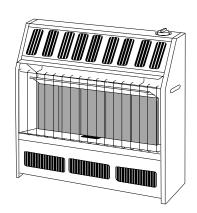
INFRARED VENT-FREE NATURAL GAS HEATER OWNER'S OPERATION AND INSTALLATION MANUAL

FA-3B FAS-3C FA-5B FAS-5C





WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

- 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.

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.

WARNING: This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to *Air For Combustion and Ventilation* section on page 4 of this manual.

This appliance may be installed in an aftermarket*, permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

^{*} Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer



SAFETY INFORMATION



IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this heater. Improper use of this heater can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

A DANGER: Carbon monoxide poisoning may lead to death!

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, the heater may not be working properly. Get fresh air at once! Have heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, persons with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

Natural Gas: Natural gas is odorless. An odor-making agent is added to natural gas. The odor helps you detect a natural gas leak. However, the odor added to natural gas can fade. Natural gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this heater.

WARNING: Any change to this heater or its controls can be dangerous.

WARNING: Do not use any accessory not approved for use with this heater.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

Do not place clothing or other flammable material on or near the appliance. Never place any objects on the heater.

Surface of heater becomes very hot when running heater. Keep children and adults away from hot surface to avoid burns or clothing ignition. Heater will remain hot for a time after shutdown. Allow surface to cool before touching.

Carefully supervise young children when they are in the same room with heater.

Make sure grill guard is in place before running heater.

Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

- 1. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.
- 2. If you smell gas
 - Shut off gas supply.
 - 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

- 3. This heater shall not be installed in a bedroom or bathroom.
- Always run non-thermostat heater with plaque control knob in a locked position. Never set control knob between locked positions. Poor combustion and higher levels of carbon monoxide may result.
- 5. This heater needs fresh, outside air ventilation to run properly. This heater has an Oxygen Depletion Sensor (ODS) safety shutoff system. The ODS shuts down the heater if not enough fresh air is available. See Fresh Air for Combustion and Ventilation, pages 4 through 6.
- Keep all air openings in front and bottom of heater clear and free of debris.
 This will insure enough air for proper combustion.
- 7. If heater shuts off, do not relight until you provide fresh, outside air. If heater keeps shutting off, have it serviced.
- 8. Do not run heater
 - where flammable liquids or vapors are used or stored
 - under dusty conditions
- Before using furniture polish, wax, carpet cleaner, or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls or furniture.
- 10. Do not use heater if any part has been under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- 11. Turn off and unplug heater and let cool before servicing. Only a qualified service person should service and repair heater.
- 12. Operating heater above elevations of 4,500 feet could cause pilot outage.

PRODUCT IDENTIFICATION

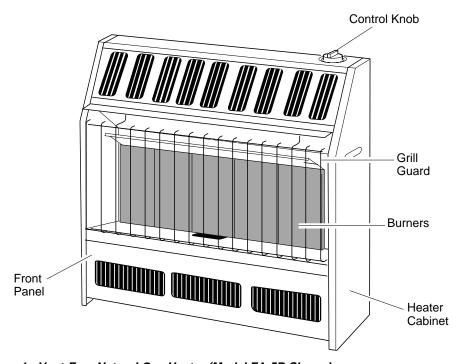


Figure 1 - Vent-Free Natural Gas Heater (Model FA-5B Shown)

UNPACKING

Install and use heater with care. Follow all local codes. In the absence of local codes, use the latest edition of National Fuel Gas Code ANS Z223.1, also known as NFPA 54*.

LOCAL CODES

*Available from:

American National Standards Institute, Inc. 1430 Broadway New York, NY 10018

National Fire Protection Association, Inc. Batterymarch Park Quincy, MA 02269

PRODUCT FEATURES

SAFETY DEVICE

This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS/pilot is a required feature for vent-free room heaters. The ODS/pilot shuts off the heater if there is not enough fresh air.

PIEZO IGNITION SYSTEM

This heater has a piezo ignitor. This system requires no matches, batteries, or other sources to light heater.

THERMOSTATIC HEAT **CONTROL ON THERMOSTAT MODELS FAS-3C AND FAS-5C**

These heaters have a control valve with a thermostat sensing bulb. This results in the greatest heater comfort and may result in lower gas bills.

- Remove heater from carton.
- Remove all protective packaging applied to heater for shipment.
- Check heater for any shipping damage. If heater is damaged, promptly inform dealer where you bought heater.



FRESH AIR FOR COMBUSTION AND VENTILATION

WARNING: This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

Today's homes are built more energy efficient than ever. New materials, increased insulation, and new construction methods help reduce heat loss in homes. Home owners weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, home owners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, fireplaces, clothes dryers, and fuel burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will insure proper venting of vented fuel-burning appliances.

PRODUCING ADEQUATE VENTILATION

The following are excerpts from *National Fuel Gas Code*, *NFPA 54/ANS Z223.1*, *Section 5.3*, *Air for Combustion and Ventilation*.

All spaces in homes fall into one of the three following ventilation classifications:

- 1. Unusually Tight Construction
- 2. Unconfined Space
- 3. Confined Space

The information on pages 4 through 6 will help you classify your space and provide adequate ventilation.

Unusually Tight Construction

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

Unusually tight construction is defined as construction where:

- a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm (6 x 10⁻¹¹ kg per pa-sec-m²) or less with openings gasketed or sealed <u>and</u>
- weather stripping has been added on openable windows and doors and
- c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings.

If your home meets all of the three criteria above, you must provide additional fresh air. See *Ventilation Air From Outdoors*, page 6.

If your home does not meet all of the three criteria above, see *Determining Fresh-Air Flow for Heater Location*, page 5

Confined and Unconfined Space

The National Fuel Gas Code ANS Z223.1 defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed*, through openings not furnished with doors, are considered a part of the unconfined space.

This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air.

* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

FRESH AIR FOR COMBUSTION AND VENTILATION

Continued

DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

Determining if You Have a Confined or Unconfined Space

Use this worksheet to determine if you have a confined or unconfined space.

Space: Includes the room in which you will install heater plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

1.	Determine the volume of the space (length x width x h	eight).	
	Length x Width x Height =	u. ft. (volume of space)	
	Example: Space size 20 ft. (length) x 16 ft. (width) x	3 ft. (ceiling height) = 2560 cu. ft. (volume of space)	
	If additional ventilation to adjoining room is supplied the space.	vith grills or openings, add the volume of these rooms to the total volume of	эf
2.	Divide the space volume by 50 cubic feet to determine	the maximum Btu/Hr the space can support.	
	(volume of space) ÷ 50 cu. ft. =	(Maximum Btu/Hr the space can support)	
	Example: 2560 cu. ft. (volume of space) ÷ 50 cu. ft. =	51.2 or 51,200 (maximum Btu/Hr the space can support)	
3.	Add the Btu/Hr of all fuel burning appliances in the sp	ace.	
	Vent-free heaterBtu/Hr		
	Gas water heater*Btu/Hr	Example:	
	Gas furnaceBtu/Hr	Gas water heater 40,000 Btu/Hr	
	Vented gas heaterBtu/Hr	Vent-free heater + 18,000 Btu/Hr	
	Gas fireplace logsBtu/Hr	Total = $58,000$ Btu/Hr	
	Other gas appliances* +Btu/Hr	20,000	
	Total = Btu/Hr		
	* Do not include direct-vent gas appliances. Direct-vent	at draws combustion air from the outdoors and vents to the outdoors.	
4.	Compare the maximum Btu/Hr the space can support	vith the actual amount of Btu/Hr used.	
	Btu/Hr (maximum the space can suppo	rt)	
	Btu/Hr (actual amount of Btu/Hr used)		
	Example: 51,200 Btu/Hr (maximum the space can	upport)	
	58,000 Btu/Hr (actual amount of Btu/Hr	used)	

The space in the above example is a confined space because the actual Btu/Hr used is more than the maximum Btu/Hr the space can support. You must provide additional fresh air. Your options are as follows:

- A. Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See *Ventilation Air From Inside Building*, page 6.
- B. Vent room directly to the outdoors. See Ventilation Air From Outdoors, page 6.
- C. Install a lower Btu/Hr heater, if lower Btu/Hr size makes room unconfined.

If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

WARNING: If the area in which the heater may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the *National Fuel Gas Code*, *ANS Z223.1*, *Section 5.3* or applicable local codes.

Continued



FRESH AIR FOR COMBUSTION AND VENTILATION

Continued

VENTILATION AIR

Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (see options 1 and 2, Figure 2). You can also remove door into adjoining room (see option 3, Figure 2). Follow the *National Fuel Gas Code NFPA 54/ANS Z223.1, Section 5.3, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

MARNING: Rework worksheet, adding the space of the adjoining unconfined space. The combined spaces must have enough fresh air to supply all appliances in both spaces.

Ventilation Air From Outdoors

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the National Fuel Gas Code NFPA 54/ANS Z223.1, Section 5.3, Airfor Combustion and Ventilation for required size of ventilation grills or ducts.

IMPORTANT: Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.

