

VENTED NATURAL GAS LOGS



MODELS
FNVL18-1
FNVL24-1
FNVL30-1



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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

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



Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-855-607-6557, 8:00 am - 4:30 pm CST, Monday through Friday or email contact@factorybuysdirect.com

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SAVE THIS BOOK

This is a gas-fired appliance. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to *Air For Combustion and Ventilation* section on page 6 of this manual.

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

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

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

* Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.

SPECIFICATIONS

Note: This vented appliance must be installed only in a solid-fuel burning fireplace with a working flue and constructed of noncombustible material.

The charts indicate technical information regarding the installation of your gas log set.

Please make sure that all of the specifications shown are applicable before installation is attempted.

The fireplace must include a working flue and venting system with the minimum openings shown as below.

Model	FNVL18-1	FNVL24-1	FNVL30-1
Gas Type	Natural	Natural	Natural
BTU Input*	45,000 BTU/Hr	55,000 BTU/Hr	65,000 BTU/Hr
Minimum Vent Opening	8" Diameter	8" Diameter	8" Diameter
Burner Orifice (Propane)**	205 (mm)	225 (mm)	242 (mm)

* Btu/Hr Rating is the same when unit is converted to Propane gas.

** Number is printed on orifice. Located in NVDWA2 kit when converting to Propane Gas.

FUEL INLET PRESSURE SPECIFICATIONS (W.C.)		
Natural Gas	Minimum 5.5" W.C.	Maximum 10.5" W.C.
Propane Gas*	Minimum 11" W.C.	Maximum 13" W.C.

* For use if unit is converted to Propane gas.

MINIMUM FIREBOX SIZES				
Model	Front Width*	Back Width *	Depth	Height
FNVL18-1	24"	18"	15"	18"
FNVL24-1	28"	22"	15"	18"
FNVL30-1	34"	32"	16"	19"

* Add 4" when using on/off valve safety pilot kit

SAFETY

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

Only a qualified installer, service agent, or local gas supplier may install and service this product.

⚠ WARNING: Keep flue open when operating unit.

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

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

SAFETY

⚠ WARNING: Any change to this log set or its controls can be dangerous.

⚠ WARNING: This appliance is for installation only in a solid-fuel burning masonry or factory-built fireplace, constructed of noncombustible material, and connected to a working flue.

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

1. This appliance, as supplied, is only for use with the type of gas indicated on the rating plate. This appliance is convertible for use with propane, using the manual ON/OFF safety pilot valve kit.
2. If you smell gas:
 - Shut off gas supply
 - Do not try to 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. Follow the gas supplier's instructions
 - If you cannot reach your gas supplier, call the fire department
3. Never install the log set:
 - In a recreational vehicle
 - Where curtains, furniture, clothing, or other flammable objects are less than 42" from the front, top, or sides of the log set
 - In high traffic areas
 - In windy or drafty areas
4. Before installing in a solid fuel burning fireplace, the chimney flue and fire-box must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. Inspect chimney flue for damage.
5. You must operate this log set with a fire-place screen in place. Make sure fireplace screen is closed before running log set. If the fireplace has glass doors, they must remain OPEN while this log set is in operation.
6. Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can increase sooting.
7. Do not use a blower insert, heat exchanger insert, or other accessory not approved for use with this log set.
8. This log set needs fresh, outside air ventilation to run properly. See the *Air for Combustion and Ventilation*, page 6.
9. Do not run log set
 - where gasoline, flammable liquids and vapors are used or stored
 - under dusty conditions
10. Do not burn solid fuel in the fireplace after installing the log set. Do not use this log set to cook food or burn paper or other objects.
11. Log set becomes very hot when in use. Keep children and adults away from hot surface to avoid burns or clothing ignition. Log set will remain hot for a short time after shut-down. Allow surface to cool before touching.
12. Carefully supervise young children when they are in the room with log set.
13. Do not use appliance if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the room appliance and to replace any part of the control system (if using control system) and any gas control which has been under water.
14. To help prevent breakage, new logs must go through the curing process (see *Curing Logs*, page 13).
15. Turn log set off and let cool before servicing, installing, or repairing. Only a qualified service person should install, service, or repair log set.

PRODUCT FEATURES

ON/OFF SAFETY PILOT VALVE KIT WITH PROPANE CONVERSION

An optional on/off valve/safety pilot kit, Model NVDWA2, is available to convert this appliance for use with propane gas. This system requires no matches, batteries, or other sources to light. Follow the instructions provided with the kit to complete the conversion and qualified connection to a propane gas supply, See Check Gas Type under INSTALLATION, on page 6.

LOCAL CODES

Install and use heater with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code, ANSI Z223.1/NFPA 54**.

*Available from:

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

National Fire Protection Association, Inc.
1 Batterymarch Park
Quincy, MA 02269-9101

State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

Sellers of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

In the State of Massachusetts the gas cock must be a T-handle type. The State of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.

UNPACKING

CAUTION: Do not remove the metal data plates from the burner pan. The data plates contain important product information.

1. Remove logs, hearth kit, pan materials, and hardware from carton.
2. Remove all protective packaging applied to logs and base for shipment.
3. Check all items for any shipping damage. If damaged, promptly inform dealer where you bought the product.

