

BRECKWELL

Hearth Products

G2500DV

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.

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

FOR YOUR SAFETY: WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Open windows.
- Extinguish any open flame.
- 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 gas 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 assistance or additional information consult a qualified installer, service agency or the gas supplier.

Save this manual for future reference.

Warnock Hersey



Tested by
Intertek Testing Services
Warnock Hersey
211 Schoolhouse Street
Coquitlam, BC Canada V3K4X9

CD-L-250 10/98/250

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BRECKWELL
Hearth Products

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INTRODUCTION

The Breckwell G2500DV Gas Heater is a listed gas-fired direct vent room heater tested by Intertek Testing/Warnock Hersey to ANSI Z21-44-1995 *GAS-FIRED GRAVITY AND FAN TYPE DIRECT VENT WALL FURNACES*, CAN1-2.19-M81 *GAS-FIRED GRAVITY AND FAN TYPE DIRECT VENT FURNACES*, ANSI Z21.50-1996/CGA-2.22-M96 *VENTED GAS FIREPLACES*, CAN/CGA 2.17-M91 *GAS FIRED APPLIANCES FOR USE AT HIGH ALTITUDES*, UL307B-1995 *GAS-BURNING HEATING APPLIANCES FOR MANUFACTURED HOMES*.

The installation of the Breckwell G2500DV Gas Heater must conform with local codes, or in the absence of local codes, with the current National Fuel Gas Code, ANSI Z223.1 and the current CAN/CGA-B149 Installation Code.

Also for use in mobile (manufactured) homes after home is sited.

This appliance must be installed in accordance with the current Standard Mobile Homes, CAN/CSA Z240 MH, or with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or when such a standard is not applicable, the current Standard for Fire Safety Criteria for Manufactured Homes Installation, Sites, and Communities, ANSI/NFPA 501A.

CAUTION: This appliance must be vented to the outside.

Installation and repair of the Breckwell G2500DV Gas Heater should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the G2500DV be kept clean.

When operating your Breckwell G2500DV, respect basic safety standards. Read these instructions carefully before you attempt to operate the heater. Failure to do so may result in damage to property or personal injury and may void the product warranty.

Consult with your local building code agency and insurance representative before you begin your installation to ensure compliance with local codes, including the need for permits and follow-up inspections.

Several issues must be addressed when selecting a suitable location for your Breckwell Gas Heater. Observing required clearances to combustible materials, the proximity to a safe chimney or venting system location, and the accessibility of the gas and electrical supply must all be considered. In addition, selecting a location that takes advantage of the building's natural air flow is also desirable to maximize the heating effectiveness of the heater. In many cases, this is a central location within the building.

INSTALLATION

DUE TO HIGH TEMPERATURES, THE BRECKWELL G2500DV SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.

CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION.

YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

CLOTHING OR OTHER FLAMMABLE MATERIALS SHOULD NOT BE PLACED ON OR NEAR THE BRECKWELL G2500DV.

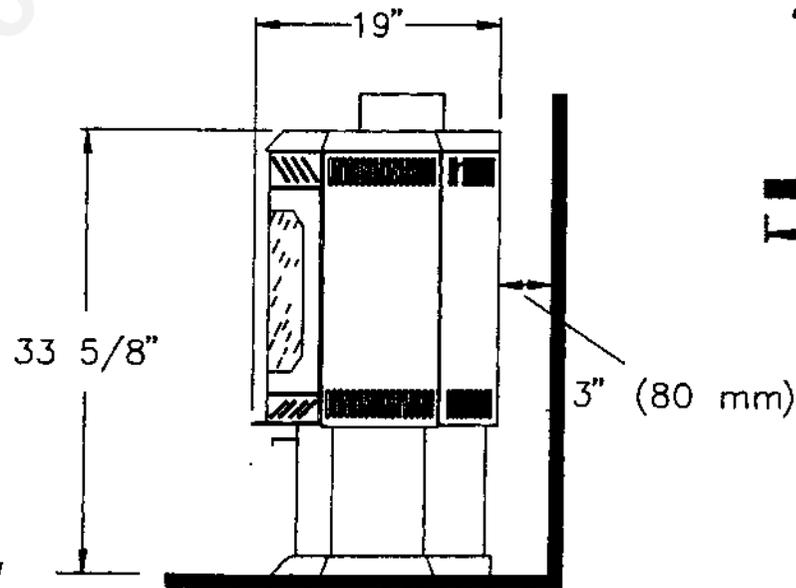
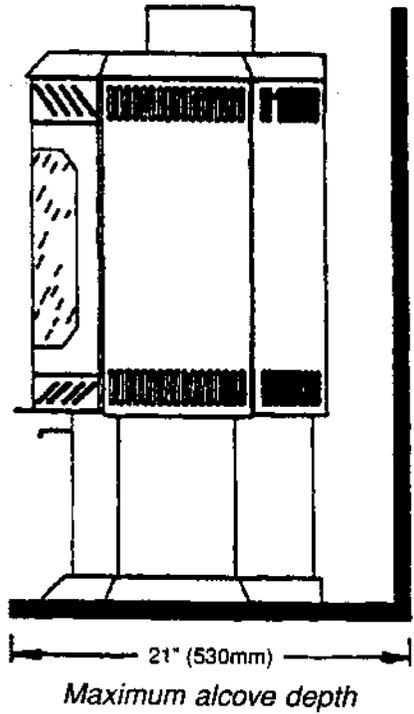
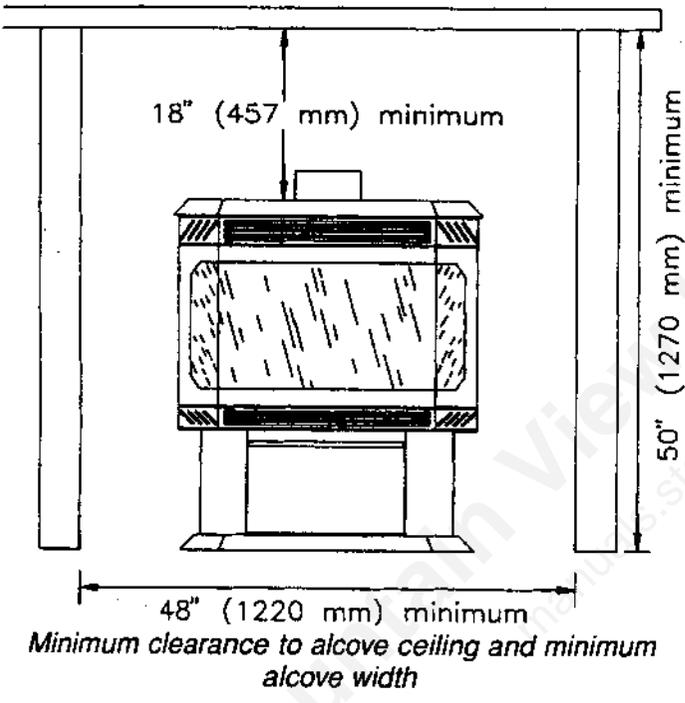
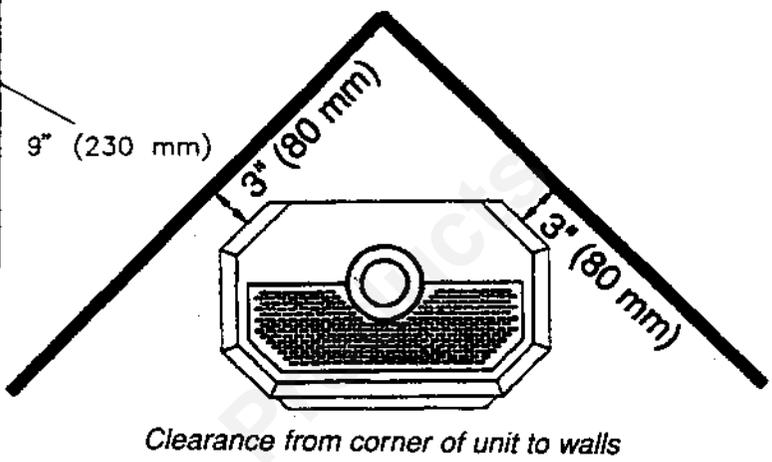
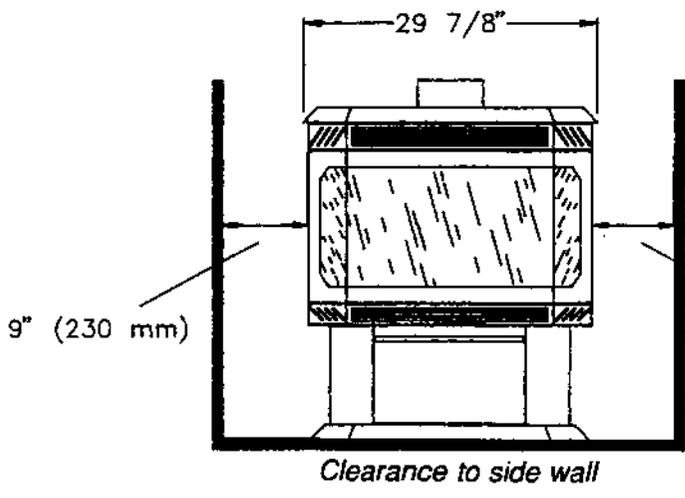
The following clearances to combustibles must be observed:

| | |
|---|---------------|
| Heater to left sidewall | 9" (230 mm) |
| Heater to right sidewall | 9" (230 mm) |
| Heater corner to walls | 3" (80 mm) |
| Heater to back wall (measured from rear of heater to wall) | 3" (80 mm) |
| Heater to alcove ceiling (minimum) | 18" (457 mm) |
| Maximum alcove depth | 21" (530 mm) |
| Minimum alcove width | 48" (1220 mm) |
| From mantel to top of stove | 22" (560 mm) |

In addition to the clearances mentioned previously, adequate accessibility clearance for servicing and proper operation must be maintained.

