

# JØTUL



IAS Report No. L 2156001

## 3 Classic Direct Vent Direct Vent Wall Furnace Installation and Operation Instructions

**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 light any appliance.
- DO NOT touch any electrical switches.
- DO NOT use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone.
- If your gas supplier cannot be reached, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

**WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE, OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THIS MANUAL FOR ASSISTANCE OR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.**

**WARNING: THE 3 CLASSIC DIRECT VENT STOVE, IS A GAS ROOM HEATER. DO NOT BURN WOOD OR OTHER MATERIAL IN THESE APPLIANCES.**

**WARNING: AT THE BEGINNING OF EACH HEATING SEASON HAVE THE DOOR GASKET INSPECTED FOR PROPER SEALING BY A QUALIFIED SERVICE TECHNICIAN. DUE TO HIGH TEMPERATURES, THE APPLIANCE SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE OR DRAPES. DO NOT PLACE CLOTHING OR OTHER MATERIALS ON OR NEAR THE APPLIANCE.**



Manufactured and Distributed by JØTUL USA  
*Installer-Please leave this manual with user of stove.*

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This installation and operation manual will help you obtain a safe, efficient, dependable installation for your gas fireplace insert. Please read and understand these installation instructions before beginning your installation.

## INTRODUCTION

The JØTUL 3 Classic Direct Vent is a sealed combustion, air circulating gas appliance designed for residential applications. This appliance must be installed with Duravent 6 5/8" x 4" vent systems routed to the outside atmosphere.

The JØTUL 3 Classic Direct Vent is designed to operate on natural or propane gas. A millivolt gas control valve with piezo ignition system provides safe, efficient operation. External electrical power is required to operate the optional blower if installed in these units.

This appliance complies with National Safety Standards and is tested and listed by IAS (Report No. L 2156001) to ANSI Z21.44-1995 (In Canada, CAN/CGA-2.19-M81, IR #41, IR #55 and CAN/CGA-2.17-M91) as a direct vent wall furnace.

Additionally this appliance complies with and is tested and listed to the requirements of ANSI Z21-50b - 1990 (in Canada, CAN/CGA-2.22-M91, IR#43 and CAN/CGA-2.17-M91) as a vented decorative gas appliance.

Installation must conform to local codes. Your dealer has been specifically selected to carry JØTUL stoves for his knowledge of local codes, and can provide assistance in making sure your installation is safe and legal. In the absence of local codes, installation must comply with the current National Fuel Gas Code, ANSI Z223.1, 1991. (In Canada, the current CAN-1 B149 installation code.) Electrical wiring must comply with the National Electrical Code, ANSI/NFPA No. 70-latest edition. (In Canada, the current CSA C22.2 Canadian Electrical Code.) Approved for Mobile Home installation.

**DO NOT ATTEMPT TO ALTER OR MODIFY THE CONSTRUCTION OR THE APPLIANCE OR ITS COMPONENTS. ANY MODIFICATION OR ALTERATION MAY VOID THE WARRANTY, CERTIFICATION AND LISTINGS OF THIS UNIT.**

## TYPICAL INSTALLATION

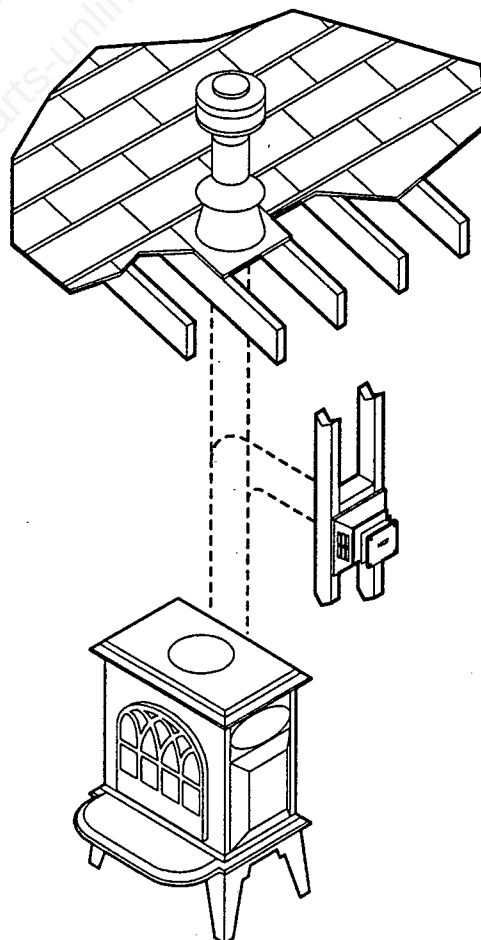


Figure 1

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

## GENERAL INFORMATION

JØTUL is the world's largest manufacturer of solid fuel burning appliances and has been making cast iron wood and coal stoves since 1853. Your new JØTUL gas stove has inherited the benefits learned from more than 140 years of producing stoves. With proper care and operation, your new JØTUL will last many, many years.

This JØTUL 3 Classic has been certified both as a Direct Vent Wall Furnace, and as a Vented Decorative Appliance when used with the Up-Vent Kit. This Installation and Operation Manual describes the installation procedures and operating instructions for both the Direct Vent and Up-Vent. This gas stove is manufactured in compliance with nationally recognized standards, and has been certified by International Approval Service (formerly A.G.A.) for use in Canada and the United States.

**Note:** Installation and repair should be performed by a qualified service person. The appliance should be inspected annually by a qualified professional service person. More frequent inspections and cleanings may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that the controls, burners and circulating air passage ways of the appliance be kept clean.

Provide adequate clearances around air openings and adequate accessibility clearance for service and proper operation. Never obstruct the front openings of the appliance.

This appliance is designed to operate on natural or propane gas only. The use of other fuels or combination of fuels will degrade the performance of this system and may be dangerous.

### Appliance Input

|         | High Setting<br>BTU/Hr | Low Setting<br>BTU/Hr |
|---------|------------------------|-----------------------|
| Natural | 28,000                 | 22,000                |
| Propane | 25,000                 | 19,000                |

Input of the JØTUL 3 Classic Direct Vent appliance is 28,000 BTU/Hr maximum modulated to 22,000 BTU/Hr at the low flame setting for natural gas. Input for propane models 25,000 BTU/Hr maximum modulated to 19,000 BTU/Hr at the low flame setting.

**Note:** The JØTUL 3 Classic Direct Vent can be modified for use as an upvent appliance. When modified the input of both the natural and propane gas appliances is 25,000 BTU/Hr maximum modulated to 19,000 BTU/Hr at the low flame setting.

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

The gage connections are provided on the front of the gas control valve (identified A for the manifold side and E for inlet pressure).

### Inlet Gas Pressures (for the purpose of adjustment)

|         | MINIMUM<br>(inches water<br>column) | MAXIMUM<br>(inches water<br>column) |
|---------|-------------------------------------|-------------------------------------|
| Natural | 4.5                                 | 7.0                                 |
| Propane | 11                                  | 13.0                                |

Minimum inlet gas pressure to the appliance is 4.5 inches water column for natural gas and 11 inches water column for propane for the purpose of input adjustment.

Maximum inlet gas supply pressure to the appliance is 7.0 inches water column for natural gas and 13.0 inches water column for propane.

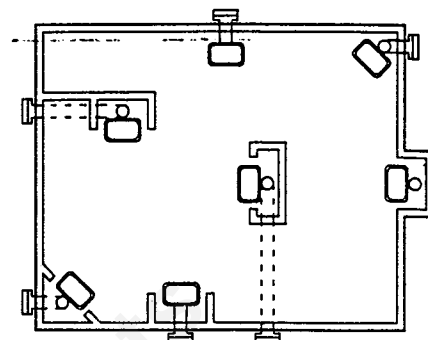
The appliance must be isolated from the gas supply piping system (by closing its individual manual shut-off valve) during any pressure testing of the gas supply piping system at test pressures in excess of ½ psig (3.5 kPa).

The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressure in excess of ½ psig (3.5 kPa).

This appliance must not be connected to a chimney or flue serving a separate solid fuel burning appliance.

In selecting the location, the aesthetic and functional use of the appliance are primary concerns. However, vent system routing to the exterior and access to the fuel supply are also important. Consideration should be given to traffic ways, furniture, draperies, etc., due to elevated surface temperatures. The location should also be free of electrical, plumbing or other heating/air conditioning ducting (Refer to Figure 2).

## LOCATION



Typical Locations

Figure 2

The appliance should be mounted on a fully supported base extending the full width and depth of the unit. The appliance may be located on or near conventional construction materials. However, if installed on combustible materials, such as carpeting, vinyl tile, etc., provide floor protection under the appliance.

## SPECIAL LOCATION CONSIDERATIONS

The JØTUL 3 Classic Direct Vent is approved for bedroom installation and manufactured (mobile) home installation. For mobile housing, refer to Title 24 CFR, Part 3280-Manufactured Home Construction and Safety Standard or CSA Z240.4 Gas Equipped Recreational Vehicles and Mobile Housing.

## CLEARANCES

Minimum clearance to combustibles for the appliance is as follows: sides and back - 6", floor - 0" from bottom of legs, adjacent wall - 6", ceiling - 24" (Refer to Figures 6, 7 and 8).

Minimum clearance to combustibles for the vent system is: horizontal run = top @ 3" (73 mm), sides @ 1" (25 mm), bottom @ 1" (25 mm), vertical run = 1" (25 mm) (Figure 7).

**Note:** If installed with optional short legs unit must be positioned over noncombustible flooring.

**WARNING: THIS HEATER MUST NOT BE INSTALLED DIRECTLY ON CARPET, NON-CERAMIC TILE OR OTHER COMBUSTIBLE MATERIAL, WITH THE EXCEPTION OF WOOD. IF IT IS DESIRED TO INSTALL THIS HEATER ON A CARPETED OR NON-CERAMIC TILED FLOOR, A METAL OR WOOD PANEL MUST BE PLACED UNDER THE HEATER THAT EXTENDS THE FULL WIDTH AND DEPTH OF THE HEATER.**