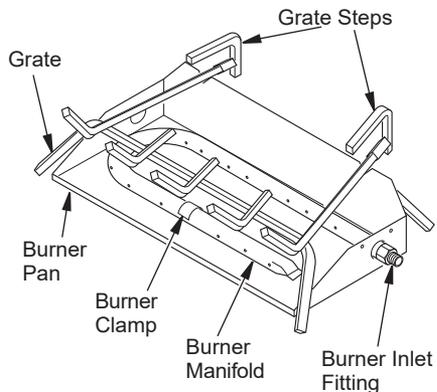


Figure 1 - Product Identification

AIR FOR COMBUSTION AND VENTILATION

⚠ WARNING: If the area in which the heater may be operated does not meet the required volume for indoor combustion air, combustion and ventilation air shall be provided by one of the methods described in the *National Fuel Gas Code, ANSI Z223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes.*

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

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

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

⚠ WARNING: Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes, and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney flue for damage.

NOTICE: Installation, service, and repair of this appliance must be performed by a qualified installer, service agency, company or gas supplier experienced with this type of gas appliance. Only factory authorized components listed in these instructions may be used in accordance with the manufacturer's instructions and all codes and requirements of the authority having jurisdiction. Any modifications to this kit, or use of unauthorized components, or accessory items, will void the manufacturer's warranty, and may result in a hazardous condition.

⚠ CAUTION: Do not remove the metal data plates attached to the burner pan. The data plates contain important warranty information.

INSTALLATION

CHECK GAS TYPE

Use only natural gas. If your available supply is propane gas, you must install an NVDWA2 On/Off Safety Pilot Valve Kit (see Accessories, page 15). Once conversion is completed mark with an "X" in the box shown on the Propane Conversion tag provided, to indicate that your model has been converted for use with propane gas.

If the fireplace does not have a gas supply shutoff valve, one must be installed.

VENTING SPECIFICATIONS FOR INSTALLATION

The fireplace chimney flue and vent must be drafting properly. To check the vent for proper drafting, light a tightly rolled newspaper on one end and place it at the inside front edge of the fireplace. Observe the smoke and be sure the vent is properly drawing it up the chimney.

If the smoke spills out into the room, extinguish the flame and remove any obstruction until proper venting is achieved. The chimney flue must remain open a minimum of 3" at all times during the operation of this log set.

INSTALLATION

INSTALLING DAMPER CLAMP

Secure the damper stop clamp provided to the leading edge of the damper as shown in Figure 2. If for any reason this clamp doesn't work on your fireplace, another suitable clamp or permanent stop must be installed, or the damper blade must be cut or removed.

The chimney damper must be **FIXED** in an manner that will maintain the minimum permanent vent opening at all times.

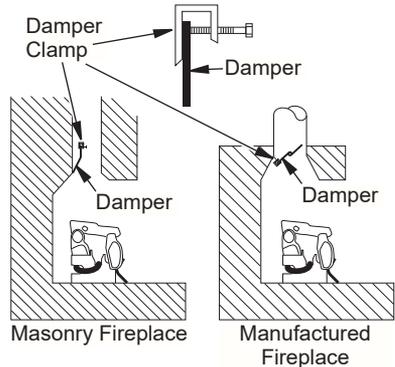


Figure 2 - Attaching Damper Clamp

HEARTH KIT ASSEMBLY

Note: The following instructions apply to dual flame "U" style burners. Be sure all pipe threaded connections are tight, and have thread compound to prevent leaks.

1. Determine which side the gas line will be coming into the fireplace.

Gas line is on the right side. This unit is manufactured with the gas inlet on the right side of the burner pan. See [Connecting to Gas Supply](#), page 8.

Gas line is on the left side. If your gas line will be coming into the fireplace from the left side, continue with step 2.

2. Using a screwdriver, remove cover plate on left side of burner pan (see Figure 3).
3. Unscrew burner inlet fitting from burner manifold (see Figure 3).
4. Place burner manifold in pan with threaded opening facing opening on left side.
5. Using thread sealant (resistant to the action of natural gas) on larger end of fitting, screw the burner inlet fitting through hole and into burner manifold. Tighten using a wrench.
6. Using burner clamp, screw, and nut provided, assemble clamp to pan. This will hold the burner manifold in place.
7. Using screws removed in step 2, install cover plate over opening on right side of burner pan.
8. If using optional control system kit, follow instructions included with kit for installation and operation.

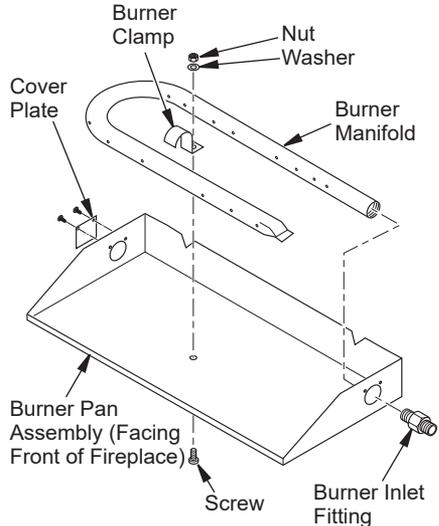


Figure 3 - Installing Burner

INSTALLATION

Installation and Gas Connection

1. Place the burner pan assembly in the center of the fireplace floor. Make sure the front of pan faces forward.
2. Thread the gas supply fitting to the fireplace gas supply pipe. Use thread sealant.
3. Install adapter fitting onto the burner inlet fitting using thread sealant on male threads of burner inlet fitting (see Figure 4).
4. Install the gas connector tube to the gas supply fitting. Carefully shape tube to attach to adapter fitting.