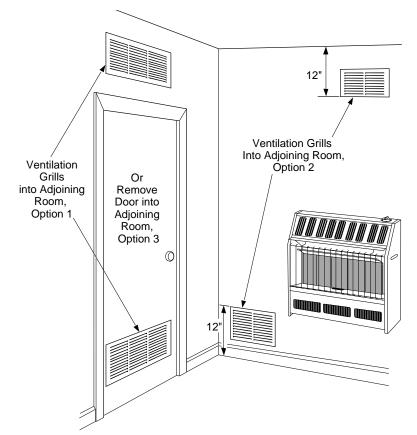


Figure 2 - Ventilation Air from Inside Building

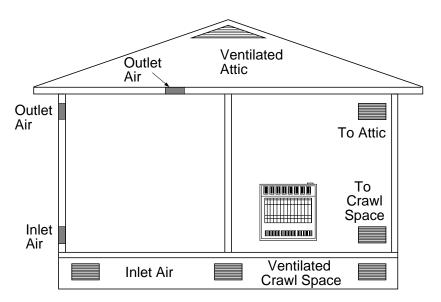


Figure 3 - Ventilation Air from Outdoors

INSTALLATION

NOTICE: This heater is intended for use as supplemental heat. Use this heater along with your primary heating system. Do not install this heater as your primary heat source. If you have a central heating system, you may run system's circulating blower while using heater. This will help circulate the heat throughout the house. In the event of a power outage, you can use this heater as your primary heat source.

WARNING: A qualified service person must install heater. Follow all local codes.

CHECK GAS TYPE

Use only natural gas. If your gas supply is not natural, do not install heater. Call dealer where you bought heater for proper type heater.

INSTALLATION ITEMS

Before installing heater, make sure you have the items listed below.

- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve *
- · ground joint union
- test gauge connection *
- · sediment trap
- tee joint
- · pipe wrench

* A CSA/AGA design-certified equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional CSA/AGA design-certified equipment shutoff valve from your dealer. See *Accessories*, page 19.

LOCATING HEATER

This heater is designed to be mounted on a wall.

WARNING: Maintain the minimum clearances shown in Figure 4. If you can, provide greater clearances from floor, ceiling, and joining wall.

You can locate heater on floor, away from a wall. An optional floor mounting stand is needed. Purchase the floor mounting stand from your dealer. See *Accessories*, page 19.

WARNING: Never install the heater

- in a bedroom or bathroom
- · in a recreational vehicle
- where curtains, furniture, clothing, or other flammable objects are less than 36 inches from the front, top, or sides of the heater
- · as a fireplace insert
- · in high traffic areas
- in windy or drafty areas

A CAUTION: If you install the heater in a home garage

- heater pilot and burner must be at least 18 inches above floor
- locate heater where moving vehicle will not hit it

A CAUTION: This heater creates warm air currents. These currents move heat to wall surfaces next to heater. Installing heater next to vinyl or cloth wall coverings or operating heater where impurities (such as tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls.

IMPORTANT: Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See *Fresh Air for Combustion and Ventilation*, pages 4 through 6.

For convenience and efficiency, install heater

- where there is easy access for operation, inspection, and service
- in coldest part of room

An optional fan kit is available from your dealer. See *Accessories*, page 19. If planning to use fan, locate heater near an electrical outlet.

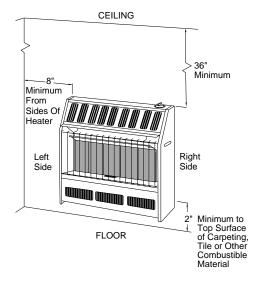


Figure 4-Mounting Clearances As Viewed From Front of Heater

INSTALLING THERMOSTAT SENSING BULB -For T-Stat Models Only

Remove clip and bulb from shipping location. Place clip and bulb into operation location (see Figure 7)

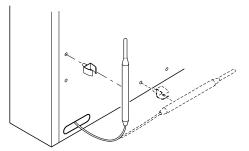


Figure 5 - Moving Thermostat Sensing Bulb

Continued



INSTALLATION

Continued

INSTALLING HEATER TO WALL

Mounting Bracket

The mounting bracket is located on back panel of heater. It has been taped there for shipping. Remove mounting bracket from back panel.

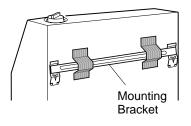


Figure 6 - Mounting Bracket Location

Removing Front Panel Of Heater Models FAS-3C and FAS-5C

- Remove two screws near bottom corners of front panel.
- Lift straight up on grill guard until it stops.
 Grill guard will slide up about 1/4".
- 3. Pull bottom of front panel forward, then down (see Figure 7).

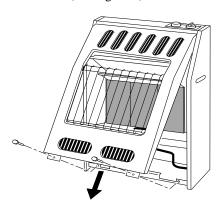


Figure 7 - Removing Front Panel of Heater (Model FAS-3B Shown)

Removing Front Panel Of Heater Models FA-3B and FA-5B

- 1. Remove two screws near bottom corners of lower front panel.
- 2. Pull bottom of lower front panel forward, then down (see Figure 8).

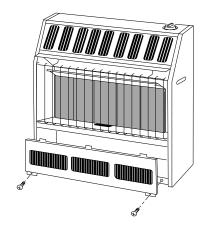


Figure 8-Removing Front Panel of Heater (Model FA-5B Shown)

Methods For Attaching Mounting Bracket To Wall

Only use last hole on each end of mounting bracket to attach bracket to wall. These two holes are 16 inches apart from their centers. Attach mounting bracket to wall in one of two ways.

- 1. Attaching to wall stud
- 2. Attaching to wall anchor

Attaching to Wall Stud: This method provides the strongest hold. Insert mounting screws through mounting bracket and into wall studs.

Attaching to Wall Anchor: This method allows you to attach mounting bracket to hollow walls (wall areas between studs) or to solid walls (concrete or masonry).

Decide which method better suits your needs. Either method will provide a secure hold for the mounting bracket.

8

Marking Screw Locations

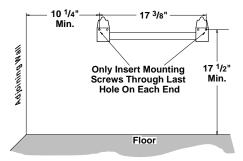
1. Tape mounting bracket to wall where heater will be located. Make sure mounting bracket is level.

WARNING: Maintain minimum clearances shown in Figure 8. If you can, provide greater clearances from floor and joining wall.

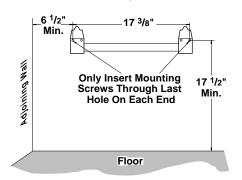
2. Mark screw locations on wall (see Figure 9).

Note: Only mark last hole on each end of mounting bracket. Insert mounting screws through these holes only.

3. Remove tape and mounting bracket from wall.



Model FA-5B, FAS-5B



Model FA-3B, FAS-3B

Figure 9 - Mounting Bracket Clearances

INSTALLATION

Continued

Attaching Mounting Bracket To Wall

Note: Wall anchors, mounting screws, and spacers are in hardware package. The hardware package is provided with heater.

Attaching to Wall Stud Method

For attaching mounting bracket to wall studs

- 1. Drill holes at marked locations using 9/64" drill bit.
- Place mounting bracket onto wall. Line up last hole on each end of bracket with holes drilled in wall.
- 3. Insert mounting screws through bracket and into wall studs.
- 4. Tighten screws until mounting bracket is firmly fastened to wall studs.

Attaching to Wall Anchor Method

For attaching mounting bracket to hollow walls (wall areas between studs) or solid walls (concrete or masonry)

- 1. Drill holes at marked locations using 5/16" drill bit. For solid walls (concrete or masonry), drill at least 1" deep.
- 2. Fold wall anchor as shown in Figure 10.
- 3. Insert wall anchor (wings first) into hole. Tap anchor flush to wall.
- 4. For thin walls (1/2" or less), insert red key into wall anchor. Push red key to "pop" open anchor wings (see Figure 11). *IMPORTANT:* Do not hammer key!For thick walls (over 1/2" thick) or solid walls, do not pop open wings.
- Place mounting bracket onto wall. Line up last hole on each end of bracket with wall anchors.
- 6. Insert mounting screws through bracket and into wall anchors.
- 7. Tighten screws until mounting bracket is firmly fastened to wall.

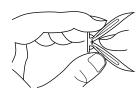


Figure 10 - Folding Anchor

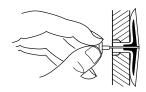


Figure 11 - Popping Open Anchor Wings For Thin Walls

Placing Heater On Mounting Bracket

- 1. Locate two horizontal slots on back panel of heater (see Figure 12).
- 2. Place heater onto mounting bracket. Slide horizontal slots onto stand-out tabs on mounting bracket.

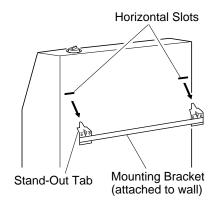


Figure 12 - Mounting Heater Onto Mounting Bracket

Installing Bottom Mounting Screws

- 1. Locate two bottom mounting holes. These holes are near bottom on back panel of heater (see Figure 13).
- 2. Mark screw locations on wall.
- 3. Remove heater from mounting bracket.
- 4. If installing bottom mounting screws into hollow or solid wall, install wall anchors. Follow steps 1 through 4 under *Attaching To Wall Anchor Method*. If installing bottom mounting screw into wall stud, drill holes at marked locations using 9/64" drill bit.
- 5. Replace heater onto mounting bracket.
- 6. Place spacers between bottom mounting holes and wall anchor or drilled hole.
- 7. Hold spacer in place with one hand. With other hand, insert mounting screw through bottom mounting hole and spacer. Place tip of screw in opening of wall anchor or drilled hole.
- 8. Tighten both screws until heater is firmly secured to wall. Do not over tighten.

Note: Do not replace front panel at this time. Replace front panel after making gas connections and checking for leaks (see pages 10 and 11).

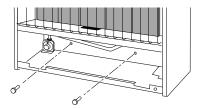


Figure 13 - Installing Bottom Mounting Screws

Continued



INSTALLATION

Continued

CONNECTING TO GAS SUPPLY

WARNING: This appliance requires a 3/8" NPT (National Pipe Thread) inlet connection to the pressure regulator.

WARNING: A qualified service person must connect heater to gas supply. Follow all local codes.

WARNING: Never connect heater to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

IMPORTANT: Check gas line pressure before connecting heater to gas line. Gas line pressure must be no greater than 14 inches of water. If gas line pressure is higher, heater regulator damage could occur.