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

## SPECIFICATIONS

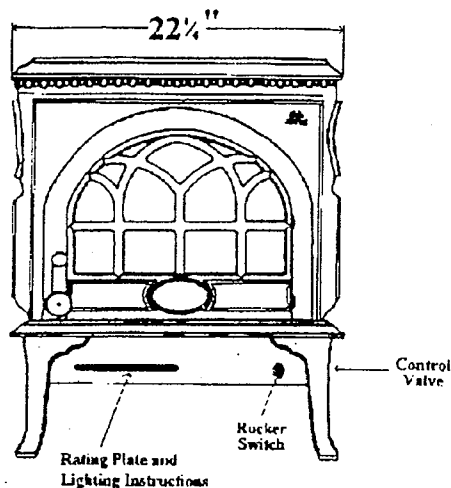


Figure 3

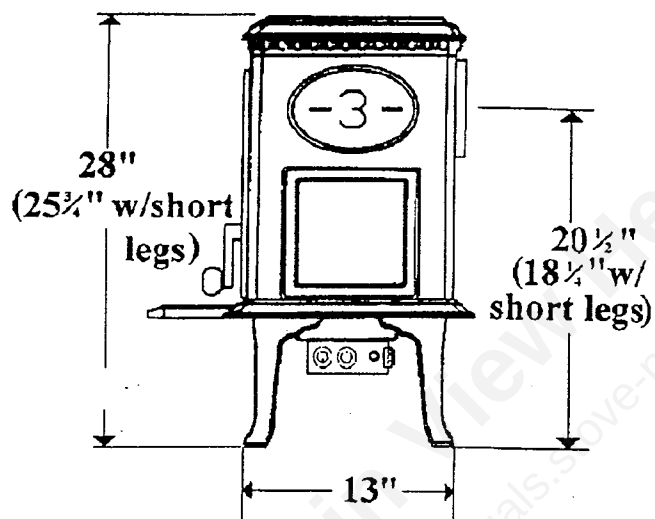


Figure 4

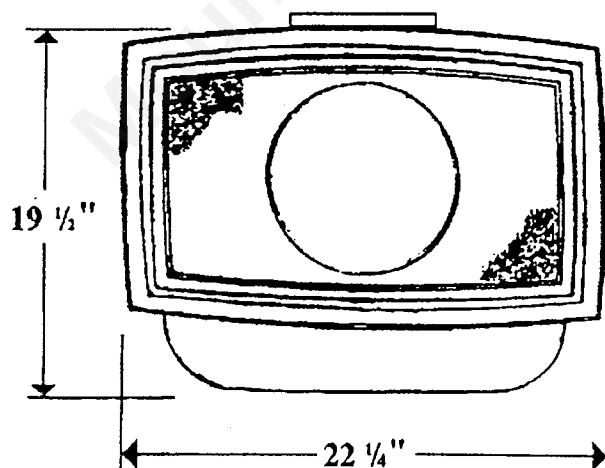


Figure 5

## CLEARANCES

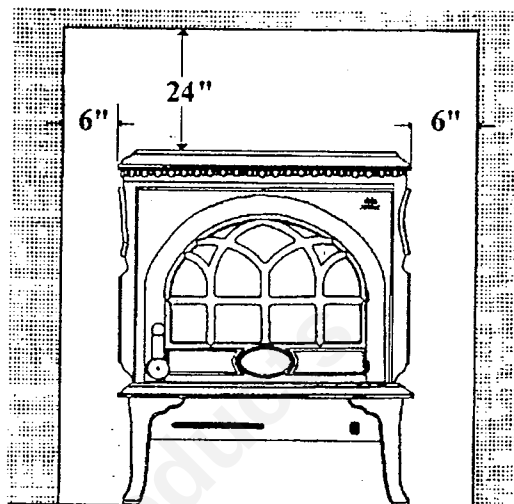


Figure 6

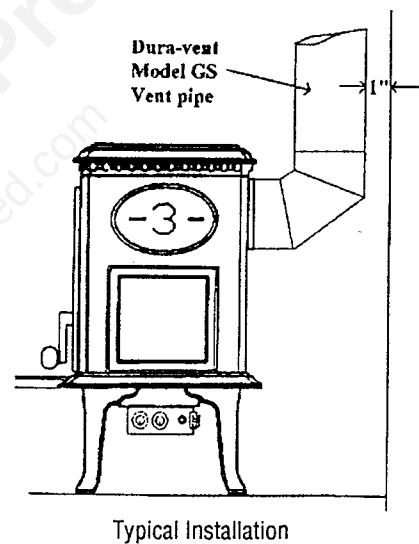


Figure 7

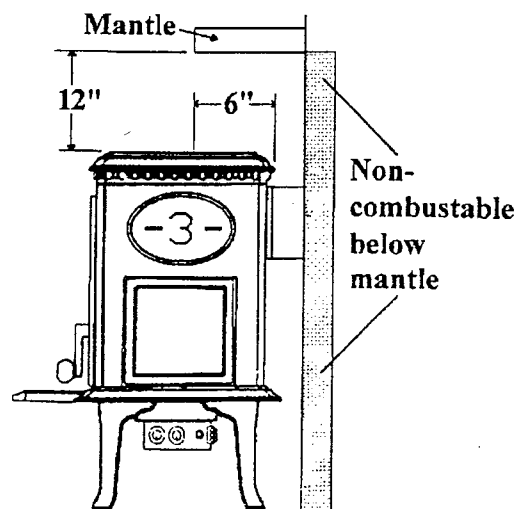
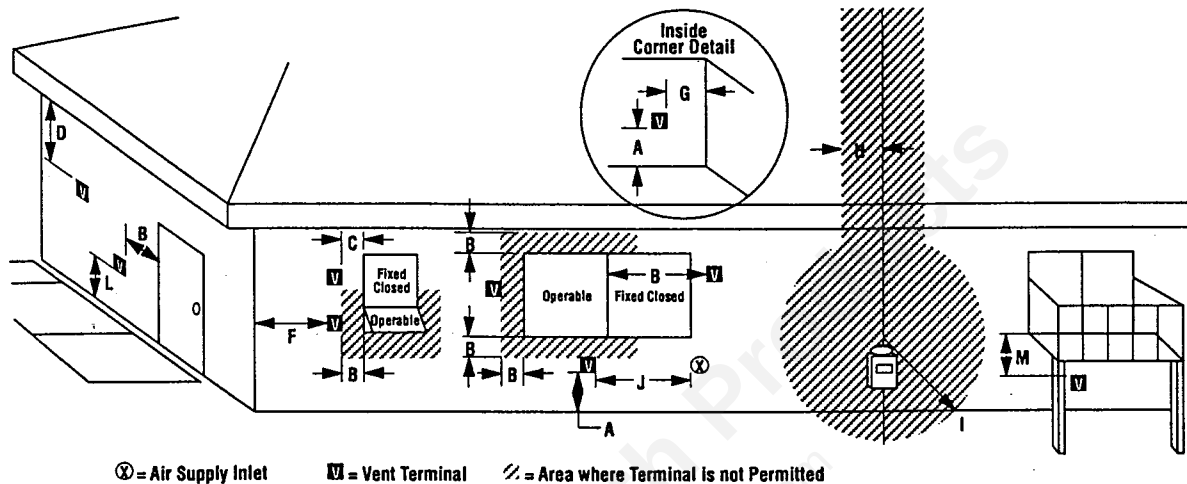


Figure 8

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

## EXTERIOR VENT CLEARANCE REQUIREMENTS



- A** = clearance above grade, veranda, porch, deck, or balcony  
12 inches (30 cm) minimum
- B** = clearance to window or door that may be opened  
U.S. - 9 inches (22.5 cm) minimum  
Canada - 12 inches (30 cm) minimum
- C** = clearance to permanently closed window - recommended to prevent condensation on window  
U.S. - 9 inches (22.5 cm) minimum  
Canada - 12 inches (30 cm) minimum
- D** = vertical clearance to soffit located above the terminal  
ventilated soffit 18 inches (46 cm) minimum  
unventilated soffit 12 inches (30 cm) minimum
- F** = clearance to outside corner  
9 inches (23 cm) minimum
- G** = clearance to inside corner  
6 inches (15.2 cm) minimum
- H** = not be installed above a gas meter/regulator assembly or within 3 feet (90 cm) horizontally from the center line of the regulator.
- I** = clearance to gas service regulator vent outlet  
U.S. - 3 feet (90 cm) minimum  
Canada - 6 feet (1.8 m) minimum
- J** = clearance to air supply inlet to building or the combustion air inlet to any other appliance.
- non-mechanical inlet:  
US - 9 inches (22.5 cm) minimum  
Canada - 12 inches (30 cm) minimum  
mechanical air supply:  
6 feet (1.8 m) minimum
- L** = clearance above paved sidewalk or paved driveway located on public property  
7 feet (2.1 m) minimum
- Note:** A vent shall not terminate directly above a sidewalk or paved driveway which is located between two (2) single family dwellings and serves both dwellings.
- M** = clearance under veranda, porch, deck, or balcony where fully open on a minimum of two (2) sides beneath the floor  
12 inches (30 cm) minimum

**Note:** Check local codes or regulations for variations.

**Figure 9**

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE

| Roof Slope          | Minimum Height from Roof to Lowest Discharge Opening |
|---------------------|------------------------------------------------------|
| Flat to 6/12        | 1' 0"                                                |
| Over 6/12 to 7/12   | 1' 3"                                                |
| Over 7/12 to 8/12   | 1' 6"                                                |
| Over 8/12 to 9/12   | 2' 0"                                                |
| Over 9/12 to 10/12  | 2' 6"                                                |
| Over 10/12 to 11/12 | 4' 0"                                                |
| Over 11/12 to 12/12 | 5' 0"                                                |
| Over 14/12 to 16/12 | 6' 0"                                                |
| Over 18/12 to 20/12 | 7' 6"                                                |
| Over 20/12 to 21/12 | 8' 0"                                                |

For SI units: 1 foot = 0.305 m

Table 1

## Vertical Venting

**Gas Vent Rule** – Gas vent caps that are located 8' or more from a portion of a building which extends at an angle greater than 45° upward from the horizontal may terminate in accordance with Table 1 (Figure 10), provided that in no case shall any discharge opening on the cap be less than 2' (610 mm) horizontally from the roof surface.

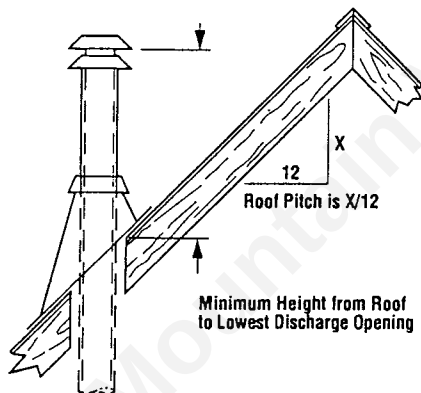


Figure 10

## Horizontal Venting

The vent termination must have a minimum of 3" (76 mm) clearance to any overhead combustible projection of 2 1/2" (64 mm) or less. Maintain 12" (305 mm) clearance from projections exceeding the 2 1/2" (64 mm) (Figure 11). For additional vent locations restrictions refer to Figure 9.

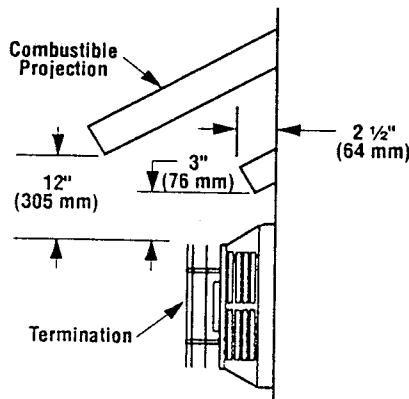


Figure 11

## INSTALLATION STEPS

The following sequence reflects a common installation process. Please note that each installation is unique, resulting in variations to those described.

1. Locate the appliance for best aesthetics and clearances.
2. Install handle, ash lip and other components detached for shipping.
3. Install the vent system.
4. Install optional remote control or wall thermostat, or wall switch.
5. Wire for the optional forced air blower kit.
6. Make connection to gas supply.
7. Install the logs.
8. Test fire the burner assembly, check pilot flame and main burner flame.
9. Adjust main burner characteristics.

## INSTALLATION

**Step 1.** Set the gas appliance in its desired location. Check to determine if wall studs or roof rafters are in the way when the venting system is attached. If this is the case, you may want to adjust the location of the appliance.

Slide the appliance away from the wall far enough to allow for the first section of vent pipe (see Figures 7 and 8.)

If the appliance is to be installed in a manufactured home, it must be secured to the floor. To secure the appliance to the floor use the floor bracket kit Part Number 07-750304 and proceed as follows:

- A. Locate the raised boss areas on the bottom of the stove (Figure 12.)

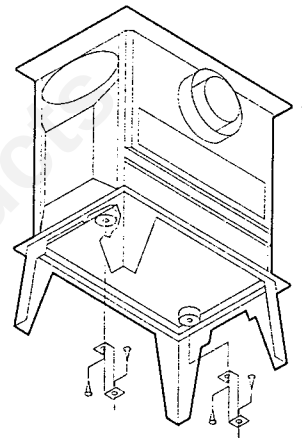


Figure 12

- B. Attach one end of each of the brackets to the stove using the bolts provided with the kit.
- C. Using the screws from the kit, attach the other end of each bracket to the floor.

There are two basic types of installations approved with JØTUL 3 Classic Direct Vent Model: Horizontal Termination (see Figure 13) Vertical Termination (see Figure 14).