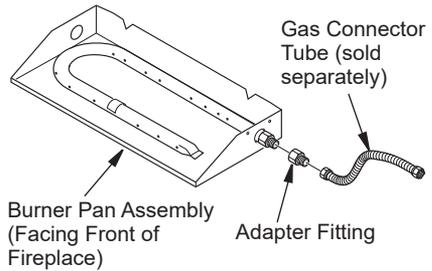


Figure 4 - Connecting Gas to Appliance

CONNECTION TO GAS SUPPLY

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

Installation Items Needed

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

- piping (check local codes)
- sealant (resistant to natural gas)
- equipment shutoff valve
- test gauge connection
- adjustable (crescent) wrench or pliers
- sediment trap
- tee joint
- pipe wrench

CAUTION: Only use a new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to log set. If pipe is too small, loss of pressure will occur.

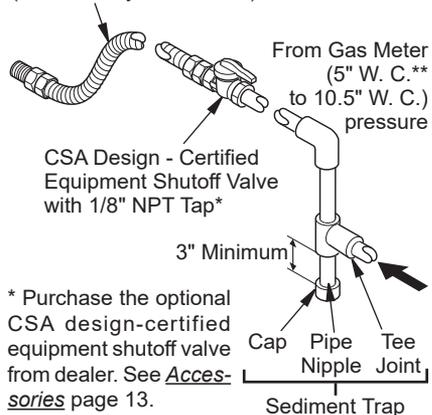
Installation must include an equipment shutoff valve, union, and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from log set (see Figure 5).

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

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

Install sediment trap in supply line as shown in Figure 5. Locate sediment trap where it is within reach for cleaning. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into log set controls. If sediment trap is not installed or is installed incorrectly, log set may not run properly.

Approved Flexible Gas Hose
(if allowed by local codes)



* Purchase the optional CSA design-certified equipment shutoff valve from dealer. See [Accessories](#) page 13.

** Minimum inlet pressure for purpose of input adjustment.

Figure 5 - Gas Connection

INSTALLATION

CHECKING GAS CONNECTIONS

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

⚠ WARNING: Never use an open flame to check for a leak. Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks immediately.

PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

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

1. Disconnect heater with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 PSIG will damage heater regulator.
2. Cap off open end of gas pipe where equipment shutoff valve was connected.
3. Pressurize supply piping system by either using compressed air or opening gas supply tank valve.
4. Check all joints of gas supply piping system. Apply a noncorrosive leak detection fluid to gas joints. Bubbles forming show a leak.
5. Correct all leaks immediately.
6. Reconnect log set and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

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

1. Close equipment shutoff valve (see Figure 6).
2. Pressure supply piping system by either using compressed air or opening gas supply tank valve.
3. Check all joints from gas meter to equipment shutoff valve (see Figure 7). Apply a noncorrosive leak detection fluid to gas joints. If bubbles form, there may be a leak.
4. Correct all leaks immediately.

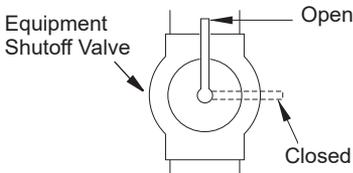


Figure 6 - Equipment Shutoff Valve

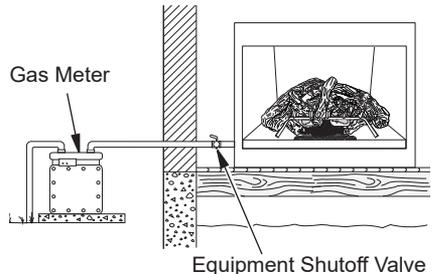


Figure 7 - Checking Gas Joints

INSTALLATION

TESTING BURNER FOR LEAKS

⚠ WARNING: Never check for gas leaks with open flame.

1. Generously apply a noncorrosive leak detection fluid to all connections.
2. Light the burner with the shutoff valve, no more than half open, and holding a match slightly in front of the pan (see *Lighting Instructions*, page 13).
3. Inspect all connections for bubbles, raw gas odor, or flame from any area other than the burner (leaks). If leaks are detected, shut off the gas valve immediately. Tighten, or reassemble the loose connection(s) using pipe joint compound until burner system is leak free.

4. When the burner is tested and leak free, observe the individual tongues of flame on the burner.

Note: Let the burner manifold cool first before removing to unclog port blockages. The burner design includes more ports on the outside of the bar. Make sure that all ports are clear and producing flame evenly across the burner. If any ports appear blocked, clear them by removing the burner manifold and reaming the ports with a modified paper clip or other suitable tool.

5. When finished testing, turn the gas shutoff valve OFF to extinguish all flames.

INSTALLING LOGS

⚠ WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

It is very important to install the logs exactly as instructed. Do not modify logs. Use only logs supplied with heater.

Each log is marked with a number. This number will help you to identify the logs when installing.