If this appliance is to be installed on carpeting, vinyl tile, or other combustible material other than wood flooring, the appliance must be installed on a metal or wood panel, or other approved or listed material suited for floor protection (i.e. hearth pad), extending at least the full width and depth of the appliance.

CLEARANCES



VENTING

Use Only Approved Venting

The Breckwell G2500DV has been tested and is listed for installation with Simpson Dura-Vent GS venting components. The Simpson Dura-Vent GS warranty will be voided, and serious fire, health, or other safety hazards may result from any of the following actions:

- Installation of any damaged Dura-Vent GS component.
- Unauthorized modification of the Dura-Vent GS System.
- Installation of any component part not manufactured or approved by Simpson Dura-Vent.
- Installation other than as instructed by Simpson Dura-Vent and the appliance manufacturer.

Consult your local building codes before beginning the installation, and follow the manufacturer's instructions exactly. The following Simpson Dura-Vent GS 4"x6 5/8" venting components are approved for use with the Breckwell G2500DV

SIMPSON DURA-VENT COMPONENTS

| | |
|---|---------------------------------------|
| Basic Horizontal Termination Kit | 970 |
| Horizontal Termination Kit A | 971 |
| Vertical Termination Kit | 978 |
| Horizontal Square Termination Cap | 984 |
| High Wind Horizontal Square Termination Cap | 985 |
| High Wind Vertical Termination Cap | 991 |
| Low Profile Termination Cap | 980 |
| Extended Vertical Termination Cap | 930 |
| Vinyl Siding Standoff | 950 |
| Wall Thimble Cover* | 942 |
| Round Ceiling Support/Wall Thimble Cover | 940 |
| Cathedral Ceiling Support Box | 941 |
| Storm Collar | 953 |
| Ceiling Firestop | 963 |
| Wall Firestop | 947 |
| Roof Flashing 0/12 - 6/12 Pitch | 943 |
| Steep Roof Flashing 7/12 - 12/12 Pitch | 943S |
| Wall Strap | 988 |
| Restrictor Disk | 929 |
| Designer Series Trim Kits | 3951, 3952, 3953, 3960, 3961, 3962 |

* May be required in Canada

DIRECT VENT PIPE LENGTHS AND DURA-VENT COMPONENT NUMBERS

| | Galvanized | Black |
|-----------------------------|------------|-------|
| 6" Straight | 908 | 908B |
| 9" Straight | 907 | 907B |
| 12" Straight | 906 | 906B |
| 24" Straight | 904 | 904B |
| 36" Straight | 903 | 903B |
| 48" Straight | 902 | 902B |
| 11" - 14 5/8" Adj. Straight | 911 | 911B |
| 17" - 24 Adj. Straight | 917 | 917B |
| 45° Elbow | 945 | 945B |
| 45° Swivel Elbow | 945G | 945BG |
| 90° Elbow | 990 | 990B |
| 90° Swivel Elbow | 998G | 990BG |

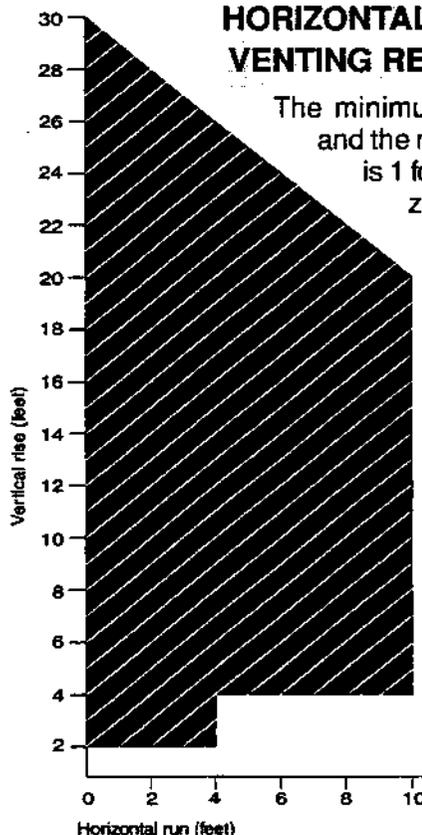
The Breckwell G2500DV should be installed with no more than 2 elbows. The elbows may be either 45° or 90°. All pipe joints must be sealed with high temp silicone.

The G2500 DV must not be connected to a chimney flue serving any other appliance.

WARNING: The flow of ventilation air must not be obstructed.

HORIZONTAL AND VERTICAL VENTING REQUIREMENTS

The minimum vent rise is 2 feet, and the minimum horizontal run is 1 foot. The maximum horizontal run allowed is 10 feet. The maximum vertical rise and maximum total vent length is 30 feet. The horizontal and vertical lengths of venting must fall within the shaded portion of the chart to the left:



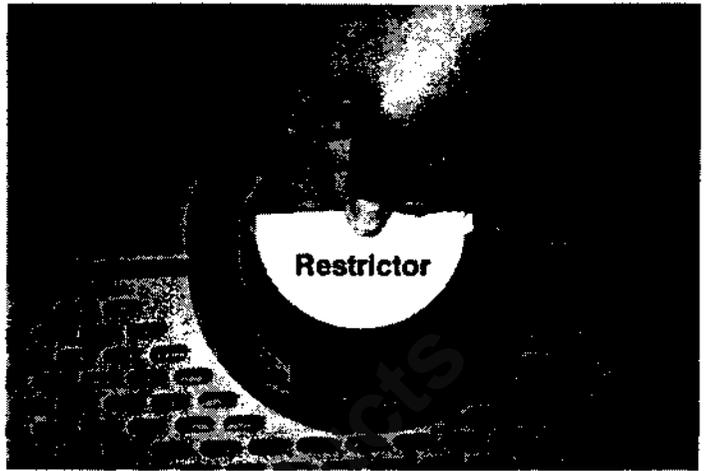
VENTING

RESTRICTOR PLATES

The Breckwell restrictor must be added in straight vertical installations above 8 feet for either NG or LPG. To install this restrictor simply push it down into the 4" inner pipe section of the Dura-Vent exhaust adapter on the stove top as shown.

Additional Simpson Dura-Vent part No. 929 restrictor disks can be added in extreme vertical installations if needed.

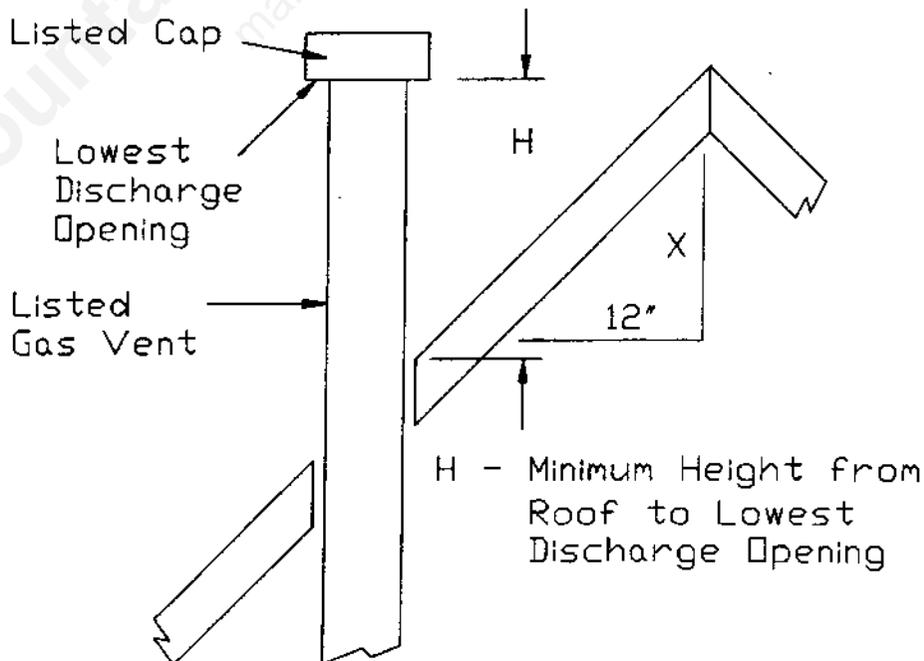
For venting systems that utilize one or two elbows (either 45° or 90°), restrictor plates should not be used.



VENT TERMINAL CLEARANCES

For the Breckwell G2500DV, the vent/air intake termination clearances above the high side of an angled roof are as follows

| Roof Pitch | H (Min.) Ft. | Roof Pitch | H (Min.) Ft. |
|---------------------|--------------|---------------------|--------------|
| Flat to 6/12 | 1.0 | Over 11/12 to 12/12 | 4.0 |
| 6/12 to 7/12 | 1.25 | Over 12/12 to 14/12 | 5.0 |
| Over 7/12 to 8/12 | 1.5 | Over 14/12 to 16/12 | 6.0 |
| Over 8/12 to 9/12 | 2.0 | Over 16/12 to 18/12 | 7.0 |
| Over 9/12 to 10/12 | 2.5 | Over 18/12 to 20/12 | 7.5 |
| Over 10/12 to 11/12 | 3.25 | Over 20/12 to 21/12 | 8.0 |



VENTING

The following picture shows possible termination cap locations and minimum dimensions to surroundings

- A= The clearance above grade, veranda, porch, deck, or balcony must be a minimum of 12" (30cm).¹
- B= The clearance to a door or window that may be opened must be a minimum of 12" (30 cm).¹
- C= A minimum 12" (30 cm) clearance to a permanently closed window.
- D= The vertical clearance to a ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center-line of the terminal must be a minimum of 18" (46cm).
- E= The clearance to an unventilated soffit must be a minimum of 12" (30 cm).
- F= The clearance to an outside corner is 9" (23 cm).
- G= The clearance to an inside corner is 12" (30 cm).
- H= A vent must not be installed within 3 feet (90 cm) above a meter/regulator assembly when measured from the horizontal center-line of the regulator.¹
- I= The clearance to service regulator vent outlet must be a minimum of 6 feet (1.8m).¹
- J= The clearance to a non-mechanical air supply inlet or the combustion air inlet of another appliance must be a minimum of 6 feet (1.8 m).¹
- K= The clearance to a mechanical air supply inlet must be a minimum of 6 feet (1.8 m).¹
- L= The clearance above a paved sidewalk or a paved driveway located on public property must be a minimum of 7 feet (2.1 m).^{1,2}

M= The clearance under a veranda, porch, deck or balcony must be a minimum of 12" (30 cm).^{1,3}

N= The clearance to vegetation must be 3 feet (90 cm).