CAUTION: Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of large enough diameter to allow proper gas volume to heater. If pipe is too small, undue loss of pressure will occur.

Typical Inlet Pipe Diameters

FA-3B/FAS-3C 3/8" or greater FA-5B/FAS-5C 1/2" or greater

Installation must include equipment shutoff valve, union, and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater (see Figure 14).

IMPORTANT: Install an equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance.

Apply pipe joint sealant lightly to male threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.

A CAUTION: Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

Install sediment trap in supply line as shown in Figure 14. Locate sediment trap where it is within reach for cleaning. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

IMPORTANT: Hold pressure regulator with wrench when connecting it to gas piping and/or fittings.

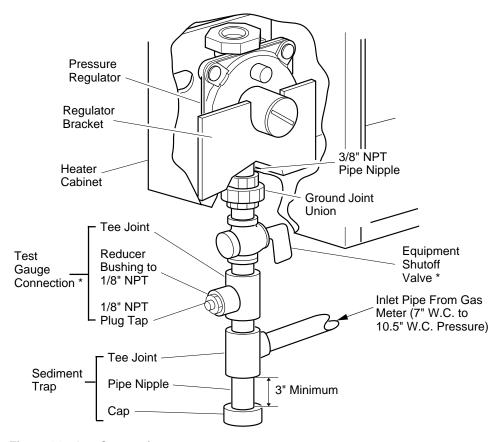


Figure 14 - Gas Connection

* A CSA/AGA design-certified equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional CSA/AGA design-certified equipment shutoff valve from your dealer. See *Accessories*, page 19.

INSTALLATION

Continued

CHECKING GAS CONNECTIONS

WARNING: Test all gas piping and connections for leaks after installing or servicing. Correct all leaks at once.

WARNING: Never use an open flame to check for a leak. Apply a mixture of liquid soap and water to all joints. Bubbles forming show a leak. Correct all leaks at once.

Pressure Testing Gas Supply Piping System

Test Pressures In Excess Of 1/2 PSIG (3.5 K Pa)

- Disconnect appliance with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig will damage heater regulator.
- Cap off open end of gas pipe where equipment shutoff valve was connected.
- Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.
- Check all joints of gas supply piping system. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

Test Pressures Equal To or Less Than 1/2 PSIG (3.5 K Pa)

- 1. Close equipment shutoff valve (see Figure 15).
- Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.
- 3. Check all joints from gas meter to equipment shutoff valve (see Figure 16). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

Pressure Testing Heater Gas Connections

- 1. Open equipment shutoff valve (see Figure 15).
- 2. Open main gas valve located on or near gas meter.
- 3. Make sure control knob of heater is in the OFF position.
- 4. Check all joints from equipment shutoff valve to control valve (see Figure 15). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Light heater (see *Operating Heater*, pages 11 and 12 for non-thermostat models or pages 13 and 14 for thermostat models). Check the rest of the internal joints for leaks.
- 7. Turn off heater (see *To Turn Off Gas to Appliance*, page 12 for non-thermostat models or page 13 for thermostat models).
- 8. Replace front panel.

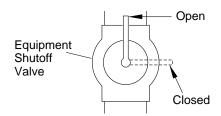


Figure 15 - Equipment Shutoff Valve

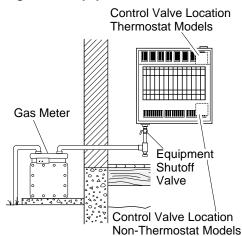


Figure 16 - Checking Gas Joints

OPERATING HEATER

NON-THERMOSTAT MODELS FA-3B AND FA-5B



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 or gas supplier. 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.

Continued



OPERATING **HEATER**

Continued



LIGHTING INSTRUCTIONS



- STOP! Read the safety information page 11, column 3.
- Make sure equipment shutoff valve is fully open.
- Turn control knob clockwise **3.** to the OFF position.
- Wait five minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information page 11, column 3. If you don't smell gas, go to the next step.
- Press in and turn control knob counterclockwise 🖌 \to PILOT/IGN position. Press in control knob for five (5) seconds (see Figure 19).

Note: You may be running this heater for the first time after hooking up to gas supply. If so, you may need to press in control knob for 30 seconds. This will allow air to bleed from the gas system.

- If control knob does not pop up when released, contact a qualified service person or supplier for repairs.
- Release downward pressure on control knob and turn clockwise to OFF position.
- 7. Press in control knob and turn back to PILOT/IGN. This will cause the piezo ignitor to spark and light the pilot gas. If needed, repeat steps 5 through 7 until pilot lights.

Note: If pilot does not stay lit, refer to Troubleshooting, pages 15 through 17. Also contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see Manual Lighting Procedure.

8. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.

> **Note:** If pilot goes out, repeat steps 3 through 7.

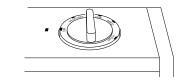


Figure 17 - Control Knob In The OFF Position

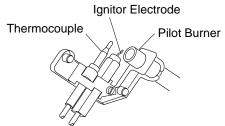


Figure 18 - Pilot



TO SELECT **HEATING LEVEL**



WARNING: When running heater, set control knob at LOW, MEDIUM, or HIGH locked positions. Never set control knob between locked positions. Poor combustion and higher levels of carbon monoxide may result.

A CAUTION: Do not try to adjust heating levels by using the equipment shutoff valve.

Slightly press in control knob and turn counterclockwise 🗸 DIUM, or HIGH positions (see Figure 19).

IMPORTANT: Release downward pressure while turning control knob. Control knob will lock at the desired position.



TO TURN OFF GAS TO APPLIANCE



Shutting Off Heater

- Turn control knob clockwise / to the OFF position.
- Turn off all electric power to the appliance if service is to be performed.

Shutting Off Burner Only (pilot stays lit)

Turn control knob clockwise / the PILOT/IGN position.



MANUAL LIGHTING **PROCEDURE**



- 1. Follow steps 1 through 5 under Lighting Instructions.
- With control knob pressed in, strike match. Hold match to pilot until pilot lights.
- Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.

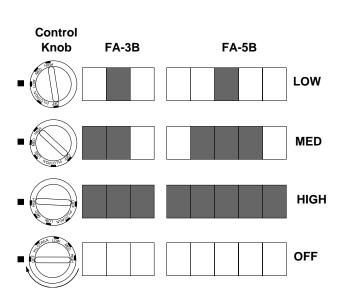


Figure 19 - Burner Patterns

OPERATING HEATER

Continued

THERMOSTAT MODELS FAS-3C AND FAS-5C



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 or gas supplier. 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 safety information, column 1.
- 2. Make sure equipment shutoff valve is fully open.

- 3. Push in control knob slightly and turn clockwise to the OFF position. Be sure that the temperature setting knob is set at the line between level 1 and level 7 (see Figure 20).
- 4. Wait five minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information in column 1. If you don't smell gas, go to the next step.
- 5. Push in and turn control knob counterclockwise to PILOT position. Press in control knob for five (5) seconds.

Note: You may be running this heater for the first time after hooking up to gas supply. If so, you may need to press in control knob for 30 seconds. This will allow air to bleed from the gas system.

6. Release downward pressure on control knob and turn clockwise to OFF position.

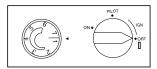


Figure 20 - Dual Control for Thermostat Models FAS-3C and FAS-5C

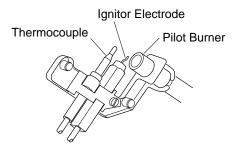


Figure 21 - Pilot

7. Press in control knob and turn counterclockwise past IGN to PILOT (see Figure 20). This will cause the piezo ignitor to spark and light the pilot gas. Keep control knob depressed for 10 seconds before releasing. If needed, repeat steps 5 through 7 until pilot lights.

Note: If pilot does not stay lit, refer to *Troubleshooting*, pages 15 through 17. Also contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see *Manual Lighting Procedure*, page 14.

- 8. When pilot is lit, turn the control knob to ON position (see Figure 22).
- 9. To select desired heating level, turn the temperature setting knob counterclockwise between 1 and 7 (see Figure 22).





Shutting Off Heater

- 1. Turn control knob clockwise / to the OFF position.
- 2. Turn off all electric power to the appliance if service is to be performed.

Shutting Off Burner Only (pilot stays lit)

Turn control knob clockwise the PILOT position.

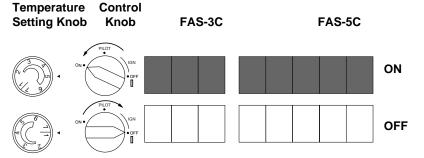


Figure 22 - Burner Patterns

Continued



OPERATING HEATER

Continued

THERMOSTAT CONTROL OPERATION

The thermostatic control used on these models differs from standard thermostats. Standard thermostats simply turn on and off the burner. The thermostat used on this heater senses the room temperature. At times the room may exceed the set temperature. If so, the burner will shut off. The burner will cycle back on when room temperature drops below the set temperature. The temperature setting knob can be set to any comfort level between 1 and 7.

Note: The thermostat sensing bulb measures the temperature of air near the heater cabinet. This may not always agree with room temperature (depending on housing construction, installation location, room size, open air temperatures, etc.) Frequent use of your heater will let you determine your own comfort levels.



MANUAL LIGHTING PROCEDURE



- 1. Follow steps 1 through 5 under *Lighting Instructions*, page 13.
- 2. With control knob pressed in, strike match. Hold match to pilot until pilot lights.
- 3. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.

INSPECTING BURNER

Check pilot flame pattern and burner flame pattern often.

PILOT FLAME PATTERN

Figure 23 shows a correct pilot flame pattern. Figure 24 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down.