After installing logs, add decorative cinders around the grate base, do not place any decorative cinders on logs or burner.

MODEL FNVL18-1

1. Place vermiculite into burner pan. Pull glowing ember loosely, and sprinkle uniformly on the surface of vermiculite as shown below.
2. Install grate steps (see Figure 8).

3. Place log #1 on the grate steps.
4. Place log #2 on the left, front of the grate base.
5. Place log #3 on the right, front of the grate base.

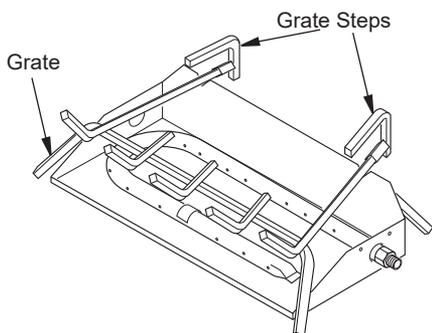


Figure 8 - Grate Steps



Figure 9

INSTALLATION

6. Place log #4 on log #1 and log #2.
7. Place log #5 on log #1 and log #2.
8. Place log #6 on log #1 and log #3.

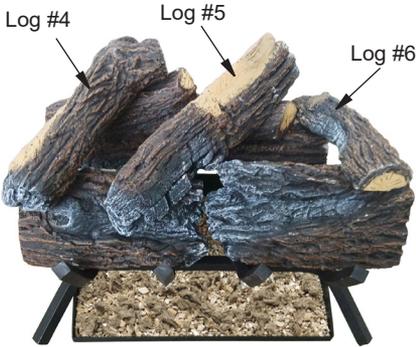


Figure 10

9. Place log #7 on log #5 and log #3.
10. Place log #8 on log #4 and log #5.



Figure 11

MODEL FNVL24-1

1. Place vermiculite into burner pan. Pull glowing ember loosely, and sprinkle uniformly on the surface of vermiculite as shown below.
2. Install grate steps (see Figure 8, page 10).
3. Place log #1 on the grate steps.
4. Place log #2 on the left, front of the grate base.
5. Place log #3 on the right, front of the grate base.

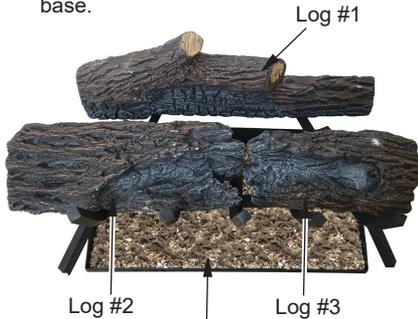


Figure 12

6. Place log #4 on log #1 and log #3.
7. Place log #5 on log #1 and log #2.
8. Place log #6 on log #1 and log #2.

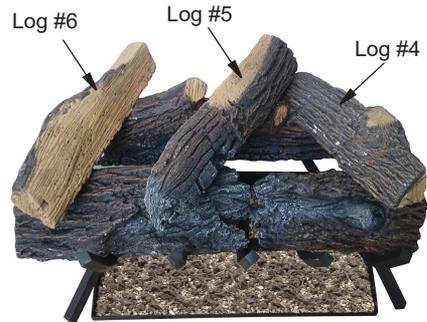


Figure 13

9. Place log #7 on log #4 and log #2.
10. Place log #8 on log #5 and log #3.
11. Place log #9 on log #6 and log #5.

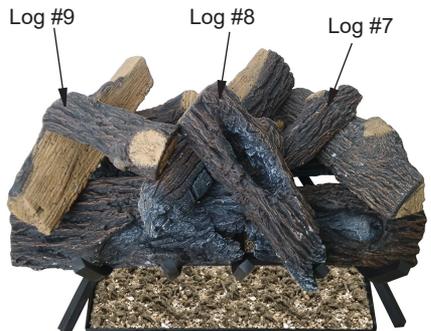


Figure 14

INSTALLATION

MODEL FNVL30-1

1. Place vermiculite into burner pan. Pull glowing ember loosely, and sprinkle uniformly on the surface of vermiculite as shown below.
2. Install grate steps (see Figure 8, page 10).
3. Place log #1 on the grate steps.
4. Place log #2 on the left, front of the grate base.
5. Place log #3 on the right, front of the grate base.

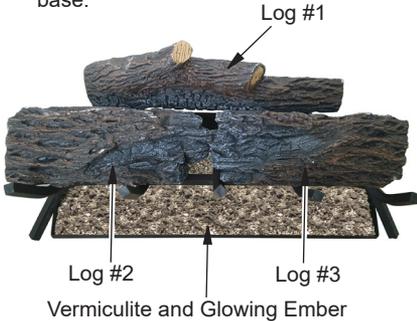


Figure 15

6. Place log #4 on log #1 and log #2.
7. Place log #5 on log #1 and log #2.
8. Place log #6 on log #5 and log #3.
9. Place log #7 on log #1 and log #3.