¹ As specified in CAN/CGA-B149 Installation Codes (1991). NOTE: local codes or regulations may require different clearances.

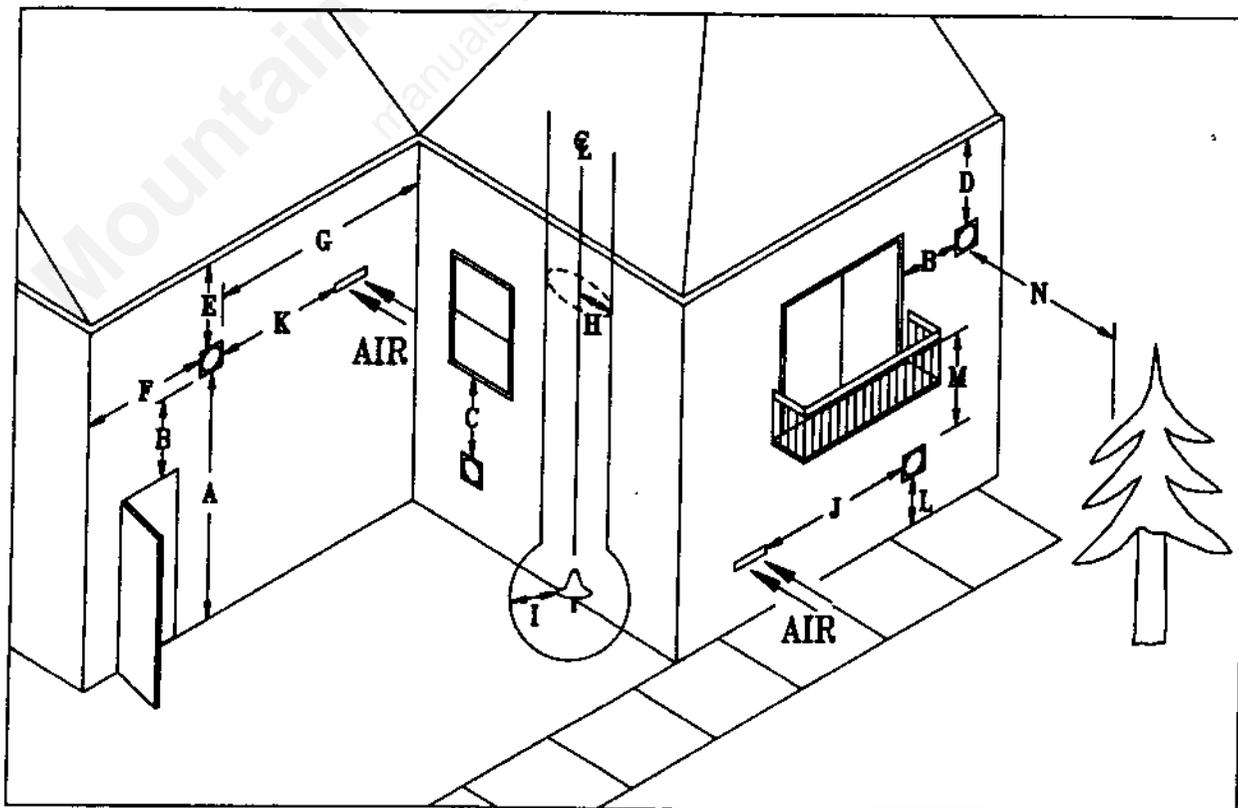
² A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.

³ Only permitted if veranda, porch, deck or balcony is fully opened on a minimum of 2 sides beneath the floor.

In addition to the above listed clearances, some other factors to consider when locating the vent termination are:

- The vent should be located so that people cannot be burned by accidentally touching the vent surfaces.
- The vent should be located so that it cannot be damaged by doors, lawn mowers, snowblowers, etc.
- Obstructions or impediments to venting such as snow or vegetation within 3 feet of vent.
- Nearby combustible materials that could come into contact with exhaust gases.
- Other nearby openings (within 9") through which exhaust gases could re-enter the building.

Vinyl siding requires protection from vented heat directly above the vent termination. Use Dura-Vent Vinyl Siding Standoff #950.



ASSEMBLY

The G2500DV is shipped from the factory with the log set packed in its own box inside the heater. Before using the unit, carefully remove the box. This will require removal of the front door.

REMOVING THE FRONT DOOR

Please note that the front door is somewhat heavy. Be prepared to handle the weight to avoid damage or injury.

WARNING: Do not abuse the G2500DV's glass by striking, slamming or similar trauma. Do not operate the unit with the glass panels removed, cracked or broken. Use only glass supplied by Breckwell and approved for use with this heater. Do not use substitute materials. Replacement of the panel should be done by a licensed or qualified service person.

Open the left and right side sheets. They are hinged with magnetic latches. The front door is held in place with four spring-loaded latches. The latches may be released by applying pressure on the spring while pushing upward on the latch. See illustration.

When all four latches are released, the door can be pulled straight forward to remove. This operation is best accomplished with two people, one on each side. Although the door will hang in place with the latches disconnected, it is a good idea to keep a hand on the door to prevent it from dislodging until you are ready to remove it. Whenever the door is removed, it should be set aside in a safe location.



To release the latch, apply pressure on the spring while pushing up on the latch.

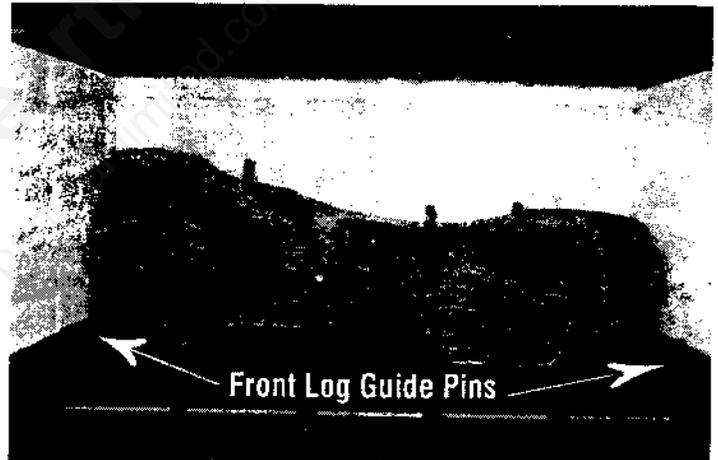
LOG SET INSTALLATION

Make sure that the brick panels are properly placed in the rear and firebox sides. Carefully unpackage the log set. The following pieces are included:

1. Rear Log
2. Front Left Log
3. Front Right Log
4. Left Top Log
5. Right Top Log
6. Bag of Ember Chunks

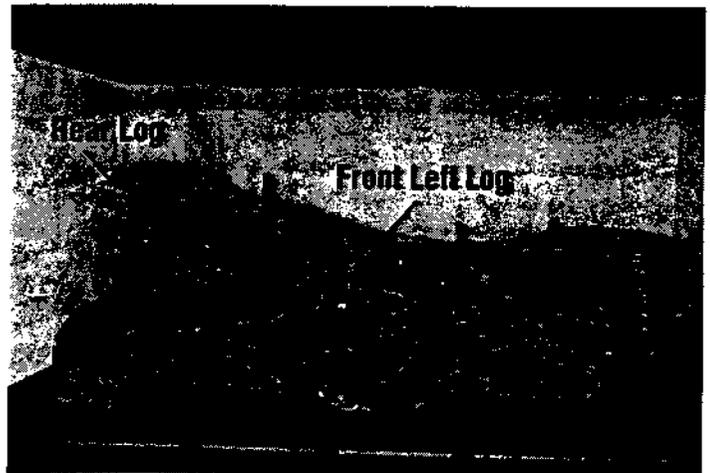


- Install the rear log by pushing to the rear of the firebox and centering.



Rear Log Installation

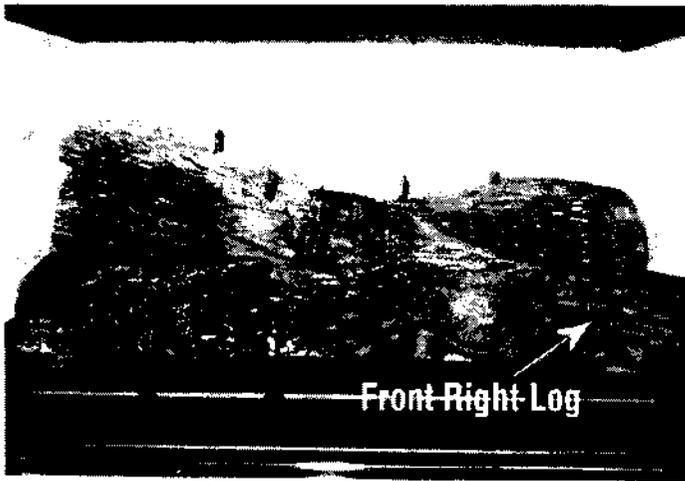
- Install the left front log over the guide pin on the log support plate as shown. Once this log is in place, gently push the right side back until it comes in contact with the rear log.



