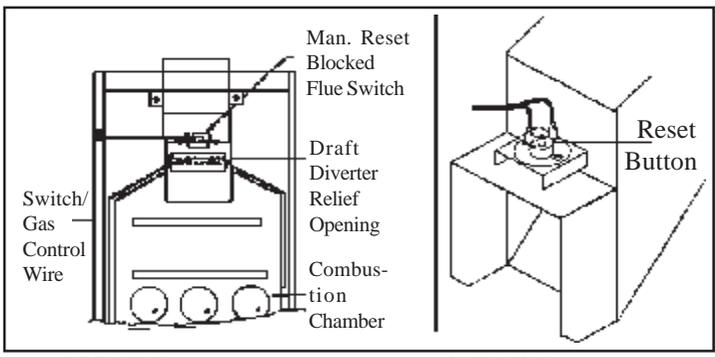
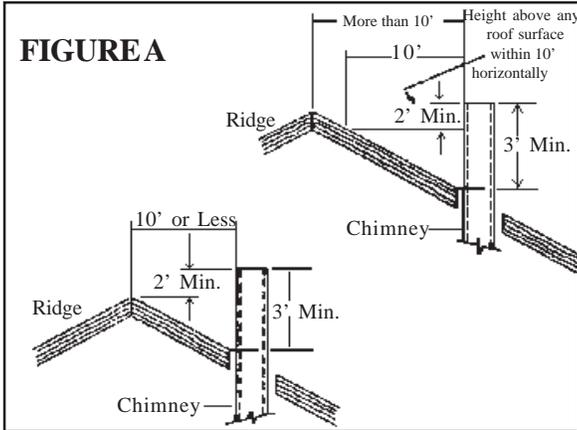
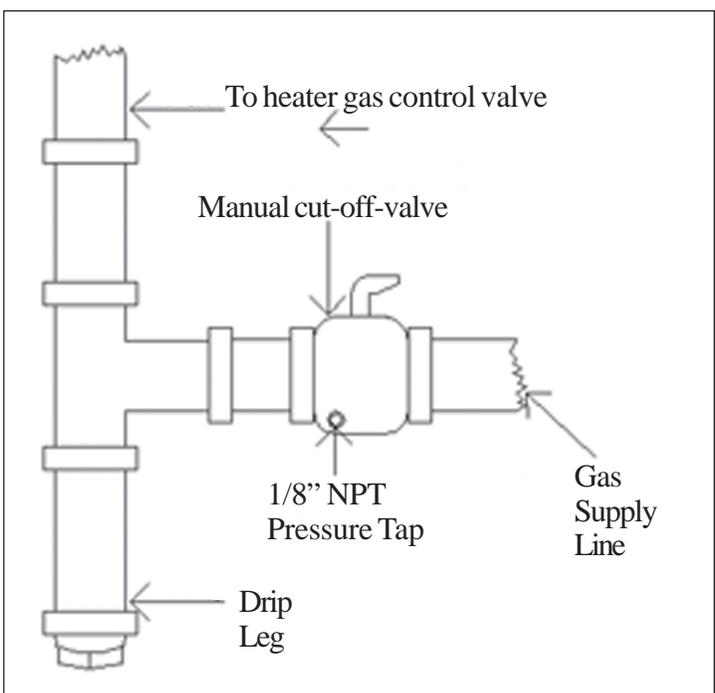


FIGURE B

FIGURE B-1



GAS SUPPLY

**ROUGH-IN INSTRUCTIONS**

NOTE: Maximum wall thickness for a dual wall (W505, W506) installation is 5-3/8\".

**STEP 1.** Attach the base plate (purchased with the vent pipe) to the header plate using two No. 8 sheet-metal screws through the pre-punched holes. The heater may not vent properly without a base plate to anchor and seal the vent system. See Figure C.

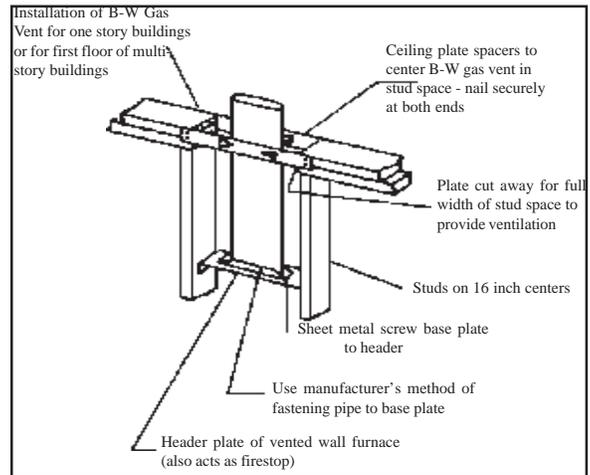


FIGURE C

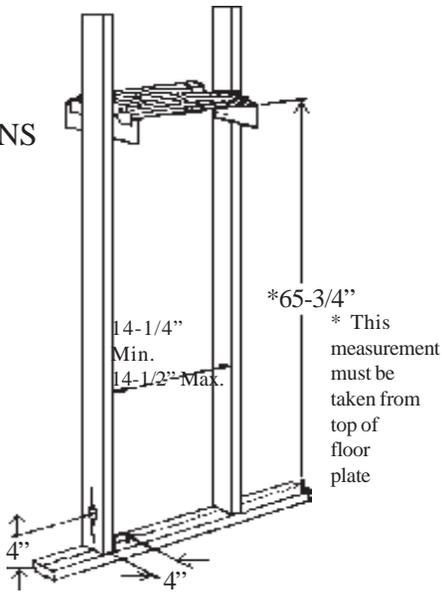
**STEP 2.** Cut out an opening between the studs of 14-3/8" x 66-1/2" above the floor plate. Embed the rear flange of the channel on top of header into either the drywall or the plastered wall. This provides part of the required fire stop. Square up and nail the header in place with the top front of header located 65-3/4" above floor plate. (See arrow on right side of header and Figure 1, 5A and 5B on Page 7).

**STEP 3.** Rough in 1/2" gas supply on center line of left stud either 4" above top of floor plate or 4" to right of left stud through floor plate. See Figure 1 located on Page 7.

# ROUGH-IN INSTRUCTIONS

**FIGURE 1**

ROUGH-IN DIMENSIONS



NOTE: For proper combustion, make sure units are level, front to back and side to side.

**STEP 4.** Remove double ceiling plate between studs. Install one ceiling plate spacer across the cut out in ceiling plate. Install vent pipe into position, be sure to lock bottom of vent pipe into the base plate. Nail second ceiling plate spacer in place. (See Figure C, Page 6).

**STEP 5.** If the vent continues through additional stories within the 2x4-stud space, then fire-stop-spacers must be installed at the second and subsequent ceiling levels. See Figure D.