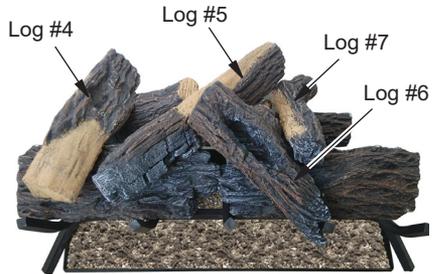


Figure 16

10. Place log #8 on log #1 and log #3.
11. Place log #9 on log #4 and log #5.
12. Place log #10 on log #7 and log #8.

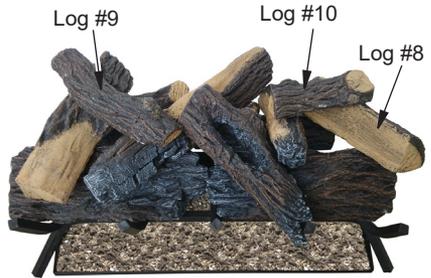


Figure 17

OPERATION

FOR YOUR SAFETY READ BEFORE LIGHTING

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

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

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.

- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

MANUAL LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above.
2. Turn the gas shutoff valve to OFF.
3. Wait five (5) minutes to clear out any gas. If you still smell gas, STOP! Follow the safety information above. If you don't smell gas, go on to the next step.
4. Light a match and lay it on top of the pan material about 2" from the end of the supply side of the pan.
5. Slowly turn the gas shutoff valve ON until the burner ignites. If the burner doesn't ignite within 10 seconds with the match burning, turn the shutoff valve OFF and repeat steps 1 through 4 again.

GAS SHUTOFF VALVE OPERATION

Flame Adjustment

Adjust the flame ON/OFF by turning the gas shutoff valve counterclockwise  to open or clockwise  to close, as necessary.

Shutting Off Appliance

Turn gas shutoff valve clockwise  to the OFF position.

CURING LOGS

NOTICE: During initial operation, logs will give off a paper-burning smell. Orange flame may also be present. This will only last a few hours.

During the 2-3 hour appliance curing period, you may detect an odor from the appliance as the various paints and compounds used in the manufacturing of this log set cure. This is a normal and temporary situation that is not cause for alarm. However, you may want to provide extra ventilation to the room during this time.

To ensure proper curing of the logs:

- Ignite a 2" flame and maintain it for 1 hour.
- Burn the logs in consecutive 1 hour periods raising the flame an additional 2" to full flame height for a total of three hours.

LIGHTING INSTRUCTIONS (IF USING NVDWA2 PILOT KIT)

⚠ WARNING: It is recommended that you operate this appliance with the fireplace screen in place. Make sure screen is installed before running appliance.

1. STOP! Read the safety information above and top of page 13.
2. Make sure control knob is in the OFF position. If not, push knob in slightly and turn clockwise  to the OFF position. NOTE: Manual control knob cannot be turned from PILOT to OFF unless knob is pushed slightly. Do not force.
3. Make sure equipment shutoff valve is fully open.
4. Wait 5 minutes to clear out any gas. Then smell for gas around appliance and near the floor. If you smell gas, STOP! Follow "B" in the safety information, page 13. If you do not smell gas, go to the next step.
5. Push in control knob slightly and turn counterclockwise  to the PILOT position. Keep control knob pressed in for five seconds.

Note: The first time the appliance is operated after connecting the gas supply, the control knob should be pressed for about 30 to 60 seconds. This will allow air to bleed from the gas system. If pilot does not stay lit, refer to [Troubleshooting](#), pages 17 through 18. Also contact a qualified service technician or gas supplier for repairs. If the ignitor or electrode are not working properly and until repairs are made, light pilot with match.

- If control knob does not pop up when released, contact a qualified service technician or gas supplier for repairs.
6. With control knob pressed in, push down and hold ignitor button for a few seconds. This will light the pilot. The pilot is attached to the side of the burner. If needed keep pressing ignitor button until pilot lights. *Note: If pilot does not stay lit, refer to [Troubleshooting](#), pages 17 through 18. Also contact a qualified service technician or gas supplier for repairs. To light pilot with match, see [Manual Lighting Procedure](#), page 15.*

7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. If control knob does not pop up when released, contact a qualified service person or gas supplier for repairs.

Note: "If pilot goes out, repeat steps 3 through 7. This appliance has a safety interlock system. Wait one (1) minute before lighting pilot again.

8. To light the burner, partially press down the control knob slightly and rotate counterclockwise . Release the downward pressure on the knob while continuing to turn until the knob locks in the ON position. The main burner should ignite. Do not operate between locked positions.
9. Make sure fireplace screen is in place before operating appliance.
10. If appliance will not operate, follow the instructions [To Turn Off Gas To Appliance](#), page 15, and call your service technical or gas supplier.

⚠ CAUTION: The NVDWA2 appliance pilot safety valve may be used to adjust the flame heating levels. Do not try to adjust heating levels by using the manual supply shutoff valve.

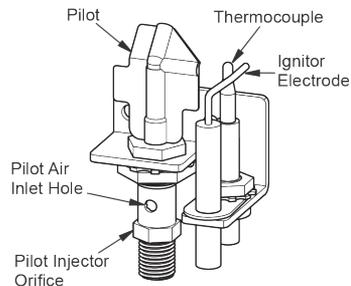


Figure 18 - Pilot

TO TURN OFF GAS TO APPLIANCE

(IF USING NVDWA2 PILOT KIT)

Shutting Off Appliance

1. Push in control knob slightly and turn clockwise  to the OFF position. Do not force.
2. Close equipment shutoff valve.