*Note: Additionally this appliance may be vented using Dura-Vents Direct Vent GS® Co-Linear Flexible Vent system. Refer to Dura-Vents instructions for venting component P/N's and installation details.*

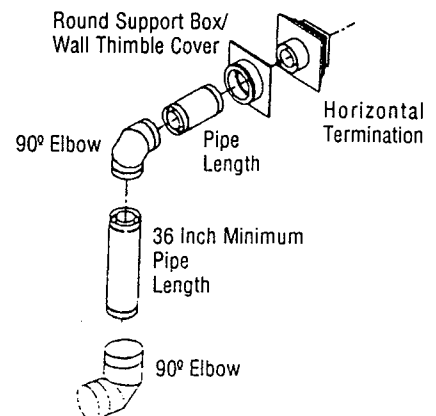
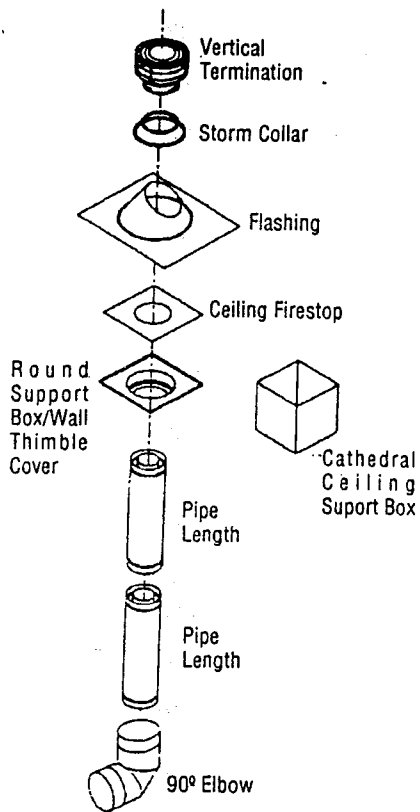


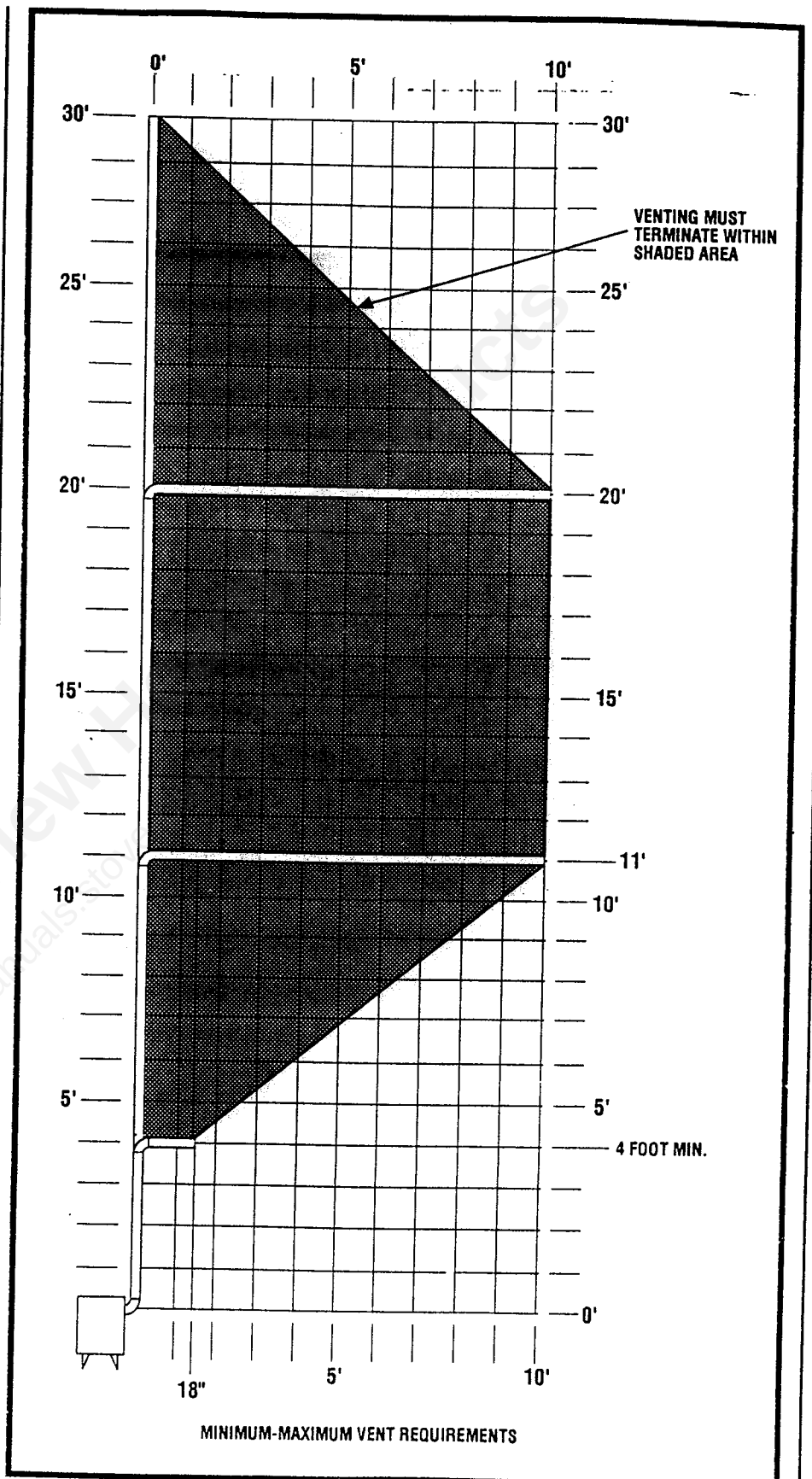
Figure 13



**Figure 14**

When planning your installation, refer to Table 2 to determine the specified limitations of your vent system. Total vent system must not exceed 30'. Also consult page 5, "Exterior Vent Clearance Requirements" regarding placement of the vent termination.

**Note:** Horizontal vent runs should only be made after the completion of a vertical rise. Horizontal vent runs made directly off the back of the appliance will require minimum vertical rises greater than those specified in Table 2.



**Table 2**

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

**WARNING: THE CAST IRON TOP PLATE OF YOUR JØTUL 3 CLASSIC DIRECT VENT GAS ROOM HEATER IS NOT FASTENED TO THE FRAME OF THE STOVE. THE WEIGHT OF THE TOP PLATE, WILL, HOWEVER, KEEP IT SECURELY IN PLACE DURING OPERATION OF THE STOVE. UNDER NO CIRCUMSTANCES SHOULD YOU OPERATE THE STOVE WITH THE TOP PLATE REMOVED.**

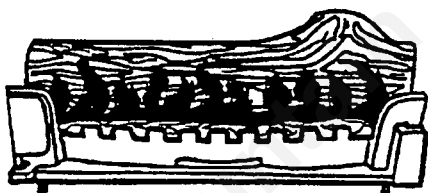
### Step 2.

Your JØTUL 3 Classic Direct Vent Gas Room Heater requires some minor assembly before you can operate the stove.

When you receive your heater you should find the following components in the carton on the wooden pallet:

- Cast Iron Log Retainer
- Cast Iron Ash Lip
- Touch-Up Paint
- Plastic Bag containing:
  - Wooden door handle knob
  - Long securing screw for knob
  - Cylindrical steel spacer
  - Fiber washer

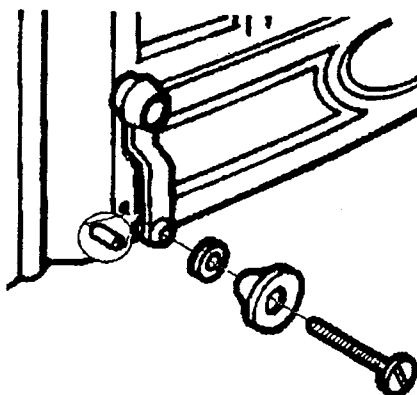
Place the decorative Log Retainer in position, ensuring that the hooks slide down the two slots at the sides of the door opening. Make sure that the Retainer sits correctly behind the two lugs (See Figure 15).



**Figure 15**

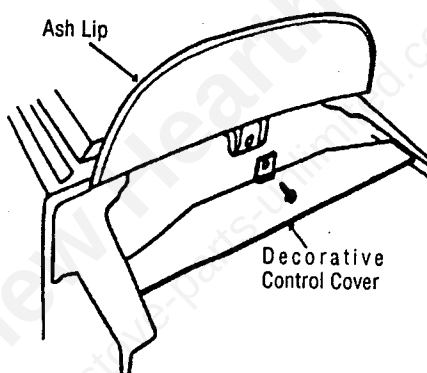
Remove the plastic bag from the carton supplied with the heater. Place the steel spacer between the handle and door, and insert the long screw through the wood knob, spacer and fiber washer. Locate the screw through the hole in the handle on the door and tighten into the threaded hole on the door body. This will insure that the door is not accidentally opened during operation of the heater (see Figure 16).

**Note:** The decorative log retainer must be removed prior to installing the logs.



**Figure 16**

Remove the Ashlip Plate from the carton. Attach this to the front of the heater using the bolt which is already located in the threaded hole beneath the door. Insure that the decorative cover sits behind the front legs (see Figure 17).



**Figure 17**

## DIRECT VENT INSTALLATION

### Step 3.

Your JØTUL 3 Classic Direct Vent has been shipped from the factory configured as a direct vent gas appliance to be installed with Dura-Vent direct vent components. The following paragraphs detail the vent installation procedure.

**Note:** The JØTUL 3 Classic Direct Vent model must be vented using Simpson Dura-Vent GS venting system. All warranties will be voided and serious fire, health or other safety hazards may result from any of the following actions: Installation of any damaged components; unauthorized modification of vent system; installation of any components not manufactured or approved by JØTUL; failure to meet all clearance requirements; failure to properly twist lock and seal all components.

Each inner section of Dura-Vent must be properly sealed to prevent the possibility of leakage. This is accomplished by using a high temperature sealant (Milpack Black, Thermoseal 100 or equivalent). Apply a bead of sealant around the bell section of the inner pipe prior to joining the pieces together. The outer pipe joint may be sealed with metal foil tape or with an appropriate sealant.

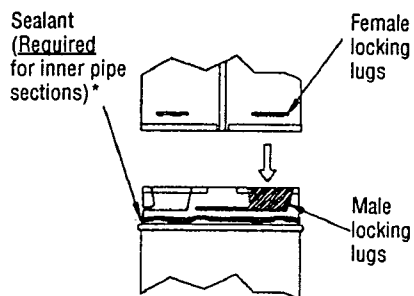
**WARNING: ALWAYS MAINTAIN REQUIRED CLEARANCES (AIR SPACES) TO COMBUSTIBLES TO PREVENT A FIRE HAZARD. DO NOT FILL AIR SPACES WITH INSULATION. CHECK INSTALLATION INSTRUCTIONS FOR MINIMUM CLEARANCE REQUIREMENTS BETWEEN THE OUTER WALLS OF THE VENT PIPE AND NEARBY COMBUSTIBLE SURFACES. BE SURE TO CHECK THE VENT TERMINATION CLEARANCE REQUIREMENTS FROM DECK, WINDOWS, SOFFIT'S, GAS REGULATORS, AIR SUPPLY INLETS AND PUBLIC WALKWAYS, AS SPECIFIED IN THESE INSTALLATION INSTRUCTIONS AND LOCAL BUILDING CODES. (SEE PAGE 5). THE GAS APPLIANCE AND VENT SYSTEM MUST BE VENTED DIRECTLY TO THE OUTSIDE OF THE BUILDING, AND NEVER ATTACHED TO A CHIMNEY SERVING SEPARATE SOLID FUEL OR GAS BURNING APPLIANCES. EACH DIRECT VENT GAS APPLIANCE MUST HAVE ITS OWN SEPARATE VENT SYSTEM. COMMON VENT SYSTEMS ARE PROHIBITED.**

**Note:** Dura-Vent pipe fittings are designed with special twist-lock connections. Assemble the desired combination of pipe and elbows to the appliance with pipe seams oriented towards the wall or floor, as much out of view as possible.

