

VENT-FREE GAS LOG SET

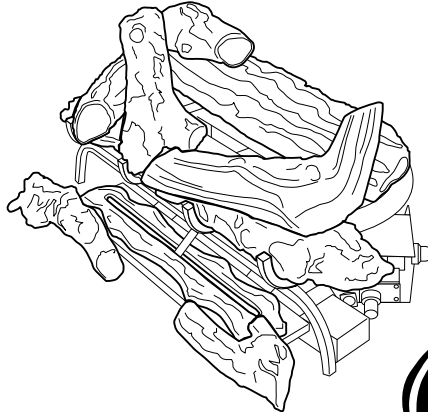
MODEL # VFL2-VO24DR
VFL2-RO24DR
VFL2-VO30DR
VFL2-RO30DR
VFL2-MO24DR
VFL2-MO30DR

Patent Pending Dual
Fuel System



ANS Z21.11.2 2013

⚠ WARNING: This appliance is equipped for (Natural and Propane) gas. Field conversion is not permitted other than between natural or propane gases.



Dual Fuel

⚠ CAUTION - FOR YOUR SAFETY

⚠ 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 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.

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to Air For Combustion and Ventilation section on page 8 of this manual.

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

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 propane or natural gas. This appliance is equipped with a simple means to switch between propane and natural gas. Field conversion by any other means including the use of a kit is not permitted.

⚠ The Installation instructions for an appliance for installation on combustible flooring shall specify that when the appliance is installed directly on carpeting, tile or other combustible material, other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.



Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-877-447-4768, 8:30 a.m. – 4:30 p.m., CST, Monday – Friday or email us at customerservice@ghpgroupinc.com.

80-10-443 - 2018-06-01

CARE AND MAINTENANCE

BURNER FLAME PATTERN

Figure 31 shows a correct burner flame pattern. Figure 32 shows an incorrect burner flame pattern. The incorrect burner flame pattern shows sporadic, irregular flame tipping. The flame should not be dark or have an orange/reddish tinge.

Note: When using the heater the first time, the flame will be orange for approximately one hour until the log cures.

If burner flame pattern is incorrect, as shown in Figure 32

- turn heater off (see To Turn Off Gas to Appliance, page 24).
- see Troubleshooting, page 34.

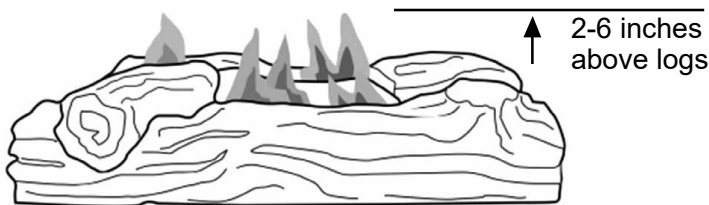


Fig. 31 - Correct/Normal Flame Pattern with short flames

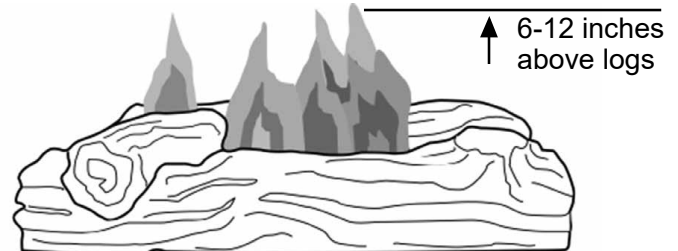


Fig. 32 - Incorrect/Abnormal Flame Pattern with tall flames

⚠ WARNING: Turn off heater and let cool before servicing.

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

⚠ WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

BURNER ORIFICE HOLDER AND PILOT AIR INLET HOLE

The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, lint and pet hair. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every three months during operation and have heater inspected yearly by a qualified service person.

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

CARE AND MAINTENANCE

1. Shut off unit including pilot. Allow unit to cool for at least 30 minutes.
2. Inspect burner, pilot and primary air inlet holes on orifice holder for dust and dirt (See Fig. 33).
3. Blow air through the ports/slots and holes in the burner.
4. Check the orifice holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint or pet hair with a soft cloth or vacuum cleaner nozzle.
5. Blow air into the primary air holes on the orifice holder.
6. In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4. Clean the pilot assembly also. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about 2" from where the pilot flame comes out of the pilot assembly (see Figure 34 depending on model). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available.