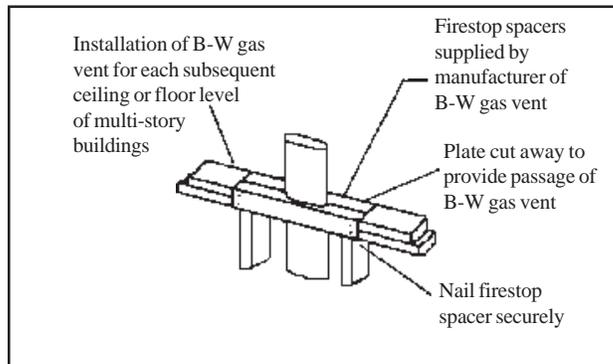


FIGURE D

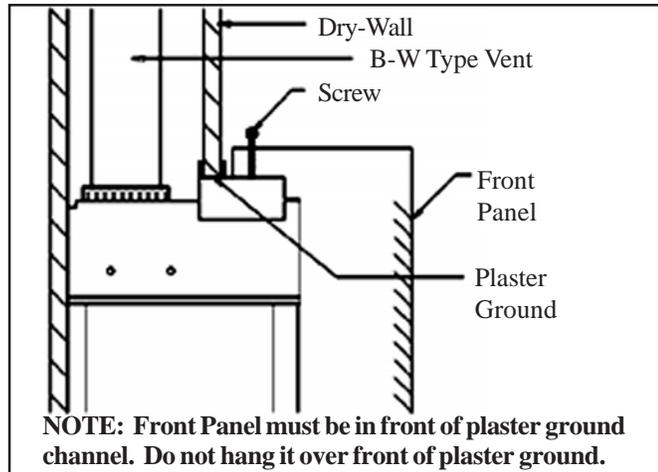


FIGURE 5A - DRY WALL

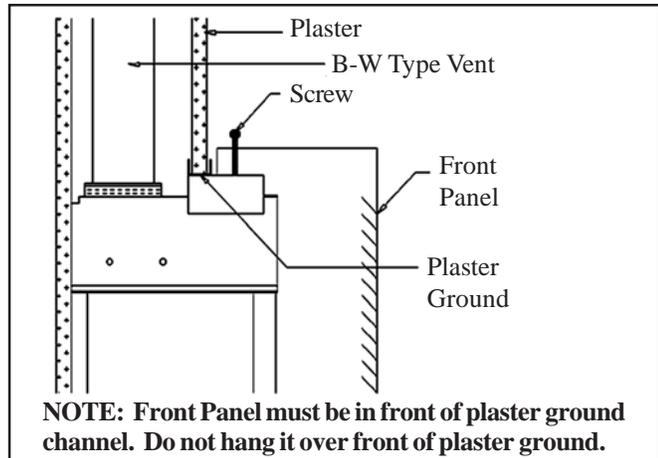


FIGURE 5B - PLASTER WALL

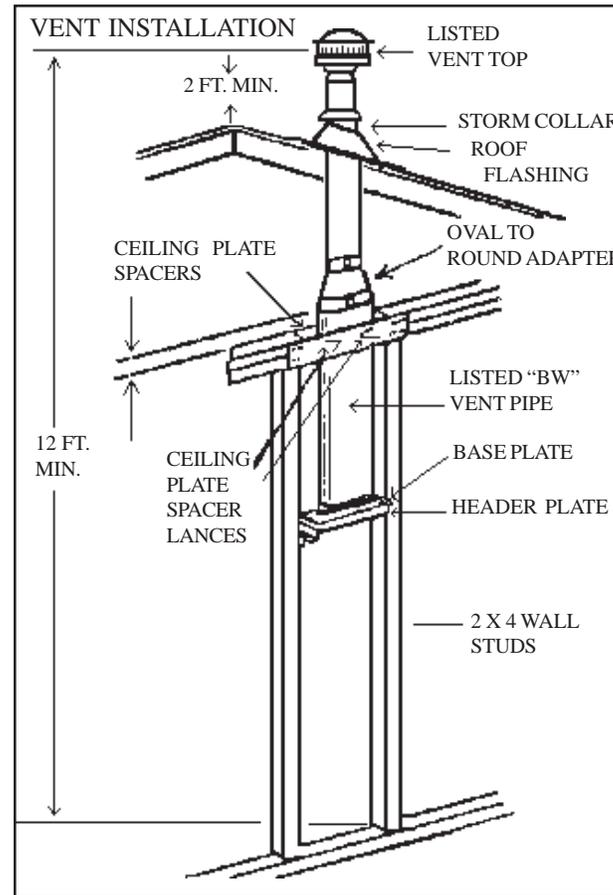


FIGURE 2 - VENT INSTALLATION

## INSTALLATION

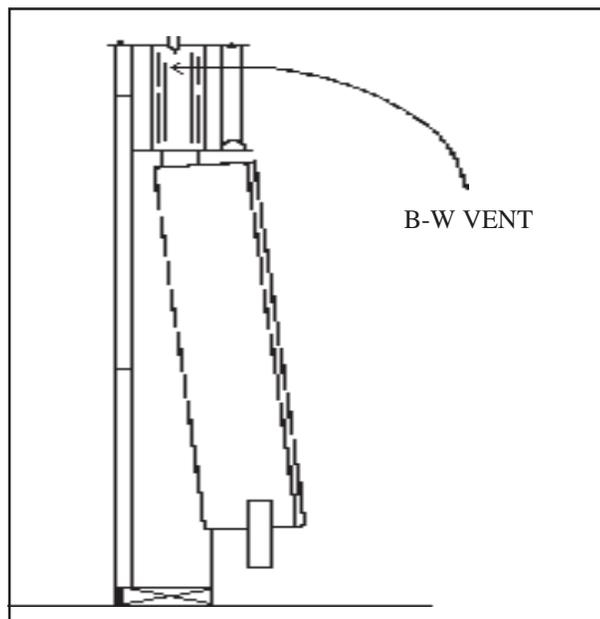


FIGURE 3

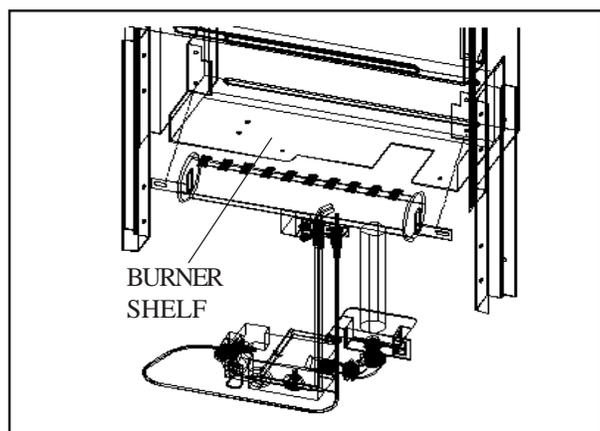


FIGURE 4

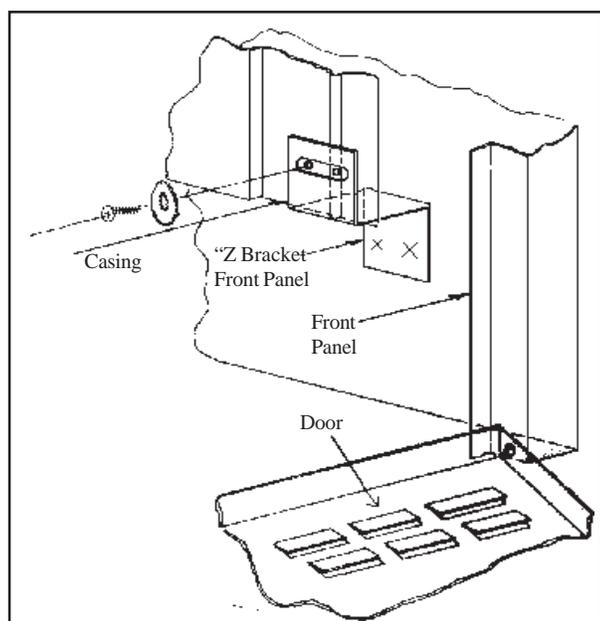


FIGURE 5C

**STEP 6.** To place furnace into position, grasp furnace and lift so furnace flue vent and header plate vent opening engage. Do not use burner or gas control to lift heater. Lift furnace upward and swing bottom into wall opening until legs rest on floor plate and are flush to finished wall. For proper combustion, level heater front to back and side to side. Nail legs to studs. **DO NOT BEND LEGS** as this will put the entire unit into a bind and cause expansion noises (See Figure 3).

**STEP 7.** A drip leg and a manual valve equipped with a 1/8 N.P.T. plugged tapping accessible for test gauge connection should be installed immediately upstream of the gas supply connection to the appliance. Some codes and ordinances require that the manual valve be located outside the appliance.

**STEP 8.** Make gas connection using connector the same size as gas connection of furnace. **CHECK ALL CONNECTIONS FOR GAS LEAKS WITH LEAK DETECTOR SOLUTION. DO NOT USE OPEN FLAME.**

**STEP 9.** For wall thermostat units, see “Wiring” section for thermostat connections. Make sure all connections are correct and connector stems are not touching.

**STEP 10.** To fasten front panel to furnace, be sure exposed portion of header is free of debris. Place outer panel over furnace with top of panel about one inch above header and centered in opening. Keep front panel flush to finished wall and slide down until rear flange of top outer panel is wedged tight against the front of the plaster ground channel and flush with wall. **CAUTION: Do not hang front panel behind (over front lip) the plaster ground channel as this could result in excessive noise.** Open bottom door of front panel and place sheet metal screw into locking latch. Secure top of front panel to header plate with screw provided. This will hold front panel securely to wall. See Figures 5A, 5B, (See Page 8), and 5C (Page 9).

**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

**WIRING INSTRUCTIONS –  
GRAVITY WALL FURNACE**

**WARNING:** Failure to locate the thermostat properly or to wire the furnace correctly may result in continuous operation, control damage or failure to operate. This can cause property damage, personal injury, or loss of life.

Follow the instructions included with the thermostat. Locate the thermostat approximately five (5) feet above the floor and four feet (4') from appliance. Always mount the thermostat on an inside wall where it won't be affected by heat or cold sources such as direct sunlight, televisions, fireplaces, hidden hot or cold water pipes, drafts, etc. The thermostat must never be installed in an adjoining room where a door can be closed between the thermostat and wall furnace. This wall furnace is equipped with a self generating control system. Never connect to a 24 volt transformer or to the household electrical system. Do not use more thermostat wire than is included with the wall furnace. Do not run thermostat wire in same stud space with vent. Conceal wire inside wall or secure to wall with insulated staples that are included.

**YOUR FURNACE IS SHIPPED WITH A WALL THERMOSTAT** (Figure 8). YOU MAY CONVERT CONTROL TO BUILT-IN BULB CONTROL WITH THE OPTIONAL BBSK KIT. SEE PAGE 13, 14 and 15 FOR INSTALLATION INSTRUCTIONS.

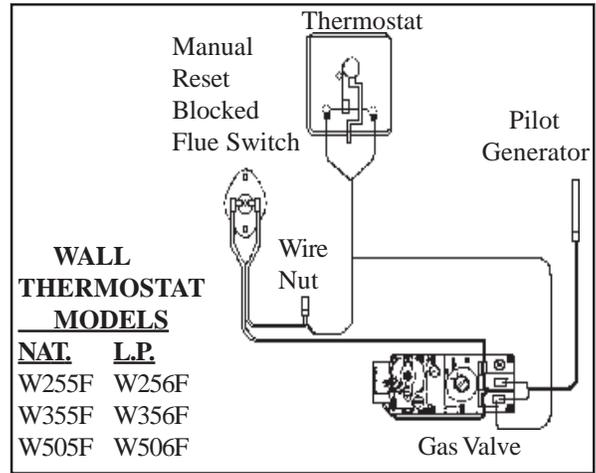


FIGURE 8

## LIGHTING INSTRUCTIONS

**MODELS: W255F, W256F / W355F, W356F / W505F, W506F**

### FOR YOUR SAFETY READ BEFORE LIGHTING

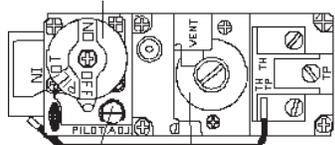
**WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.**

- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS:
- Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- C. If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

## LIGHTING INSTRUCTIONS

1. STOP! Read the information on the safety label.
2. Set thermostat to it's lowest setting.
3. Open cabinet door.
4. Depress and turn gas control knob clockwise ↻ to "OFF".

Gas Control Knob



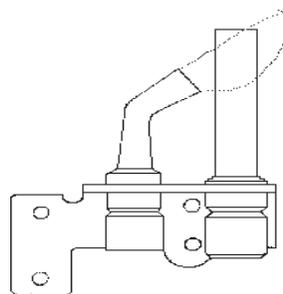
Manifold Pressure Tap

Pilot Adjustment Screw Cap

Internal Manifold Pressure Regulator

NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

5. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the information on the safety label. If you don't smell gas, go to the next step.
6. Locate the pilot. (Follow metal pilot tube from gas control).
7. Turn gas control knob counterclockwise ↶ to "PILOT".