Shutting Off Burner Only (pilot stays lit)

Push in and turn knob clockwise  to the PILOT position.

MANUAL LIGHTING INSTRUCTIONS

(IF USING NVDWA2 PILOT KIT)

1. Open Fireplace Screen (If applicable).
2. Follow steps 1 through 7 under [Lighting Instructions](#), page 14.
3. With control knob in the PILOT position, strike a match, and hold near pilot. Press in control knob; pilot should light.
4. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
5. Make sure the fireplace screen is in place before operating fireplace.

INSPECTING BURNERS

IMPORTANT: Owner's should check pilot flame pattern and burner flame pattern often. Incorrect flame patterns indicate the need for cleaning.

⚠ WARNING: Only a qualified service person should service and repair fireplace. This includes maintenance requiring replacement or alteration of components.

BURNER FLAME PATTERN

The burner flames should rise approximately 3" to 6" above the burner.

Figure 19 shows a correct burner flame pattern. Figure 20 shows an incorrect burner flame pattern

(actual logs will vary from those shown). If burner flame pattern is incorrect then:

- turn fireplace off (see [Gas Shut Off Valve Operation](#), page 13 or [To Turn Off Gas to Appliance](#), page 15).
 - see [Troubleshooting](#) pages 17 through 18
- More Than 8" Above Top of Logs

Approx. 3"-6" Above Top of Logs

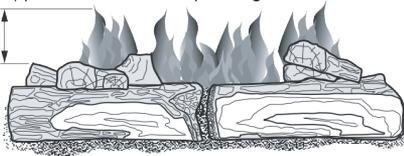


Figure 19 - Correct Burner Flame Pattern



Figure 20 - Incorrect Burner Flame Pattern

BURNER PRIMARY AIR HOLES

Air is drawn into the burner through the holes in the fitting at the entrance to the burner. These holes may become blocked with dust or lint. Periodically inspect these holes for any blockage and clean as necessary. Blocked air holes will create soot.

INSPECTING BURNERS

PILOT FLAME PATTERN (IF USING NVDWA2 PILOT KIT)

Figure 21 shows a correct and incorrect pilot flame patterns. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool, which shuts the fireplace off. There should not be excessive flames present under pilot shield. If unit has been converted to propane gas and the pilot injector orifice has not been replaced, there will be excessive pilot flames. Install propane injector orifice if this is the case.

- If pilot flame pattern is incorrect, as shown
- turn fireplace off (see [To Turn Off Gas to Appliance](#), page 15)
 - see [Troubleshooting](#) pages 17 through 18.

Notice: Do not mistake orange flames with yellow tipping. Dirt or other fine particles enter the fireplace and burn causing brief patches of orange flame.

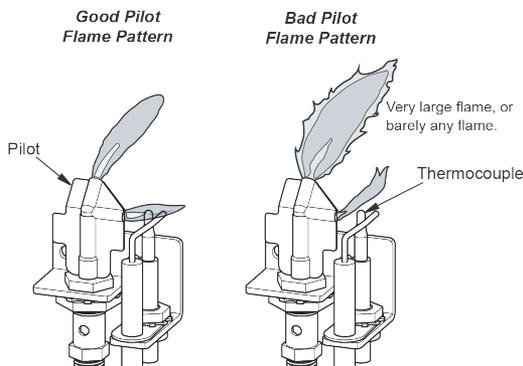


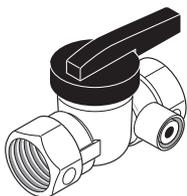
Figure 21 - Pilot Flame Pattern

CARE AND MAINTENANCE

- Keep the area around the log set clean and clear of debris.
- Occasionally, you may use a soft bristle brush to clean logs.
- Once every year a qualified agency or certified chimney sweep should examine and clean the venting system of the fireplace.

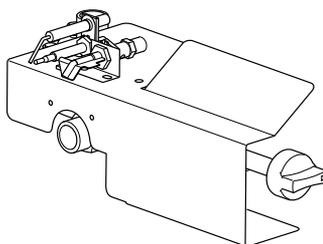
ACCESSORIES

Please visit us online at www.factorybuysdirect.com to learn more about all of the available accessories.



EQUIPMENT SHUTOFF VALVE

For all models. Equipment shutoff valve with 1/8" NPT tap. Fits 1/2" NPT pipe.



NVDWA2 - ON/OFF SAFETY PILOT VALVE KIT

For all models. Required for propane installation.

TROUBLESHOOTING

⚠ WARNING: If you smell gas:

- Shut off gas supply.
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

⚠ WARNING: Only a qualified service technician should service and repair heater. Make sure that power is turned off before proceeding. Turn off and let cool before servicing.

