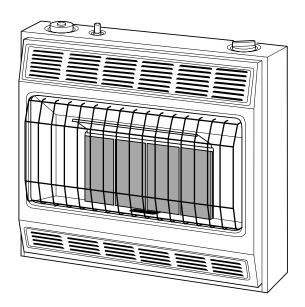
VANGUARD®

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



Models: VP1600C, VP1600IT, VP2600C, and VP2200IT

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.



Save this manual for future reference.

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SAFETY INFORMATION

A WARNINGS

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.

Propane Gas: Propane gas is odorless. An odor-making agent is added to propane gas. The odor helps you detect a propane gas leak. However, the odor added to propane gas can fade. Propane 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.

Safety Information Continues on next page

SAFETY INFORMATION

Continued

A WARNINGS Continued

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

- 1. Use only propane gas. Do not convert heater to use different fuel type.
- 2. Do not place propane supply tank(s) inside any structure. Locate propane supply tank(s) outdoors.
- 3. This heater shall not be installed in a bedroom or bathroom.
- 4. 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
- 5. Never install the heater
 - 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
- 6. Always run heater with plaque control knob at the 1, 2, 3, or 4 locked positions. Never set control knob between locked positions. Poor combustion and higher levels of carbon monoxide may result.
- 7. This heater needs fresh, outside air ventilation to run properly. This heater has an oxygen depletion sensor (ODS) pilot light safety system. The ODS shuts down the heater if not enough fresh air is available. See *Fresh Air for Combustion and Ventilation*, pages 5 through 8.
- 8. Never run heater in small, closed room. Open door into next room to help ventilate.
- 9. If heater shuts off, do not relight until you provide fresh, outside air. If heater keeps shutting off, have it serviced.
- 10. Do not run heater
 - where flammable liquids or vapors are used or stored
 - under dusty conditions
- 11. Never place any objects on the heater.
- 12. 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 shut-down. Allow surface to cool before touching.
- 13. Carefully supervise young children when they are in same room with heater.
- 14. Make sure grill guard is in place before running heater.
- 15. 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.
- 16. Turn off and unplug heater and let cool before servicing. Only a qualified service person should service and repair heater.
- 17. Operating heater above elevations of 4,500 feet may cause pilot outage.

PRODUCT IDENTIFICATION

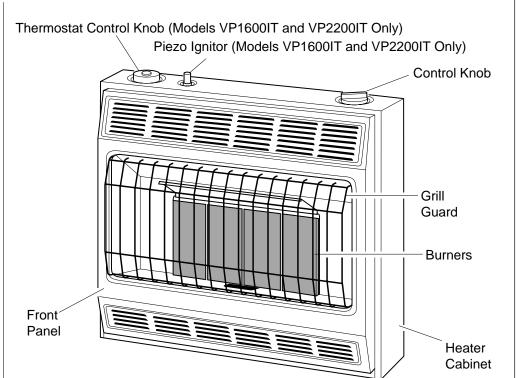


Figure 1 - Vent-Free Propane Gas Heater (Model VP2200IT Shown)

LOCAL CODES

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 ANSI Z223.1, also known as NFPA 54*.

*Available from:

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

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

UNPACKING

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

PRODUCT FEATURES

Safety Device

This heater has a pilot with an Oxygen Depletion Sensor Shutoff System (ODS). 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 (Models VP1600IT and VP2200IT Only)

This heater has a thermostat sensing bulb and thermostat control. This results in the greatest heater comfort. This can also result in lower gas bills.

FRESH AIR COMBUSTION AND **VENTILATION**

WARNING

This heater must have fresh air for proper operation. If not, poor fuel combustion could result. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in vour 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

All spaces in homes fall into one of the three following ventilation classifications: 1. Unusually Tight Contruction; 2. Unconfined Space; 3. Confined Space. The information on pages 5 through 8 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 or less with openings gasketed or sealed and
- b. 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 8.

If your home does not meet all of the three criteria above, continue reading. Unconfined Space

An unconfined space has a minimum air volume of 50 cubic feet for each 1000 BTU/Hr input rating of all appliances in the space (cubic feet equals length x width x height of space). Include adjoining rooms only if there are doorless passageways or ventilation grills between the rooms.

Confined Space

A confined space has an air volume of less than 50 cubic feet for each 1000 BTU/Hr input rating of all appliances in the space (cubic feet equals length x width x height of space). Include adjoining rooms only if there are doorless passageways or ventilation grills between the rooms.

Continued

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 t	he volume o	f the space (l	engt	h x width x heigh	nt).	
	Length x W Example:		20 ft. (leng	gth) :	x 16 ft. (width) x blume of space)		eiling height) =
					n is supplied with e of the space.	grills	or openings, add the
Divide the space volume by 50 cubic feet to determine the maximum BTU/ can support.			num BTU/Hr the space				
	the space ca		e of space) ÷	÷ 50	cu. ft. = (Maximu	ım BT	U/Hr
		2560 cu. ft. (v space can su	-	ace)	÷ 50 cu. ft. =	51.2 0	or 51,200 (maximum
3.	Add the BT	U/Hr of all f	uel burning a	ppli	ances in the space	e.	
		Vent-free h Gas water l Gas furnac Vented gas Gas firepla Other gas a Total	neater* e heater	+			BTU/Hr BTU/Hr BTU/Hr BTU/Hr
	Example:	Gas water l Vent-free h Total		+ =	40,000 18,000 58,000		BTU/Hr BTU/Hr BTU/Hr
		clude direct-vd vents to the					ombustion air from the
4.	Compare the Hr used.	e maximum	BTU/Hr the	spac	e can support wit	h the a	ctual amount of BTU/
					m the space can mount of BTU/H		
	Example:				m the space can mount of BTU/H		
Th	e space in th	e above exai	nple is a con	finec	l space because the	ne actu	al BTU/Hr used is

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 7.
- B. Vent room directly to the outdoors. See *Ventilation Air From Outdoors*, page 8.
- 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.



You must provide additional ventilation air in a confined space.

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).

A WARNING

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.