Pilot is located on side of burner

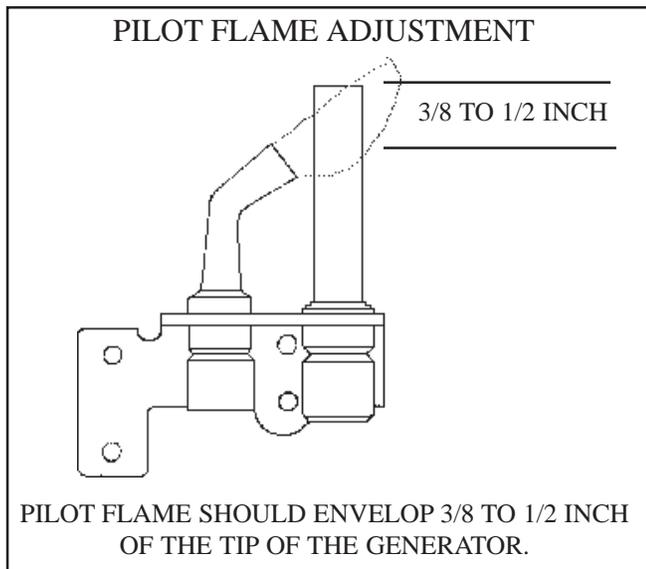
8. Push gas control knob and hold in. Immediately light the pilot with a match. Continue to hold the gas control knob in for about one (1) minute after the pilot is lit. Release gas control knob and it will pop back up. Pilot should remain lit. If pilot goes out, repeat steps 4 through 8.
- If knob does not pop up when released, STOP and immediately call your service technician or gas supplier.
- If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
9. Turn gas control knob counterclockwise ↶ to "ON".
10. Close the cabinet door.
11. Set thermostat to desired setting.

## TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to it's lowest setting.
2. Open cabinet door.
3. Push in gas control knob slightly and turn clockwise ↻ to "OFF". Do not force.
4. Close cabinet door.

## PILOT ADJUSTMENT

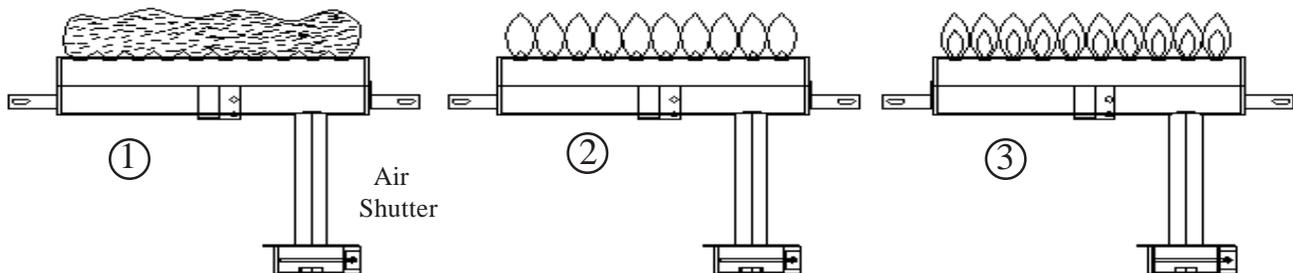
Locate the pilot adjustment screw on the valve. The pilot flame should surround at least the top 3/8" of the powerpilot (pilot generator) or thermocouple (see below). The pilot is unregulated so it will be operating at inlet line pressure (Max. 7" w.c. for natural gas and 11" w.c. for propane). To decrease the pilot flame, turn the screw clockwise (approximately seven to nine full turns to bottom of pilot light channel) until you produce sufficient flame at the minimum noise level.



## MAINTENANCE INSTRUCTIONS

1. Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners, pilot burners, circulating air passageways and venting systems of the appliance be kept clean.
2. If the appliance has been equipped with the optional WFF81-C fan kit assembly, the bearings of the motor should be oiled every six months with approximately 2 drops of S.A.E. 20 oil.
3. The appliance area must be kept clear and free of any combustible materials, gasoline and other flammable vapors and liquids.
4. It is essential that the flow of combustion and ventilation air not be obstructed.
5. Periodic examination of the entire ventilation system as a routine part of the safety performance check is recommended on an annual basis.

## BURNER FLAME ADJUSTMENT - STAINLESS STEEL BURNER



1. **FLAME TOO SOFT** - Yellow Flame. Open air shutters until yellow tipping disappears.

2. **FLAME TOO HARD** - Deep Blue Coloration. Closing air shutters to a point where yellow tipping begins, re-open slightly to eliminate yellow tipping. Air shutter adjustment is now correct.

3. **NORMAL FLAMES**

NOTE: It is advised that the burner flames be checked at least twice during the heating season for any changes in burner characteristics. Vacuum burner compartment at start of heating season or as often as needed.

# BBSK INSTALLATION INSTRUCTIONS

- STEP 1.** Select left or right side of front panel for most convenient location of the temperature control knob. Remember to choose the side that allows adequate clearance for accessibility to adjust the control knob.
- STEP 2.** On selected side, locate three (3) vertical dimples beginning approximately 20-1/2" above bottom of the front panel. See Figure 9.  
**\*On Gravity Wall Furnaces manufactured prior to November 2005 (without bracket hole dimples in the left and right side), you may use the gravity BBSK bracket as a template to locate holes. Measure 20-1/2" up on the preferred side, to locate lowest hole.**
- STEP 3.** Using these three (3) dimples as locator, drill three 1/4" holes.
- STEP 4.** Remove the BBSK control switch from the packing set. See Figure 10.
- STEP 5.** Secure P/N 40225 switch bracket to the BBSK control switch using two (2) #6x1/4" screws provided. See Figure 10.
- STEP 6.** Place BBSK control switch inside front panel, align engagement holes with clearance holes in P/N 40230 heat shield and the 1/4" drilled holes in the front panel. Attach using two (2) #8x1/2" screws provided. Make sure heat shield is between the BBSK control switch and the heat exchanger.
- STEP 7.** Connect each end of the black wires to the two outside terminals on the BBSK control switch, route wires down the inside of the front panel. See Figure 11.
- STEP 8.** Straighten the bulb capillary tube using extreme care not to bend or damage the tube, route the tube down the inside of the front panel.
- STEP 9.** Install the front panel onto the wall furnace.
- STEP 10.** Insert the control knob onto the control rod. See Figure 10.
- STEP 11.** Open the front panel door.
- STEP 12.** Connect one black wire to the stripped end of the blue blocked flue switch wire. Connect the other black wire to the "TH/TP" terminal on the gas valve. See Figure 11. **NOTE: If you are replacing an existing wall thermostat, you must first disconnect the thermostat wires from the gas valve.**
- STEP 13.** Secure the sensing bulb to the bottom of the gas valve using the nylon clamp and blunt screw provided. See Figure 12.
- STEP 14.** Close the front panel door.
- STEP 15.** Follow the lighting instructions to place the heater in operation.