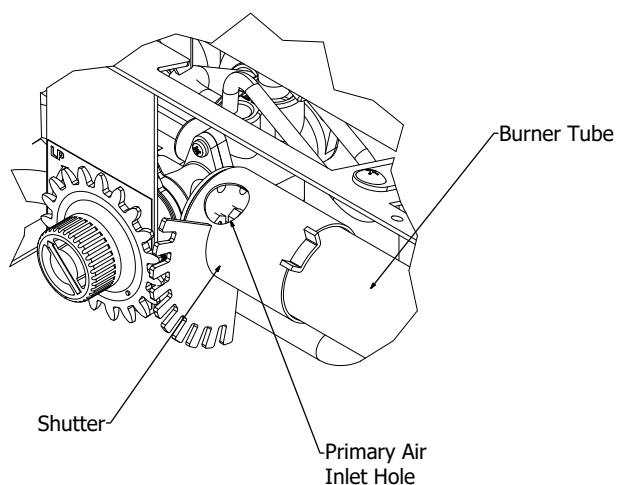


Fig. 33 - Primary Air Inlet Slot on Burner Tube

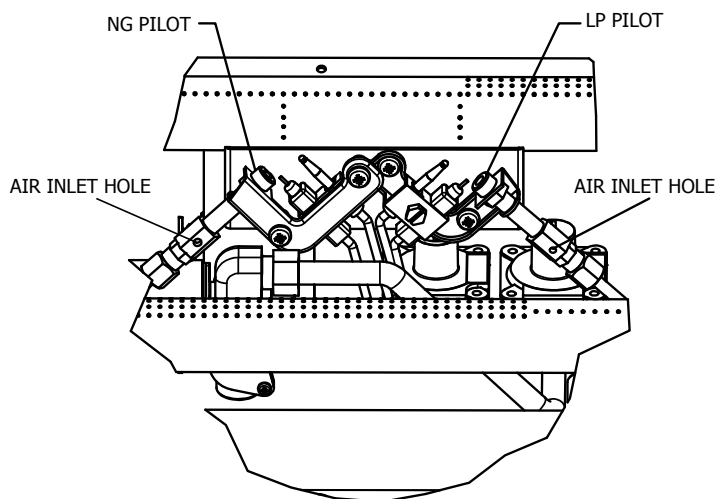


Fig. 34 - Pilot Inlet Air Hole (Propane/LP Gas)

LOG SET

- If you remove the log set for cleaning, refer to page 21, for placement instructions.
- Replace log set if broken or chipped (dime sized or larger).

CABINET

Air Passageways

Use a vacuum cleaner or pressurized air to clean.

Exterior

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

TROUBLESHOOTING

⚠ WARNING: If you smell gas:

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

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

⚠ WARNING: Make sure that power is turned off before proceeding.

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

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

SERVICE HINTS

When Gas Pressure Is Too Low

- pilot will not stay lit
- burners will have delayed ignition
- heater will not produce specified heat
- for propane/LP units, propane/LP gas supply may be low

You may feel your gas pressure is too low. If so, contact your local natural or propane/LP gas supplier.

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
There is a sputtering sound coming from the Liquid Propane pilot that is a nuisance. When operating on Natural Gas (NG) and the NG pilot is lit.	1. Use of Natural Gas.	1. Call Customer Service.
When ignitor button is pressed in, there is no spark at ODS/ pilot.	1. Ignitor electrode is positioned wrong. 2. Ignitor electrode is broken. 3. Ignitor electrode is not connected to ignitor cable. 4. Ignitor cable is pinched or wet. 5. Damaged ignitor cable. 6. Bad push button ignitor. 7. Bad Battery.	1. Replace electrode. 2. Replace electrode. 3. Replace ignitor cable 4. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry. 5. Replace ignitor cable. 6. Replace push button ignitor. 7. Check Battery and replace if needed.
When ignitor button is pressed in, there is a spark at ODS/ pilot but no ignition.	1. Gas supply is turned off or equipment shutoff valve is closed. 2. Control knob not fully pressed in while pressing ignitor button. 3. Air in gas lines when installed. 4. ODS / pilot is clogged. 5. Gas regulator setting is not correct. 6. Control knob not in PILOT position. 7. Depleted gas supply (propane).	1. Turn on gas supply or open equipment shutoff valve. 2. Fully press in control knob while pressing ignitor button. 3. Continue holding down control knob. Repeat igniting operation until air is removed. 4. Clean ODS/pilot (see Care and Maintenance, page 25 & 26) or replace ODS/pilot assembly. 5. Replace gas regulator. 6. Turn control knob to PILOT position. 7. Contact local propane/LP gas company.