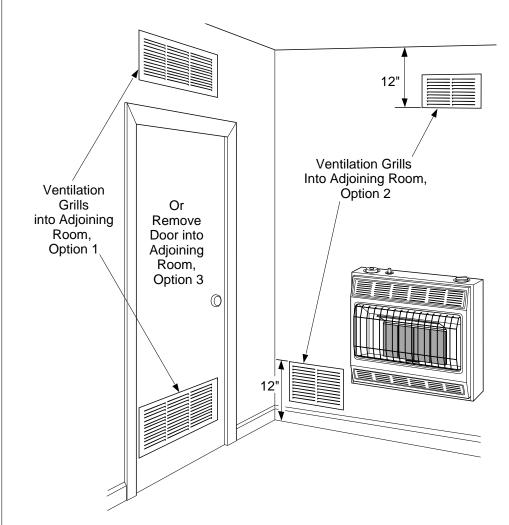


Figure 2 - Ventilation Air from Inside Building

Continued

FRESH AIR FOR COMBUSTION AND VENTILATION Continued

VENTILATION AIR (Continued)

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/ANSI Z223.1, Section 5.3, Air for 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.

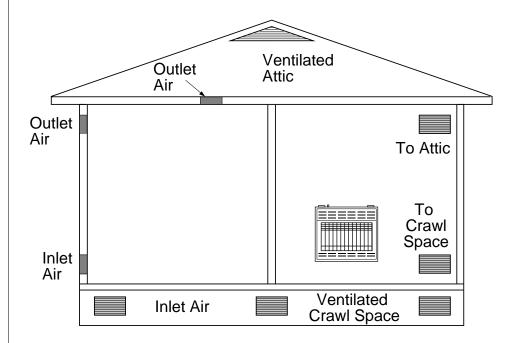


Figure 3 - Ventilation Air from Outdoors

NOTICE

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

CHECK GAS TYPE

Use only propane gas. If your gas supply is not propane, 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.

- external regulator (supplied by installer, see page 14)
- piping (check local codes)
- sealant (resistant to propane gas)
- manual shutoff valve *
- sediment trap
- ground joint union
- tee joint
- test gauge connection * (see Figure 14, page 15)
- pipe wrench
- * An AGA design certified manual shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional AGA design certified manual shutoff valve from your dealer. See *Accessories*, page 31.

LOCATING HEATER

This heater is designed to be mounted on a wall.



Maintain the minimum clearances shown in Figure 4 (page 10). 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 31.

A 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 in the air (such as tobacco smoke) 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 5 through 8.

Continued

Continued

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 31 If planning to use fan, locate heater near an electrical outlet.

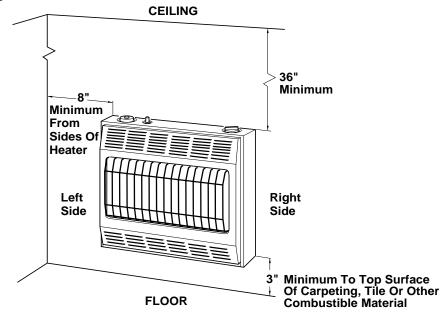


Figure 4 - Mounting Clearances As Viewed From Front of Heater

THERMOSTAT SENSING BULB (Models VP1600IT and VP2200IT Only)

The thermostat sensing bulb has been placed inside the heater for protection during shipping.

Locating Thermostat Sensing Bulb

- 1. Remove front panel of heater (see Figure 7, page 11).
- 2. Locate thermostat sensing bulb just under burner assembly. *IMPORTANT:* Attach thermostat sensing bulb to back of heater for proper operation.

Attaching Thermostat Sensing Bulb

- 1. Remove thermostat sensing bulb from holders inside heater. Route through slot opening in bottom of heater.
- 2. Place clamp on thermostat sensing bulb as shown in Figure 5. Clamp is provided in hardware package.
- 3. Snap clamp into upper mounting hole as shown in Figure 5. Mounting hole is located on lower left edge on back of heater. Make sure the thermostat sensing bulb is pointing up.

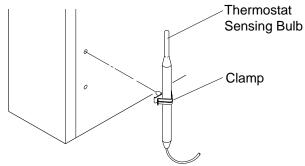


Figure 5 - Attaching Thermostat Sensing Bulb

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.

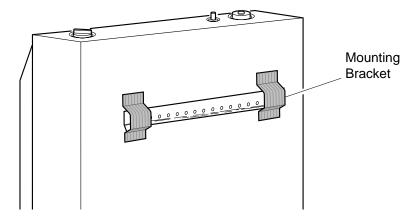


Figure 6 - Mounting Bracket Location

Removing Front Panel Of Heater

- 1. Remove two screws near bottom corners of front panel.
- 2. 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.

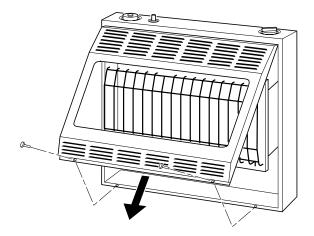


Figure 7 - Removing Front Panel Of Heater

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.

Continued

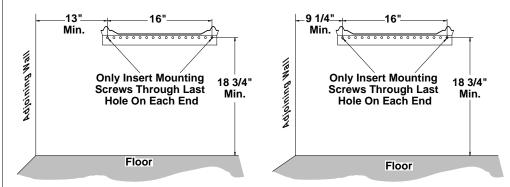
Marking Screw Locations

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

A 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 8). *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.



Models VP2600C and VP2200IT

Models VP1600C and VP1600IT

Figure 8 - Mounting Bracket Clearances

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.
- 2. 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 9.



Figure 9 - Folding Anchor

3. Insert wall anchor (wings first) into hole. Tap anchor flush to wall.

Continued

4. For thin walls (1/2" or less), insert red key into wall anchor. Push red key to "pop" open anchor wings. *IMPORTANT*: Do not hammer key! For thick walls (over 1/2" thick) or solid walls, do not pop open wings.

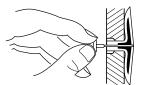


Figure 10 - Popping Open Anchor Wings For Thin Walls

- 5. 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.