If pilot flame pattern is incorrect, as shown in Figure 24

- turn heater off (see *To Turn Off Gas to Appliance*, page 12 for non-thermostat models or page 13 for thermostat models)
- see Troubleshooting, pages 15 through 17

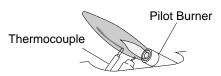


Figure 23 - Correct Pilot Flame Pattern

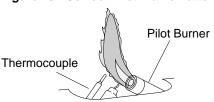


Figure 24 - Incorrect Pilot Flame Pattern
BURNER FLAME PATTERN

Figure 25 shows a correct burner flame pattern. Figure 26 shows an incorrect burner flame pattern.

If pilot flame pattern is incorrect, as shown in Figure 26

- turn heater off (see *To Turn Off Gas to Appliance*, page 12 for non-thermostat models or page 13 for thermostat models)
- see Troubleshooting, pages 15 through 17

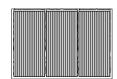


Figure 25 - Correct Burner Flame Pattern

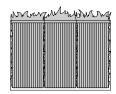


Figure 26-Incorrect Burner Flame Pattern

CLEANING AND MAINTENANCE

WARNING: Turn off heater and let cool before servicing.

CAUTION: You must keep control areas, burner, and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may need more frequent cleaning due to excessive lint from carpeting, bedding material, pet hair, etc.

ODS/PILOT AND BURNER

• Use a vacuum cleaner, pressurized air, or small, soft bristled brush to clean.

CLEANING BURNER PILOT AIR INLET HOLE

We recommend that you clean the unit every 2,500 hours of operation or every three months.

We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store, or home center may carry compressed air in a can. You can use a vacuum cleaner in the blow position. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

- Shut off the unit, including the pilot.
 Allow the unit to cool for at least thirty minutes.
- 2. Inspect burner, pilot for dust and dirt.
- 3. Blow air through the ports/slots and holes in the burner.

Clean the pilot assembly also. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about two inches from where the pilot flame comes out of the pilot assembly (see Figure 27). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available.

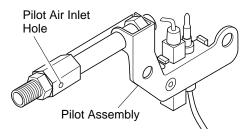


Figure 27 - Pilot Inlet Air Hole

CABINET

Air Passageways

 Use a vacuum cleaner or pressurized air to clean.

Exterior

 Use a soft cloth dampened with a mild soap and water mixture. Wipe the cabinet to remove dust.

TROUBLESHOOTING

Note: For additional help, visit DESA International's technical service web site at **www.desatech.com**.

Note: All troubleshooting items are listed in order of operation.

WARNING: Turn off and unplug heater and let cool before servicing. Only a qualified service person should service and repair heater.

A CAUTION: Never use a wire, needle, or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

OBSERVED PROBLEM

When ignitor button is pressed in, there is no spark at ODS/pilot

POSSIBLE CAUSE

- 1. Ignitor electrode positioned wrong
- 2. Ignitor electrode broken
- 3. Ignitor electrode not connected to ignitor cable
- 4. Ignitor cable pinched or wet
- 5. Broken ignitor cable
- 6. Bad piezo ignitor

REMEDY

- 1. Replace ignitor
- 2. Replace ignitor
- 3. Reconnect ignitor cable
- 4. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry
- 5. Replace ignitor cable
- 6. Replace control valve (piezo is part of control valve)

ODS/pilot lights but flame goes out when control knob is released

- 1. Gas supply turned off or equipment shutoff valve closed
- 2. Control knob not fully pressed in while pressing ignitor button
- 3. Air in gas lines when installed
- 4. ODS/pilot is clogged
- 5. Gas regulator setting is not correct
- 6. Control knob not in pilot position

- 1. Turn on gas supply or open equipment shutoff valve
- 2. Fully press in control knob while pressing ignitor button
- Continue holding down control knob. Repeat igniting operation until air is removed
- 4. Clean ODS/pilot (see *Cleaning and Maintenance*, page 14) or replace ODS/pilot assembly
- 5. Replace gas regulator
- 6. Turn control knob to pilot position

When ignitor button is pressed in, there is a spark at ODS/pilot but no ignition

- 1. Control knob not fully pressed in
- 2. Control knob not pressed in long enough
- 3. Equipment shutoff valve not fully open
- 4. Thermocouple connection loose at control valve
- 5. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following:
 - A) Low gas pressure
 - B) Dirty or partially clogged ODS/pilot
- 6. Thermocouple damaged
- 7. Control valve damaged

- 1. Press in control knob fully
- 2. After ODS/pilot lights, keep control knob pressed in 30 seconds
- 3. Fully open equipment shutoff valve
- 4. Hand tighten until snug, then tighten 1/4 turn more
- 5. A) Contact local natural gas company B) Clean ODS/pilot (see *Cleaning and Maintenance*, page 14) or replace ODS/pilot assembly
- 6. Replace thermocouple
- 7. Replace control valve

www.desatech.com

Continued



TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burner(s) does not light after ODS/pilot is lit	1. Burner orifice(s) is clogged	1. Clean burner orifice(s) (see <i>Cleaning and Maintenance</i> , page 14) or replace burner orifice(s)
	2. Burner orifice(s) diameter is too small	2. Replace burner orifice(s)
	3. Inlet gas pressure is too low	3. Contact local natural gas company
Delayed ignition of burner(s)	1. Manifold pressure is too low	Contact local natural gas company
	2. Burner orifice(s) is clogged	2. Clean burner orifice(s) (see <i>Cleaning</i> and <i>Maintenance</i> , page 14) or replace burner orifice(s)
Burner backfiring during combustion	1. Burner orifice(s) is clogged or damaged	1. Clean burner orifice(s) (see <i>Cleaning and Maintenance</i> , page 14) or replace burner orifice(s)
	2. Burner damaged	2. Replace burner
	3. Gas regulator defective	3. Replace gas regulator
Burner plaque(s) does not glow	1. Plaque damaged	Replace burner
	2. Inlet gas pressure is too low	2. Contact local natural gas company
	3. Control knob set between locked positions	3. Turn control knob until it locks at desired setting
Slight smoke or odor during initial operation	1. Residues from manufacturing processes	Problem will stop after a few hours of operation
Heater produces a clicking/ticking noise just after burner is lit or shut off	Metal expanding while heating or contracting while cooling	This is common with most heaters. If noise is excessive, contact qualified service person
White powder residue forming within burner box or on adjacent walls or furniture	1. When heated, vapors from furniture polish, wax, carpet cleaners, etc. turn into white powder residue	Turn heater off when using furniture polish, wax, carpet cleaners, or similar products

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TROUBLESHOOTING

Continued

⚠ WARNING: If you smell gas

- Shut off gas supply.
- 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.

IMPORTANT: Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY	
Heater produces unwanted odors	Heater burning vapors from paint, hair spray, glues, etc. See <i>IMPORTANT</i> statement above	Ventilate room. Stop using odor causing products while heater is running	
	2. Gas leak. See Warning statement at top of page	2. Locate and correct all leaks (see <i>Checking Gas Connections</i> , page 11)	
Heater shuts off in use (ODS operates)	 Not enough fresh air is available. Low line pressure ODS/pilot is partially clogged 	 Open window and/or door for ventilation Contact local natural gas company Clean ODS/pilot (see <i>Cleaning and Maintenance</i>, page 14) 	
Gas odor even when control knob is in OFF position	 Gas leak. See Warning statement at top of page Control valve defective 	 Locate and correct all leaks (see <i>Checking Gas Connections</i>, page 11) Replace control valve 	
Gas odor during combustion	 Foreign matter between control valve and burner Gas leak. See Warning statement at top of page 	 Take apart gas tubing and remove foreign matter Locate and correct all leaks (see <i>Checking Gas Connections</i>, page 11) 	
Moisture/condensation noticed on windows	1. Not enough combustion/ventilation air	Refer to Fresh Air for Combustion and Ventilation requirements (page 4)	

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SPECIFICATIONS

	FA-3B	FAS-3C	FA-5B	FAS-5C
Btu (Variable)	6,000/12,000/18,000	18,000	7,000/18,000/30,000	30,000
Type Gas	Natural Only	Natural Only	Natural Only	Natural Only
Ignition	Piezo	Piezo	Piezo	Piezo
Pressure Regulator Setting	6" W.C.	6" W.C.	6" W.C.	6" W.C.
Inlet Gas Pressure* (in. of water)				
Maximum	10.5"	10.5"	10.5"	10.5"
Minimum	7"	7"	7"	7"
Dimensions, Inches (H x W x D)				
Heater	23 x 18.75 x 7	23 x 18.75 x 7	23 x 26 x 7	23 x 26 x 7
Carton	26 x 21 x 9	26 x 21 x 9	26 x 28.5 x 9	26 x 28.5 x 9
Weight (pounds)				
Heater	19.8	20	28	28.5
Shipping	23.3	23.5	33.5	34
Mata: D' ' 1' 1		(1 1 , 11	1 1 '11\	

Note: Dimensions listed are outer most points on the heater (includes control knobs and grill).

PARTS CENTRALS

These Parts Centrals are privately owned businesses. They have agreed to support our customer's needs by providing original replacement parts and accessories.

Baltimore Electric

1348 Dixwell Avenue Hamden, CT 06514-0322 1-800-397-7553 203-248-7553 Parts Department

Portable Heater Parts

342 N. County Rd. 400 East Valparaiso, IN 46383-9704 All States 219-462-7441 1-800-362-6951 sales@portableheaterparts.com techservice@portableheaterparts.com

FBD

1349 Adams Street Bowling Green, KY 42103-3414 270-846-1199 1-800-654-8534 Fax: 1-800-846-0090 franktalk@aol.com

Master Parts Dist.