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

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

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

Problem	Possible Cause	Corrective Action
Log set is smoking/ soot-ing excessively <i>Note: It is natural and unavoidable for vented gas log sets to produce moderate levels of carbon (soot) where flames contact the logs.</i>	<ol style="list-style-type: none"> 1. Poor fuel quality. 2. Fireplace venting system not drafting properly. 3. Excessive flame impingement or blockage. 4. Improper fuel/air mixture. 5. Excessive gas supply/ pressure. 	<ol style="list-style-type: none"> 1. Contact local natural gas company. 2. Adjust damper wide open and/or have fireplace and venting professionally cleaned and checked. 3. Separate the logs to allow more flame passage. 4. Remove any foreign items from the flame pattern. 5. Preheat flue in very cold weather.
Burner is excessively noisy. <i>Note: The movement and combustion of gas will create low, unavoidable levels of noise.</i>	<ol style="list-style-type: none"> 1. Passage of air/gas across irregular surfaces. 	<ol style="list-style-type: none"> 1. Relieve any tight bends or kinks in gas supply line.
Burner flame is too low or too high.	<ol style="list-style-type: none"> 1. Incorrect gas supply or pressure. 2. Blocked burner orifice or burner manifold ports. 3. Improper burner orifice size. 	<ol style="list-style-type: none"> 1. Check for proper gas supply pressure. 2. Free burner orifice and manifold ports of any burrs, paint, or other blockage. 3. Verify proper burner orifice sizing (see page 3).

TROUBLESHOOTING

Problem	Possible Cause	Corrective Action
Log set produces a clicking/ticking noise just after burner is lit or shut off.	1. Metal expanding while heating or contracting while cooling.	1. This is common with most log sets. If noise is excessive, contact qualified service person.
Log set produces unwanted odors.	1. Log Set burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See IMPORTANT statement page 14). 2. Gas leak. See Warning statement page 14.	1. Open flue to maximum. Stop using odor causing products while log set is running. 2. Locate and correct all leaks (see <u>Checking Gas Connections</u> , page 9).
Gas odor even when control knob is in OFF position.	1. Gas leak. See Warning statement page 14. 2. Control valve defective	1. Locate and correct all leaks (see <u>Checking Gas Connections</u> , page 9). 2. Replace control valve.
Gas odor during combustion.	1. Gas leak. See Warning statement at top of page 14.	1. Locate and correct all leaks (see <u>Checking Gas Connections</u> , page 9).

REPLACEMENT PARTS

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

PARTS UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement parts, call Customer Service toll free at 1-855-607-6557 for referral information.

When calling Customer Service or your dealer, have ready:

- Your name
- Your address

- Model and serial number of your heater
- How heater was malfunctioning
- Type of gas supply and Propane tank size
- Purchase date

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

PARTS NOT UNDER WARRANTY

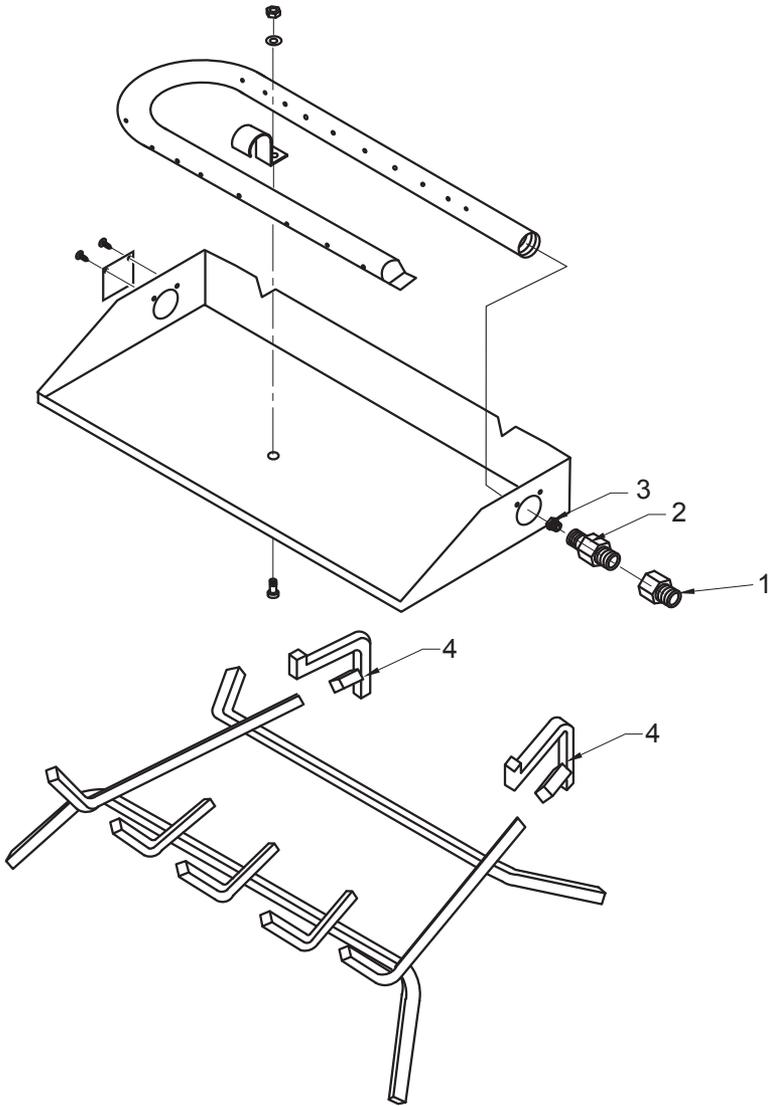
Contact authorized dealers of this product. If they can't supply original replacement part(s) call Customer Service toll free at 1-855-607-6557 for referral information.