Placing Heater On Mounting Bracket

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

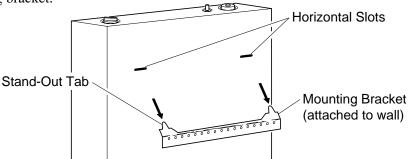


Figure 11 - Mounting Heater Onto Mounting Bracket

Installing Bottom Mounting Screws

- 1. Locate two bottom mounting holes. These holes are near bottom on back panel of heater (see Figure 12).
- 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*, page 12.
 - 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 14-16).

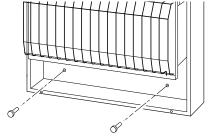


Figure 12 - Installing Bottom Mounting Screws

CONNECTING TO GAS SUPPLY

NOTICE

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

A CAUTION

Never connect heater directly to the propane supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and propane supply.

The installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11 and 14 inches of water. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 13. Pointing the vent down protects it from freezing rain or sleet.

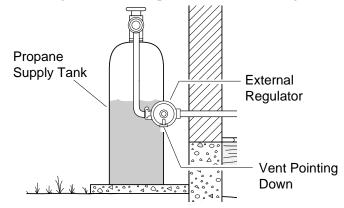


Figure 13 - External Regulator With Vent Pointing Down

A 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 Pipe Diameters

VP1600C or VP1600IT 3/8" or greater VP2600C or VP2200IT 1/2" or greater

Installation must include a manual 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, page 15).

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.

CONNECTING TO GAS SUPPLY

Continued

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

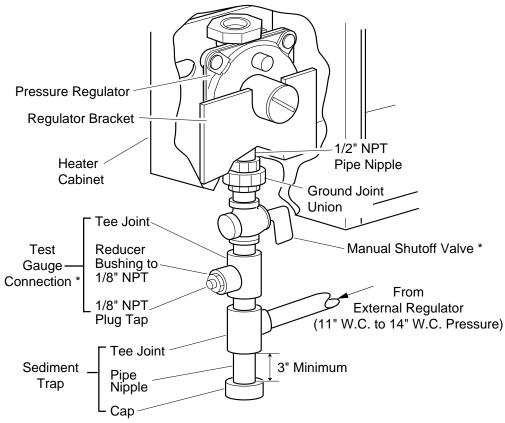


Figure 14 - Gas Connection

* An AGA design certified manual shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional AGA design certified manual shutoff valve from your dealer. See *Accessories*, page 31.

CHECKING GAS CONNECTIONS

A WARNING

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

A 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.

A CAUTION

Make sure external regulator has been installed between propane supply and heater. See guidelines under *Connecting to Gas Supply*, page 14.

PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

Test Pressures In Excess Of 1/2 PSIG

- 1. Disconnect heater and its individual manual shutoff valve from gas supply piping system. Pressures in excess of 1/2 PSIG will damage heater regulator.
- 2. Cap off open end of gas pipe where manual shutoff valve was connected.

Continued

CONNECTING TO GAS SUPPLY

Continued

- 3. Pressurize supply piping system by either using compressed air or opening propane supply tank valve.
- 4. 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.

Test Pressures Equal To or Less Than 1/2 PSIG

- 1. Close manual shutoff valve (see Figure 15).
- 2. Pressurize supply piping system by either using compressed air or opening propane supply tank valve.
- 3. Check all joints from propane supply tank to manual 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 manual shutoff valve (see Figure 15).
- 2. Open propane supply tank valve.
- 3. Make sure control knob of heater is in the OFF position.
- 4. Check all joints from manual shutoff valve to control valve (see Figure 16). 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 17 through 24). Check the rest of the internal joints for leaks.
- 7. Turn off heater (see *To Turn Off Gas to Appliance*, page 20 [models VP1600IT and VP2200IT] or page 24 [models VP1600C and VP2600C]).
- 8. Replace front panel.

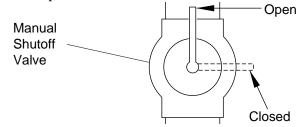


Figure 15 - Manual Shutoff Valve

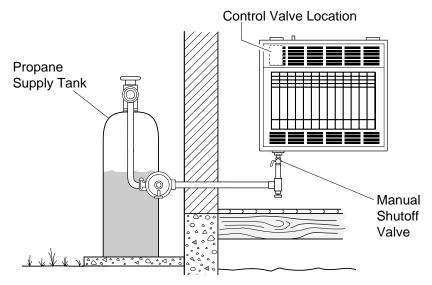


Figure 16 - Checking Gas Joints

Models VP1600IT and VP2200IT



FOR YOUR SAFETY READ BEFORE LIGHTING



A 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.

Models VP1600IT and VP2200IT Continued

LIGHTING INSTRUCTIONS

- 1. STOP! Read the safety information at the top of page 17.
- 2. Make sure manual shutoff valve is fully open.

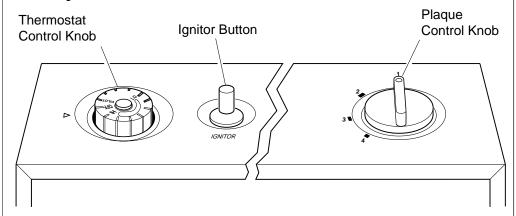


Figure 17 - Thermostat Control Knob In The OFF Position

- 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 at the top of page 17. If you don't smell gas, go to the next step.
- 5. Turn thermostat control knob on left side of heater counterclockwise to the PILOT position. Press in thermostat control knob for 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 thermostat control knob for 30 seconds. This will allow air to bleed from the gas system.

- If thermostat control knob does not pop up when released, contact a qualified service person or gas supplier for repairs.
- 6. Keep thermostat control knob pressed in while pushing down and releasing the ignitor button. This will light pilot. If necessary, continue to press ignitor button until pilot lights.

If pilot does not light

- turn thermostat control knob clockwise / to the OFF position
- repeat steps 5 and 6

If pilot does not stay lit after several tries

- refer to *Troubleshooting*, pages 26 through 29
- contact a qualified service person or gas supplier

Until repairs are made, light pilot with match. To light pilot with match, see *Manual Lighting Procedure*, page 20.

7. Keep thermostat 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. This heater has a safety interlock system. Wait one minute before lighting pilot again.

8. Turn thermostat control knob counterclockwise to the desired heating level. The plaque directly above the pilot should light.