Twist-lock procedure:

1. Four indentations, located on the female ends of pipes and fittings, are designed to slide straight onto the male ends of adjacent pipes and fittings, by orienting the four pipe indentations so they match and sliding into the four entry slots on the male ends (Figure 18). Push the pipe sections completely together, then twist-lock one section clockwise approximately one-quarter turn, until the two sections are fully locked.

2. Horizontal runs of vent must be supported every three feet. Wall straps are available for this purpose Dura Vent Part No. 988.



\* Note: Outer pipe joints may be optionally sealed.

Figure 18

A. The horizontal run of vent must be level, or have a  $\frac{1}{4}$ " rise for every 1 foot of run toward the termination. Never allow the vent to run downward. This could cause high temperatures and may present the possibility of a fire.

B. For HORIZONTAL runs, a 3" top clearance (airspace) and 1" side and bottom clearance **MUST** be maintained with the Direct Vent pipe. For VERTICAL runs, a 1" clearance **MUST** be maintained with Direct Vent pipe.

C. With the pipe attached to the appliance, slide the appliance into its correct location, and mark the wall for a 10" x 10" square hole. The center of the square hole should line up with the centerline of the horizontal pipe as shown in Figure 19. Cut and frame the 10" square hole in the exterior wall where the vent will be terminated. Install the Wall Thimble (Dura Vent Part No. 942) into the frame opening. If the wall being penetrated is constructed of noncombustible material, i.e. masonry block or concrete, a 7" diameter hole is acceptable, and the Wall Thimble is not needed.

D. Position the horizontal vent termination into the wall thimble, and attach to the exterior wall with the four wood screws provided. Before attaching the Vent Termination Dura Vent Part No. 984, to the exterior wall, run a bead of non-hardening mastic around its outside edges, so as to make a seal between it and the wall. The arrow on the vent cap should be pointing up. Insure that proper clearances to combustible materials are maintained (Figure 20).

E. Before connecting the horizontal run of vent pipe to the vent termination, slide the black decorative wall thimble cover, Dura Vent Part No. 940, over the vent pipe.

F. Slide the appliance and vent assembly toward the wall, carefully inserting the vent pipe into the vent cap assembly. It is important that the vent pipe extended into the vent cap a sufficient distance so as to result in a minimum pipe overlap of 1-1/4 inches. Secure the connection between the vent pipe and the vent cap by attaching the two sheet metal strips extending from the vent cap assembly into the outer wall of the vent pipe. Use two sheet metal screws provided to connect the strips to the Pipe Section (Figure 21).

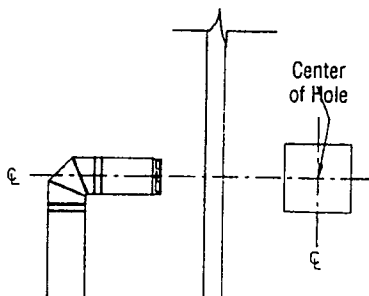


Figure 19

**Notes:**

1. The four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings.

2. Venting termination shall not be recessed into a wall or siding. For buildings with vinyl sidings, a Vinyl Siding Standoff (Dura Vent Part No. 950) should be installed between the vent cap and the exterior wall (Figure 22). Attach the Vinyl Siding Standoff to the Horizontal Vent Termination. The Vinyl Siding Standoff prevents excessive heat from possibly melting the vinyl siding material.

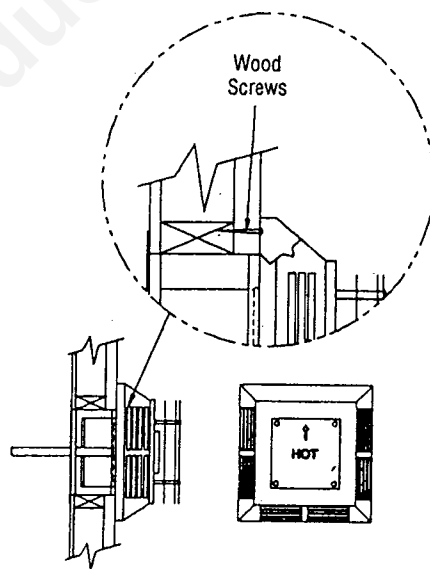


Figure 20

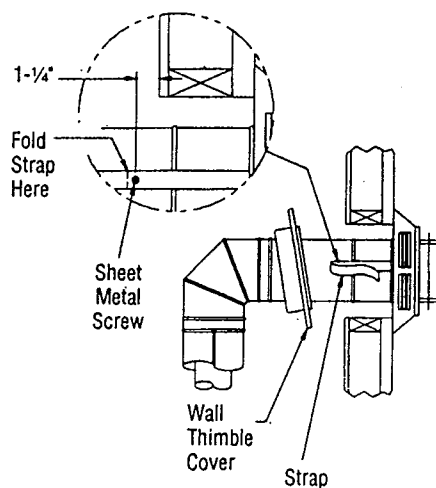
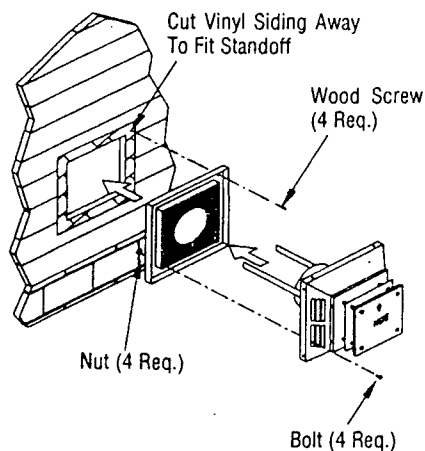


Figure 21

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

## VERTICAL TERMINATION

**A.** Set the gas appliance in its desired location. Drop a plumb bob down from the ceiling to the exit position of the first 90° elbow, and mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plumb bob from the underside of the roof to the hole previously drilled in the ceiling, and mark the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters, or other framing will obstruct the venting system. You may wish to relocate the appliance, or to offset it, as shown in *Figure 23*, to avoid cutting load bearing members.

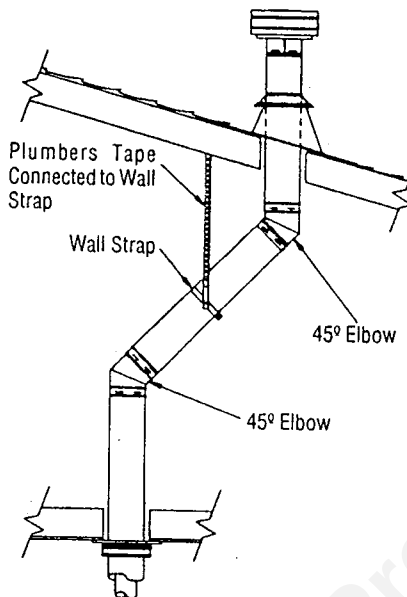


**Figure 22**

**B.** To install the Round Support Box/Wall Dura Vent Part No. 940, Thimble in a flat ceiling, cut a 10" square hole in the ceiling, centered on the hole drilled in Step A. Frame the hole as shown in *Figure 24*.

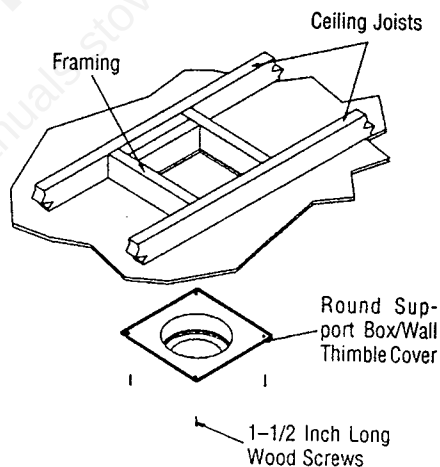
**C.** Assemble the desired lengths of Pipe and Elbows necessary to reach from the appliance adapter up through the Round Support Box. Insure that all Pipe and Elbow connections are in their fully twist-locked position.

**D.** Cut a hole in the roof centered on the small drill hole placed in the floor in Step A. The hole should be of sufficient size to meet the 1" requirements for clearance to combustibles. Continue to assemble lengths of Pipe and Elbows necessary to reach from the Round Support Box/Wall Thimble up through the roof line. Galvanized Pipe and Elbows may be utilized in the attic, as well as the roofline. The galvanized finish is desirable above the roofline due to its higher corrosion resistance.



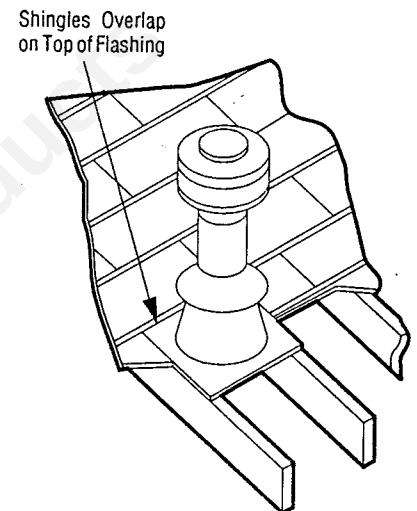
**Figure 23**

**E.** Slip the flashing Dura Vent Part No. 943 (0/12 to 6/12 Roof Pitch) or Dura Vent Part No. 943S (7/12 to 12/12 Roof Pitch) over the Pipe Section(s) protruding through the roof. Secure the base of the Flashing to the roof with roofing nails. Insure the roofing material overlaps the top edge of the Flashing as shown in *Figure 25*. Verify that you have at least the minimum clearance to combustibles at the roofline.



**Figure 24**

**F.** Continue to add Pipe Sections until the height of the Vent Cap meets the minimum building code requirements described in Vertical Venting on page 6. Note that for steep roof pitches, the vent height must be increased. In high wind conditions, nearby trees, adjoining rooflines, steep-pitched roofs, and other factors can result in poor draft, or a down draft condition. In these cases, increasing the vent height may solve this problem.



**Figure 25**

**G.** Twist lock the Vent Cap.

### Notes:

1. Maintain 1" minimum Clearance.
2. If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3 feet, to avoid excessive stress on the Elbows, and possible separation. Wall Straps Dura Vent Part No. 988, are available for this purpose (*Figure 23*).
3. Whenever possible, use 45 degree Elbows, instead of 90 degree Elbows. The 45 degree Elbows offer less restriction to the flow of flue gases and intake air.
4. For multi-story vertical installations, a Ceiling Firestop (Dura Vent Part No. 963) is required at the second floor, and any subsequent floors (*Figure 26*). The opening should be framed to 10-inch x 10-inch inside dimensions, in the same manner as shown in *figure 21*.
5. Vent runs should never include more than three (3) 90 degree Elbows or six (6) 45 degree Elbows.

5. Any occupied areas above the first floor, including closets and storage spaces, which the vertical vents pass through, must be enclosed. The enclosure may be framed and sheetrocked with standard construction materials. On VERTICAL runs a 1" clearance to combustible surfaces must be maintained. On HORIZONTAL runs a 3" top and 1" side and bottom clearance to combustible surfaces must be maintained. Do not fill any of the required air spaces with insulation.

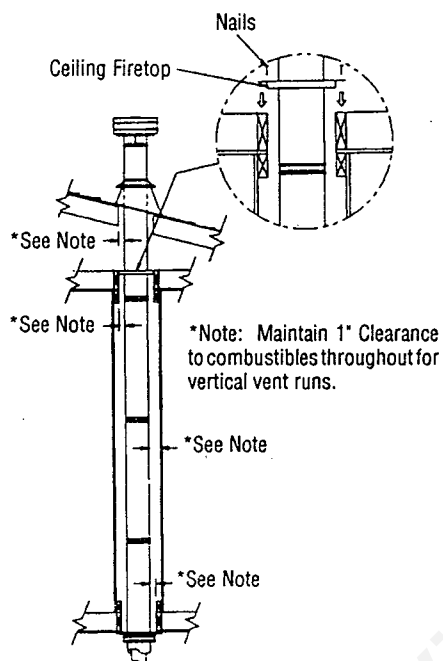


Figure 26

**Step 4. Installing the Optional Remote Wall Switch or Wall Thermostat** The standard JØTUL DV 3 system comes from the factory wired as shown in Figure 27. Select a convenient location for the remote wall switch or wall thermostat and connect the wiring to the appliance.