Front Left Log Installation

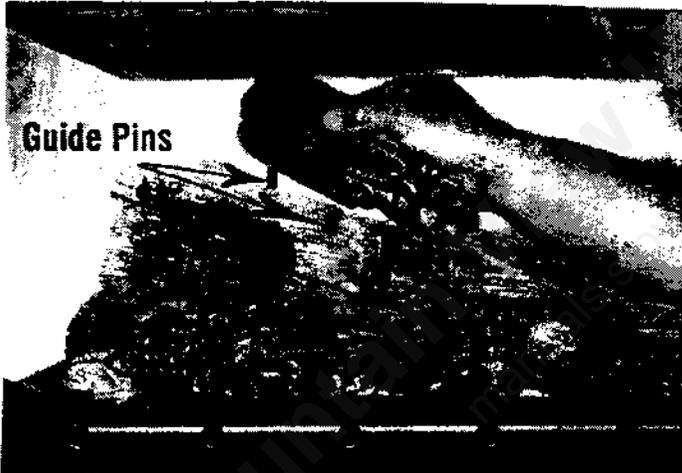
ASSEMBLY

- Install the right front log over the guide pin on the log support plate as shown. Once this log is in place, gently push the left side back until it comes in contact with the rear log.



Front Right Log Installation

- Install the left top log onto the guide pins on the rear log as shown.



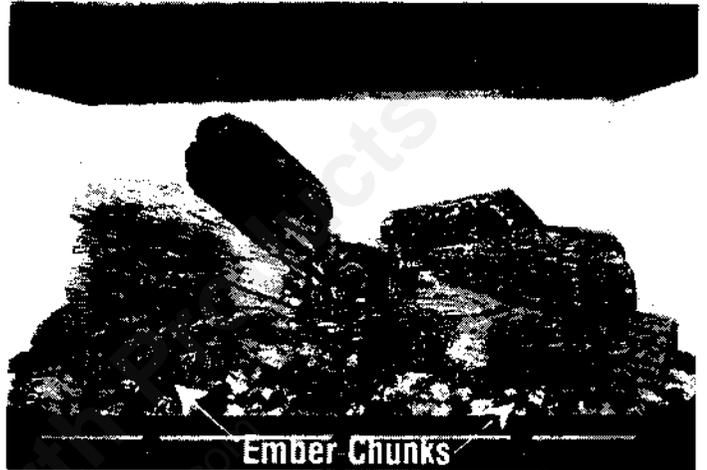
Left Top Log Installation

- install the right top log onto the guide pins on the rear log as shown.



Right Top Log Installation

- Spread out the ember chunks into the area forward of the front logs, on top of the burner plate. Also spread some of the ember chunks on the log support plate around the left, right and front exposed portions as shown. A few ember chunks may be placed in the cavity on the right side of the left front log.



Ember Chunk Installation

REINSTALL THE FRONT DOOR

Lift the door carefully and support it on the heater front using the three locating tabs on the top of the door as shown. Push the door in firmly, reattaching the latches to the latch springs. After all for latches are secured; again push on the door to be sure it seats properly. Close the outer side sheets.



Lift the door carefully and use the three locating tabs on the top of the door to support it.

CONNECTING THE HEATER TO A GAS SUPPLY

BURN ONLY THE FUEL FOR WHICH THE HEATER IS EQUIPPED

The Breckwell G2500DV is available in either a natural gas or propane version. The label on the inside of the hinged right side panel of the heater indicates the fuel for which it is equipped. See Appendix A for instructions on converting the heater from one fuel to the other.

MAKING THE CONNECTION

The gas inlet is located at the bottom right of the stove. The inlet fitting is a 1/2" male flare fitting.



The inlet fitting is a 1/2" male flare fitting.

A separate gas shut-off valve and a 1/8" N.P.T. plugged tapping should be installed immediately upstream of the connection to the appliance.

The G2500DV must be disconnected from the gas supply piping during any pressure testing of that system at pressures in excess of 1/2 psig (3.6 kPa).

The G2500DV gas control valve must be in the OFF position during any pressure testing of the gas supply system at pressures equal to or less than 1/2 psig (3.5kPa).

WARNING: To avoid pipe compounds from entering into the gas train, apply compounds only to male pipe threads and do not apply compound to the first two threads.

CAUTION: TEST ALL JOINTS FOR LEAKS BEFORE OPERATING.

GAS PRESSURE REQUIREMENTS

Correct gas pressure and the use of a properly sized gas supply line are essential for the safe and efficient performance of this appliance. Make sure that the plumber or gas supplier checks the gas supply line and gas pressure at installation. The pressure should be checked with all appliances that are connected to the gas supply system in full operation. This includes hot water heater, furnace, boilers, kitchen stoves, etc.

NOTE: Improper gas pressure can affect heater performance, flame color, or cause pilot outage.

Natural Gas:

Maximum inlet pressure 7.0" w.c. (1.74 kPa)

Minimum inlet pressure 5.0" w.c. (1.25 kPa)

Gas manifold pressure 3.5" w.c. (0.87 kPa)

LPG Gas:

Maximum inlet pressure 13" w.c. (3.24 kPa)

Minimum inlet pressure 11" w.c. (2.74 kPa)

Gas manifold pressure 10" w.c. (2.49 kPa)

DO NOT USE THIS HEATER IF ANY PART HAS BEEN UNDER WATER OR EXPOSED TO MOISTURE CORROSION. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE HEATER AND REPLACE ANY PART OF THE CONTROL SYSTEM AND ANY GAS CONTROL WHICH HAS BEEN UNDER WATER.

| Pipe Length (Feet) | RECOMMENDED GAS PIPE DIAMETER | | | |
|--------------------|----------------------------------|----------------|---------------------------------|----------------|
| | Schedule 40 Pipe Inside Diameter | | Tubing, Type L Outside Diameter | |
| | N.G. | L.P. | N.G. | L.P. |
| 0-10 | 1/2" 1.3 cm | 3/8" 1.0 cm | 1/2" 1.3 cm | 3/8" 1.0 cm |
| 10-40 | 1/2" 1.3 cm | 1/2" 1.3 cm | 5/8" 1.6 cm | 1/2" 1.3 cm |
| 40-100 | 1/2" 1.3 cm | 1/2" 1.3 cm | 3/4" 1.6 cm | 1/2" 1.3 cm |
| 100-150 | 3/4" 2.0 cm | 1/2" 1.3 cm | 7/8" 2.3 cm | 2/4" 2.0 cm |

NOTE: NEVER USE PLASTIC PIPE. CHECK TO CONFIRM WHETHER YOUR LOCAL CODES ALLOW COPPER TUBING OR GALVANIZED PIPE.

CONNECTING THE WIRING

The Breckwell G2500DV must be installed in accordance with local codes or, in the absence of local codes, with the most recent edition of the National Electrical Code ANSI/NFPA 70, or the current Canadian Electrical Code C22.1.

NOTE: The convection fan requires a 120 VAC supply for operation, but the heater can be operated without the fan as in the case of a power outage.

Plug the 3-prong grounded electrical cord plug into the wall.

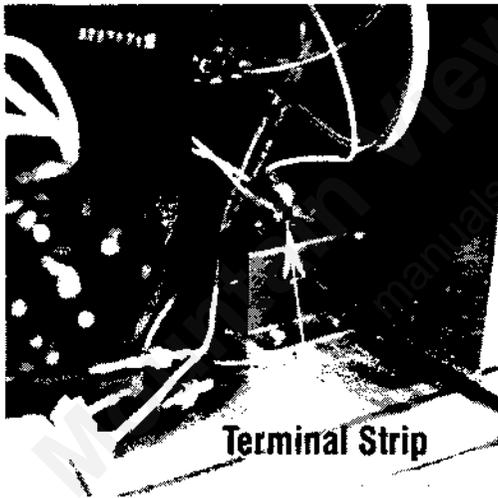
WARNING:

ELECTRICAL GROUNDING INSTRUCTIONS:

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

CONNECTING THE OPTIONAL THERMOSTAT

If an accessory thermostat is used, it must be plugged into the terminal strip located behind the lower access panel on the rear of the heater.



The terminal strip is located behind the lower access panel on the rear of the heater.

When installing a millivolt control system, use only a special low resistance thermostat. Do not use a regular heating thermostat.

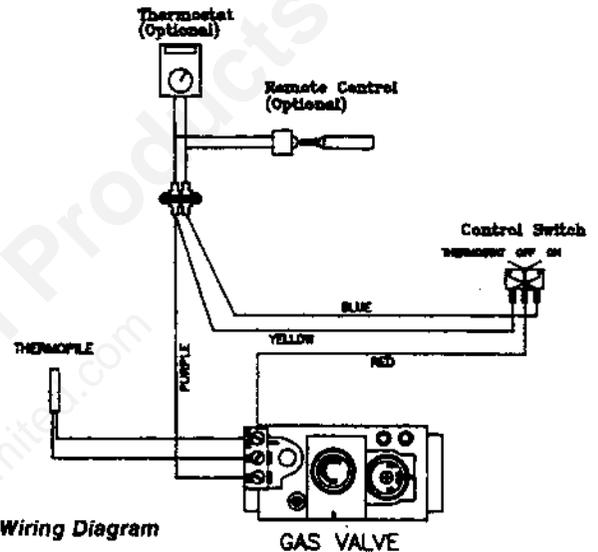
Be sure that all electrical connections are clean, free from corrosion and tight. Inspect connections periodically to confirm that no corrosion has built up over time.

When properly installed and maintained, a millivolt control system should give many years of trouble-free service.