Models VP1600IT and VP2200IT Continued

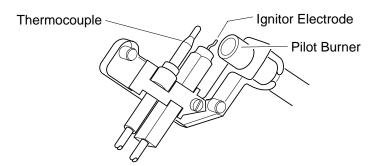


Figure 18 - Pilot

TO SELECT HEATING LEVEL

WARNING

When running heater, set control knob at the 1, 2, 3, or 4 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 manual shutoff valve.

- 1. Slightly press in plaque control knob on right side of heater and turn counterclockwise to the desired position.

 IMPORTANT: Release downward pressure while turning control knob. Control knob will lock at the desired position.
- 2. Turn thermostat control knob on left side of heater to any setting between LO and HI. *Note:* When burners cycle on, or from LO to HI, a "click" will be heard. When the burners light, a "whoosh" noise will be heard.

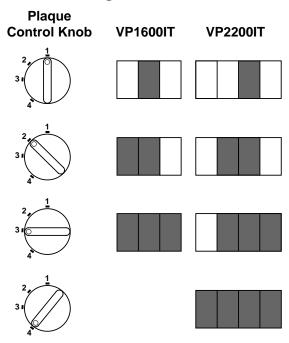


Figure 19 - Burner Patterns

Models VP1600IT and VP2200IT Continued

TO TURN OFF GAS TO APPLIANCE

Shutting Off Heater

- 1. Turn thermostat 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)

1. Turn thermostat control knob clockwise / to the PILOT position.

THERMOSTAT OPERATION (Models VP1600IT and VP2200IT Only)

The thermostat 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 18.
- 2. With thermostat control knob pressed in, strike match. Hold match to pilot until pilot lights.
- 3. Keep thermostat control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.

Models VP1600C and VP2600C

FOR YOUR SAFETY READ BEFORE LIGHTING



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 above.
- 2. Make sure manual shutoff valve is fully open.
- 3. Turn control knob clockwise _____ to the OFF position.

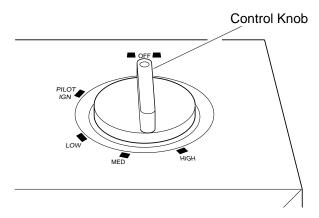


Figure 20 - Control Knob In The OFF Position

Models VP1600C and VP2600C Continued

- 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 at the top of page 21. If you don't smell gas, go to the next step.
- 5. Press in control knob.

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 gas supplier for repairs.
- 6. Keep control knob pressed in and turn it counterclockwise to the PILOT/IGN position. This will light pilot.

Note: You will hear a loud "click" when the control knob reaches the PILOT/IGN position.

If pilot does not light

- turn control knob clockwise to the OFF position
- repeat steps 5 and 6

If pilot does not stay lit after several tries

- refer to *Troubleshooting*, pages 26 through 29
- · 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 24.

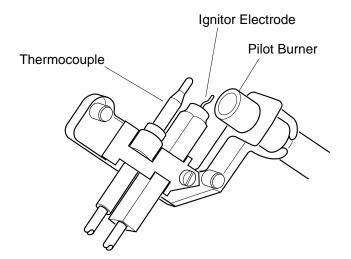


Figure 21 - Pilot

7. 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.

Models VP1600C and VP2600C Continued

TO SELECT HEATING LEVEL

A 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 manual shutoff valve.

 Slightly press in control knob and turn counterclockwise to the LOW, MEDIUM, or HIGH positions.
 IMPORTANT: Release downward pressure while turning control knob. Control knob will lock at the desired position.

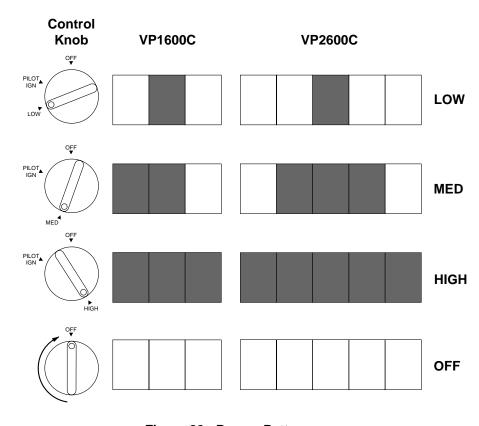


Figure 22 - Burner Patterns

Models VP1600C and VP2600C Continued

TO TURN OFF GAS TO APPLIANCE

Shutting Off Heater

- 2. Turn off all electric power to the appliance if service is to be performed.

Shutting Off Burner Only (pilot stays lit)

1. Turn control knob clockwise / to the PILOT position.

MANUAL LIGHTING PROCEDURE

- 1. Follow steps 1 through 5 under Lighting Instructions, pages 21 and 22.
- 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.

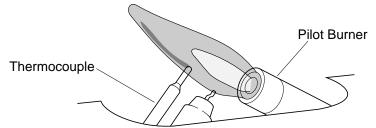


Figure 23 - Correct Pilot Flame Pattern

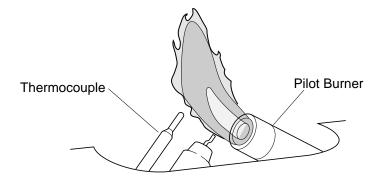


Figure 24 - Incorrect Pilot Flame Pattern

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

- turn heater off (see *To TurnOff Gas to Appliance*, page 20 [models VP1600IT and VP2200IT] or page 24 [models VP1600C and VP2600C])
- see Troubleshooting, pages 26 through 29

INSPECTING BURNER

Continued

BURNER FLAME PATTERN

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

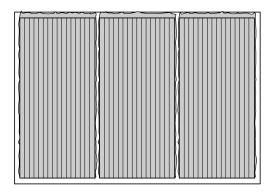


Figure 25 - Correct Burner Flame Pattern

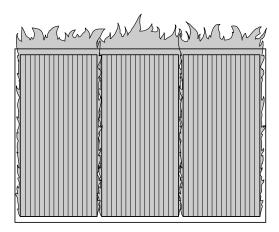


Figure 26 - Incorrect Burner Flame Pattern

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

- turn heater off (see *To Turn Off Gas to Appliance*, page 20 [models VP1600IT and VP2200IT] or page 24 [models VP1600C and VP2600C])
- see Troubleshooting, pages 26 through 29

CLEANING AND MAINTENANCE

A WARNING

Turn off heater and let cool before cleaning.