1251 Mound Ave. NW Grand Rapids, MI 49504-2672 616-791-0505 1-800-446-1446 Fax: 616-791-8270 www.nbmc.com

Washer Equipment Co.

1715 Main Street Kansas City, MO 64108-2195 KS, MO, AR 816-842-3911 www.washerparts.com

East Coast Energy Products

707 Broadway W. Long Branch, NJ 07764-1542 732-870-8809 1-800-755-8809 www.niplaza.com/ecep

Tarantin Tank Co.

P.O. Box 6129 Freehold, NJ 07728-6129 908-780-9340 1-800-922-0724 www.tarantin.com

Heater and Fireplace Store

58 Halbe Lane Cape May Court, NJ 08210-1110 609-390-9774 Parts Department

Dayton Hardware

P.O. Box 275 North Dayton Station Dayton, OH 45404-0275 All States 937-258-3721 OH 1-800-762-3426

Halco Enterprises

208 Carter Drive, Unit 21 West Chester, PA 19382-4500 610-430-7717 1-800-368-0803 www.halcoenterprises.com

LA Porte's Parts & Service

2444 N. 5th Street Hartsville, SC 29550-7704 803-332-0191 Parts Department

Cans Unlimited, Inc.

P.O. Box 645 Taylor, SC 29687-0013 All States 803-879-3009 1-800-845-5301 cuisales@aol.com

^{*} For purposes of input adjustment.

REPLACEMENT PARTS

Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

PARTS UNDER WARRANTY

Contact authorized dealer from whom you purchased this product. If they are unable to supply original replacement part(s), call DESA International's Technical Service Department at 1-800-323-5190 for information.

When contacting your dealer or DESA International, have ready:

- vour name
- your address
- · model and serial numbers of your heater
- · how heater was malfunctioning
- type of gas used (propane/LP or natural gas)
- · purchase date

Usually, we will ask you to return the defective part to the factory.

PARTS NOT UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA International's Parts Department at 1-800-972-7879 for referral information. When calling DESA International, have ready:

- model number of your heater
- the replacement part number

SERVICE HINTS

When Gas Pressure Is Too Low

- pilot will not stay lit
- burner(s) will have delayed ignition
- · heater will not produce specified heat

When Gas Quality Is Bad

- · pilot will not stay lit
- burner(s) will produce flames and soot
- · heater will backfire when lit

You may feel your gas pressure is too low or gas quality is bad. If so, contact your local natural gas supplier.

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting.

If so, contact DESA International's Technical Service Department at 1-800-323-5190.

You can also visit DESA International's technical service web site at www.desatech.com.

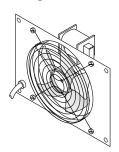
ACCESSORIES

Purchase these heater accessories from your local dealer. If they can not supply these accessories, contact your nearest *Parts Central* or call DESA International's Parts Department at 1-800-972-7879 for referral information. You can also write to the address listed on the back page of this manual.



EQUIPMENT SHUTOFF VALVE GA5010

For all models. Equipment shutoff valve with 1/8" NPT tap.



FAN KITS - UH1000FB AND UHS1000FB

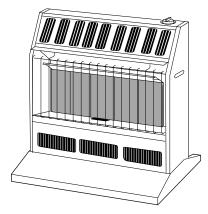
For all models. Provides better heat distribution. Makes heater more efficient. Complete installation and operating instructions included.

Manually-controlled-UH1000FB. Includes ON/OFF switch.

Thermostatically-controlled - UHS 1000FB. Includes three settings: ON/OFF/AUTO.

SERVICE PUBLICATIONS

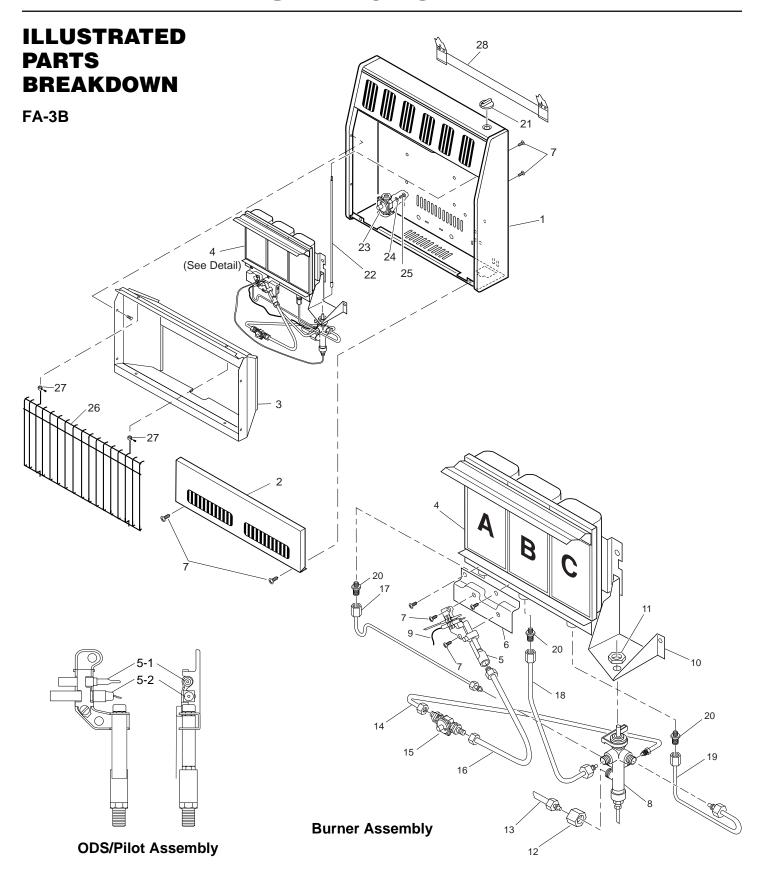
You can purchase a service manual from the address listed on the back page of this manual. Send a check for \$5.00 payable to DESA International.



FLOOR MOUNTING STAND Models FA-3B and FAS-3B -UH3000BA Model FA-5B and FAS-5B -UH5000BA

For locating heater on the floor, away from a wall. Complete installation instructions provided with floor mounting stand.





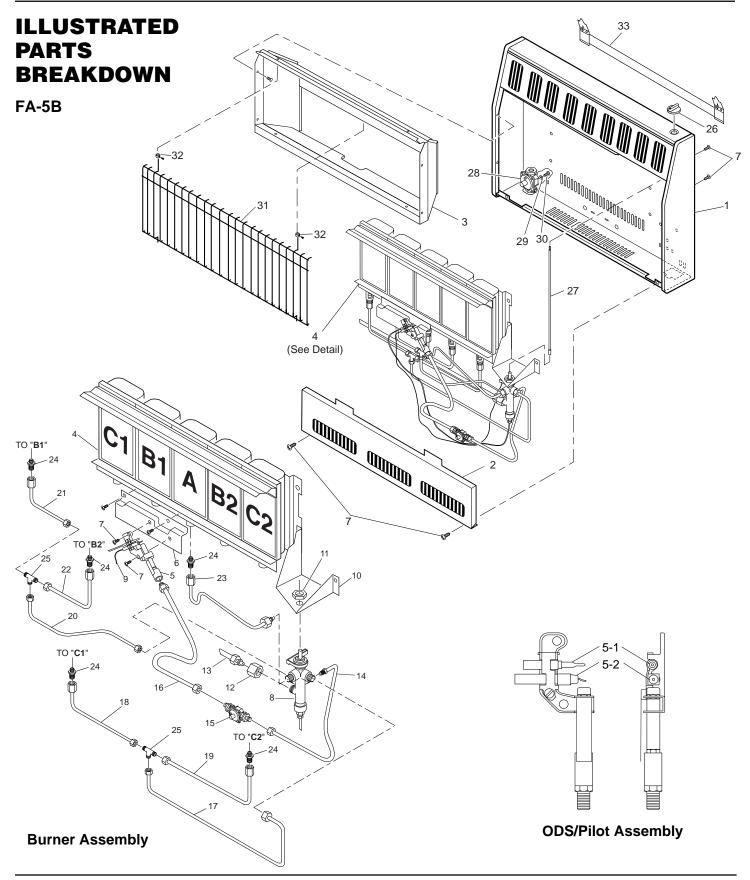
PARTS LIST

FA-3B

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under *Replacement Parts* on page 19 of this manual.

KEY	PART NO.		
NO.	FA-3B	DESCRIPTION	QTY.
1	L98409-02	Cabinet Assembly	1
2	L98005-02	Lower Front Panel Assembly	1
3	L98410-02	Deflector Unit	1
4	L98103-03	Burner Assembly	1
5	L98071-01	ODS Pilot Assembly	1
5-1	098514-01	Thermocouple	1
5-2	L98071-07	Ignitor Electrode	1
6	L98072-01	ODS Mounting Bracket	1
7	L98817-01	Self Tapping Screw	7
8	L98034-01	Control Valve	1
9	L98411-01	Ignitor Line	1
10	L98028-01	Control Valve Bracket	1
11	L98054-01	Control Valve Fixed Nut	1
12	L98059-01	Control Valve Main Inlet Nut	1
13	L98115-02	Main Inlet Tube Assembly	1
14	L98124-02	Valve to Regulator Line Assembly	1
15	L98914-01	Pilot Regulator Assembly	1
16	L98125-02	Regulator to ODS Line Assembly	1
17	L98117-02	Burner Gas Line Assembly A	1
18	L98120-02	Burner Gas Line Assembly B	1
19	L98122-02	Burner Gas Line Assembly C	1
20	L99023-01	Injector	3
21	L98061-01	Control Knob	1
22	L98906-01	Control Rod Assembly	1
23	L99029-01	Pressure Regulator	1
24	L98801-01	Washer	2
25	L98806-01	Self Tapping Screw	2
26	L98010-02	Grill Guard	1
27	L98011-01	Grill Fastener	2
28	L98085-01	Mounting Bracket	1
	•	PARTS AVAILABLE - NOT SHOWN	•
	100642-01	Hardware Assembly	1
	104892-39	CSA/AGA Decal	1
	L98098-01	Gas Instruction Decal	1
	L98100-01	Inside Warning Label	1