It is important to use wire of a gauge proper for the length of the wire:

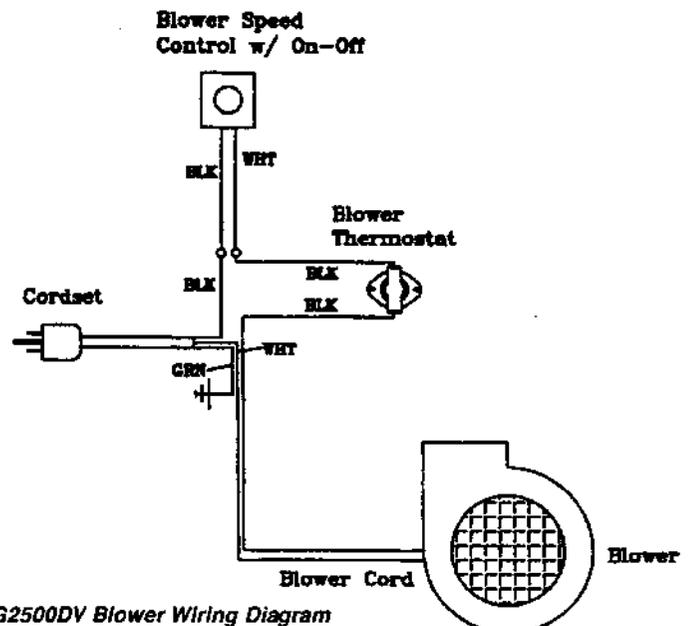
RECOMMENDED WIRE GAUGES

| Maximum Length | Wire Gauge |
|----------------|------------|
| 100' | 14 |
| 60' | 16 |
| 40' | 18 |
| 25' | 20 |
| 15' | 22 |



G2500DV Wiring Diagram

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

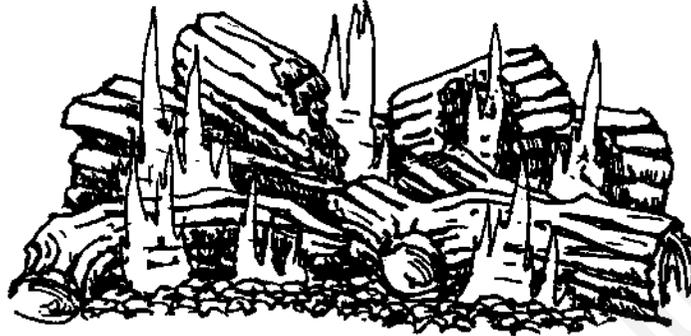


G2500DV Blower Wiring Diagram

AIR SHUTTER ADJUSTMENT

The final step of the installation is to check the flame pattern, which should resemble the pattern illustrated to the right. The flames should be relatively well-defined and stable. They should be yellow with a blue base where attached to the burner ports, and should not look orange or sooty.

Start the heater according to the directions on this page and allow the heater to burn for approximately 15 minutes. The flames will increase in length and become more yellow in color as the G2500DV heats up.



The G2500DV flame pattern will resemble this when the unit is burning properly

If the flames do not resemble the description and the illustration below, the air shutter may be adjusted.

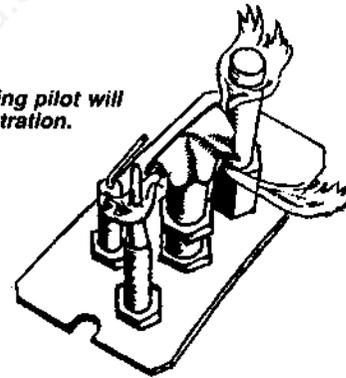
The air shutter is accessed by a screw through the bottom cowl grillwork on the left side of the stove. Turn the screw as needed to increase or decrease the brightness and length of the flame: turning clockwise will decrease the flame; turning counterclockwise will increase the flame. Repeat the procedure as needed until the desired flame effect is achieved.

MONITORING THE FLAME

Periodically, the flames of the Breckwell G2500DV should be checked while it is in operation. The flames should be relatively well-defined and stable as illustrated above. They should be bright yellow with a blue base where attached to the burner ports. The flames should not look orange or sooty. Portions of the logs will glow red when the flames are properly adjusted.

If you find the flames to be other than described here, do not operate the heater. Consult a qualified service person or your Breckwell dealer for advice.

The properly-burning pilot will resemble this illustration.



HOW TO LIGHT THE FIRE

1. STOP! Read the safety information on the left side of the G2500DV Lighting Instruction Plate on page 13.
2. If using an accessory thermostat, set thermostat to the lowest setting.
3. Turn off electric power to the appliance.
4. Turn the ON-OFF/THERMOSTAT switch to the OFF position.
5. Push in the gas control knob slightly and turn it clockwise to "OFF". NOTE: The knob cannot be turned from "PILOT" to "OFF" unless it is pushed in slightly. Do not force it.
6. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information on the left side of the lighting instruction label on page 13. If you don't smell gas, go to the next step.
7. Set the High-Low Regulator to High by turning it fully counterclockwise.
8. Press in the gas control knob slightly and turn counterclockwise to "PILOT".
9. Find the pilot by looking through the opening between the front and rear log in the center of the log set.



High-Low Regulator Gas Control On-Off Switch

10. Push the control knob fully down and hold. Immediately push the red piezo igniter button to light the pilot. It is normal to have to push the red button several times before the pilot ignites. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release the knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 9.

HOW TO LIGHT THE FIRE

- If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
11. Turn the gas control knob counterclockwise to "ON".
 12. Place the ON-OFF/THERMOSTAT switch in the ON position or in the THERMOSTAT position if an accessory thermostat is used.
 13. Turn on the electric power to the heater.
 14. Set the accessory thermostat to the desired room temperature.
 15. Set the High-Low Regulator to desired setting; turn fully counterclockwise for High and fully clockwise for Low.

NOTE: An odor resulting from the initial heating of new materials in your heater is not unusual during the first fire, and in most cases will disappear after an hour or two.

HOW TO TURN OFF THE FIRE

1. If using accessory thermostat, set thermostat to the lowest position.
2. Turn off the electric power to the appliance.
3. Turn the ON-OFF/THERMOSTAT switch to the OFF position.
4. Push in the gas control knob slightly and turn it clockwise to "OFF".

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

G2500DV LIGHTING INSTRUCTION PLATE

FOR YOUR SAFETY READ BEFORE OPERATING

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. When lighting the pilot, follow these instructions exactly.

B. **BEFORE OPERATING** smell all around the appliance area for gas. Be sure to smell near 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 gas appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, DON'T try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information on the panel above.
2. If using optional thermostat, set thermostat to lowest setting.
3. Turn off electric power to the appliance.
4. Turn ON-OFF/THERMOSTAT switch to "OFF" position.
5. Push in gas control knob slightly and turn clockwise to "OFF".

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

6. Wait five (5) minutes to clear out any gas. If you then smell gas, **STOP!** Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.

7. Set High-Low Regulator to High by turning fully counterclockwise.
8. Press in the gas control knob slightly and turn it counterclockwise to "PILOT".
9. Find the pilot by looking through the round opening in the left end of the center log.
10. Push the control knob fully down and hold. Immediately push the red pilot igniter button to light the pilot. It is normal to have to push the red button several times before the pilot ignites. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 9.

• If knob does not pop up when released, stop and immediately call your service technician or gas supplier.

• If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
- 11. Turn gas control knob counterclockwise to "ON".
- 12. Place the ON-OFF/THERMOSTAT switch in "ON" position or in the "THERMOSTAT" position if the optional thermostat is used.
- 13. Turn on electric power to appliance.
- 14. Set the optional thermostat to desired room temperature.
- 15. Set the High-Low Regulator to desired setting; turn fully counterclockwise for High and fully clockwise for Low.

HIGH-LOW REGULATOR GAS CONTROL PILOT IGNITER

TO TURN OFF GAS TO APPLIANCE

1. If using optional thermostat, set thermostat to the lowest position.
2. Turn off electric power to the appliance.
3. Turn ON-OFF/THERMOSTAT switch to OFF position.
4. Push in gas control knob slightly and turn clockwise to "OFF".

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

CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, CLOTHING, FURNITURE, GASOLINE, OR LIQUIDS WITH FLAMMABLE VAPORS AWAY.

ATTENTION: CHAUD PENDANT LE FONCTIONNEMENT, NE TOUCHEZ PAS. TENIR ÉLOIGNÉS LES ENFANTS, LE VÊTEMENTS ET LES MEUBLES.

Refer to label on rear of appliance for venting information. Keep burner and control compartment clean. Refer to owner's manual accompanying this appliance. Make sure progress to the rear of the compartment de commande. Voir les instructions relatives à l'installation et au fonctionnement qui accompagnent le radiateur.

Manufactured by National Steelcrafters of Oregon
P.O. Box 24810, Eugene, OR 97402-0444.
DO NOT REMOVE OR COVER THIS LABEL

TO TURN OFF GAS TO APPLIANCE

1. If using optional thermostat, set thermostat to the lowest position.
2. Turn off electric power to the appliance.
3. Turn ON-OFF/THERMOSTAT switch to OFF position.
4. Push in gas control knob slightly and turn clockwise to "OFF".

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

CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, CLOTHING, FURNITURE, GASOLINE, OR LIQUIDS WITH FLAMMABLE VAPORS AWAY.

ATTENTION: CHAUD PENDANT LE FONCTIONNEMENT, NE TOUCHEZ PAS. TENIR ÉLOIGNÉS LES ENFANTS, LE VÊTEMENTS ET LES MEUBLES.

Refer to label on rear of appliance for venting information. Keep burner and control compartment clean. Refer to owner's manual accompanying this appliance. Make sure progress to the rear of the compartment de commande. Voir les instructions relatives à l'installation et au fonctionnement qui accompagnent le radiateur.

Manufactured by National Steelcrafters of Oregon
P.O. Box 24810, Eugene, OR 97402-0444.
DO NOT REMOVE OR COVER THIS LABEL

MAINTENANCE

A qualified service person recommended by your Breckwell dealer should conduct an annual inspection and maintenance of your G2500DV, its venting, and the installation to keep it running safely and efficiently. The following procedures should be performed only by a qualified service person. The gas supply should be turned off whenever a maintenance procedure is performed.

If the front access door, front door, rear sheet, or top are removed for servicing, they must be replaced prior to operating the unit.

REMOVING THE FRONT DOOR

See directions on page 8.