A 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, etc.

ODS/PILOT AND BURNER ORIFICE

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

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.

TROUBLE-SHOOTING

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

A 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	POSSIBLE CAUSE	REMEDY
When control knob is pressed in and turned	Ignitor electrode positioned wrong.	1. Replace ignitor.
to the PILOT/IGN	2. Ignitor electrode broken.	2. Replace ignitor.
position, there is no spark at ODS/pilot	3. Ignitor electrode not connected to ignitor cable.	3. Reconnect ignitor cable.
(non-thermostat models only).	4. Ignitor cable pinched or wet.	4. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry.
When ignitor button is		
pressed in, there is no	5. Broken ignitor cable.	5. Replace ignitor cable.
spark at ODS/pilot (thermostat models only).	6. Bad piezo ignitor.	6. Replace control valve (piezo is part of control valve).
	7. Piezo ignitor nut is loose (Thermostat models only).	7. Tighten nut holding piezo ignitor. Nut is located inside heater cabinet at top.

TROUBLE-SHOOTING

Continued

OBSERVED FROBLEM

When control knob is pressed in and turned to the PILOT/IGN position, there is spark at ODS/pilot but no ignition (non-thermostat models only).

When ignitor button is pressed in, there is a spark at ODS/Pilot but no ignition (thermostat models only).

POSSIBLE CAUSE

- Gas supply turned off or manual shutoff valve closed.
- Control knob not pressed in while being turned to PILOT/IGN position (non-thermostat models only).
 Thermostat control knob
 - Thermostat control knob not pressed in (thermostat models only).
- 3. Air in gas lines when installed.
- 4. Depleted gas supply
- 5. ODS/pilot is clogged.
- 6. Gas regulator setting is not correct.
- 7. Thermostat control knob is not in pilot position (thermostat models only).

REMEDY

- 1. Turn on gas supply or open manual shutoff valve.
- 2. Press in control knob while turning to PILOT/ IGN position (non-thermostat models only). Press in thermostat control knob while turning to PILOT/IGN position (thermostat models only)
- 3. Continue holding down control knob. Repeat igniting operation until air is removed.
- 4. Contact local propane gas company.
- Clean ODS/pilot (see Cleaning and Mainte- nance, page 26) or replace ODS/pilot assembly.
- 6. Replace gas regulator.
- 7. Turn thermostat control knob to pilot position.

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

- 1. Control knob not fully pressed in.
- 2. Control knob not pressed in long enough.
- 3. Manual shutoff valve not fully open.
- 4. Thermocouple connection loose at control valve.
- 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.
- 8. Safety interlock system has been triggered (thermostat models only).

- 1. Press in control knob fully.
- After ODS/pilot lights, keep control knob pressed in 30 seconds.
- 3. Fully open manual shutoff valve.
- 4. Hand tighten until snug, then tighten 1/4 turn more.
- 5. A) Contact local propane gas company.
 - B) Clean ODS/pilot (see *Cleaning and Mainte-nance*, page 26) or replace ODS/pilot assembly.
- 6. Replace thermocouple.
- 7. Replace control valve.
- 8. Wait one minute for safety interlock system to reset. Repeat ignition operation.

TROUBLE-SHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burner(s) does not light after ODS/pilot is lit.	Burner orifice(s) is clogged.	1. Clean burner orifice(s) (see <i>Cleaning and Maintenance</i> , page 26) 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 propane gas company.
Delayed ignition of burner(s)	Manifold pressure is too low.	Contact local propane gas company.
- Currier(s)	2. Burner orifice(s) is clogged.	2. Clean burner orifice(s) (see <i>Cleaning and Maintenance</i> , page 26 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 26) or replace burner orifice(s).
	 Burner damaged. Gas regulator defective. 	 Replace burner. Replace gas regulator.
Burner plaque(s) does not glow.	 Plaque damaged. Inlet gas pressure is too low. Control knob set between locked positions. 	 Replace burner. Contact local propane gas company. Turn control knob until it locks at desired setting.
Slight smoke or odor during initial operation	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.	1. This is common with most heaters. If noise is excessive, contact qualified service person.

TROUBLE-SHOOTING

Continued

A 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>IMPOR-TANT</i> statement above Low fuel supply Gas leak. See Warning statement at top of page. 	 Ventilate room. Stop using odor causing products while heater is running. Refill supply tank. Locate and correct all leaks (see <i>Checking Gas Connections</i>, page 15).
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 propane gas company. Clean ODS/pilot (see Cleaning and Maintenance, page 26).
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 15). 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 15).

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.

SPECIFICATIONS

	VP1600IT	VP2200IT
BTU (Variable)	6,000-16,000	6,500-22,000
Type Gas	Propane Only	Propane Only
Ignition	Piezo	Piezo
Pressure Regulator Setting	8" W.C.	8" W.C.
Inlet Gas Pressure (in. of water	•)	
Maximum	14"	14"
Minimum	11"	11"
Dimensions, Inches (H x W x I	D)	
Heater	23.5 x 18.5 x 8	23.5 x 25.9 x 8
Carton	25.8 x 21.3 x 10.1	25.8 x 28.7 x 10.1
Weight (pounds)		
Heater	24	32
Shipping	29	38

	VP1600C	VP2600C
BTU (Variable)	6,000/11,000/16,000	6,000/16,000/26,000
Type Gas	Propane Only	Propane Only
Ignition	Piezo	Piezo
Pressure Regulator Setting	8" W.C.	8" W.C.
Inlet Gas Pressure (in. of wate	er)	
Maximum	14"	14"
Minimum	11"	11"
Dimensions, Inches (H x W x	D)	
Heater	23.5 x 18.5 x 8	23.5 x 25.9 x 8
Carton	25.8 x 21.3 x 10.1	25.8 x 28.7 x 10.1
Weight (pounds)		
Heater	22	30
Shipping	27	36

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.

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
- propane gas supply may be low

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 propane gas supplier.