# BBSK INSTALLATION INSTRUCTIONS

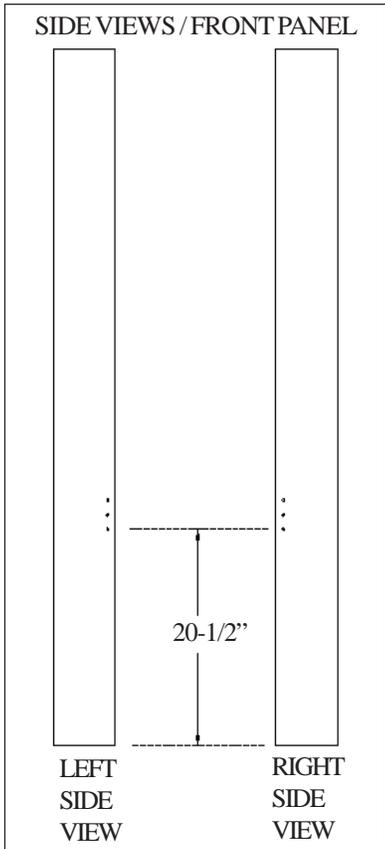


FIGURE 9

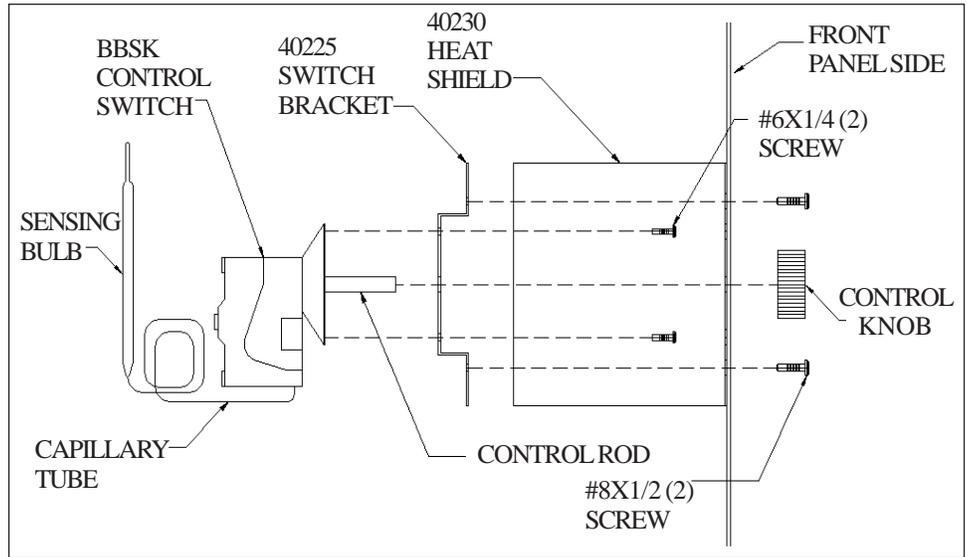


FIGURE 10

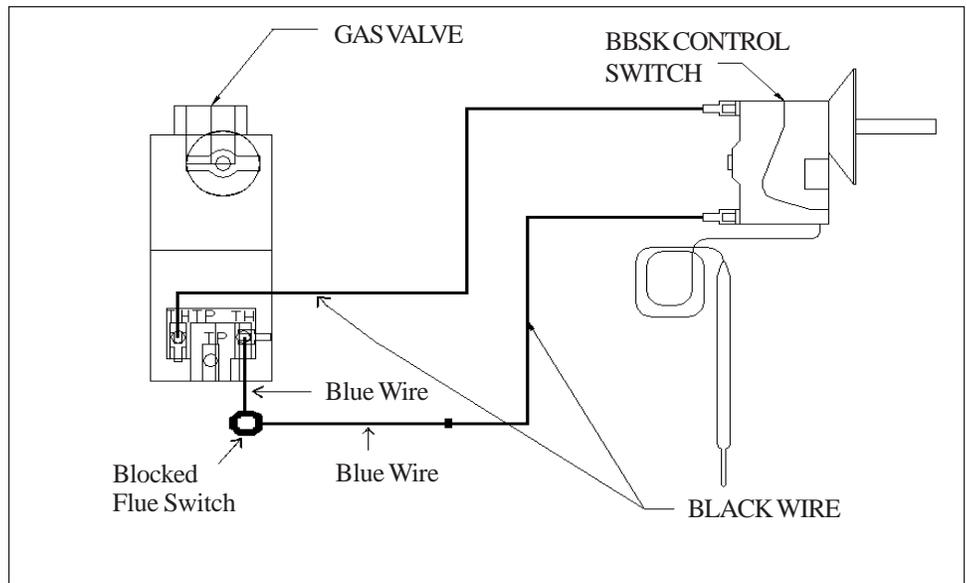


FIGURE 11

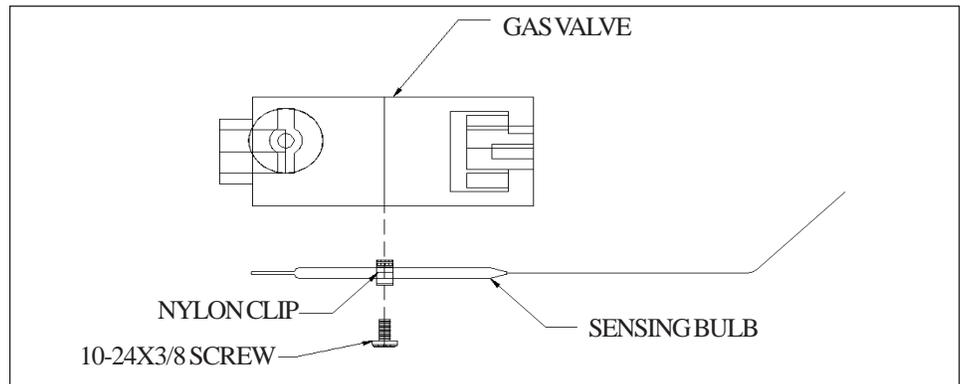


FIGURE 12

# BBSK KIT LIGHTING INSTRUCTIONS

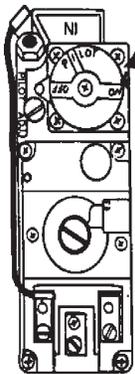
## FOR YOUR SAFETY READ BEFORE LIGHTING

**WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.**

- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS:
- Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

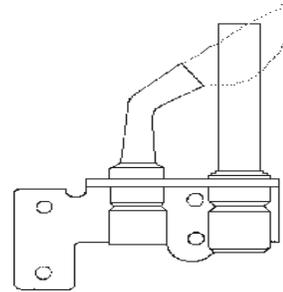
## LIGHTING INSTRUCTIONS

1. STOP! Read the information on the safety label.
2. Turn temperature control knob clockwise ↻ to "LO".
3. Open cabinet door.
4. Depress and turn gas control knob clockwise ↻ to "OFF".



GAS CONTROL KNOB

NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.



Pilot is located on side of burner

5. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the information on the safety label. If you don't smell gas, go to the next step.
6. Locate the pilot. (Follow metal pilot tube from gas control).
7. Turn gas control knob counterclockwise ↻ to "PILOT".
8. Depress gas control knob and hold in. Immediately light the pilot with a match. Continue to hold the gas control knob in for about one (1) minute after the pilot is lit. Release gas control knob and it will pop back up. Pilot should remain lit. If pilot goes out, repeat steps 4 through 8.
- If knob does not pop up when released, STOP and immediately call your service technician or gas supplier.
- If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
9. Turn gas control knob counterclockwise ↻ to "ON".
10. Close the cabinet door.
11. Turn temperature control knob to desired setting.

## TO TURN OFF GAS TO APPLIANCE

1. Turn temperature control knob clockwise ↻ to "LO".
2. Open cabinet door.
3. Push in gas control knob slightly and turn clockwise ↻ to "OFF". Do not force.
4. Close cabinet door.

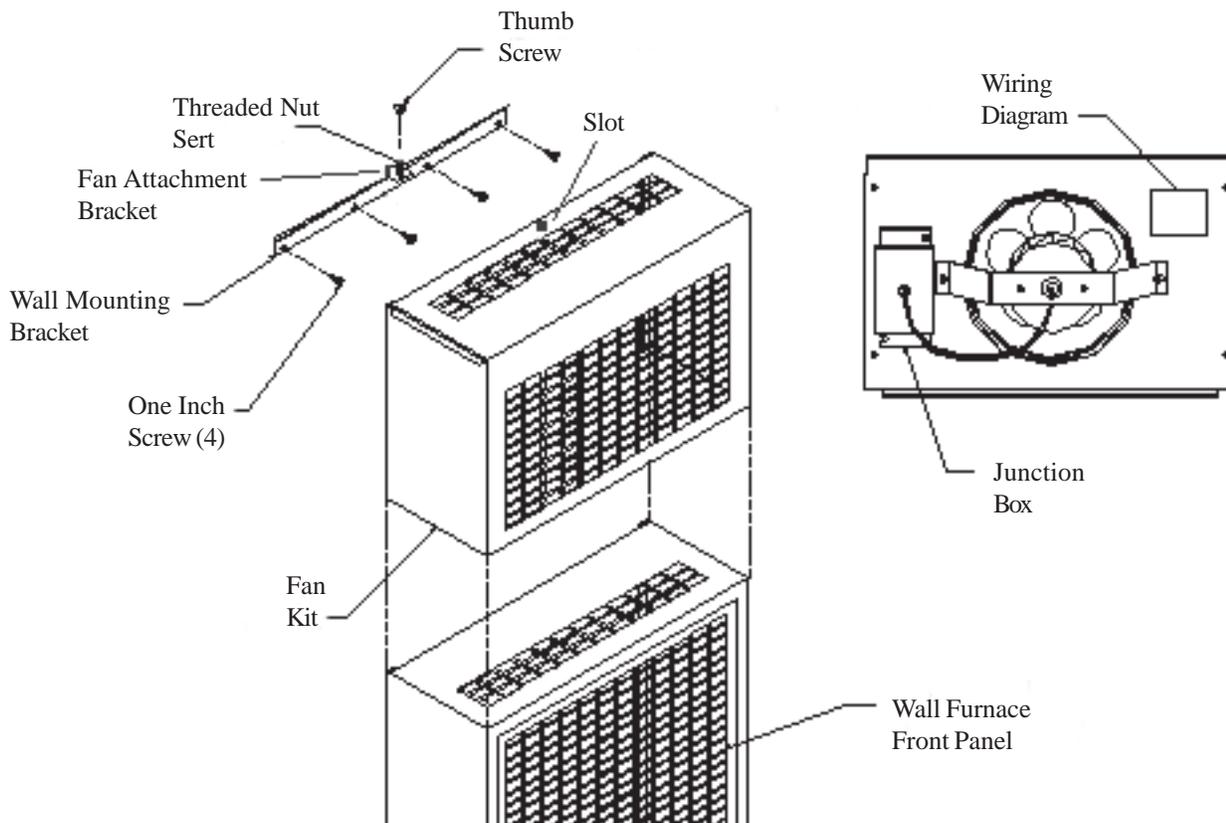
P/N 91288 09/05

# MODEL WFF81-C OPTIONAL FAN KIT

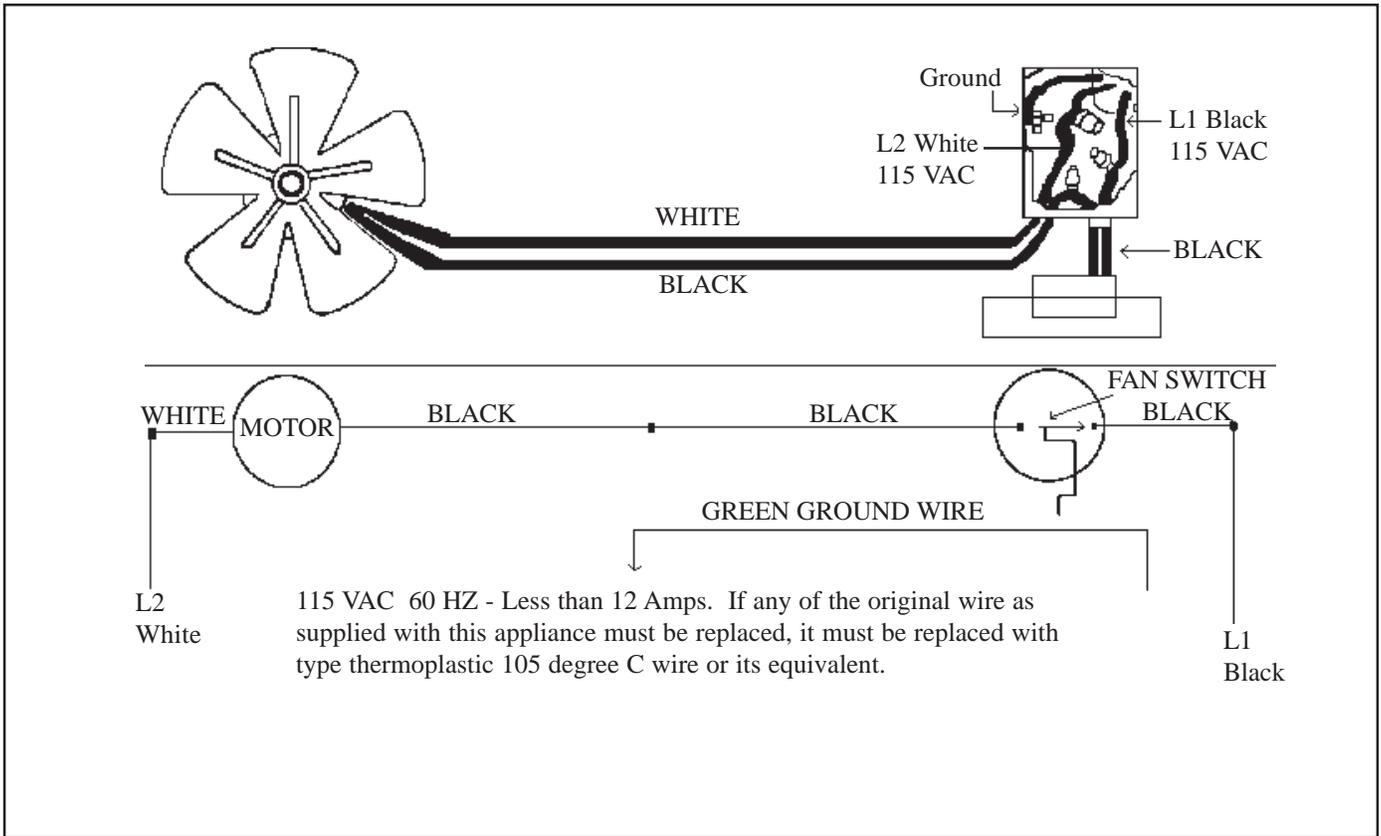
## INSTALLATION INSTRUCTIONS

**NOTE:** This fan kit is to be installed after installation of wall furnace and with the wall furnace front panel in place.