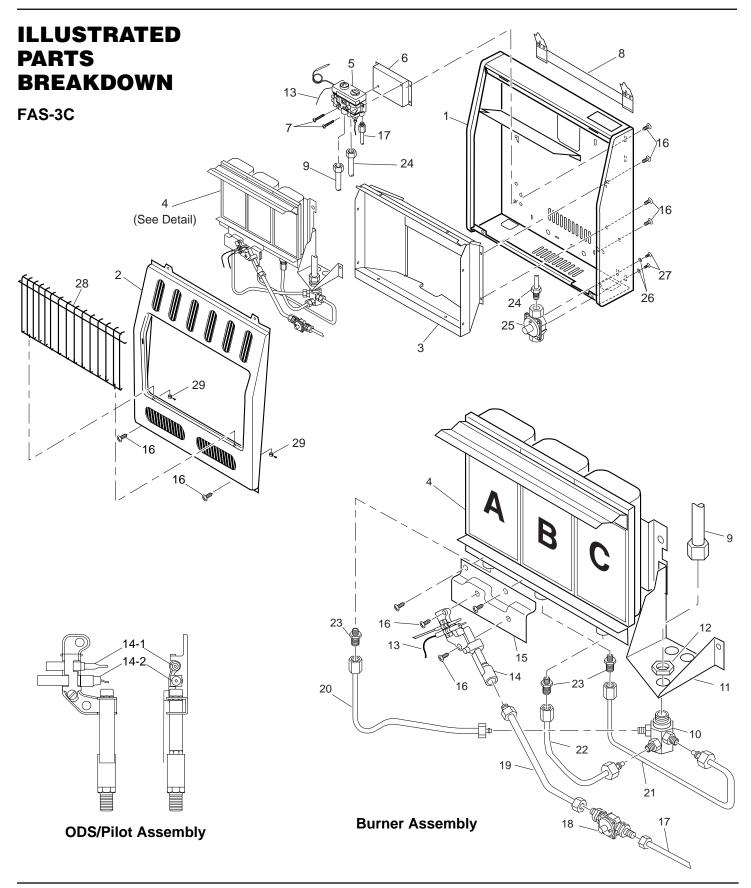
PARTS LIST

FA-5B

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under *Replacement Parts* on page 19 of this manual.