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:

- your name
- your address
- model number of your heater
- how heater was malfunctioning
- type of gas used (propane 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 information. When calling DESA International, have ready:

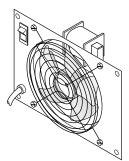
- model number of your heater
- the replacement part number

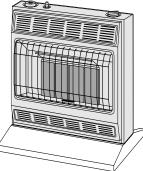
ACCESSORIES

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

FAN KITS - GA2100A and GA3100

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





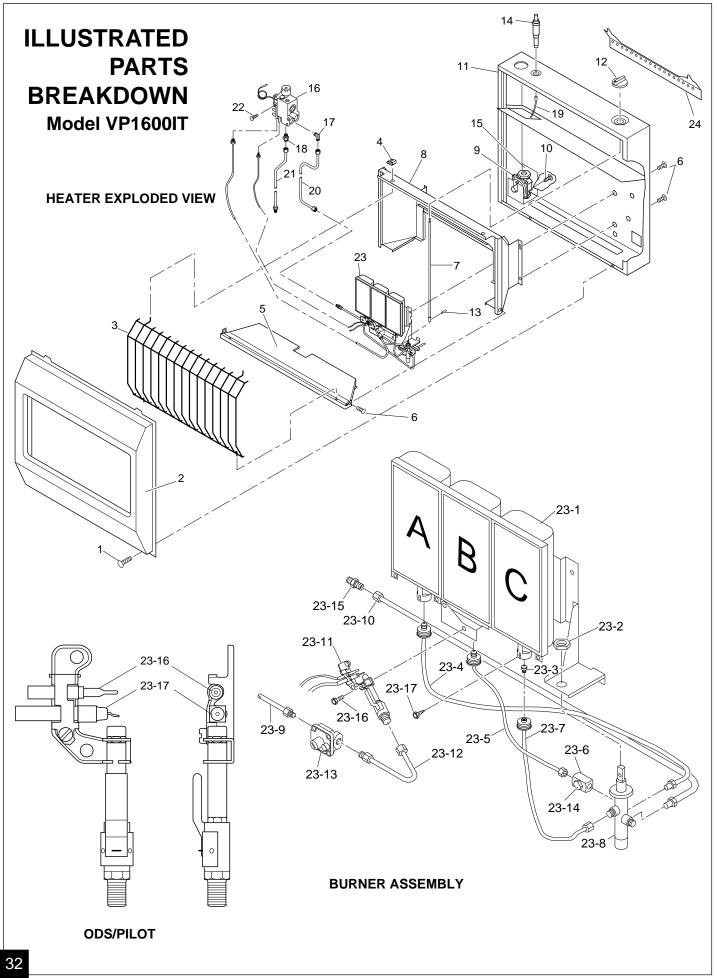
FLOOR MOUNTING STAND Models VP1600C & VP1600IT - GA4000 Models VP2600C & VP2200IT - GA4010

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

MANUAL SHUTOFF VALVE - GA5010

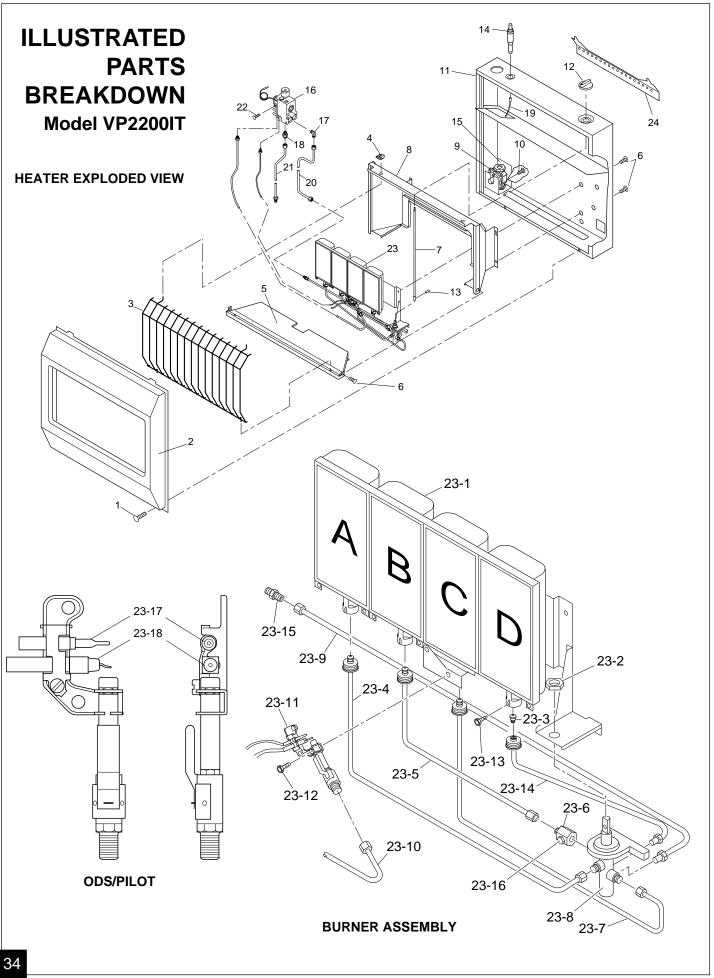
For all models. Manual shutoff valve with 1/8" NPT tap.