- STEP 1.** This appliance, when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes, with the latest edition of the National Electric Code, ANSI/NFPA No. 70. In Canada, see the current Canadian Electrical Code CSA C22.1.
- STEP 2.** Set fan kit on top of the wall furnace front panel. Using the back top edge of the fan kit cabinet as a guide, mark a horizontal line across the wall. Mark a small vertical line which aligns with the slot located toward the rear of the fan kit casing.
- STEP 3.** Using the four one inch screws provided, secure the wall mounting bracket to wall 1/8" below the horizontal line. Fan attachment bracket must be up and threaded nut sert aligned with the small vertical line. Note: Anchors (not provided) may be required.
- STEP 4.** Remove junction box and connect 115v power supply in accordance with the wiring diagram. Replace junction box.
- STEP 5.** Set fan kit on top of wall furnace front panel. Slot should align with the nut sert. Secure fan kit to wall mounting bracket with thumb screw provided.



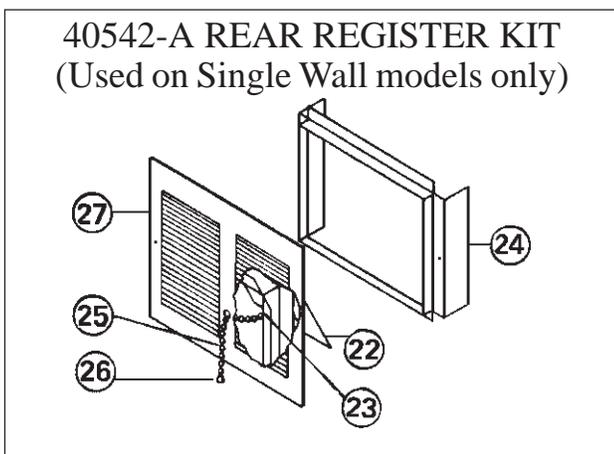
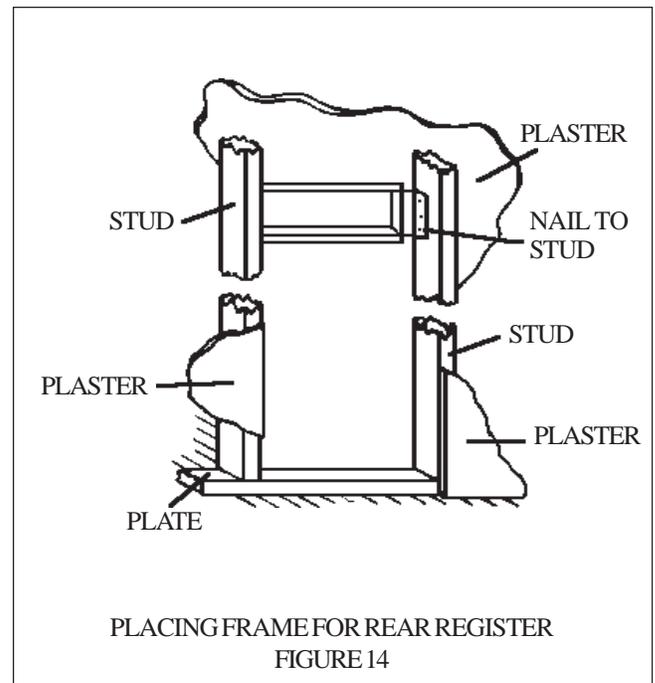
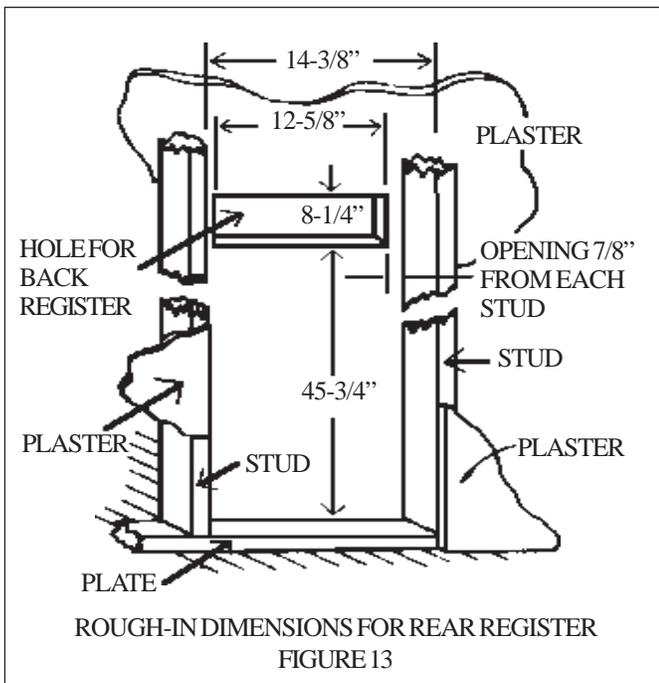
# WFF81-C WIRING SCHEMATIC



# 40542-A REAR REGISTER KIT (Optional Accessory)

## INSTALLATION INSTRUCTIONS FOR GRAVITY VENTED WALL FURNACES

- STEP 1. Cut hole within stud space behind heater in the back wall 8-1/4" high by 12-5/8" wide. The lower edge of the hole to be 45-3/4" above the floor plate or 47" from the floor (with standard 2"x4" floor base) as shown in Figure 13.
- STEP 2. Install plaster ground frame for rear register in hole and nail frame to stud as shown in Figure 14.
- STEP 3. REAR REGISTER INSTALLATION: Cut and remove embossed plates in inner and outer casing. Follow instructions for installation of regular furnace.
- STEP 4. After furnace is installed, attach rear register grille as shown in Figures 16 & 17 by insertion over plaster ground and attach with sheet metal screws, provided.
- STEP 5. Damper as shown in Figure 17 can be adjusted from full open for maximum heat to fully closed.

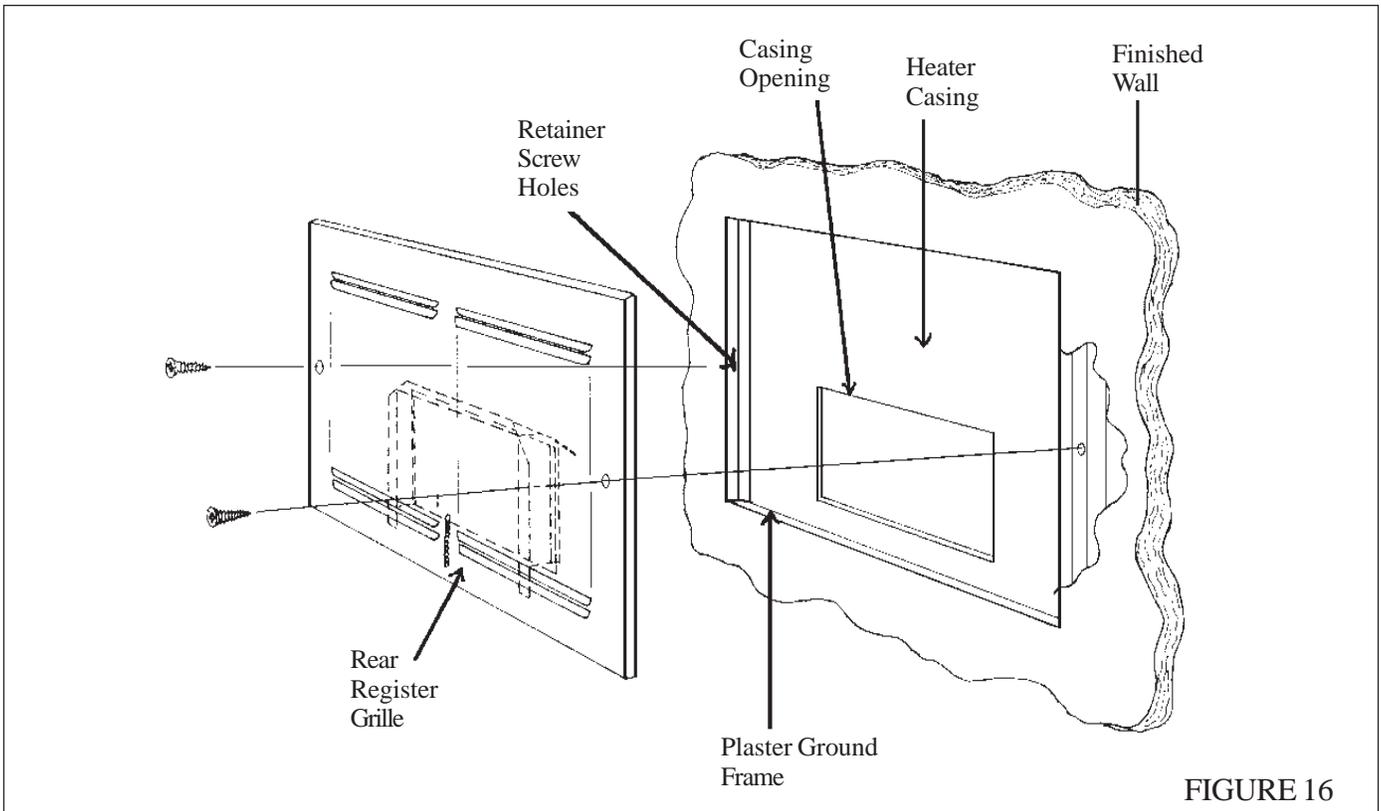
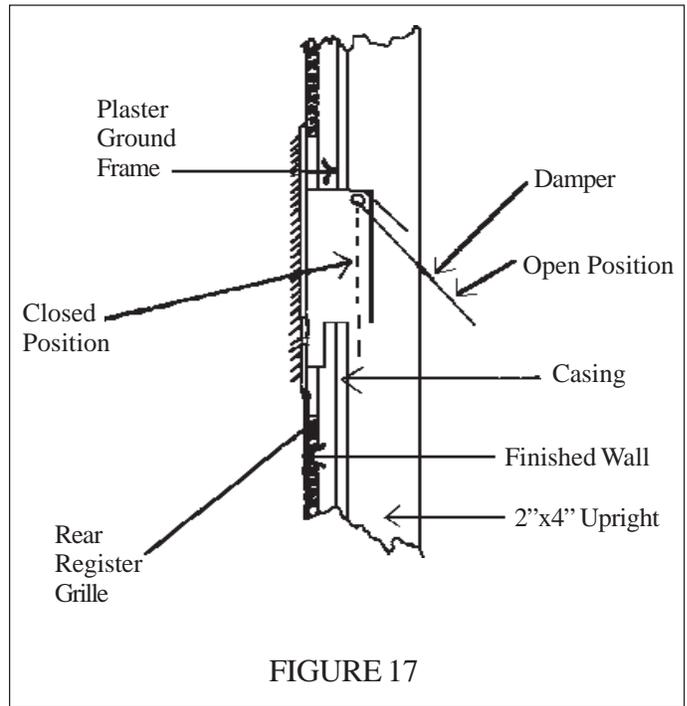
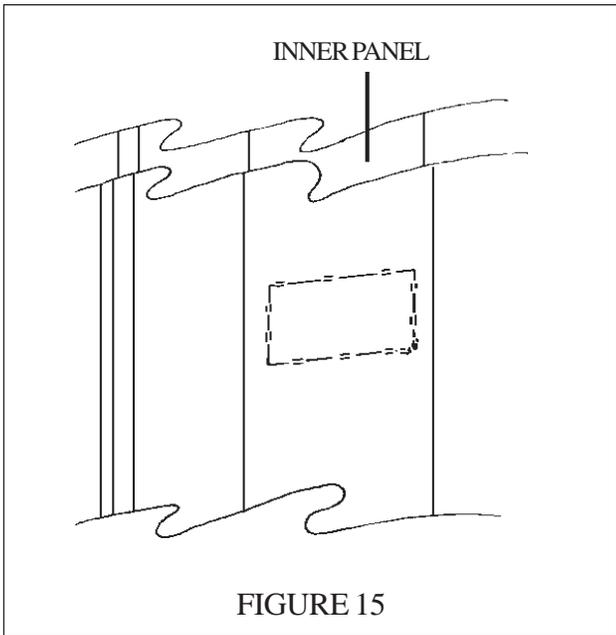