NO. FA-5B DESCRIPTION QTY.	KEY PART NO.			
2 L98005-01 Lower Front Panel Assembly 1 3 L98410-01 Deflector Unit 1 4 L98103-01 Burner Assembly 1 5 L98071-01 ODS Pilot Assembly 1 5-1 098514-01 Thermocouple 1 5-2 L98072-01 ODS Mounting Bracket 1 7 L98817-01 Self Tapping Screw 7 8 L98034-01 Control Valve 1 10 L98028-01 Control Valve Bracket 1 11 L98058-01 Control Valve Bracket 1 12 L98059-01 Control Valve Bracket 1 13 L98115-01 Main Inlet Tube Assembly 1 14 L98125-01 Main Inlet Tube Assembly 1 15 L98914-01 Pilot Regulator Assembly 1 16 L98125-01 Burner Gas Line Assembly 1 17 L98118-01 Burner Gas Line Assembly 1 18 L98118-01 Burner Gas Li	NO.	FA-5B	DESCRIPTION	QTY.
Section	1	L98409-01	Cabinet Assembly	1
4 L98103-01 Burner Assembly 1 5 L98071-01 ODS Pilot Assembly 1 5-1 098514-01 Thermocouple 1 5-2 L98071-07 Ignitor Electrode 1 6 L98072-01 ODS Mounting Bracket 1 7 L98817-01 Self Tapping Screw 7 8 L98034-01 Control Valve 1 10 L98028-01 Control Valve Bracket 1 11 L98054-01 Control Valve Fixed Nut 1 12 L98054-01 Control Valve Main Inlet Nut 1 13 L98115-01 Main Inlet Tube Assembly 1 14 L98125-01 Regulator to ODS Line Assembly 1 15 L98914-01 Pilot Regulator Assembly "C" 1 18 L98117-01 Burner Gas Line Assembly "C" 1 19 L98118-01 Burner Gas Line Assembly "C" 1 19 L98119-01 Burner Gas Line Assembly "C" 1 20 L9812-0	1	L98005-01	Lower Front Panel Assembly	1
5 L98071-01 ODS Pilot Assembly 1 5-1 098514-01 Thermocouple 1 5-2 L98071-07 Ignitor Electrode 1 6 L98072-01 ODS Mounting Bracket 1 7 L98817-01 Self Tapping Screw 7 8 L98034-01 Control Valve 1 10 L98028-01 Control Valve Bracket 1 11 L98059-01 Control Valve Bracket 1 12 L98059-01 Control Valve Main Inlet Nut 1 13 L98115-01 Main Inlet Tube Assembly 1 14 L98124-01 Valve to Regulator Line Assembly 1 15 L9814-01 Pilot Regulator Assembly 1 16 L98125-01 Regulator to ODS Line Assembly 1 17 L98116-01 Burner Gas Line Assembly "C" 1 18 L98117-01 Burner Gas Line Assembly "C" 1 19 L98118-01 Burner Gas Line Assembly "B" 1 20	3	L98410-01	Deflector Unit	1
5-1	4	L98103-01	Burner Assembly	1
5-2	5	L98071-01	ODS Pilot Assembly	1
6 L98072-01 ODS Mounting Bracket 1 7 L98817-01 Self Tapping Screw 7 8 L98034-01 Control Valve 1 10 L98028-01 Control Valve Bracket 1 11 L98059-01 Control Valve Bracket 1 12 L98059-01 Control Valve Fixed Nut 1 13 L98115-01 Main Inlet Tube Assembly 1 14 L98124-01 Valve to Regulator Line Assembly 1 15 L98115-01 Main Inlet Tube Assembly 1 16 L98125-01 Regulator to ODS Line Assembly 1 17 L98116-01 Burner Gas Line Assembly "C" 1 18 L98117-01 Burner Gas Line Assembly "C" 1 19 L98118-01 Burner Gas Line Assembly "C" 1 20 L98119-01 Burner Gas Line Assembly "B" 1 21 L98120-01 Burner Gas Line Assembly "B" 1 22 L98120-01 Burner Gas Line Assembly "B" 1 <	5-1	098514-01	Thermocouple	1
7 L98817-01 Self Tapping Screw 7 8 L98034-01 Control Valve 1 9 L98411-01 Ignitor Line 1 10 L98028-01 Control Valve Bracket 1 11 L98059-01 Control Valve Main Inlet Nut 1 12 L98059-01 Control Valve Main Inlet Nut 1 13 L98115-01 Main Inlet Tube Assembly 1 14 L98124-01 Valve to Regulator Line Assembly 1 15 L98914-01 Pilot Regulator to ODS Line Assembly 1 16 L98125-01 Regulator to ODS Line Assembly 1 17 L98116-01 Burner Gas Line Assembly "C" 1 18 L98117-01 Burner Gas Line Assembly "C" 1 19 L98118-01 Burner Gas Line Assembly "B" 1 20 L98119-01 Burner Gas Line Assembly "B" 1 21 L98120-01 Burner Gas Line Assembly "B" 1 22 L98122-01 Burner Gas Line Assembly "B" 1	5-2	L98071-07	Ignitor Electrode	1
8 L98034-01 Control Valve 1 9 L98411-01 Ignitor Line 1 10 L98028-01 Control Valve Bracket 1 11 L98059-01 Control Valve Main Inlet Nut 1 12 L98059-01 Main Inlet Tube Assembly 1 13 L98115-01 Main Inlet Tube Assembly 1 14 L98124-01 Valve to Regulator Line Assembly 1 15 L98914-01 Pilot Regulator Assembly 1 16 L98125-01 Regulator Assembly "C" 1 17 L98116-01 Burner Gas Line Assembly "C" 1 18 L98117-01 Burner Gas Line Assembly "C" 1 19 L98118-01 Burner Gas Line Assembly "C2" 1 20 L98119-01 Burner Gas Line Assembly "B" 1 21 L98120-01 Burner Gas Line Assembly "B" 1 22 L98120-01 Burner Gas Line Assembly "B" 1 23 L98061-01 Control Knob 1	-	L98072-01	ODS Mounting Bracket	1
9	7	L98817-01	Self Tapping Screw	7
10	8	L98034-01	Control Valve	1
11	9	L98411-01	Ignitor Line	1
12	10	L98028-01	Control Valve Bracket	1
13	11	L98054-01	Control Valve Fixed Nut	1
14 L98124-01 Valve to Regulator Line Assembly 1 15 L98914-01 Pilot Regulator Assembly 1 16 L98125-01 Regulator to ODS Line Assembly 1 17 L98116-01 Burner Gas Line Assembly "C" 1 18 L98117-01 Burner Gas Line Assembly "C1" 1 19 L98118-01 Burner Gas Line Assembly "C2" 1 20 L98119-01 Burner Gas Line Assembly "B" 1 21 L98120-01 Burner Gas Line Assembly "B" 1 22 L98121-01 Burner Gas Line Assembly "B2" 1 23 L98122-01 Burner Gas Line Assembly "B2" 1 24 L99023-01 Injector 5 25 L99047-01 "T" Joint 2 26 L98061-01 Control Knob 1 27 L98906-01 Control Rod Assembly 1 28 L99029-01 Pressure Regulator 1 29 L98801-01 Grill Guard 1 30	12	L98059-01	Control Valve Main Inlet Nut	1
15	13	L98115-01	Main Inlet Tube Assembly	1
16 L98125-01 Regulator to ODS Line Assembly 1 17 L98116-01 Burner Gas Line Assembly "C" 1 18 L98117-01 Burner Gas Line Assembly "C1" 1 19 L98118-01 Burner Gas Line Assembly "C2" 1 20 L98119-01 Burner Gas Line Assembly "B" 1 21 L98120-01 Burner Gas Line Assembly "B1" 1 22 L98121-01 Burner Gas Line Assembly "B2" 1 23 L98122-01 Burner Gas Line Assembly "B2" 1 24 L99023-01 Burner Gas Line Assembly "A" 1 25 L99047-01 "T" Joint 2 26 L98061-01 Control Knob 1 27 L98906-01 Control Rod Assembly 1 28 L99029-01 Pressure Regulator 1 29 L98801-01 Washer 2 30 L98806-01 Grill Guard 1 32 L98011-01 Grill Fastener 2 33 L98085	14	L98124-01	Valve to Regulator Line Assembly	1
17 L98116-01 Burner Gas Line Assembly "C" 1 18 L98117-01 Burner Gas Line Assembly "C1" 1 19 L98118-01 Burner Gas Line Assembly "C2" 1 20 L98119-01 Burner Gas Line Assembly "B" 1 21 L98120-01 Burner Gas Line Assembly "B1" 1 22 L98121-01 Burner Gas Line Assembly "B2" 1 23 L98122-01 Burner Gas Line Assembly "B2" 1 24 L99023-01 Burner Gas Line Assembly "A" 1 25 L99047-01 "T" Joint 2 26 L98061-01 Control Knob 1 27 L98906-01 Control Rod Assembly 1 28 L99029-01 Pressure Regulator 1 29 L98801-01 Washer 2 30 L98806-01 Grill Guard 1 32 L98011-01 Grill Fastener 2 33 L98085-01 Mounting Bracket 1 PARTS AVAILABLE - NOT SHOWN<	15	L98914-01		1
18 L98117-01 Burner Gas Line Assembly "C1" 1 19 L98118-01 Burner Gas Line Assembly "C2" 1 20 L98119-01 Burner Gas Line Assembly "B" 1 21 L98120-01 Burner Gas Line Assembly "B1" 1 22 L98121-01 Burner Gas Line Assembly "B2" 1 23 L98122-01 Burner Gas Line Assembly "B2" 1 24 L99023-01 Injector 5 25 L99047-01 "T" Joint 2 26 L98061-01 Control Knob 1 27 L98906-01 Control Rod Assembly 1 28 L99029-01 Pressure Regulator 1 29 L98801-01 Washer 2 30 L98806-01 Self Tapping Screw 2 31 L98011-01 Grill Guard 1 32 L98011-01 Grill Fastener 2 33 L98085-01 Mounting Bracket 1 PARTS AVAILABLE - NOT SHOWN	16	L98125-01	Regulator to ODS Line Assembly	1
19 L98118-01 Burner Gas Line Assembly "C2" 1 20 L98119-01 Burner Gas Line Assembly "B" 1 21 L98120-01 Burner Gas Line Assembly "B1" 1 22 L98121-01 Burner Gas Line Assembly "B2" 1 23 L98122-01 Burner Gas Line Assembly "B2" 1 24 L99023-01 Burner Gas Line Assembly "A" 1 24 L99023-01 Injector 5 25 L99047-01 "T" Joint 2 26 L98061-01 Control Knob 1 27 L98906-01 Control Rod Assembly 1 28 L99029-01 Pressure Regulator 1 29 L98801-01 Washer 2 30 L98806-01 Grill Guard 1 32 L98011-01 Grill Fastener 2 33 L98085-01 Mounting Bracket 1 PARTS AVAILABLE - NOT SHOWN	17	L98116-01	Burner Gas Line Assembly "C"	1
1	18	L98117-01		1
21	19	L98118-01	Burner Gas Line Assembly "C2"	1
1	20	L98119-01	Burner Gas Line Assembly "B"	1
23	21	L98120-01	Burner Gas Line Assembly "B1"	1
24 L99023-01 Injector 5 25 L99047-01 "T" Joint 2 26 L98061-01 Control Knob 1 27 L98906-01 Control Rod Assembly 1 28 L99029-01 Pressure Regulator 1 29 L98801-01 Washer 2 30 L98806-01 Self Tapping Screw 2 31 L98010-01 Grill Guard 1 32 L98011-01 Grill Fastener 2 33 L98085-01 Mounting Bracket 1 PARTS AVAILABLE - NOT SHOWN	22	L98121-01	Burner Gas Line Assembly "B2"	1
25	23	L98122-01	Burner Gas Line Assembly "A"	1
26 L98061-01 Control Knob 1 27 L98906-01 Control Rod Assembly 1 28 L99029-01 Pressure Regulator 1 29 L98801-01 Washer 2 30 L98806-01 Self Tapping Screw 2 31 L98010-01 Grill Guard 1 32 L98011-01 Grill Fastener 2 33 L98085-01 Mounting Bracket 1 PARTS AVAILABLE - NOT SHOWN PARTS AVAILABLE - NOT SHOWN CSA/AGA Decal 1 L98098-01 Gas Instruction Decal 1	24	L99023-01	Injector	5
1	25	L99047-01		2
28 L99029-01 Pressure Regulator 1 29 L98801-01 Washer 2 30 L98806-01 Self Tapping Screw 2 31 L98010-01 Grill Guard 1 32 L98011-01 Grill Fastener 2 33 L98085-01 Mounting Bracket 1 PARTS AVAILABLE - NOT SHOWN PARTS AVAILABLE - NOT SHOWN 100642-01 Hardware Assembly 1 104892-42 CSA/AGA Decal 1 L98098-01 Gas Instruction Decal 1	26 L98061-01		Control Knob	1
29 L98801-01 Washer 2 30 L98806-01 Self Tapping Screw 2 31 L98010-01 Grill Guard 1 32 L98011-01 Grill Fastener 2 33 L98085-01 Mounting Bracket 1 PARTS AVAILABLE - NOT SHOWN 100642-01 Hardware Assembly 1 104892-42 CSA/AGA Decal 1 L98098-01 Gas Instruction Decal 1	1	L98906-01	Control Rod Assembly	1
29 L98801-01 Washer 2 30 L98806-01 Self Tapping Screw 2 31 L98010-01 Grill Guard 1 32 L98011-01 Grill Fastener 2 33 L98085-01 Mounting Bracket 1 PARTS AVAILABLE - NOT SHOWN 100642-01 Hardware Assembly 1 104892-42 CSA/AGA Decal 1 L98098-01 Gas Instruction Decal 1	28	L99029-01	Pressure Regulator	1
31	29	L98801-01	-	2
31	30	L98806-01	Self Tapping Screw	2
1 PARTS AVAILABLE - NOT SHOWN 1 1	31	L98010-01	•	1
PARTS AVAILABLE - NOT SHOWN 1 1 1 1 1 1 1 1 1	32	L98011-01	Grill Fastener	2
100642-01 Hardware Assembly 1 104892-42 CSA/AGA Decal 1 L98098-01 Gas Instruction Decal 1	33	L98085-01	Mounting Bracket	1
104892-42 CSA/AGA Decal 1 L98098-01 Gas Instruction Decal 1	PARTS AVAILABLE - NOT SHOWN		l	
104892-42 CSA/AGA Decal 1 L98098-01 Gas Instruction Decal 1		100642-01	Hardware Assembly	1
			<u> </u>	1 1
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				1





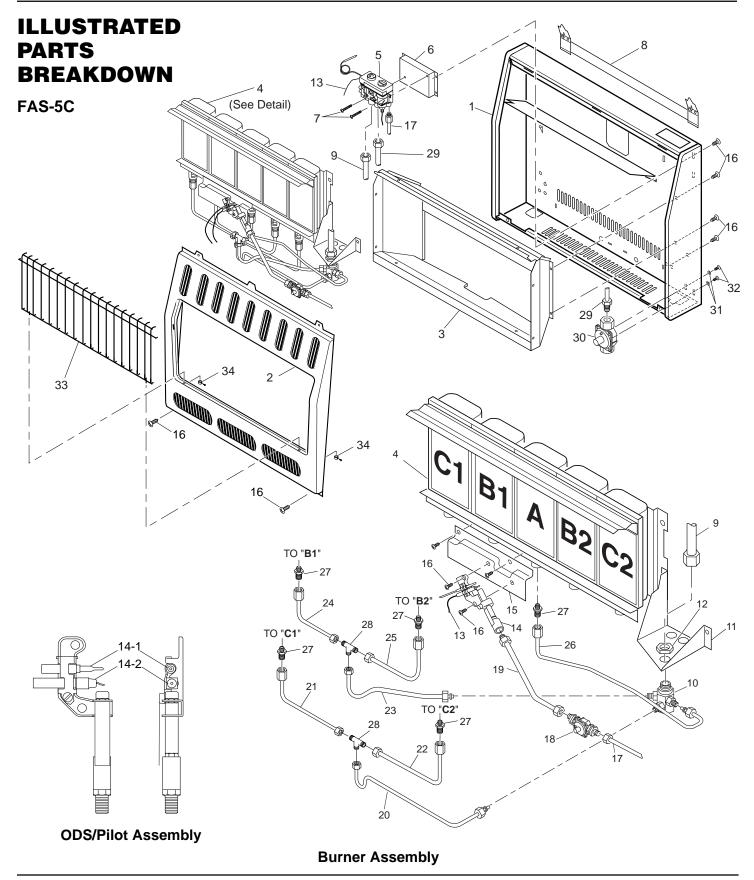
PARTS LIST

FAS-3C

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under *Replacement Parts* on page 19 of this manual.