**CAUTION: DO NOT CONNECT THE OPTIONAL REMOTE SWITCH TO A 120V POWER SUPPLY.**

**Note:** The standard rocker switch is mounted to the appliance valence and wired in the same way as the remote wall switch.

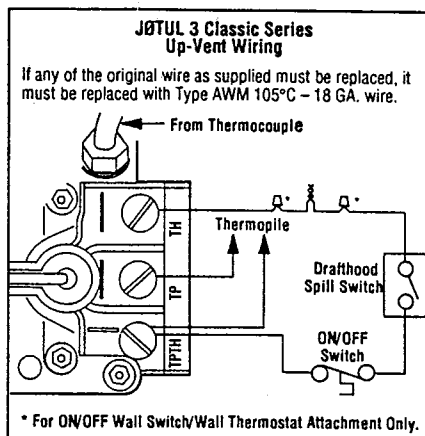


Figure 27

### Step 5. Installing the Optional Forced Air Blower Kit Wiring.

Your JØTUL 3 Classic Direct Vent appliance can be fitted with a forced air blower. The blower, decorative fan shield, and required hardware are provided in the Forced Air Blower Kit part number 07-750001.

To install the forced air blower, follow the instructions provided with the kit and make provisions for the following concerns:

Route a 3-wire, 120Vac power line to a standard wall outlet located near the lower left rear corner of the appliance. Make connections to the receptacle as shown in Figure 28.

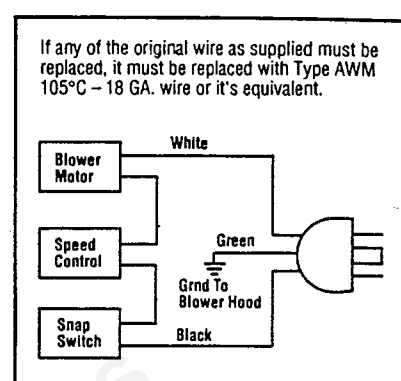


Figure 28

**Important:** Ground lead must be connected to the blower hood (Figure 28). Failure to do so will prevent the appliance from operation. The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, the National Electrical Code, ANSI/NFPA 70-1987. (In Canada, the current CSA C22 C22-1 Canadian Electrical Code).

The forced air blower kit may be mounted at initial appliance installation or at any time thereafter. Follow the instructions provided with the blower kit.

**Step 6. Connecting Gas Line – Make gas line connections.** All codes require a shut-off valve mounted in the supply line. Figure 29 illustrates two methods for connecting the gas supply.

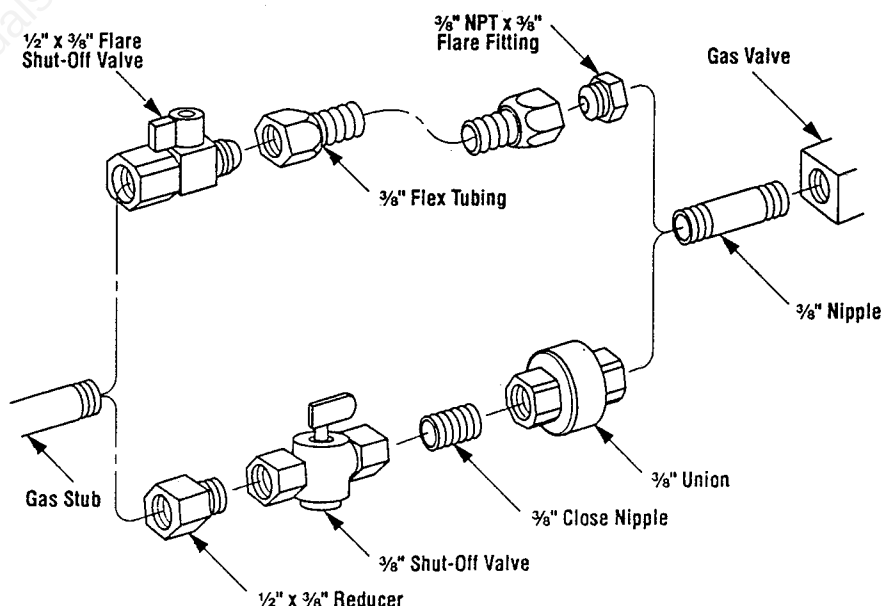


Figure 29

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

The flex-line method is acceptable in the U.S., however, Canadian requirements vary depending on locality. Installation must be in compliance with local codes. The gas control valve is located on the right underside of the appliance. The control valve has a  $\frac{1}{2}$ " (10 mm) NPT thread inlet port. Plan the connections accordingly.

Secure all joints tightly using appropriate tools and sealing compounds (ensure propane resistant compounds are used in propane applications). Turn on gas supply and test for gas leaks using a soapy water solution. **Never use an open flame to check for leaks.**

**A.** Mix a 50% dish of soap, 50% water solution.

**B.** Light the appliance (see safety and lighting instructions on page 20).

**C.** Brush all joints and connections with the soapy water solution to check for leaks. If bubbles are formed, or gas odor is detected, turn the gas control knob to the "OFF" position. Either tighten or refasten the leaking connection and retest as described above.

**D.** When the gas lines are tested and leak free, observe the individual tongues of flame on the burner. Make sure all ports are open and producing flame evenly across the burner. If any ports are blocked, or partially blocked, clean out the ports.

#### High Elevation Derating

**WARNING: THE DERATING KIT IS TO BE INSTALLED BY AN AUTHORIZED JØTUL CERTIFIED SERVICE TECHNICIAN IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION, FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE. THE QUALIFIED AGENCY PERFORMING THIS WORK ASSUMES RESPONSIBILITY FOR THIS DERATING.**

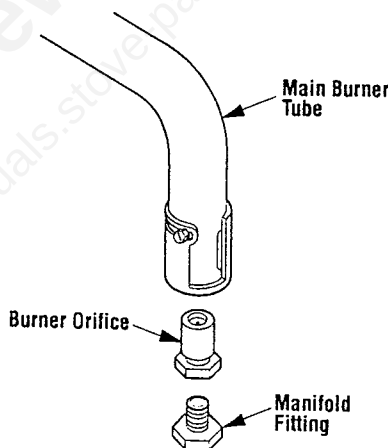
#### In Canada

**THE DERATING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROVINCIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAN1-B-149.1 AND .2 INSTALLATION CODE.**

This unit has been tested for installation at high altitudes in accordance with Canadian test standard CAN/CGA-2.17.

Higher altitudes affect the atmospheric pressure and heat value of gaseous fuels. When installing this unit at high altitudes, the lower oxygen content in the air and lower gas viscosity require installation of a different orifice to achieve efficient, clean combustion at the burners. Refer to the following charts and/or the rating plate on the appliance for proper orifice size.

To derate this unit, order and install the appropriate high altitude orifice kit per the following chart. Remove two (2) Phillips head screws securing the burner brackets to the base of the appliance firebox. Lift and remove the burner. Remove the orifice (*Figure 30*) and replace with the appropriate one from the kit. Refer to the following chart. Be sure to attach the conversion sticker provided with the kit to the rating plate on the appliance.



*Figure 30*

#### Direct Vent Burner Orifice Requirements

| Gas Type | Orifice Size | High Alt Orf. Kit | Elevation                      |
|----------|--------------|-------------------|--------------------------------|
| Natural  | #38          | —                 | 0 - 2000'<br>(0 - 610 m)       |
|          | #39          | 07-750305N        | 2000 - 4500'<br>(610 - 1370 m) |
| Propane  | #54          | —                 | 0 - 2000'<br>(0 - 610 m)       |
|          | #55          | 07-750305P        | 2000 - 4500'<br>(610 - 1370 m) |

**Step 7. Installing Logs** – The logs are packaged in bubble wrap and placed within the firebox. Carefully position and center the fiber logs onto the burner with the scalloped and charred log in front and the smaller log in the back. Engage the two (2) holes on the bottom of the rear log onto the position tabs of the burner assembly, refer to *Figure 31*. There should be a  $\frac{1}{2}$ " (13 mm) gap between the rear log and the back wall of the firebox. Place the smaller fiber "Y" log across the two (2) lower logs in the manner illustrated. The flames should not impinge on the logs.

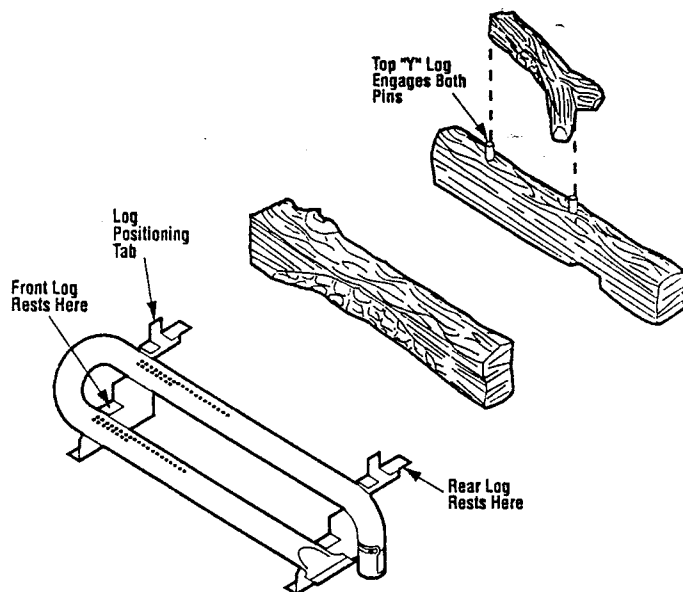


Figure 31

### Appliance Operation

**Step 7. Checking the System** – With gas line installed, run initial system checkout. Follow the pilot lighting instructions on page 20.

**Note:** Lighting instructions are also found on the pull out tray, below the front ash lip.

When first lighting the appliance, it will take a few minutes for the line to purge itself of air. Once purging is complete, the pilot and burner will light and operate as indicated in the instruction manual. Subsequent lightings of the appliance will not require such purging. Inspect the pilot flame (remove logs, if necessary, handling carefully).

The pilot flame should be steady, not lifting or floating. Flame should be blue in color with traces of orange at the outer edge.

The top  $\frac{3}{8}$ " (10 mm) at the pilot generator (thermopile) and the top  $\frac{1}{8}$ " min. (tip) of the quick drop out thermocouple should be engulfed in the pilot flame. The flame should project 1" (25 mm) beyond the hood at all three ports (Figure 32).

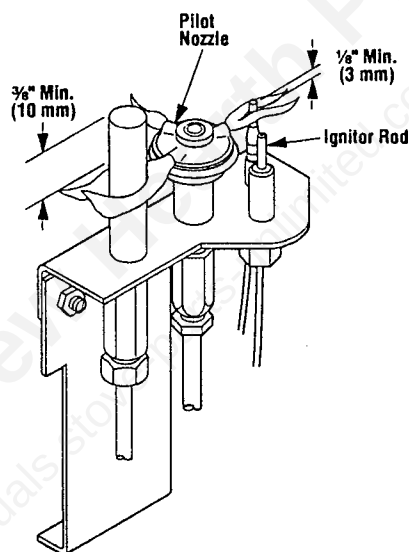


Figure 32

Removed for pilot inspection.

To light the burner; turn "ON" the rocker switch or optional remote wall switch, and rotate the gas valve control knob counterclockwise to the "ON" position.