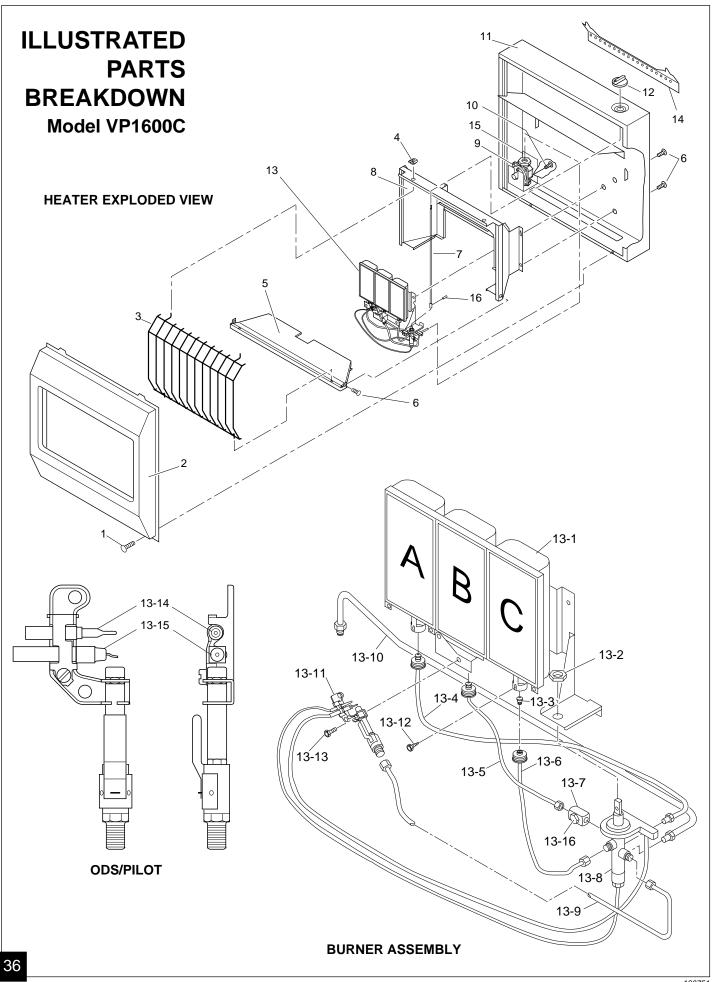
PARTS LIST Model VP1600IT

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	098304-01	Screw, #10 x 3/8"	2
2	098742-13	Front Panel	1
3	098238-01	Grill Guard	1
4	098342-01	Clip-Grill Guard	2
5	098198-01	Apron	1
6	M11084-26	Screw, #10 x 3/8"	9
7	098462-01	Control Rod Assembly	1
8	098457-01	Reflector Assembly	1
9	098867-06	Regulator	1
10	M11084-38	Screw, #8 x 3/8"	2
11	098455-06	Cabinet Assembly	1
12	098324-01	Control Knob	1
13	098325-01	Roll Pin	1
14	097159-01	Piezo Ignitor	1
15	100537-01	Regulator Bracket	1
16	098522-05	Thermostat Gas Valve	1
17	098265-02	Male Elbow	1
18	098264-02	Male Connector	1
19	098271-03	Ignitor Cable	1
20	100614-01	SIT Tube	1
21	100610-01	Inlet Tube	1
22	099211-01	Hex-Head Screw	2
23	See Detail	Burner Assembly	1
23-1	099218-01	Burner	1
23-2	098508-01	Valve Retainer Nut	1
23-3	099056-01	Injector	3
23-4	099048-01	Tubing-Valve to Plaque A	1
23-5	099049-01	Tubing-Valve to Plaque B	1
23-6	099057-01	Pressure Tap Fitting	1
23-7	099050-01	Tubing-Valve to Plaque C	1
23-8	100605-01	Control Valve	1
23-9	099387-06	Pilot Tubing-Thermostat Control Valve to Pilot	1
23-10	100616-01	Control Valve Tube	1
23-11	099059-04	ODS/Pilot	1
23-12	100615-01	Male Connector	2
23-13	M11084-37	Screw, #8 x 1/4"	3
23-14	098276-01	Plug, 1/8	1
23-15	M11084-26	Screw, #10 x 3/8"	2
23-16	098514-01	Thermocouple	1
23-17	098594-01	Ignitor Electrode	1
24	099066-01	Mounting Bracket	1
		PARTS AVAILABLE - NOT SHOWN	1
	100619-01	Thermostat Control Position Label	1
	100619-02	Control Position Label	1