NO. FAS-3C DESCRIPTION QTY 1 L98409-04 Cabinet Assembly 1 2 L98006-02 Front Panel Assembly 1 3 L98410-04 Reflector Unit 1 4 L98103-03 Burner Assembly 1 5 L98135-03 Thermostat Valve Assembly 1 6 L99066-01 Thermostat Valve Base 1 7 L98084-01 Self Tapping Screw 2 8 L98085-01 Mounting Bracket 1 9 L98133-04 Thermostat Outlet Tube Assembly 1 10 L98055-01 4-Way Connector 1 11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1	<u> </u>
1 L98409-04 Cabinet Assembly 1 2 L98006-02 Front Panel Assembly 1 3 L98410-04 Reflector Unit 1 4 L98103-03 Burner Assembly 1 5 L98135-03 Thermostat Valve Assembly 1 6 L99066-01 Thermostat Valve Base 1 7 L98084-01 Self Tapping Screw 2 8 L98085-01 Mounting Bracket 1 9 L98133-04 Thermostat Outlet Tube Assembly 1 10 L98055-01 4-Way Connector 1 11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14-1 L98071-03 ODS Pilot 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw	
2 L98006-02 Front Panel Assembly 1 3 L98410-04 Reflector Unit 1 4 L98103-03 Burner Assembly 1 5 L98135-03 Thermostat Valve Assembly 1 6 L99066-01 Thermostat Valve Base 1 7 L98084-01 Self Tapping Screw 2 8 L98085-01 Mounting Bracket 1 9 L98133-04 Thermostat Outlet Tube Assembly 1 10 L98055-01 4-Way Connector 1 11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98812-04 Valve to Regulator Gas Line Assembly <td></td>	
4 L98103-03 Burner Assembly 1 5 L98135-03 Thermostat Valve Assembly 1 6 L99066-01 Thermostat Valve Base 1 7 L98084-01 Self Tapping Screw 2 8 L98085-01 Mounting Bracket 1 9 L98133-04 Thermostat Outlet Tube Assembly 1 10 L98055-01 4-Way Connector 1 11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas L	
5 L98135-03 Thermostat Valve Assembly 1 6 L99066-01 Thermostat Valve Base 1 7 L98084-01 Self Tapping Screw 2 8 L98085-01 Mounting Bracket 1 9 L98133-04 Thermostat Outlet Tube Assembly 1 10 L98055-01 4-Way Connector 1 11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L9814-01 Pilot Regulator to ODS Line Assembly 1 20 L98117-04	
6 L99066-01 Thermostat Valve Base 1 7 L98084-01 Self Tapping Screw 2 8 L98085-01 Mounting Bracket 1 9 L98133-04 Thermostat Outlet Tube Assembly 1 10 L98055-01 4-Way Connector 1 11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "	
7 L98084-01 Self Tapping Screw 2 8 L98085-01 Mounting Bracket 1 9 L98133-04 Thermostat Outlet Tube Assembly 1 10 L98055-01 4-Way Connector 1 11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04	
8 L98085-01 Mounting Bracket 1 9 L98133-04 Thermostat Outlet Tube Assembly 1 10 L98055-01 4-Way Connector 1 11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04	
9 L98133-04 Thermostat Outlet Tube Assembly 1 10 L98055-01 4-Way Connector 1 11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
10 L98055-01 4-Way Connector 1 11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
11 L98056-01 4-Way Connector Bracket 1 12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
12 L98057-01 4-Way Connector Fixed Nut 1 13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
13 L98411-01 Ignitor Line 1 14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
14 L98071-03 ODS Pilot 1 14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
14-1 098514-01 Thermocouple 1 14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
14-2 L98071-07 Ignitor Electrode 1 15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
15 L98072-01 ODS Mounting Bracket 1 16 L98817-01 Self Tapping Screw 7 17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
17 L98124-04 Valve to Regulator Gas Line Assembly 1 18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
18 L98914-01 Pilot Regulator Assembly 1 19 L98125-04 Regulator to ODS Line Assembly 1 20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
20 L98117-04 "A" Burner Gas Line Assembly 1 21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
21 L98120-04 "B" Burner Gas Line Assembly 1 22 L98122-04 "C" Burner Gas Line Assembly 1	
22 L98122-04 "C" Burner Gas Line Assembly 1	
23 L99023-01 Injector 3	
24 L98115-08 Main Inlet Tube Assembly 1	
25 L99029-05 Pressure Regulator 1	
26 L98801-01 Washer 2	
27 L98806-01 Self Tapping Screw 2	
28 L98010-04 Grill Guard 1	
29 L98011-01 Grill Fastener 2	
PARTS AVAILABLE - NOT SHOWN	
100642-01 Hardware Assembly 1	
104892-44 CSA/AGA Decal 1	
L98098-01 Gas Instruction Decal 1	
L98100-01 Inside Warning Label 1	
L98080-02 Thermostat Sensing Bulb Clip 2	





PARTS LIST

FAS-5C

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under *Replacement Parts* on page 19 of this manual.

KEY	PART NO.		
NO.	FAS-5C	DESCRIPTION	QTY.
1	L98409-03	Cabinet Assembly	1
2	L98006-01	Front Panel Assembly	1 1
3	L98410-03	Reflector Unit	1
4	L98103-01	Burner Assembly	1
5	L98135-03	Thermostat Valve Assembly	1
6	L99066-01	Thermostat Valve Base	1
7	L98084-01	Self Tapping Screw	2
8	L98085-01	Mounting Bracket	1
9	L98133-04	Thermostat Outlet Tube Assy	1
10	L98055-01	4-Way Connector	1
11	L98056-01	4-Way Connector Bracket	1
12	L98057-01	4-Way Connector Fixed Nut	1
13	L98411-01	Ignitor Line	1 1
14	L98071-03	ODS Pilot Assembly	1 1
14-1	098514-01	Thermocouple	1 1
14-2	L98071-07	Ignitor Electrode	1 1
15	L98072-01	ODS Mounting Bracket	
16	L98817-01	Self Tapping Screw	14
17	L98124-03	Valve to Regulator Gas Line Assembly	1
18	L98914-01	Pilot Regulator Assembly	
19	L98125-03	Regulator to ODS Gas Line Assembly	
20	L98116-02	Burner Gas Line Assembly "C"	
21	L98117-01	Burner Gas Line Assembly "C1"	
22	L98118-01	Burner Gas Line Assembly "C2"	
23	L98119-02	Burner Gas Line Assembly "B"	1
24	L98120-01	Burner Gas Line Assembly "B1"	
25	L98121-01	Burner Gas Line Assembly "B2"	
26	L98122-03	Burner Gas Line Assembly "A"	1
27	L99023-01	Injector	5
28	L99047-01	"T" Joint	1
29	L98115-08	Main Inlet Tube Assembly	1
30	L99029-05	Pressure Regulator	1
31	L98801-01	Washer	2
32	L98806-01	Self Tapping Screw	2
33	L98010-03	Grill Guard	1 1
34	L98011-01	Grill Fastener	2
		PARTS AVAILABLE - NOT SHOWN	
	100642-01	Hardware Assembly	1
	104892-46	CSA/AGA Decal	
	L98098-01	Gas Instruction Decal	
			1 1
	L98100-01 L98080-02	Inside Warning Label Thermostat Sensing Bulb Clip	2
	L90000-02	Themostat Sensing Bulb Clip	

WARRANTY INFORMATION

KEEP THIS WARRANTY

Model	
Serial No	
Date Purchased -	

Always specify model and serial numbers when communicating with the factory.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

LIMITED WARRANTY GLO-WARM VENT-FREE NATURAL GAS HEATERS

DESA International warrants this product to be free from defects in materials and components for two (2) years from the date of first purchase, provided that the product has been properly installed, operated and maintained in accordance with all applicable instructions. To make a claim under this warranty the Bill of Sale or cancelled check must be presented.

This warranty is extended only to the original retail purchaser. This warranty covers the cost of part(s) required to restore this heater to proper operating condition and an allowance for labor when provided by a DESA Authorized Service Center. Warranty part(s) MUST be obtained through authorized dealers of this product and/or DESA International who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty. The heater MUST be installed by a qualified installer in accordance with all local codes and instructions furnished with the unit.

This warranty does not apply to parts that are not in original condition because of normal wear and tear, or parts that fail or become damaged as a result of misuse, accidents, lack of proper maintenance or defects caused by improper installation. Travel, diagnostic cost, labor, transportation and any and all such other costs related to repairing a defective heater will be the responsibility of the owner.

TO THE FULL EXTENT ALLOWED BY THE LAW OF THE JURISDICTION THAT GOVERNS THE SALE OF THE PRODUCT; THIS EXPRESS WARRANTY EXCLUDES ANY AND ALL OTHER EXPRESSED WARRANTIES AND LIMITS THE DURATION OF ANY AND ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO TWO (2) YEARS ON ALL COMPONENTS FROM THE DATE OF FIRST PURCHASE; AND DESA INTERNATIONAL'S LIABILITY IS HEREBY LIMITED TO THE PURCHASE PRICE OF THE PRODUCT AND DESA INTERNATIONAL SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES WHATSOEVER INCLUDING INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow a limitation on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitation on implied warranties, or exclusion or limitation on damages may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

For information about this warranty write:

INTERNATIONAL 2701 Industrial Drive P.O. Box 90004 Bowling Green, KY 42102-9004 www.desatech.com



NOT A UPC

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Patent Pending