**Step 8. Burner Adjustments** – The JØTUL Classic 3 Direct Vent is equipped with a two stage (HI, LOW) gas control valve. This valve provides for easy flame height adjustment. To cycle the burner between the HI and LOW settings, rotate the HI/LOW knob, located in the center of the valve front face, clockwise and counterclockwise respectively. Flame height will increase approximately 2" to 2 ½" when in the HI mode as referenced against the LOW mode. Flame height and appearance should be as shown in Figure 33. The following paragraphs detail flame appearance and adjustment. **Make all adjustments as described with HI/LOW knob set to HI.**

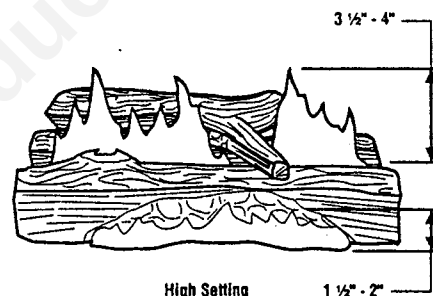


Figure 33

### Flame Appearance and Sooting

Proper flame appearance is a matter of taste. Generally most people prefer the warm glow of a yellow to orange flame. Appliances operated with air shutter openings that are too large will exhibit flames that are blue and transparent. These weak, blue and transparent flames are termed anemic.

If the air shutter opening is too small sooting may develop. Sooting is indicated by black puffs developing at the tips of very long orange flames. Sooting results in black deposits forming on the logs, appliance inside surfaces and on exterior surfaces adjacent to the vent termination. Sooting is caused by incomplete combustion in the flames and a lack of combustion air entering the air shutter opening.

To achieve a warm yellow to orange flame with an orange body that does not soot, the shutter opening must be adjusted between these two extremes.

No smoke or soot should be present. Reposition the logs if the flames impinge on any of them.

**CAUTION: DO NOT ATTEMPT TO REDUCE OR ALTER THE FLAME BY POSITIONING THE GAS VALVE IN OTHER THAN THE FULL "ON" POSITION.**

If sooting conditions exist, the air shutter openings on the burner tube can be adjusted. Normally, the more offsets in the vent system, the greater the need for the air shutter to be opened further.

**WARNING: AIR SHUTTER ADJUSTMENT SHOULD ONLY BE PERFORMED BY A QUALIFIED PROFESSIONAL SERVICE TECHNICIAN.**

**Note:** Ensure that the door is closed and sealed during adjustment burn cycles.

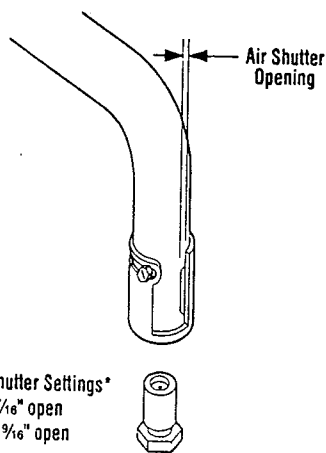
#### Adjustment

**CAUTION: THE AIR SHUTTER AND NEARBY APPLIANCE SURFACES ARE HOT. EXERCISE CAUTION TO AVOID INJURY WHILE ADJUSTING FLAME APPEARANCE.**

There are two adjustments that can be made to create a desired flame appearance. A HI/LO knob, located on the gas valve, should be used to adjust the flame height. The air shutter, located just above the burner orifice, should be used to adjust flame color and soot level.

To adjust the burner flame, open or close the air shutter. Position the air shutter to the nominal setting (Figure 34). Close the door. Allow the burner to operate for at least 30 minutes. Observe the flame continuously. If it appears weak or sooty as previously described, allow the appliance to cool, then open the glass door and adjust the air shutter. Repeat the procedure until the flame appearance is as desired.

When satisfied that the appliance operates properly, proceed to finish the installation. Leave the control knob/lever in "ON" position, and turn the remote switch "OFF".



Nominal Air Shutter Settings\*  
Natural Gas -  $\frac{7}{16}$ " open  
Propane Gas -  $\frac{9}{16}$ " open

Figure 34

**\*Note:** Air shutter settings shown are for direct vent units. Up-Vent air shutter openings are  $\frac{9}{16}$ " for both Natural and Propane gas.

#### JØTUL 3 CLASSIC SERIES OPTIONS

The following paragraphs detail the kit options available for use with the appliance covered in this manual. Kit part numbers are provided on pages 17 and 18 along with descriptive illustrations.

##### Forced Air Kit

The Forced Air Kit with its blower and variable speed switch provides a forced air circulation feature for your appliance. This kit mounts directly into the lower intake chamber with an electrical connection made at the wall receptacle. The appliance must have an independent 120Vac power line incorporated at the time of installation. Refer to Step 5 and the installation instructions supplied with the forced air kit. (Figures 28 and 35).

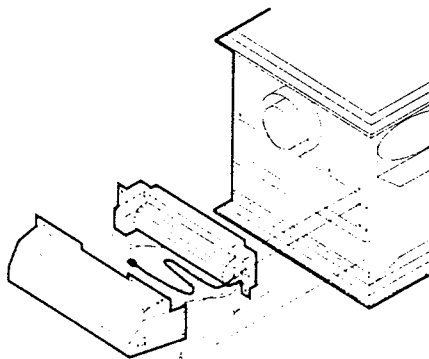


Figure 35

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

#### Remote Control Kit

The Optional Remote Control Kit Part Number 07-750002 adds the convenience of remote control for your appliance. The kit includes a wireless, hand held transmitter and a receiver. This special receiver permits either manual or remote control modes. Both receiver and transmitter operate on standard 9 volt batteries (not included). Refer to the Remote Control Kit installation instructions for specific details.

#### Wall Mounted Thermostat Kit

An optional wall mounted thermostat kit, part number 07-750003, can be installed along with the JØTUL 3 Classic Direct Vent. The wall mounted thermostat kit should be installed along with the appliance. Refer to Figure 27 and Step 4 for detailed installation instructions.

#### Gas Conversion Kits

**WARNING: THE CONVERSION KIT IS TO BE INSTALLED BY AN AUTHORIZED JØTUL SERVICE TECHNICIAN IN ACCORDANCE WITH THE MANUFACTURE'S INSTRUCTION AND ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE. THE QUALIFIED AGENCY PERFORMING THIS WORK ASSUMES RESPONSIBILITY FOR THIS CONVERSION.**

##### In Canada

**THE CONVERSION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROVINCIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAN1-B149.1 AND .2 INSTALLATION CODE.**

Gas conversion kits are available to adapt your direct vent appliance from the use of one type of fuel to the use of another. These kits contain all the necessary components needed to complete the task including labeling that must be affixed to ensure safe operation. Kit part numbers are listed below and the following steps detail the conversion procedure.

#### Conversion Kits\*

P/N 07-750302 – Natural to Propane (DV)

P/N 07-750301 – Propane to Natural (DV)

**Step 1.** Turn off the gas supply to the appliance. Remove the door handle locking screw. Open door.

**Step 2.** Carefully remove the top log. Then remove the two (2) main logs. Exercise care as not to break or scratch the logs.

**Step 3.** Disconnect the gas line to remove the gas valve. Mark and remove the wires from the gas valve.

**Step 4.** Remove four (4) screws securing the valve to the mounting bracket, two (2) at each side.

**Step 5.** Remove and replace the valve assembly located on the underside of the appliance at the right side (Figure 36).

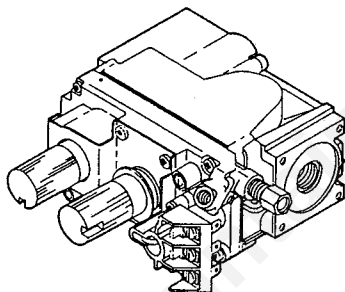


Figure 36

**Step 6.** Remove and replace the burner orifice (refer to Figure 30). Use #39 for natural and #54 for propane.

**\*Note:** Up-Vent gas conversion kits are available to convert your Up-Vent kit from the use of one type of gas to the use of another. Up-Vent conversion kit part numbers are 07-750303P for Natural to Propane conversions and 07-750303N for Propane to Natural conversions.

**Step 7.** Reassemble all removed components by reversing the procedures outlined in the preceding steps. Use pipe joint compound or Teflon tape on all fittings before installing (ensure propane resistant compounds are used in propane applications).

**Step 8.** Attach conversion kit label to the rating plate on the appliance; Label B for units converted to natural gas or Label I for units converted to propane (Figure 37).

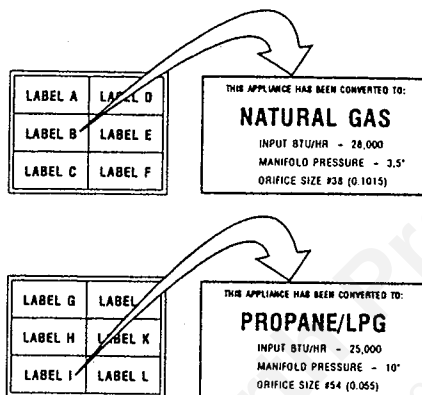


Figure 37

**Step 9.** Turn on gas supply and test for gas leaks as described in the gas line connection instructions, Step 6 on page 11.

**WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES. USE CAUTION AROUND THE APPLIANCE TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.**

## OPERATION AND CARE OF YOUR APPLIANCE

1. Appliance operation is controlled through the rocker switch or optional wall thermostat. A separate switch provides independent control for the optional forced air blower.

2. When lit for the first time, this appliance will emit a slight odor for an hour or two. This is due to the "burn-in" of internal paints and lubricants used in the manufacturing process.

3. Upon each lighting of the appliance, condensation may occur and fog the inside of the glass on the door. This condition will disappear shortly as the appliance heats.

4. Keep lower controls clean by vacuuming or brushing at least twice a year.

5. Always turn off gas to the pilot before cleaning. Before re-lighting, refer to the lighting instruction in this manual. Instructions are also found on a pull-out panel located on the valence of the appliance.

6. Always keep the appliance area clear and free from combustible materials, gasoline and other flammable liquids.

7. Remember, this appliance has a continuous burning pilot flame. Exercise caution when using products with combustible vapors.

**WARNING: OBSERVE CAUTION NEAR THE DOOR. THE GLASS PANEL MAY SHATTER UNEXPECTEDLY IF STRUCK WITH AN OBJECT**

8. **CAUTION: DO NOT OPERATE THIS APPLIANCE WITH THE DOOR OPEN OR IF THE GLASS IS CRACKED OR BROKEN.** Where broken glass exists, the complete door assembly must be replaced. See the Replacement Parts List on page 18 for correct parts.

9. Clean the glass only when necessary. Wipe surface with a clean, dampened, soft cloth. Follow with a dry, soft towel as desired. Take care not to scratch the glass surface.

**WARNING: DO NOT USE ABRASIVE CLEANERS. NEVER CLEAN THE GLASS WHEN IT IS HOT.**

## Maintenance

The appliance and venting system should be inspected before use and at least annually by a qualified service technician.

**IMPORTANT: TURN OFF GAS AND ANY ELECTRICAL POWER BEFORE SERVICING THE APPLIANCE.**

The main burner compartment should be inspected annually for proper operation. Open the door and perform general cleaning to remove any surface build-up on pilot and burner assembly. Wipe the pilot nozzle and igniter rod (Figure 32).

When returning to service, verify proper flame characteristics as described in Step 8, refer to Figure 33.

## Gasket Inspection

It is important that the door gasket be inspected at the beginning of the heating season by a qualified technician. Examine the sealing gasket for signs of deterioration. Also make sure the gasket has a positive seal, preventing combustion gases from escaping into the room. Replace the door gasket if necessary, refer to the Replacement Parts List on page 18.

With proper care and maintenance, your appliance will provide many years of enjoyment. If you should experience any problem, first refer to the troubleshooting guide in this manual. If problems persist, contact your local service center.