### 40542 REAR REGISTER KIT (W25/35 Series only)

<u>Part Description</u>	<u>Ref. No.</u>	<u>Part No.</u>
Damper	22	40375
Damper Spring	23	40377
Frame Assembly	24	40365
Register Chain	25	40379
Bell, Pull	26	85003
Register Assembly	27	40355
Installation Instructions	- -	84504

# 40542-A REAR REGISTER KIT - Continued

## INSTALLATION INSTRUCTIONS FOR GRAVITY VENTED WALL FURNACES



## **TROUBLE SHOOTING CHART for qualified service technician- MAIN BURNER**

<b>SYMPTOM</b>	<b>POSSIBLE CAUSES</b>	<b>CORRECTIVE ACTION</b>
Flame too large	<ol style="list-style-type: none"> <li>1. Defective operator section of gas valve.</li> <li>2. Burner orifice too large.</li> <li>3. If installed above 2,000 ft.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace complete valve.</li> <li>2. Check with local gas company for proper orifice size and replace.</li> <li>3. Refer to orifice chart, Page 3.</li> </ol>
Flame pops back	<ol style="list-style-type: none"> <li>1. Too much primary air.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust air shutter. (See Page 12).</li> </ol>
Noisy Flame	<ol style="list-style-type: none"> <li>1. Too much primary air.</li> <li>2. Noisy pilot.</li> <li>3. Burr in orifice (if it whistles or resonates).</li> <li>4. Excessive gas input.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust air shutter. (See Page 12).</li> <li>2. Reduce pilot gas with adjusting screw on combination gas control valve.</li> <li>3. Remove burr or replace orifice (Do not enlarge orifices).</li> <li>4. See "Flame Too Large" above.</li> </ol>
Yellow tip flame (some yellow tipping on L.P. gas is permissible)	<ol style="list-style-type: none"> <li>1. Too little primary air.</li> <li>2. Clogged main burner ports.</li> <li>3. Clogged draft hood.</li> <li>4. Linted up air shutter.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust air shutter. (See Page 12).</li> <li>2. Clean main burner ports. (Do not enlarge ports).</li> <li>3. Clean draft hood.</li> <li>4. Check for dust or lint at air mixer opening and around the shutter. Clean as necessary.</li> </ol>
Floating Flame	<ol style="list-style-type: none"> <li>1. Blocked venting.</li> <li>2. Insufficient primary air.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean flue passageways to remove blockage.</li> <li>2. Adjust air shutter to increase primary air supply. (See Page 12).</li> </ol>
Gas Odor	<ol style="list-style-type: none"> <li>1. Gas leak.</li> <li>2. Chimney or flue obstruction.</li> <li>3. Drafts around appliance.</li> </ol>	<ol style="list-style-type: none"> <li>1. Shut off gas service immediately. Check piping. Call gas company. (See Page 1).</li> <li>2. Clean flue.</li> <li>3. Eliminate drafts.</li> </ol>
Delayed Ignition	<ol style="list-style-type: none"> <li>1. Pilot flame too small.</li> <li>2. Burner ports clogged near pilot.</li> <li>3. Low gas pressure.</li> <li>4. Pilot decreases in size when main burners come on.</li> <li>5. Air shutter open too far.</li> <li>6. Drafts around appliance.</li> <li>7. Bad venting.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check pilot orifice, increase pilot gas flow if necessary by adjusting inlet pressure.</li> <li>2. Clean burner ports (Do not enlarge ports).</li> <li>3. Check gas supply pressure.</li> <li>4. Supply piping is inadequately sized. Consult local gas utility or competent installer.</li> <li>5. Close air shutter to proper setting as outlined in these instructions (slight yellow tipping is allowable on L.P. Gas). (See Page 12).</li> <li>6. Eliminate drafts.</li> <li>7. See "Venting".</li> </ol>
Failure to Ignite	<ol style="list-style-type: none"> <li>1. Main gas off.</li> <li>2. Defective gas valve.</li> </ol>	<ol style="list-style-type: none"> <li>1. Open all manual gas valves.</li> <li>2. Replace gas valve.</li> </ol>
Condensation of water vapor	<ol style="list-style-type: none"> <li>1. Improper venting.</li> </ol>	<ol style="list-style-type: none"> <li>1. See "Venting".</li> </ol>
Burner won't turn off	<ol style="list-style-type: none"> <li>1. Defective or sticking automatic valve.</li> <li>2. Excessive gas pressure (The supply gas pressure must not exceed 1/2 psi or 14" water column).</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean or replace valve.</li> <li>2. To correct this situation contact the utility supplying the gas.</li> </ol>
Incorrect gas input	<ol style="list-style-type: none"> <li>1. Gas input not checked.</li> <li>2. Clogged orifice.</li> </ol>	<ol style="list-style-type: none"> <li>1. Re-check gas input.</li> <li>2. Check orifice for clogging. If clogged, clean out the hole carefully with a smooth wood toothpick. (Do not in any way enlarge or distort it).</li> </ol>
Not enough heat	<ol style="list-style-type: none"> <li>1. Appliance undersized.</li> <li>2. Temperature dial set too low. (Bulb type valves).</li> <li>3. Incorrect supply pressure.</li> </ol>	<ol style="list-style-type: none"> <li>1. This is especially true when a dwelling or room is enlarged. Have the heat loss calculated and compare to the appliance output (70% of input). Your gas company or installer can supply you with this information. If appliance is undersized, replace with correct size unit.</li> <li>2. Raise setting of Temperature Dial. See "Lighting and Shutting Down Instructions".</li> <li>3. Check supply pressure as outlined above.</li> </ol>
Too much heat	<ol style="list-style-type: none"> <li>1. Temperature dial set too high.</li> <li>2. Combination control valve sticks open.</li> </ol>	<ol style="list-style-type: none"> <li>1. Lower setting of temperature dial. See "Lighting and Shutting Down Instructions".</li> <li>2. Replace combination control valve.</li> </ol>

## TROUBLE SHOOTING CHART - AUTOMATIC PILOT & VALVE

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
Burner won't turn on	<ol style="list-style-type: none"> <li>1. Pilot flame too large or too small.</li> <li>2. Dirt in pilot orifice.</li> <li>3. Defective automatic pilot section in combination control valve.</li> <li>4. Defective pilot generator.</li> <li>5. Defective combination control valve.</li> <li>6. Manual reset blocked flue switch tripped.</li> </ol>	<ol style="list-style-type: none"> <li>1. Re-adjust pilot flame using adjustment on combination control valve.</li> <li>2. Clean pilot orifice with air or solvent, do not ream.</li> <li>3. Replace entire combination control valve.</li> <li>4. Replace pilot generator.</li> <li>5. Replace valve.</li> <li>6. Reset switch, see Page 6 and blocked flue section below.</li> </ol>