REMOVAL AND REPLACEMENT OF DAMAGED GLASS

In the event of the glass being broken, while wearing leather gloves (or any other gloves suitable for handling broken glass), carefully remove any loose pieces of glass from the door frame. Dispose of all broken glass properly. Return the damaged door to your Breckwell Dealer for repair or replacement.

Neither the appliance owner nor any other unauthorized person(s) shall conduct the repairs to the door glass. All repairs involving the door glass must be done by an authorized Breckwell Dealer.

REPLACING THE GASKET

The G2500DV has 5/8" diameter fiberglass gasket in the front door. Should it ever need replacement, use only the proper replacement gasket that is available from your Breckwell dealer. To replace the gasket, follow this procedure.

1. Remove the door.
2. Remove the existing gasket and clean its channel with a scraper or wire brush.
3. Lay a thin bead of high temperature silicone the entire length of the channel.
4. Lay the gasket in the channel with sufficient pressure so that it stays in place.
5. Trim the excess from the end of the gasket so that it butts snugly against the other end without leaving a gap. Seal the end joint with high temperature silicone.
6. Reinstall the door and apply firm pressure to seat the gasket evenly throughout.

CLEANING THE GLASS

The glass may be cleaned with ordinary household glass cleaner and a soft cloth or paper towel.

WARNING: Never clean the glass when it is hot. Do not use abrasive cleaners on the glass.

INSPECTING THE VENTING

An inspection of both the inner and outer pipes of the venting system should be made during the annual service appointment. They must have no blockage and be in good repair. The vent manufacturer's instructions may provide specific suggestions or details on vent inspection. Any sections that are taken apart for the inspection must be reassembled and sealed as required.

CLEANING THE LOG SET AND FIREBOX

During the annual inspection and maintenance appointment, the service person should clean dust, lint, and any light accumulation from the logs and the firebox area. An extra-soft brush should be used on the logs as they are extremely fragile; a vacuum cleaner may be used on the firebox. If at any time the logs cannot be removed or installed without forcing, the cause must be found. The logs must never be forced.

REMOVAL AND REINSTALLATION OF THE LOG SET FOR CLEANING

CAUTION: The ceramic fiber logs and brick panels are durable when handled and installed properly. However, they are delicate and may be damaged easily if not handled with care. Handling damage to the ceramic fiber logs and brick panels is not covered by warranty.

DO NOT HANDLE LOGS WHILE THEY ARE HOT. ALLOW PLENTY OF TIME FOR THE STOVE TO COOL COMPLETELY BEFORE HANDLING.

REMOVE THE EMBER CHUNKS

Carefully remove the ember chunks and place them in a safe location.

REMOVE THE LOG SET

Brush the logs gently and carefully place them in a safe location.

REMOVE THE BRICK PANELS

Carefully remove the side and rear panels. Clean and place in a safe location.

Finish the procedure by vacuuming the interior of the firebox, then reinstall the logs and secure the glass front following the procedures on pages 8 and 9.

CONVECTION FAN

Periodic oiling of the convection blower may be necessary once per burning season. To access blower, remove rear pedestal cover plate. Oil the blower through 2 "U" shaped ports on top of the motor housing. Use 20W motor oil or turbine oil (1 or 2 drops maximum per port).

REPLACEMENT PARTS

Contact an authorized Breckwell Dealer to obtain any of these parts:

ITEM

| | | |
|-------------------------|---------------------------------|-------------------------|
| Door assembly | Burner orifice | Blower rheostat |
| Door gasket (8 feet) | Pilot orifices (NG and LP) | Convection blower |
| Window gasket (11 feet) | Pilot assembly | Blower gasket |
| Relief plate gaskets | Quick dropout thermo- couple | Piezo igniter with wire |
| Brick panel set | Thermopile | On/Off/T-Stat switch |
| Log set | Pilot gasket | Terminal block |
| Burner | Blower thermodisk | Control valve |

APPENDIX A

CONVERTING THE BRECKWELL G2500DV FROM ONE GAS TO ANOTHER IN THE FIELD

- Hi/Lo Pressure Regulator
- Main Burner Orifice
- Pilot Burner Orifice

The G2500DV is designed to burn either natural gas or propane (LP) gas. Each heater leaves the factory equipped for one specific fuel but it is a simple operation to convert the heater to the alternate fuel in the field.

The original fuel type is marked on the rating label on the inside of the right side sheet.

NATURAL GAS PROPANE

To convert to the alternate fuel, follow these steps:

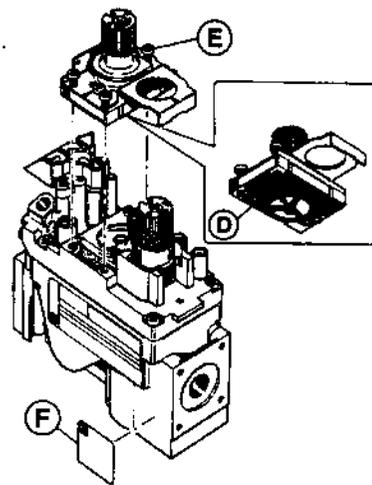
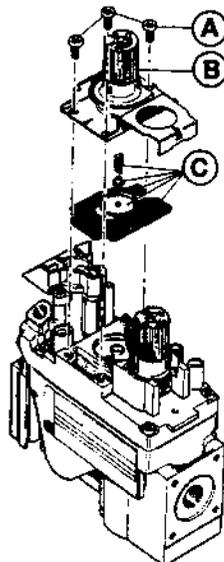
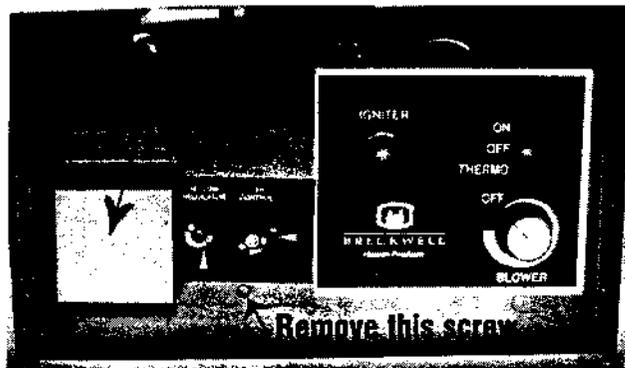
Before performing this or any other service procedures, make sure that the gas supply to the appliance is shut off and that the cordset is unplugged.

1. Remove the front door (See instructions on page 8).
2. Remove the log set and brick panels (See instructions on page 8).
3. Remove the control valve access panel
 - Open the front control access door.
 - Remove the screw that secures the control valve access panel.
 - Lift up on the control valve panel while pulling forward to remove.

4. Replace the Hi/Lo Regulator.

- Turn control knob to the OFF position, and shut off the gas supply to the valve, if not already done.
- Using a Torx T20, or slotted screwdriver, remove and discard the three pressure regulator mounting screws (A), pressure regulator tower (B) and diaphragm (C).
- Insure that the rubber gasket (D) is properly positioned and install the new HI/LO pressure regulator assembly to the valve using the new screws (E) supplied with the kit. Tighten screws securely. (Reference torque = 25 InLb.)
- Install the enclosed identification label (F) to the valve body where it can be easily seen.

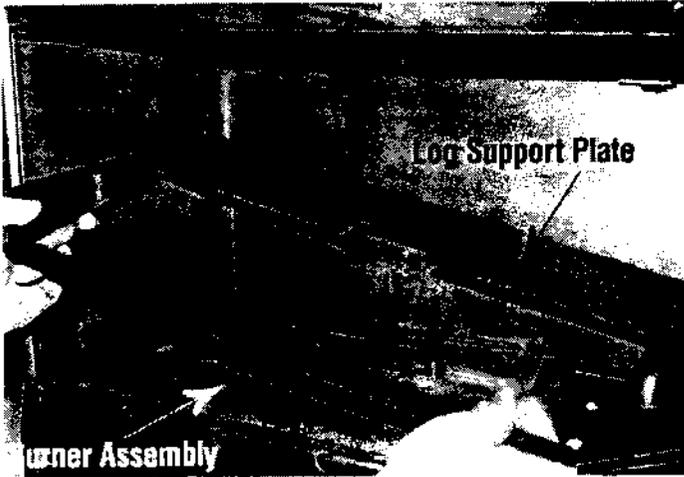
WARNING! This HI/LO conversion kit must ONLY be applied as part of a conversion kit supplied by the APPLIANCE MANUFACTURER for the specific appliance, and type of gas, being converted.



APPENDIX A

5. Remove the log support plate

- Remove the log support plate by lifting up, tilting slightly and pulling toward the front. Set the log support plate aside.

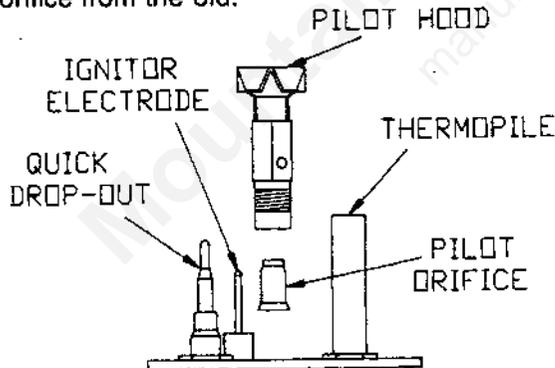


6. Remove the burner assembly

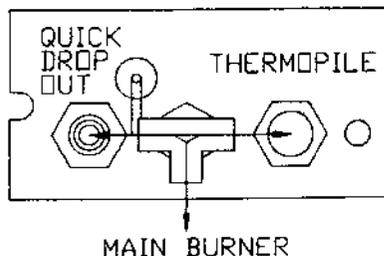
- Using a 5/16" wrench or slotted screwdriver, remove the four screws securing the burner assembly. Slide the burner assembly to the right and lift out. Set screws and burner assembly aside.