Retain this manual. File it with your other documents for future reference.

## REPLACEMENT PARTS

A complete parts list is found at the end of this manual. Use only parts manufactured and/or approved by JØTUL USA.

**WARNING: THE GLASS DOOR OF THIS APPLIANCE IS MANUFACTURED WITH CERAMIC GLASS 5 MM THICK. DO NOT ATTEMPT TO SUBSTITUTE THE GLASS MATERIALS USED ON THIS DOOR. DO NOT ATTEMPT TO REPLACE THE GLASS DOOR OR GLASS WITH ANYTHING OTHER THAN JØTUL MANUFACTURED AND SUPPLIED MATERIALS. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL VOID THE PRODUCT WARRANTY AND LIMIT MANUFACTURER LIABILITY.**

All parts should be ordered through your JØTUL dealer. Parts will be shipped at prevailing prices at time of order.

When ordering repair parts, always give the following information:

1. The model number of the appliance.
2. The serial number of the appliance.
3. The part number.
4. The description of the part.
5. The quantity required.
6. The installation date of the appliance.

## ACCESSORY PARTS AND COMPONENT LIST FOR JØTUL 3 CLASSIC DIRECT VENT SERIES APPLIANCE

The accessory parts and components on page 18 are to be used only with this appliance system. Separate installation instructions are packaged with most accessories.

If you encounter any problems or have any questions concerning the installation or application of this system, please contact your JØTUL Dealer. For the name of your nearest JØTUL Dealer contact:

**JØTUL USA, INC.  
400 RIVERSIDE STREET  
PORTLAND, MAINE 04104**

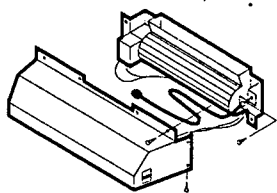
## Natural Gas Models

| Color              | Part Number | Weight   |
|--------------------|-------------|----------|
| Black Paint        | 870274      | 195 lbs. |
| Blue Black Enamel  | 870256      | 195 lbs. |
| Ivory Enamel       | 870257      | 195 lbs. |
| Green Enamel       | 870292      | 195 lbs. |
| Indigo Blue Enamel | 870346      | 195 lbs. |

## Propane Gas Models

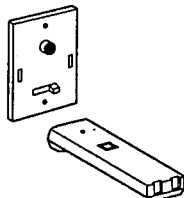
| Color              | Part Number | Weight   |
|--------------------|-------------|----------|
| Black Paint        | 871274      | 195 lbs. |
| Blue Black Enamel  | 871256      | 195 lbs. |
| Ivory Enamel       | 871257      | 195 lbs. |
| Green Enamel       | 871292      | 195 lbs. |
| Indigo Blue Enamel | 871346      | 195 lbs. |

## ACCESSORIES AND COMPONENTS



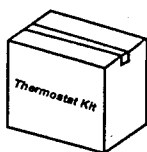
**Forced Air  
Blower Kit**

P/N 07-750001



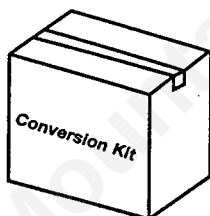
**Remote Control**

P/N 07-750002



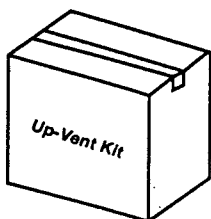
**Wall Mounted  
Thermostat**

P/N 07-750003



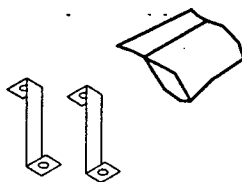
**Conversion Kit**  
Natural DV  
Propane DV  
Natural UV  
Propane UV

P/N 07-750301  
P/N 07-750302  
P/N 07-750303N  
P/N 07-750303P



**Up-Vent Kit**

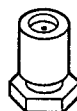
P/N 07-750307



**Floor Bracket Kit**

P/N 07-750304

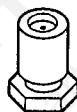
**Direct Vent Units**



**High Altitude  
Orifice Kit**  
Natural  
Propane

P/N 07-750305N  
P/N 07-750305P

**Up-Vent Units**



**High Altitude  
Orifice Kit, NG**

P/N 07-750306N

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

### **ACCESSORIES**

|                                         |               |
|-----------------------------------------|---------------|
| 1. Blower                               | 07-750001     |
| 2. Remote Control                       | 07-750002     |
| 3. Wall Mounted Thermostat              | 07-750003     |
| 4. NG Conversion Kit (Direct-Vent)      | 07-750301     |
| LPG Conversion Kit (Direct-Vent)        | 07-750302     |
| NG Conversion Kit (Up-Vent)             | 07-750303N    |
| LPG Conversion Kit (Up-Vent)            | 07-750303P    |
| 5. Up-Vent Kit                          | 07-750307     |
| 6. Floor Bracket Kit                    | 07-750304     |
| 7. High Altitude Orifice Kit, NG        | 07-750305N    |
| High Altitude Orifice Kit, LPG          | 07-750305P    |
| High Altitude Orifice Kit, NG (Up-Vent) | 07-750306N    |
| 8. Wall Switch Kit                      | 07-750308     |
| 9. Short Leg Kits                       | Specify Color |

### **COMPONENTS**

|                          |            |
|--------------------------|------------|
| Manual                   | 07-031001  |
| Gas Valve, NG            | 07-031003N |
| Gas Valve, LPG           | 07-031003P |
| Pilot Assembly, NG       | 07-031004N |
| Pilot Assembly, LPG      | 07-031004P |
| Thermocouple             | 07-031010  |
| Thermopile               | 07-031012  |
| Top Log                  | 07-031020  |
| Rear Log                 | 07-031021  |
| Front Log                | 07-031022  |
| Glass                    | 04-126140  |
| Orifice, NG #38          | 07-031013N |
| Orifice, LPG #54         | 07-031013P |
| Gasket Door              | 04-200025  |
| Gasket, Glass            | 04-200028  |
| Gasket, Valve Assembly   | 07-031014  |
| Orifice, Up-Vent, NG #42 | 07-031001  |

# TROUBLESHOOTING THE MILLIVOLT GAS CONTROL SYSTEM

## JØTUL 3 Classic Direct Vent Model

**Note:** Before troubleshooting the gas control system, be sure external gas shut off valve (located at gas supply inlet) is in the "ON" position.

| SYMPTOM                                                                         | POSSIBLE CAUSES                                                                       | CORRECTIVE ACTION                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Spark ignitor will not light pilot after repeated triggering of red button.  | A. Defective ignitor (no spark at electrode).                                         | Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace ignitor.                                                                                                                                                                                                                                                                             |
|                                                                                 | B. Defective or misaligned electrode at pilot (spark at electrode).                   | Using a match, light pilot. If pilot lights, turn off pilot and trigger the red button again. If pilot lights, an improper gas mixture caused the bad lighting and a longer purge period is recommended. If pilot will not light – check gap at electrode and pilot - should be $\frac{1}{8}$ " (3 mm) to have a strong spark. If gap measures $\frac{1}{8}$ ", replace pilot (Figure 32). |
|                                                                                 | C. Gas supply pressure errant.                                                        | Check inlet gas pressure. It should be within the limits as marked on the rating plate.                                                                                                                                                                                                                                                                                                    |
|                                                                                 | D. Pilot orifice plugged.                                                             | Clean or replace pilot orifice.                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                 | E. Rear log too close to Ignitor.                                                     | Move rear log further back.                                                                                                                                                                                                                                                                                                                                                                |
| 2. Pilot will not stay lit after carefully following the lighting instructions. | A. Defective pilot generator (thermopile) or remote wall switch.                      | Check pilot flame, it must impinge on pilot generator (Figure 32). Clean and/or adjust pilot for maximum flame impingement on generator.                                                                                                                                                                                                                                                   |
|                                                                                 |                                                                                       | Be sure wire connections from generator at gas valve terminals are tight and generator is fully inserted into pilot bracket.                                                                                                                                                                                                                                                               |
|                                                                                 |                                                                                       | One of the ON/OFF switch wires may be grounded. Remove wall switch wires from valve terminals. If pilot now stays lit, trace ON/OFF switch wiring for ground. May be grounded to appliance or gas supply.                                                                                                                                                                                  |
|                                                                                 |                                                                                       | Check pilot generator with millivolt meter. Take reading at generator terminals of gas valve. Should read 325 millivolts minimum while holding valve knob depressed in pilot position and the ON/OFF switch toggled "OFF." Replace faulty pilot generator if reading is below specified minimum.                                                                                           |
| 3. Pilot burning, no gas to burner, valve knob "ON," ON/OFF switch "ON."        | B. Defective automatic valve operator.                                                | Turn valve knob to "ON," place ON/OFF switch to "ON." Millivolt meter should read greater than 100 mv. If the reading is okay and the burner does not come on, replace the gas valve.                                                                                                                                                                                                      |
|                                                                                 | A. Ignition switch or wires defective.                                                | Check ON/OFF switch and wires for proper connections. Jumper wire across terminals at ON/OFF switch, if burner comes on, replace defective wall switch. If okay, jumper wires across ON/OFF switch wires at valve, if burner comes on, wires are faulty or connections are bad.                                                                                                            |
|                                                                                 | B. Pilot generator may not be generating sufficient millivoltage.                     | Re-check Symptom #2.                                                                                                                                                                                                                                                                                                                                                                       |
| 4. Frequent pilot outage problem.                                               | C. Plugged burner orifice.                                                            | Check burner orifice for stoppage and remove.                                                                                                                                                                                                                                                                                                                                              |
|                                                                                 | A. Pilot flame may be too low or blowing (high) causing the pilot safety to drop out. | Clean and/or adjust pilot flame for maximum flame impingement on pilot generator (Figure 32).                                                                                                                                                                                                                                                                                              |

## LIGHTING INSTRUCTIONS

### FOR YOUR SAFETY READ BEFORE LIGHTING

**WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.**

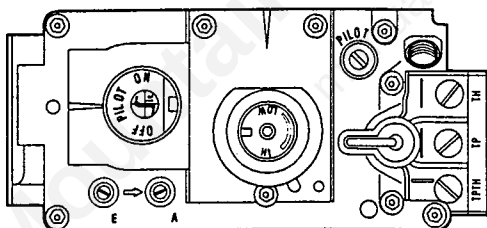
- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

#### WHAT TO DO IF YOU SMELL GAS

- Extinguish any open flame.
  - Open windows.
  - Do not light any appliance.
  - Do not touch any electrical switches.
  - Do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone.
  - If your gas supplier cannot be reached, 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, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or an 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 on this page.
2. Access the lower controls.
3. Turn ON/OFF switch to "OFF", or set the thermostat to lowest setting (If used).
4. Verify main line shut-off valve is open.
5. Push in gas control knob slightly and turn clockwise to "OFF."



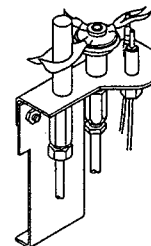
**Note:** Knob cannot be turned from "PILOT" to "OFF" unless the knob is pushed in slightly. Do not force.

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 page. If you do not smell gas, go to the next step.

7. Push in gas control knob slightly and turn counterclockwise to "PILOT."

8. Push in control knob all the way and hold in. Immediately light the pilot by triggering the spark ignitor (pushing red button) until pilot lights. Continue to hold the control knob in for about 1 ½ minutes 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 8.

- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If pilot will not stay lit after several tries, turn the control knob to "OFF" and call your service technician or gas supplier.



9. Turn gas control knob counterclockwise to "ON."
10. Turn ON/OFF switch to "ON", or set thermostat to desired setting (If used).

## TO TURN OFF GAS TO APPLIANCE

1. Turn ON/OFF switch "OFF." The pilot will remain lit for normal service.
2. For complete shutdown, turn ON/OFF switch to "OFF."
3. Access the lower controls.
4. Depress gas control knob slightly and turn clockwise to "OFF." Do not force.