## TROUBLE SHOOTING CHART - BLOCKED FLUE SWITCH (FOR QUALIFIED SERVICE TECHNICIAN)

POSSIBLE CAUSES	CORRECTIVE ACTION
1. Blockage in vent pipe	<ol style="list-style-type: none"> <li>A. Check vent pipe for blockage, such as bird nest, wasp nest, twigs, leaves, etc.</li> <li>B. Check inside the bottom of the vent pipe to make sure the top of the draft diverter did not rip the inner liner causing it to block part of the vent opening.</li> <li>C. Check that no insulation from the header plate got caught on top of the draft diverter when the heater was inserted into the wall.</li> <li>D. Check that the vent cap is properly installed, not shoved too far down on the vent pipe.</li> </ol>
2. Burner is overfiring	<ol style="list-style-type: none"> <li>A. Check the manifold pressure.</li> <li>B. Check the rate, NOTE: This appliance was orificed for elevations up to 2,000 feet. When installed at higher elevations refer to orifice chart in controls section of instructions for proper orifice size and re-orifice accordingly.</li> </ol>
3. Improper vent system A. Vent too short  B. Restriction in vent system caused by offsets  C. Incorrect vent pipe	<ol style="list-style-type: none"> <li>3. Correct vent system.               <ol style="list-style-type: none"> <li>A. The vent should terminate a minimum of 12 feet above the floor. See Figure 2. Also, the top of the vent must be at least 2 foot above any obstacle within a 10 foot radius, including the roof. See Figure A.</li> <li>B. All type "B" vents shall extend in a generally vertical direction with offsets not exceeding 45 degrees, except that a vent system having not more than one 60 degree offset may be allowed. Any angle greater than 45 degrees from the vertical is considered horizontal. The total horizontal run of a vent plus the horizontal vent connector shall be not greater than 75 percent of the vertical height of the vent. Any offsets used should be as far above the drafthood as possible to allow a venting action to begin before any restriction is encountered.</li> <li>C. Use listed BW type vent pipe. Do not use tansite or any other type of ceramic pipe for venting. Do not use single wall pipe. When venting into a masonry chimney the chimney must be properly lined and sized for this gas furnace. The use of type B or flexible chimney liner is recommended.</li> </ol> </li> </ol>
4. Incorrect header plate location	4. The header plate must be 65-3/4" above the floor plate. See rough-in instructions.
5. Vent pipe not down on the header plate securely	5. Use a base plate (obtained from the vent pipe manufacturer) on top of our header plate. This will lock the vent pipe down and prevent the draft diverter from shoving it up.
6. Loose connections on the vent safety wiring harness	6. Check the connection on both the switch and the gas valve. Tighten if necessary.

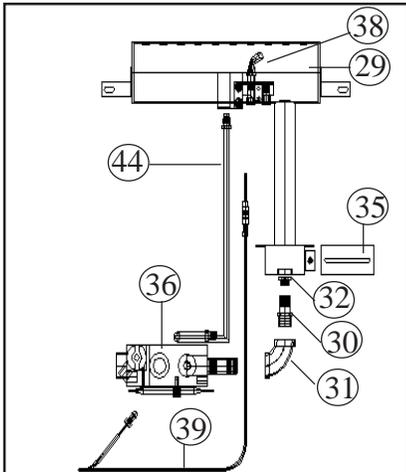
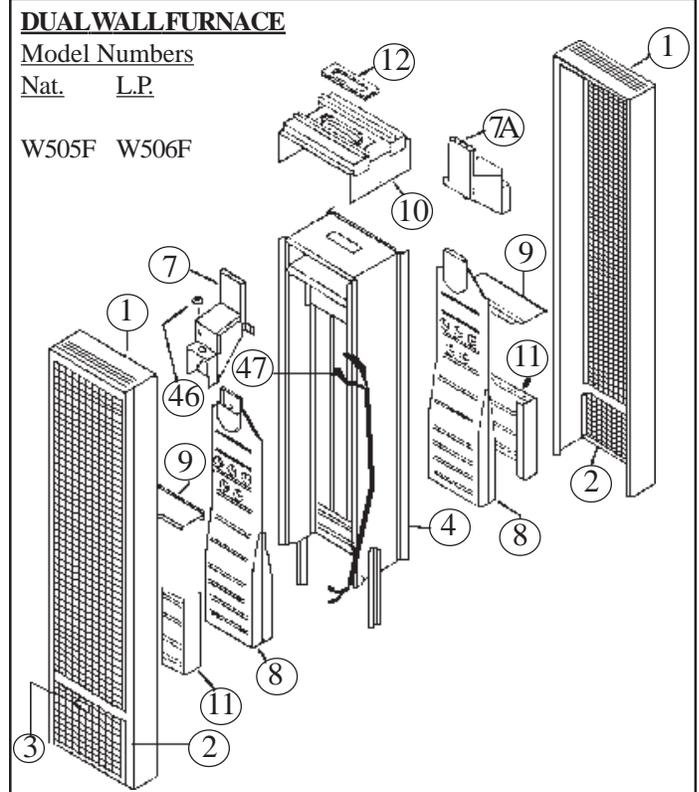
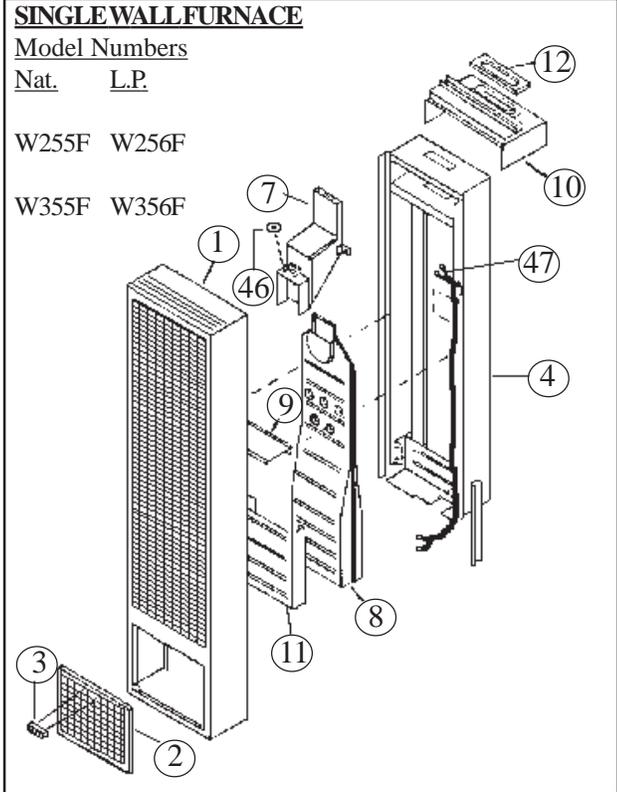
### **DO NOT BYPASS THE BLOCKED FLUE SWITCH**

**To do so could expose the consumer to property damage, personal injury or possible death.**

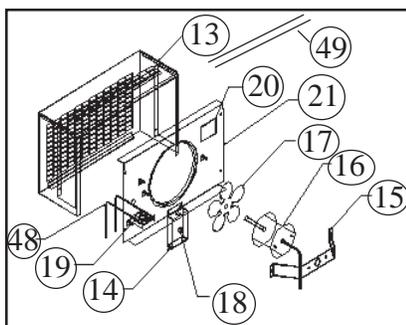


Prices and specifications subject to change without notice. All prices are F.O.B. factory.

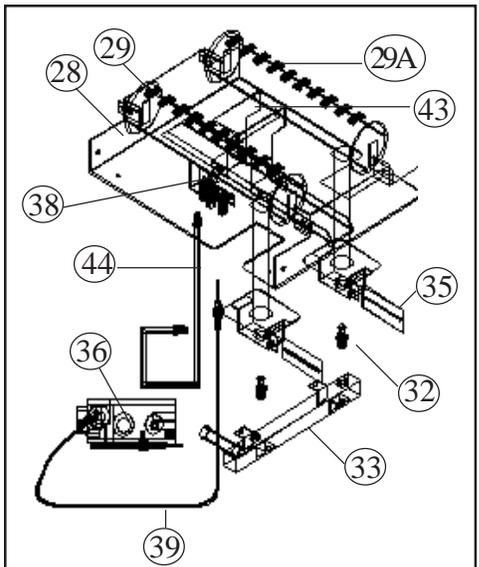
GRAVITY WALL FURNACE  
LIST PRICES - - MARCH 2013



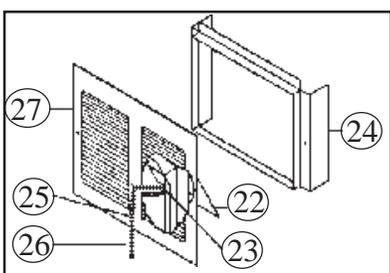
**BURNER ASSEMBLY/  
SINGLE WALL FURNACE**



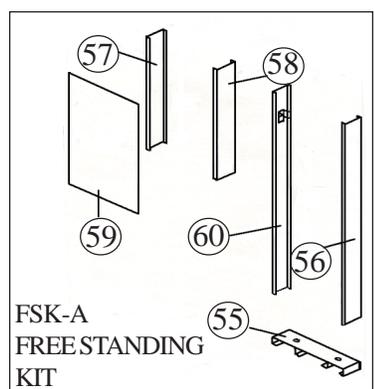
**WFF81-C FAN KIT** Used on Single and Dual Wall models



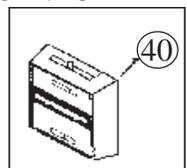
**BURNER ASSEMBLY/  
DUAL WALL FURNACE**



**REAR REGISTER KIT** - Used on Single Wall models only



**FSK-A  
FREE STANDING  
KIT**



**THERMOSTAT**

NOTICE: When ordering any component in the Burner Assembly, specify either Honeywell or Robertshaw components. REV.06/2006

**HOW TO PROPERLY ORDER PARTS:** In addition to part description and part number, please give model number, serial number, and type of gas used. This information can be found on the rating plate that is attached to heater.