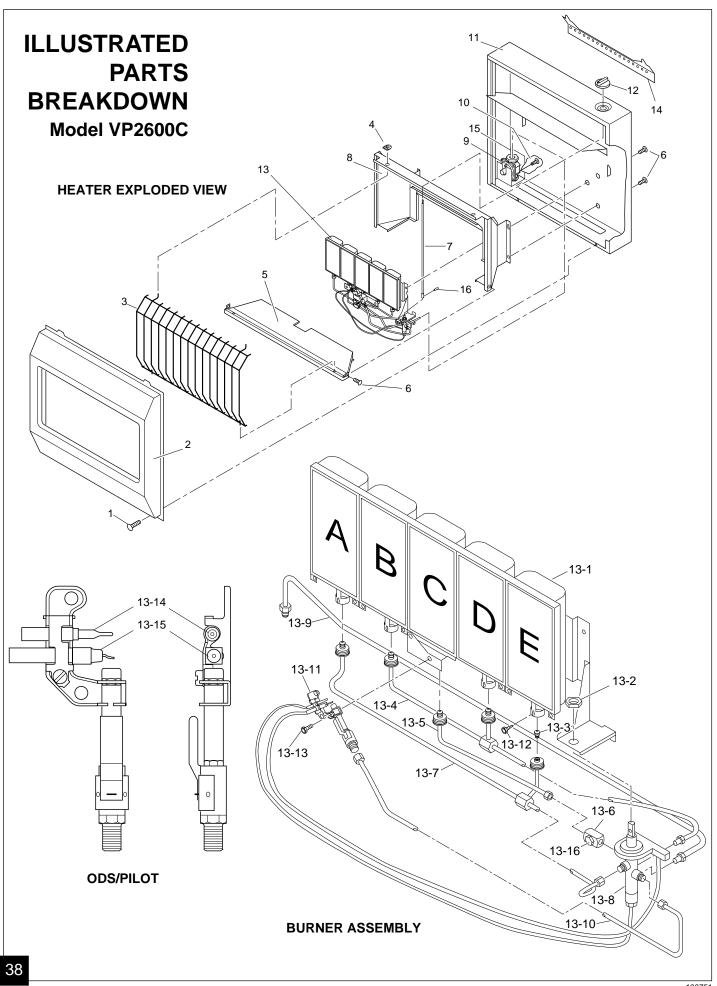
PARTS LIST Model VP2200IT

KEY	PART		
NO.	NUMBER	DESCRIPTION	QTY.
1	098304-01	Screw, #10 x 3/8"	2
2	098742-14	Front Panel	1
3	098238-05	Grill Guard	1
4	098342-01	Clip-Grill Guard	2
5	098198-04	Apron	1
6	M11084-26	Screw, #10 x 3/8"	9
7	098462-01	Control Rod Assembly	1
8	098457-05	Reflector Assembly	1
9	098867-06	Regulator	1
10	M11084-38	Screw, #8 x 3/8"	2
11	098698-04	Cabinet Assembly	1
12	098324-01	Control Knob	1
13	098325-01	Roll Pin	1
14	097159-01	Piezo Ignitor	1
15	100537-01	Regulator Bracket	1
16	098522-05	Thermostat Gas Valve	1
17	098265-02	Male Elbow	1
18	098264-02	Male Connector	1
19	098271-03	Ignitor Cable	1
20	100614-01	SIT Tubing	1
21	100610-01	Inlet Tubing	1
22	099211-01	Hex-Head Screw	2
23	See Detail	Burner Assembly	1
23-1	099218-03	Burner	1
23-2	098508-01	Valve Retainer Nut	1 5
23-3	099056-05	Injector	5
23-4	100620-01	Tubing-Valve to Plague A	1
23-5	100607-01	Tubing-Valve to Plaque B	1 1
23-6 23-7	099057-01 100608-01	Pressure Tap Fitting	1 1
23-7	100605-01	Tubing-Valve to Plaque C Control Valve	
23-9	100603-02	Control Valve Tube	
23-9	099387-06	Pilot Tubing-Thermostat Control Valve to Pilot	
23-10	099059-04	ODS/Pilot	
23-11	M11084-26	Screw, #10 x 3/8"	2
23-12	M11084-20	Screw, #8 x 1/4"	4
23-13	100606-01	Tubing - Valve to Plaque D	1
23-14	100615-01	Male Connector	2
23-16	098276-01	Plug, 1/8	1
23-10	098514-01	Thermocouple	1
23-17	098594-01	Ignitor Electrode	1
24	099066-01	Mounting Bracket	1
		PARTS AVAILABLE - NOT SHOWN	
	100619-01	Thermostat Control Position Label	1
	100619-03	Control Position Label	1



PARTS LIST Model VP1600C

KEY	PART		
NO.	NUMBER	DESCRIPTION	QTY.
1	098304-01	Screw, #10 x 3/8"	2
2	098742-13	Front Panel	1
3	098238-01	Grill Guard	1
4	098342-01	Clip-Grill Guard	2
5	098198-01	Apron	1
6	M11084-26	Screw, #10 x 3/8"	9
7	098462-01	Control Rod Assembly	1
8	098457-01	Reflector Assembly	1
9	098867-06	Regulator	1
10	M11084-38	Screw, #8 x 3/8"	2
11	098455-01	Cabinet Assembly	1
12	098324-01	Control Knob	1
13	See Detail	Burner Assembly	1
13-1	099218-01	Burner	1
13-2	098508-01	Valve Retainer Nut	1
13-3	099056-01	Injector	3
13-4	099048-01	Tubing-Valve to Plaque A	1
13-5	099049-01	Tubing-Valve to Plaque B	1
13-6	099050-01	Tubing-Valve to Plaque C	1
13-7	099057-01	Pressure Tap Fitting	1
13-8	098932-06	Control Valve	1
13-9	099043-01	Pilot Tubing-Valve to Pilot	1
13-10	099051-01	Inlet Tubing	1
13-11	099059-02	ODS/Pilot	1
13-12	M11084-37	Screw, #8 x 1/4"	3
13-13	M11084-26	Screw, #10 x 3/8"	2
13-14	098593-01	Thermocouple	1
13-15	098594-01	Ignitor Electrode	1
13-16	098276-01	Plug, 1/8"	1
14	099066-01	Mounting Bracket	1
15	100537-01	Regulator Bracket	1
16	098325-01	Roll Pin	1
	PARTS A	VAILABLE - NOT SHOWN	
	098465-01	Control Position Label	1



PARTS LIST Model VP2600C

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	098304-01	Screw, #10 x 3/8"	2
2	098742-14	Front Panel	1
3	098238-02	Grill Guard	1
4	098342-01	Clip-Grill Guard	2
5	098198-02	Apron	1
6	M11084-26	Screw, #10 x 3/8"	9
7	098462-01	Control Rod Assembly	1
8	098457-02	Reflector Assembly	1
9	098867-06	Regulator	1
10	M11084-38	Screw, #8 x 3/8"	2
11	098456-01	Cabinet Assembly	1
12	098324-01	Control Knob	1
13	See Detail	Burner Assembly	1
13-1	099218-02	Burner	1
13-2	098508-01	Valve Retainer Nut	1
13-3	099056-01	Injector	5
13-4	099052-01	Tubing-Valve to Plaque B & D	1
13-5	099053-01	Tubing-Valve to Plaque C	1
13-6	099057-01	Pressure Tap Fitting	1
13-7	099054-01	Tubing-Valve to Plaque A & E	1
13-8	098932-06	Control Valve	1
13-9	099051-02	Inlet Tubing	1
13-10	099044-01	Pilot Tubing-Valve to Pilot	1
13-11	099059-02	ODS/Pilot	1
13-12	M11084-37	Screw, #8 x 1/4"	5
13-13	M11084-26	Screw, #10 x 3/8"	2
13-14	098593-01	Thermocouple	1
13-15	098594-01	Ignitor Electrode	1
13-16	098276-01	Plug, 1/8"	1
14	099066-01	Mounting Bracket	1
15	100537-01	Regulator Bracket	1
16	098325-01	Roll Pin	1
	PARTS A	VAILABLE - NOT SHOWN	
	098465-01	Control Position Label	1

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 **VANGUARD VENT-FREE PROPANE GAS HEATERS**

DESA International warrants this product and any parts thereof, to be free from defects in material and workmanship for two 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 sales or proof of purchase must be presented.

This warranty is extended only to the original retail purchaser. This warranty covers only the cost of parts and labor required to restore this heater to proper operating condition. Warranty parts 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, alteration, tampering, contaminated fuels, or defects caused by improper installation. Travel, transportation, and incidental costs associated with warranty repairs are not reimbursable under this warranty and are 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 years 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 of how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitation of implied warranties, or exclusion, or limitation of damages may not apply to you.

This warranty provides the original retail purchaser with specific legal rights. For specific information regarding those rights, please consult the applicable state laws.

For information about this warranty write:



2701 Industrial Drive P.O. Box 90004 Bowling Green, KY 42102-9004

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