## INSTRUCTIONS D'ALLUMAGE

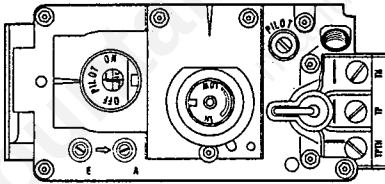
### POUR VOTRE SÉCURITÉ, LISEZ-LES AVANT L'ALLUMAGE

**AVERTISSEMENT : SI VOUS NE SUIVEZ PAS CES INSTRUCTIONS À LA LETTRE, IL POURRAIT S'ENSUIVRE UN INCENDIE OU UNE EXPLOSION CAUSANT DES DOMMAGES MATÉRIELS, DES BLESSURES CORPORELLES OU MÊME DES PERTES DE VIE.**

- A.** Cet appareil est muni d'une veilleuse qui doit être allumée à la main. Lorsque vous allumez la veilleuse, suivez exactement ces instructions.
- B. AVANT DE VOUS EN SERVIR**, sentez tout autour de l'appareil où il pourrait y avoir une odeur de gaz. Reniflez près du plancher car, le gaz étant plus lourd que l'air, il se dépose sur le plancher.
- VOICI CE QUE VOUS DEVEZ FAIRE SI VOUS DÉCELEZ UNE ODEUR DE GAZ:**
- Éteignez toutes les flammes nues.
  - Ouvrez les fenêtres.
  - N'allumez aucun appareil.
  - Ne touchez à aucun commutateur électrique.
  - Ne vous servez d'aucun téléphone dans votre édifice.
  - Appelez immédiatement votre compagnie de gaz en utilisant le téléphone d'un voisin.
  - S'il vous est impossible de contacter votre compagnie de gaz, appelez le service des incendies.
- C.** Servez-vous uniquement de votre main pour tourner ou pour enfoncer le bouton de réglage du gaz. N'employez jamais un outil. Si le bouton refuse de tourner ou de bouger, ne tentez pas de le réparer. Appelez un technicien compétent et expérimenté. Si vous essayez de le forcer ou de le réparer, vous pourriez causer un incendie ou une explosion.
- D.** Ne vous servez pas de cet appareil si l'un de ses éléments a été immergé dans l'eau. Appelez immédiatement un technicien compétent pour faire inspecter l'appareil et remplacer toute pièce du système de réglage ou commande du gaz qui a été sous l'eau.

## INSTRUCTIONS D'ALLUMAGE

- ARRÊTEZ !** Lisez les consignes de sécurité ci-dessus.
- Ouvrez le contrôle du bas.
- Tournez le bouton "On/Off" dans la position "Off" ou bien mettez le thermostat dans la position la plus basse. (ci c'est utiliser)
- Assurez-vous que la soupape d'arrêt de la canalisation principale est ouverte.
- Enfoncez légèrement le bouton de réglage du gaz et tournez-le dans le sens des aiguilles d'une montre jusqu'à la position d'arrêt "OFF".



**Remarque:** Il est impossible de tourner le bouton de "PILOT" à "OFF" à moins qu'il ne soit légèrement enfoncé. Ne le forcez pas.

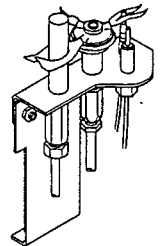
- Attendez cinq (5) minutes pour en laisser sortir le gaz, le cas échéant. Si vous décelez une odeur de gaz, ARRÊTEZ ! Retournez au point "B" des consignes de sécurité ci-dessus. Si vous ne remarquez aucune odeur de gaz, passez à l'étape suivante.
- Enfoncez légèrement le bouton de réglage du gaz et tournez-le en sens inverse des aiguilles d'une montre jusqu'à la

position de veilleuse "PILOT".

- Enfoncez le bouton de réglage jusqu'au fond et gardez-le enfoncé. Allumez immédiatement la veilleuse en déclenchant l'allume-gaz à étincelle (en poussant le bouton rouge) jusqu'à ce que la veilleuse s'enflamme. Continuez de tenir le bouton de réglage enfoncé pendant environ 90 secondes après l'allumage de la veilleuse. Relâchez le bouton et il sortira subitement. La veilleuse devrait rester allumée. Si elle s'éteint, répétez les étapes 5 à 8 inclusivement.

- Si le bouton ne sort pas automatiquement après avoir été relâché, arrêtez immédiatement et téléphonez à votre technicien de service ou à votre fournisseur de gaz.

- Si la veilleuse refuse de rester allumée après plusieurs tentatives, tournez le bouton de réglage jusqu'à sa position d'arrêt "OFF" et téléphonez à votre technicien de service ou à votre fournisseur de gaz.



- Tournez le bouton de réglage du gaz en sens inverse des aiguilles d'une montre jusqu'à sa position de marche "ON".
- Tournez le bouton dans la position "On" ou bien mettez le thermostat dans la position désirée. (ce c'est utiliser)

## POUR FERMER LE GAZ QUI ALIMENTE L'APPAREIL

- Tournez le bouton "On/Off" dans la position "Off". La veilleuse restera allumée jusqu'au retour du service normal.
- Pour éteindre complètement, tournez le bouton "On/Off" dans la position "Off".
- Ouvrez le contrôle du bas.
- Enfoncez légèrement le bouton de réglage du gaz et tournez-le dans le sens des aiguilles d'une montre jusqu'à sa position d'arrêt "OFF". Ne le forcez pas.

# Technical Bulletin



JULY 10, 1998

3DV CLASSIC, Issue 2

Jøtul North America



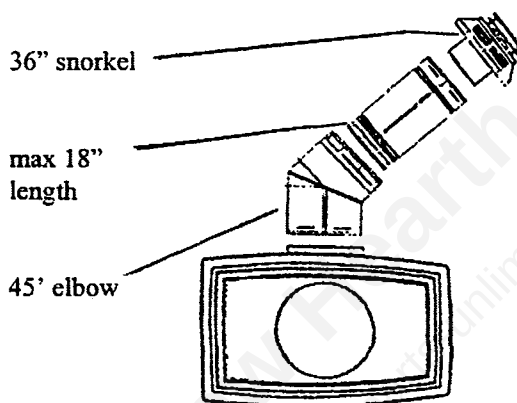
## TERRIFIC TIPS

\*Remember:  
always mini-  
mize the  
length of any  
horizontal  
runs when di-  
rect ventg.

\*Remember:  
when the 3DV  
classic gas  
stove is in-  
stalled with  
the optional  
short legs— it  
**MUST** be posi-  
tioned on non-  
combustible  
flooring.

## !!! MORE VENTING OPTIONS !!!

Jøtul would like to introduce three more venting options, that have been tested and approved for the 3DV Classic gas stove. As always, and stated in the manual (pg.2) the 3DV classic must be installed with Simpson Duravent 65/8" x 4" pipe.

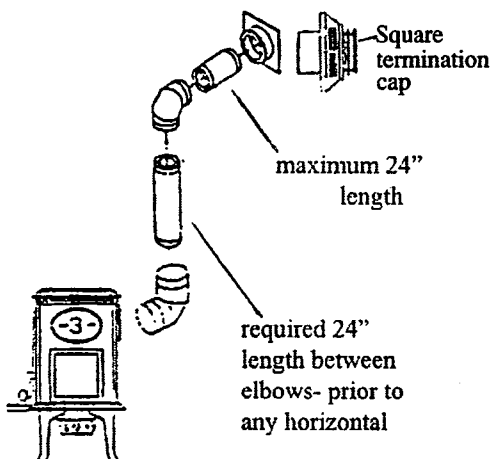
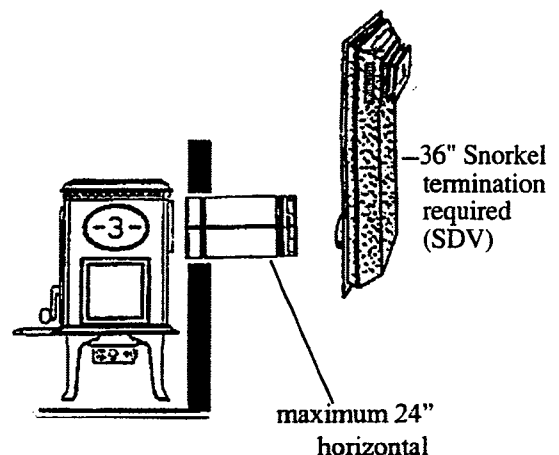


### OPTION ONE:

For kiddy corner installations, you are now able to use a 45° elbow directly off the rear of the stove >> **with up to an 18" horizontal run** >> into a 36" snorkel cap.

### OPTION TWO:

For installations where a rear exit is desired, you are now able to use **up to a 24" horizontal** directly off rear of stove >> into a 36" snorkel.



### OPTION THREE:

Minimum vent kit installations, the minimum rise off the stove has been reduced to a 24" length (#904). This minimum rise also allows you a maximum horizontal run of up to 24".

# Technical Bulletin



JUNE 27, 1998

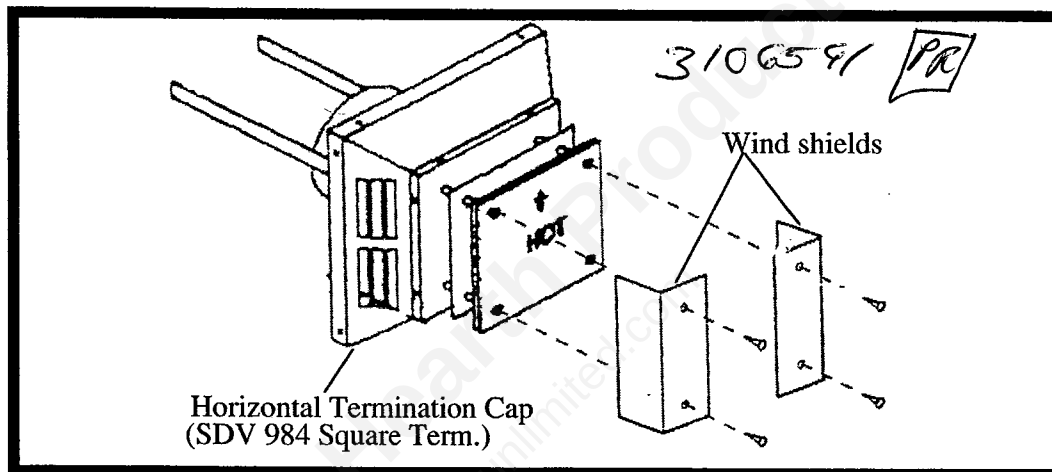
DV 3 Classic, Issue 1

Jøtul North America



## TERRIFIC TIPS

### 3DV HORIZONTAL TERMINA-



THE WIND SHIELDS INCLUDED WITH ALL 3DV STOVES (INSIDE FIRE-BOX) MUST BE INSTALLED ON ALL HORIZONTAL TERMINATIONS. THIS CAN BE DONE AS FOLLOWS:

1. POSITION ANGLE ON EACH SIDE OF TERMINATION, FLUSH WITH TOP.
2. ATTACH WITH SCREWS PROVIDED.

#### OLD PART #

07-031003N  
07-031003P  
07-031004N  
07-031004P  
07-031010  
07-031012  
07-031020  
07-031021  
07-031022  
07-031013N  
07-031013P

#### DISCRIPTION

GAS VALVE, NG  
GAS VALVE, LPG  
PILOT ASSEMBLY, NG  
PILOT ASSEMBLY, LPG  
THERMOCOUPLE  
THERMOPILE  
TOP LOG  
REAR LOG  
FRONT LOG  
NG ORFICE, #38  
LPG ORFICE, #54

#### NEW #

07-3902159  
07-3902160  
07-3902161  
07-3902162  
07-3902163  
07-3094527  
07-3902567  
07-3902568  
07-3902569  
07-3901692  
07-3096145