When calling Customer Service have ready:

- Model number of your heater
- The replacement part number

PARTS

MODELS FNVL18-1, FNVL24-1 AND FNVL30-1



PARTS

MODELS FNVL18-1, FNVL24-1 AND FNVL30-1

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under Replacement Parts on page 17 of this manual.

ITEM	FNVL18-1	DESCRIPTION	QTY
1	**BL050-01	3/8" Female x 5/8" Flare Adapter	1
2	**WAL06-01	Injector Mounting	1
3	**WAL07-01N	Injector	1
4	**WAB18-01	Grate Step	2
PARTS AVAILABLE - NOT SHOWN			
	WAL11-01	Vermiculite	1
	GLEMVERM25	Glowing Embers	1
	FN18L103B	Log Assembly	1
	FNVL18-1-1	Log 1	1
	FNVL18-1-2	Log 2	1
	FNVL18-1-3	Log 3	1
	FNVL18-1-4	Log 4	1
	FNVL18-1-5	Log 5	1
	FNVL18-1-6	Log 6	1
	FNVL18-1-7	Log 7	1
	FNVL18-1-8	Log 8	1
	WAN300B	Hardware Package	1
	WAB03	Damper Clamp	1

ITEM	FNVL24-1	FNVL30-1	DESCRIPTION	QTY
1	**BL050-01	**BL050-01	3/8" Female x 5/8" Flare Adapter	1
2	**WAL06-01	**WAL06-01	Injector Mounting	1
3	**WAL07-02N	**WAL07-03N	Injector	1
4	**WAB18-01	**WAB18-01	Grate Step	2
PARTS AVAILABLE - NOT SHOWN				
	WAL11-01	WAL11-01	Vermiculite	1
	GLEMVERM25	GLEMVERM25	Glowing Embers	1
	FN24L102B	FN30L102B	Log Assembly	1
	FNVL24-1-1	FNVL30-1-1	Log 1	1
	FNVL24-1-2	FNVL30-1-2	Log 2	1
	FNVL24-1-3	FNVL30-1-3	Log 3	1
	FNVL24-1-4	FNVL30-1-4	Log 4	1
	FNVL24-1-5	FNVL30-1-5	Log 5	1
	FNVL24-1-6	FNVL30-1-6	Log 6	1
	FNVL24-1-7	FNVL30-1-7	Log 7	1
	FNVL24-1-8	FNVL30-1-8	Log 8	1
	FNVL24-1-9	FNVL30-1-9	Log 9	1
	---	FNVL30-1-10	Log 10	1
	WAN300B	WAN300B	Hardware Package	1
	WAB03	WAB03	Damper Clamp	1

** Not a field replaceable part.

WARRANTY

KEEP THIS WARRANTY

Model _____

Serial No. _____

Date Purchased _____

Keep receipt for warranty verification.

REGISTER YOUR PRODUCT AT WWW.FACTORYBUYSDIRECT.COM

FACTORY BUYS DIRECT LIMITED WARRANTIES

New Products

Standard Warranty: Factory Buys Direct warrants this new product and any parts thereof to be free from defects in material and workmanship for a period of one (1) year from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with Factory Buys Direct's warnings and instructions.

For products purchased for commercial, industrial or rental usage, this warranty is limited to 90 days from the date of first purchase.

Factory Reconditioned Products

Limited Warranty: Factory Buys Direct warrants factory reconditioned products and any parts thereof to be free from defects in material and workmanship for a period 30 days from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with Factory Buys Direct's warnings and instructions. No return will be authorized. Parts will be provided to repair the product.

Terms Common to All Warranties

The following terms apply to all of the above warranties:

Always specify model number and serial number when contacting the manufacturer. To make a claim under this warranty, the bill of sale or other proof of purchase must be presented.

This warranty is extended only to the original retail purchaser when purchased from an authorized dealer, and only when installed by a qualified installer in accordance with all local codes and instructions furnished with this product.

This warranty covers the cost of part(s) required to restore this product to proper operating condition and an allowance for labor when provided by a Factory Buys Direct Authorized Service Center or a provider approved by Factory Buys Direct. Warranty parts must be obtained through authorized dealers of this product and/or Factory Buys Direct who will provide original factory replacement parts. Failure to use original factory replacement parts will void this warranty.

Traveling, handling, transportation, diagnostic, material, labor and incidental costs associated with warranty repairs, unless expressly covered by this warranty, are not reimbursable under this warranty and are the responsibility of the owner.

Excluded from this warranty are products or parts that fail or become damaged due to misuse, accidents, improper installation, lack of proper maintenance, tampering or alteration(s).

This is Factory Buys Direct's exclusive warranty, and to the full extent allowed by law; this express warranty excludes any and all other warranties, express or implied, written or verbal and limits the duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose to one (1) year on new products and 30 days on factory reconditioned products from the date of first purchase.

Factory Buys Direct makes no other warranties regarding this product.

Factory Buys Direct's liability is limited to the purchase price of the product and Factory Buys Direct shall not be liable for any other damages whatsoever under any circumstances including direct, indirect, incidental, or consequential damages.

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

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



**FACTORY
BUYS
DIRECT.COM**

Factory Buys Direct.com
Bowling Green, KY 42101
1-855-607-6557

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