7. Replace the pilot burner orifice.

- The pilot assembly is located in the middle and toward the rear of the firebox. Using a 7/16" wrench remove the pilot hood, being careful not to bend or break the ignitor electrode. The pilot orifice should be setting partially down inside the pilot assembly base, remove and set away from the replacement orifice as it will be difficult to differentiate the new orifice from the old.

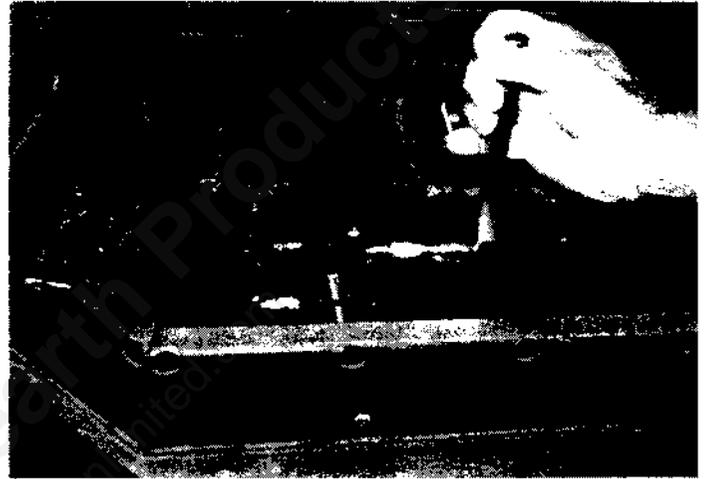


- Place the new pilot orifice in the pilot base. Replace the removable pilot hood. Firmly tighten making sure that the pilot hood is lined up with the thermocouple and quick drop-out.



8. Replace the main burner orifice.

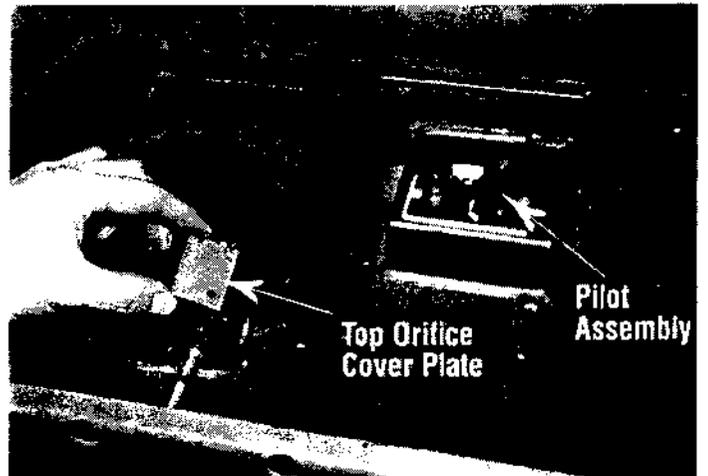
- Remove the old orifice using a 1/2" deep socket and ratchet. Once removed, set apart from the new orifice.
- Install the new orifice by first applying a very small amount of pipe sealant to the threads on the orifice. Do not put any sealant on the first thread. This will help avoid getting excess sealant into the burner system. Using the 1/2" deep socket, tighten the new orifice.



Main burner orifice removal

9. Reinstall the main burner, log support plate, log set, etc.

- Install the main burner by placing on the cradles and sliding to the left to engage the venturi tube into the air adjuster box. Tighten down using the four screws from step 6.
- Install the log support plate.
- Reinstall the brick panels and log set following the instructions on page 9.
- NOTE:** When converting from natural gas to LPG, the top orifice cover plate must be removed, and when converting from LPG to natural gas, the top orifice cover must be installed (see picture).



APPENDIX A

10. Leak testing

- With the main burner "ON", test the new pressure regulator assembly for leaks using a soap solution.
- All fittings must be leak tested before use. Never exceed 1/2 psig during any leak testing while the unit is connected to the fuel supply.

11. Completing the conversion

- Reinstall the control valve access panel.
- Reinstall the front door and close the outer side sheet in accordance with the instructions on page 9.
- Fill out and install the fuel conversion label provided with the conversion kit.
- Follow all instructions on page 10 of this manual for connecting to the gas supply, electrical wiring, air adjustment and flame monitoring.
- Relight the main burner in both the HI and LO positions, and verify proper burner ignition and operation.

**FUEL CONVERSION KIT #ADV-NGCK
FOR BECKWELL G29DV
DIRECT VENT**

Attach this label to the rear shield.

This appliance has been converted to **NATURAL GAS** fuel.

Cet appareil a été converti au **GAZ NATUREL**.

Injector/Injecteur. **DMS 31**

Input/débit calorifique (Btu/hr): **40,000**

Manifold Pressure/Pression
à la tubulure d'alimentation (In w.c./kPa): **3.8/0.87**

Inlet Pressure/Pression
D'Arrivée (In w.c./kPa): Min. **5/1.24** Max. **7.0/1.74**

Date appliance was converted: _____

By _____

This label on the burner system module indicates that the unit is equipped to burn natural gas.

**FUEL CONVERSION KIT #ADV-NGCK
FOR BECKWELL G29DV
DIRECT VENT**

Attach this label to the rear shield.

This appliance has been converted to **PROPANE** fuel.

Cet appareil a été converti au **PROPANE**.

Injector/Injecteur. **DMS 48**

Input/débit calorifique (Btu/hr): **46,000**

Manifold Pressure/Pression
à la tubulure d'alimentation (In w.c./kPa): **10.0/2.49**

Inlet Pressure/Pression
D'Arrivée (In w.c./kPa): Min. **11.0/3.24** Max. **13.0/3.34**

Date appliance was converted: _____

By _____

This label on the burner system module indicates that the unit is equipped to burn propane (LP).

**CAUTION: LABEL ALL WIRES PRIOR TO
DISCONNECTION WHEN SERVICING
CONTROLS. WIRING ERRORS CAN CAUSE
IMPROPER AND DANGEROUS OPERATION.
VERIFY PROPER OPERATION AFTER
SERVICING.**

SEE WIRING DIAGRAM PAGE PAGE 11

APPENDIX B

DE-RATING FOR HIGH ALTITUDE

For U.S. installations, the Breckwell G2500DV is approved for elevations up to 2000 feet using the factory-installed burner orifice. At elevations above 2000 feet, U.S. codes require a decrease in the input rating by changing the burner orifice to a smaller size. Input should be reduced 4 percent for each 1000 feet above sea level. Check with the local gas utility for proper orifice size identification.

For Canadian installations, the G2500DV is approved for elevations up to 1375 meters (4500 feet). When installing the G2500DV at altitudes above 1375 meters (4500 feet), consult the local gas distributor or the authority having jurisdiction for proper rating methods.

NOTE: The difference in altitude aerating requirements for the U.S. and Canada is simply a result of differences in testing standards between the two countries.

If the installer must convert the unit to adjust for varying altitudes, an information sticker like the one to the right must be filled out and affixed to the appliance at the time of conversion.

THE CONVERSION SHALL BE CARRIED OUT BY A MANUFACTURER'S AUTHORIZED REPRESENTATIVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER, PROVINCIAL OR TERRITORIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAN/CGA-B141.1 OR CAN/CGA-B141.2 INSTALLATION CODES.

This appliance has been converted for use at an altitude of _____

Orifice sizes: Front _____ Center _____ Rear _____

Input (Btu/h) _____

Manifold Pressure _____

Fuel Type _____

Converted by _____

Date of conversion _____

APPENDIX C

INSTRUCTIONS FOR MANUFACTURED (MOBILE) HOME INSTALLATION

This appliance may be installed in manufactured (mobile) homes after home is sited.

The Breckwell G2500DV Gas Heater is a listed gas-fired direct vent room heater tested by Intertek Testing/Warnock Hersey to ANSI Z21-44-1995 *GAS-FIRED GRAVITY AND FAN TYPE DIRECT VENT WALL FURNACES, CAN1-2.19-M81 GAS-FIRED GRAVITY AND FAN TYPE DIRECT VENT FURNACES, ANSI Z21.50-1996/CGA-2.22-M96 VENTED GAS FIREPLACES, CAN/CGA 2.17-M91 GAS FIRED APPLIANCES FOR USE AT HIGH ALTITUDES, UL307B-1995 GAS-BURNING HEATING APPLIANCES FOR MANUFACTURED HOMES.*

For manufactured home installation: This direct vent system appliance must be installed in accordance with the manufacturer's instructions and the Manufactured Home Construction and Safety Standard Title 24 CFR, Part 3280, or the current Standard of Fire Safety Criteria for Manufactured Homes Installations, Sites, and Communities ANSI/NFPA 501A, and with CAN/GSA Z240 – Mobile Home Standard in Canada.

Read the owners manual carefully. In addition to the instructions in the owners manual, the instructions listed below must be followed for installation in a manufactured (mobile) home.

WARNING: During installation of this appliance, do not compromise the structural integrity of the manufactured home wall(s), floor or ceiling.

WIRING:

The Breckwell G2500DV must be installed in accordance with local codes or in the absence of local codes, with the current ANSI/NFPA 70 National Electrical Code in the USA or CAN/CSA C22.1 Canadian National Electrical Code in Canada.

The Breckwell G2500DV must be grounded to the steel chassis of the home with 8 ga. copper wire using a serrated or star washer to penetrate paint or protective coating to insure grounding.

VENTING COMPONENTS:

The Breckwell G2500DV has been tested and is listed for installation with Simpson Dura-Vent GS venting components. The Simpson Dura-Vent GS warranty will be voided, and serious fire, health or other safety hazards may result from any of the following actions:

Installations of any damaged Simpson Dura-Vent GS component.

Unauthorized modification of the Simpson Dura-Vent GS System.

Installation of any component part not manufactured or approved by Simpson Dura-Vent.

Installation other than as instructed by Simpson Dura-Vent and the appliance manufacturer.

Consult your local building codes before beginning the installation, and follow the manufacturer's instructions exactly. The following Simpson Dura-Vent GS 4" x 6 5/8" vengin components are approved for use with the Breckwell G2500DV.