FRONT PANEL, DOOR & BODY ASSEMBLY								WFF81-C FAN KIT			
FOR MODELS		W25F		W35F		W50F		(Fits all Models)			
PART DESCRIPTION	REF. NO.	PART NO.	LIST PRICE	PART NO.	LIST PRICE	PART NO.	LIST PRICE	PART DESCRIPTION	REF. NO.	PART NO.	LIST PRICE
Front Panel Assembly	1	# 40025	\$ 163.00	# 40025	\$ 163.00	##40025	\$ 163.00	Fan Cabinet	13	40304	\$ 43.10
Lower Door	2	40032	\$ 12.40	40032	\$ 12.40	*40032	\$ 12.40	Junction Box	14	40315	\$ 8.80
Handle Assembly	3	40033	\$ 5.70	40033	\$ 5.70	*40033	\$ 5.70	Motor Mounting Brk.	15	40313	\$ 5.30
Body Assembly	4	39805	\$ 203.00	39805	\$ 203.00	40103	\$ 234.00	Motor	16	85110	\$ 72.50
Draft Diverter Assembly	7	40042	\$ 48.10	40045	\$ 48.00	40141	\$ 44.10	Fan Blade	17	85115	\$ 10.40
Draft Diverter Assembly	7A	N/A	N/A	N/A	N/A	40140	\$ 44.70	Heyco Strain Relief	18	84155	\$ 1.60
Heat Exchanger	8	40260	\$ 166.60	40265	\$ 163.80	*40260	\$ 166.60	Fan Switch	19	84170	\$ 7.20
Upper Shield	9	40068	\$ 3.80	40068	\$ 3.80	*40068	\$ 3.80	Wiring Diagram (label)	20	91147	\$ 1.60
Header Assembly	10	40055	\$ 31.70	40055	\$ 31.70	40150	\$ 43.10	Fan Housing	21	40311	\$ 23.00
Lower Front Shield	11	40065	\$ 17.00	40065	\$ 17.00	*40065	\$ 17.00	Fan Switch Wire	48	*84171	\$ 2.10
Gasket Flue Pipe	12	78050	\$ 1.60	78050	\$ 1.60	78050	\$ 1.60	Wall Mtg. Bracket	49	40317	\$ 7.90
Blocked Flue Sw. 350 Deg.	46	84166	\$ 11.40	84166	\$ 11.40	84166	\$ 11.40	Installation Manual	N/A	84511	N/C
Wiring Harness/Wall	47	84133	\$ 11.40	84133	\$ 11.40	84133	\$ 11.40				
<b>BURNER ASSY. PARTS</b>		<b>W255/ W256F</b>				<b>W505F</b>		<b>40542-A REAR REGISTER KIT</b>			
<b>FOR MODELS:</b>		<b>W355/ W356F</b>				<b>W506F</b>		<b>(W25/35E &amp; F SERIES ONLY)</b>			
PART DESCRIPTION	REF. NO.	PART NO.	LIST PRICE	PART NO.	LIST PRICE	PART NO.	LIST PRICE	PART DESCRIPTION	REF. NO.	PART NO.	LIST PRICE
Burner, Support Assy.	28	N/A	N/A			40212	\$ 22.20	Damper	22	40375	\$ 3.00
Burner, Steel	29	84070	\$ 50.70			84070	\$ 50.70	Damper Spring	23	40377	\$ 2.40
Burner, Steel WITH Carry Over Tapping	29A	N/A	N/A			84071	\$ 66.30	Frame Assembly	24	40365	\$ 15.00
Burner Restrictor Plate for W506F#	N/A	N/A	N/A			#40220	\$ 2.60	Register Chain	25	40379	\$ 1.80
Orifice Coupling	30	84631	\$ 5.80			N/A	N/A	Bell, Pull	26	85003	\$ 1.60
Elbow 3/8 90 Degree	31	84124	\$ 2.50			N/A	N/A	Register Assembly	27	40355	\$ 23.80
Orifices	32	SEE ORIFICES						Installation Manual	N/A	84504	N/C
Manifold	33	N/A	N/A			84072	\$ 33.30	<b>FSK-A</b>			
Pipe Nipple	N/A	84123	\$ 2.20			N/A	N/A	<b>FREE STANDING KIT (W25/W35 only)</b>			
Pilot Tubing w/Fittings	44	74452	\$ 8.60			74452	\$ 8.60	Floor Plate Assembly	55	40405	\$ 24.60
Air Shutter	35	84078	\$ 3.50			*84078	\$ 3.50	Right Side Assembly	56	40410	\$ 37.60
Valves	36	SEE VALVES						Upper Left Side	57	40415	\$ 13.90
Pilots	38	SEE PILOTS						Upper Right Side	58	40416	\$ 13.90
Pilot Generator 23"	39	70098	\$ 39.60			70098	\$ 39.60	Upper Front	59	40418	\$ 23.60
Thermostat	40	74592	\$ 24.60			74592	\$ 24.60	Left Side Assembly	60	40422	\$ 36.40
Wire, Thermostat	41	74518	\$ 1.70			74518	\$ 1.70				
Carry Over Shield	43	N/A	N/A			40209	\$ 11.70				
Installation Instructions	N/A	84502	N/C			84502	N/C				
Lighting Instr., Wall	N/A	91254	\$ 5.60			91254	\$ 5.60				
<b>GAS VALVES (Ref. No. 36)</b>				<b>PILOTS (Ref. No. 38)</b>				<b>ORIFICES (Ref. # 32)</b>			
PART DESCRIPTION	PART NO.	LIST PRICE	MODEL NO.	PART NO.	LIST PRICE	PART DESCRIPTION	PART NO.	LIST PRICE			
6003 Natural Gas Dexen Valve	84085	\$ 166.60	W255F	84128	\$ 12.00	Q350A1545 Nat.	84639	\$ 4.20			
6003 L.P. Gas Dexen Valve	84086	\$ 177.20	W256F	84127	\$ 12.00	Q350A1867 LP.	84634	\$ 4.20			
6003 Natural Gas Dexen Valve	84085	\$ 166.60	W355F	84128	\$ 12.00	Q350A1545 Nat.	84642	\$ 4.20			
6003 L.P. Gas Dexen Valve	84086	\$ 177.20	W356F	84127	\$ 12.00	Q350A1867 LP.	84644	\$ 4.20			
6003 Natural Gas Dexen Valve	84085	\$ 166.60	W505F	84128	\$ 12.00	Q350A1545 Nat.	*95274	\$ 4.20			
6003 L.P. Gas Dexen Valve	84086	\$ 177.20	W506F	84127	\$ 12.00	Q350A1867 LP.	*84648	\$ 4.20			
<b>ATTN: CONTRACTORS AND SERVICE TECHNICIANS, we only sell parts through our wholesalers, but the prices listed above are for your convenience. For prompt parts service, contact the wholesaler from which you purchased your Cozy heater. NOTE: Parts &amp; schematic drawings on current models are shown at <a href="http://www.cozyheaters.com">www.cozyheaters.com</a>.</b>											
# 40025 Includes Lower Door (40032) and Handle Assembly (40033)											

\*TWO REQUIRED

# LIMITED WARRANTY

The Louisville Tin & Stove Co. warrants to the original user the accompanying product for the period specified herein, provided said product is installed, operated, maintained, serviced, and used according to the instructions and specifications accompanying the product. **AS OUTLINED IN OUR INSTRUCTIONS, ANY WARRANTY CONSIDERATIONS ARE CONTINGENT ON INSTALLATION BY A QUALIFIED INSTALLER (CONTRACTOR). SELF-INSTALLATION IS PROHIBITED AND WILL INVALIDATE YOUR WARRANTY.**

If within a period of one year from the date of installation of the product, any part supplied by the manufacturer proves to be defective due to workmanship or material, it will replace such part, provided parts have not been subjected to misuse, alteration, neglect, or accidents. The term of the warranty for the heat exchanger and burners is covered in Table A below. Any claim not made within ten (10) days after the expiration of the warranty period shall be deemed waived by the user.

The manufacturer shall have no liability or be required to perform any obligation under this warranty unless, when requested, the user returns, at the user's expense, the component or product claimed defective, to the manufacturer for inspection, to enable the manufacturer to determine if the claimed defect is covered by this warranty.

No charges for freight, labor or other expenses incurred in the repair, removal, or replacement of any product or component claimed to be defective, will be paid by the manufacturer to the user, and the manufacturer will not be liable for any expenses incurred, by the user, in remedying any defect in the product.

Service under this warranty is the responsibility of the installer. In the event service under this warranty is needed, the user of the product

shall request such service directly from the installer. If the user is unable to locate the installer, the user should write directly to the manufacturer, and the name of an alternative service source will be supplied.

The product safety registration card (packed inside the appliance) must be completed and returned to the factory.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED (WHETHER WRITTEN OR ORAL). ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY LIMITED TO THE DURATION OF THE MANUFACTURER'S EXPRESS, WRITTEN WARRANTY.

UNDER NO CIRCUMSTANCES SHALL THE MANUFACTURER BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR EXPENSES ARISING DIRECTLY OR INDIRECTLY FROM ANY COMPONENT OR FROM THE USE THEREOF. THE REMEDIES SET FORTH HEREIN SHALL BE THE EXCLUSIVE REMEDIES AVAILABLE TO THE USER AND ARE IN LIEU OF ALL OTHER REMEDIES.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY, FROM STATE TO STATE.

**TABLE A**

<u>Product</u>	<u>Warranty Period</u>	
	<u>Heat Exchanger/Tubes</u>	<u>Burners</u>
Cozy Gas Fired Floor Furnace	10 Years	10 Years
Cozy Gas Fired Wall Furnace	10 Years	10 Years
Cozy Gas Fired Vented Console Heater	10 Years	10 Years
Cozy Gas Fired Direct Vent Heater	10 Years	10 Years
Cozy Gas Fired Counterflow Furnace	10 Years	10 Years
Cozy Gas Fired Counterflow Direct Vent Furnace	10 Years	10 Years
Cozy Gas Fired Mobile Home Direct Vent Furnace	10 Years	10 Years
Cozy Gas Fired Hi-Efficient Direct Vent Wall Furnace	10 Years	10 Years
Cozy Gas Fired Direct Vent Baseboard Heater	10 Years	10 Years
Cozy Fan-Type, Direct Vent Through-The-Wall Gas Heater	10 Years	10 Years
Cozy Blue Flame Vent Free Heater	N/A	10 Years
Cozy Infra-Red Vent Free Heater	N/A	N/A

**LOUISVILLE TIN & STOVE COMPANY**

737 S. 13<sup>TH</sup> STREET - LOUISVILLE, KY. 40210