SIMPSON DURA-VENT COMPONENTS

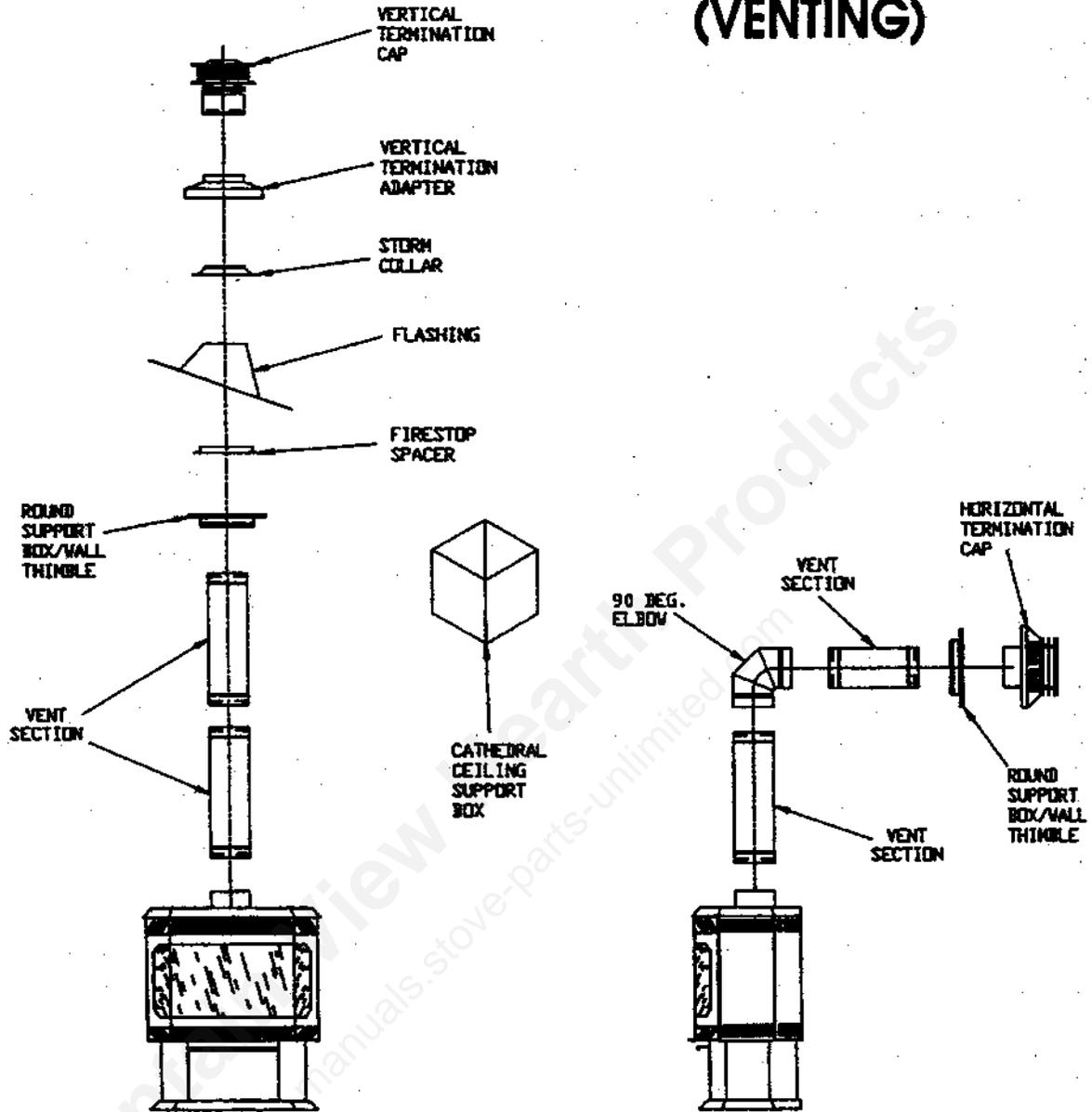
| | |
|---|---------------------------------------|
| Basic Horizontal Termination Kit | 970 |
| Horizontal Termination Kit A | 971 |
| Vertical Termination Kit | 978 |
| Horizontal Square Termination Cap | 984 |
| High Wind Horizontal Square Termination Cap | 985 |
| High Wind Vertical Termination Cap | 991 |
| Low Profile Termination Cap | 980 |
| Extended Vertical Termination Cap | 930 |
| Vinyl Siding Standoff | 950 |
| Wall Thimble Cover* | 942 |
| Round Ceiling Support/Wall Thimble Cover | 940 |
| Cathedral Ceiling Support Box | 941 |
| Storm Collar | 953 |
| Ceiling Firestop | 963 |
| Wall Firestop | 947 |
| Roof Flashing 0/12 - 6/12 Pitch | 943 |
| Steep Roof Flashing 7/12 - 12/12 Pitch | 943S |
| Wall Strap | 988 |
| Restrictor Disk | 929 |
| Designer Series Trim Kits | 3951, 3952, 3953, 3960, 3961, 3962 |

* May be required in Canada

DIRECT VENT PIPE LENGTHS AND DURA-VENT COMPONENT NUMBERS

| | Galvanized | Black |
|-----------------------------|------------|-------|
| 6" Straight | 908 | 908B |
| 9" Straight | 907 | 907B |
| 12" Straight | 906 | 906B |
| 24" Straight | 904 | 904B |
| 36" Straight | 903 | 903B |
| 48" Straight | 902 | 902B |
| 11" - 14 5/8" Adj. Straight | 911 | 911B |
| 17" - 24 Adj. Straight | 917 | 917B |
| 45° Elbow | 945 | 945B |
| 45° Swivel Elbow | 945G | 945BG |
| 90° Elbow | 990 | 990B |
| 90° Swivel Elbow | 998G | 990BG |

TYPICAL ASSEMBLY (VENTING)



SECURING THE G2500DV

The G2500DV must be securely fastened to the floor of manufactured home using the mounting bolt holes located in the pedestal of the G2500DV (use 5/16" bolts or lag screws). To access the mounting bolt holes in the pedestal, remove the back panel of the pedestal (see figure 1). Use only the mounting bolt holes provided.

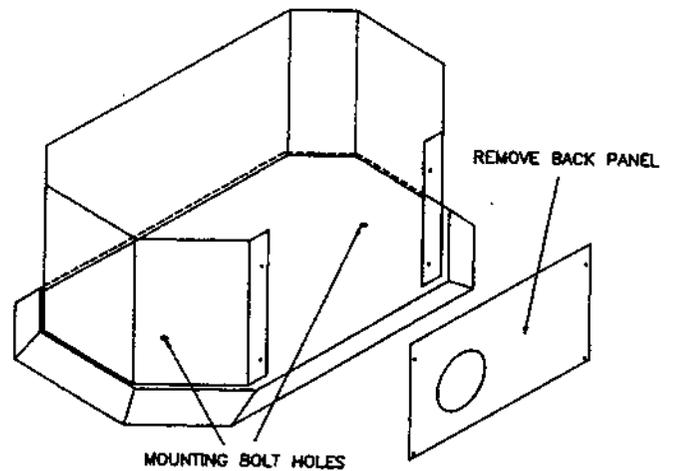


FIGURE 1

BRECKWELL G2500DV GAS HEATER SPECIFICATIONS

The Breckwell G2500DV Gas Heater is a listed gas-fired direct vent room heater tested by Intertek Testing/Warnock Hersey to ANSI Z21-44-1995 *GAS-FIRED GRAVITY AND FAN TYPE DIRECT VENT WALL FURNACES*, CAN1-2.19-M81 *GAS-FIRED GRAVITY AND FAN TYPE DIRECT VENT FURNACES*, ANSI Z21.50-1996/CGA-2.22-M96 *VENTED GAS FIREPLACES*, CAN/CGA 2.17-M91 *GAS FIRED APPLIANCES FOR USE AT HIGH ALTITUDES*, UL307B-1995 *GAS-BURNING HEATING APPLIANCES FOR MANUFACTURED HOMES*.

| | NATURAL GAS | PROPANE (LP) |
|--|-------------|--------------|
| Input Rating (Btu/hr) 0-1375 m | 40,000 | 40,000 |
| Min. Input Rating (Btu/hr) 0-1375 | 28,000 | 30,000 |
| Orifice (DMS) 0-1375 m | 31 | 48 |
| Manifold Pressure (in w.c./kPa) | 3.5/0.87 | 10.0/2.49 |
| Minimum Manifold Pressure (in W.C./kPa) | 1.7/0.42 | 10.0/2.49 |
| Minimum Inlet Pressure (in w.c./kPa) | 5.0/1.24 | 11.0/2.74 |
| Maximum Inlet Pressure (in W.C./kPa) | 8.0/1.99 | 12.0/2.98 |
| Maximum Output (Btu/hr) 0-1375m (Fan Off) | 32,100 | 30,800 |
| Maximum Output (Btu/hr) 0-1375m (Fan On) | 32,000 | 31,600 |
| AFUE (seasonal efficiency; minimum venting) | 72.2% | 69.3% |
| Steady State Efficiency (max. input, blower on High) | 80.3% | 78.8% |

MINIMUM CLEARANCES FROM COMBUSTIBLE CONSTRUCTION

| | |
|--|------------------|
| Unit to left sidewall | 9 in. (230 mm) |
| Unit to right sidewall | 9 in. (230 mm) |
| Unit to backwall (measured from rear of stove to wall) | 3 in. (150 mm) |
| Unit corner to walls | 3 in. (150 mm) |
| Unit to alcove ceiling (minimum) | 17 in. (430 mm) |
| Maximum alcove depth | 21 in. (530 mm) |
| Minimum alcove width | 48 in. (1220 mm) |
| From mantel to stove top | 22 in. (560 mm) |

Electrical Rating: 120 Volts 60 Hz 1.5 Ampere

Stove weight: 325 lbs.