TROUBLESHOOTING

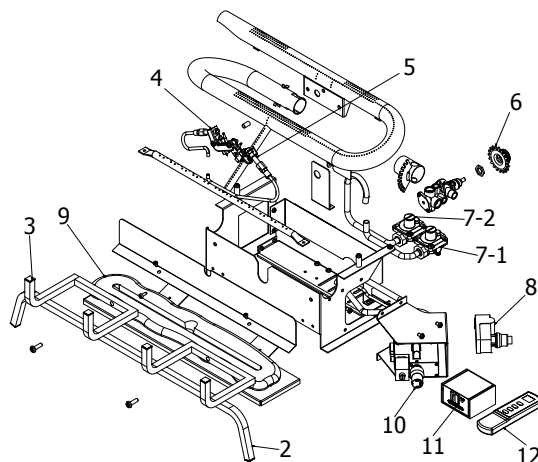
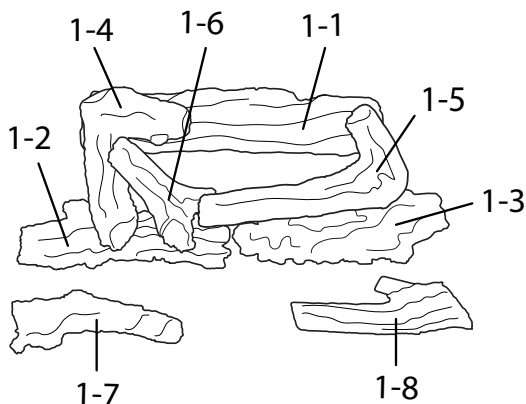
PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
ODS/pilot lights but flame goes out when control knob is released.	1. Control knob is not fully pressed in. 2. Control knob is not pressed in long enough. 3. Equipment shutoff valve is not fully open. 4. Thermocouple connection is loose. 5. Thermocouple damaged. 6. Control valve damaged. 7. Wrong gas setting.	1. Press in control knob fully. 2. After ODS/pilot lights, keep control knob pressed in 30 seconds. 3. Fully open equipment shutoff valve. 4. Hand tighten until snug, and then tighten $\frac{1}{4}$ turn more. 5. Replace thermocouple. 6. Contact customer service. 7. Correct gas selection.
Burner(s) does not light after ODS/pilot is lit.	1. Burner orifice is clogged. 2. Burner orifice diameter is too small. 3. Inlet gas pressure is too low.	1. Clean burner orifice (see Care and Maintenance, page 25 & 26) or contact customer service. 2. Contact customer service. 3. Contact your gas supplier.
Burner(s) does not light after ODS/pilot is lit. (Heater is set up for NG.)	1. Inlet gas pressure is too high.	1. Contact your gas supplier.
Delayed ignition of burner(s).	1. Manifold pressure is too low. 2. Burner orifice is clogged.	1. Contact your gas supplier. 2. Clean burner (see Care and Maintenance, page 25 & 26) or contact customer service.
Burner backfiring during combustion.	1. Burner orifice is clogged or damaged. 2. Burner is damaged. 3. Gas regulator is damaged.	1. Clean burner orifice (see Care and Maintenance, page 25 & 26 or contact customer service. 2. Contact dealer or customer service. 3. Replace gas regulator.
High yellow flame during burner combustion	1. Not enough air. 2. Gas regulator is defective. 3. Inlet gas pressure is too low.	1. Check burner for dirt and debris. If found, clean burner (see Care and Maintenance, page 25 & 26). 2. Replace gas regulator. 3. Contact your gas supplier.
Gas odor during combustion.	1. Foreign matter between control valve and burner. 2. Gas leak. (See Warning Statement at top of page 27).	1. Take apart gas tubing and remove foreign matter. 2. Locate and correct all leaks (see "Checking Gas Connections," page 19).
Heater produces a clicking/ticking noise just after burner is lit or shut off.	1. Metal is expanding while heating or contracting while cooling.	1. This is common with most heaters. If noise is excessive, contact qualified service technician.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
White powder residue forming within burner box or on adjacent walls or furniture.	1. When heated, the vapors from furniture polish, wax, carpet cleaners, etc., turn into white powder residue.	1. Turn heater off when using furniture polish, wax, carpet cleaner or similar products.
Heater produces unwanted odors.	1. Heater is burning vapors from paint, hair spray, glues, etc. See IMPORTANT statement, page 27. 2. Gas leak. See Warning Statement, page 27. 3. Low fuel supply.	1. Ventilate room. Stop using odor causing products while heater is running. 2. Locate and correct all leaks (see "Checking Gas Connections," page 19). 3. Refill supply tank (Propane /LP models).
Heater shuts off in use (ODS operates).	1. Not enough fresh air is available. 2. Low line pressure. 3. ODS/pilot is partially clogged.	1. Open window and/or door for ventilation. 2. Contact local gas supplier. 3. Clean ODS/pilot (see Care and Maintenance, page 25 & 26).
Gas odor exists even when control knob is in OFF position.	1. Gas leak. See Warning Statement at top of page 27. 2. Control valve is defective.	1. Locate and correct all leaks (see "Checking Gas Connections", page 19). 2. Contact customer service.
Moisture/condensation noticed on windows.	1. Not enough combustion/ventilation air.	1. Refer to "Air for Combustion and Ventilation" requirements, page 9.
Slight smoke or odor during initial operation	1. Residues from manufacturing process.	1. Problem will stop after a few hours of operation.
Heater produces a whistling noise when burner is lit.	1. Turning control knob to high (5) position when burner is cold. 2. Air in gas line. 3. Air passageways on heater are blocked. 4. Dirty or partially clogged burner orifice.	1. Turn control knob to low (1) position and let warm up for a minute. 2. Operate burner until air is removed from line. Have gas line checked by local propane/LP gas company. 3. Observe minimum installation clearances (Fig. 5,6,7,8 page 13-14). 4. Clean burner (see Care and Maintenance, page 25 & 26) or contact customer service.

REPLACEMENT PARTS LIST

For replacement parts, call our Technical Service Department at 1-877-447-4768, 8:30 a.m. – 4:30 p.m., CST, Monday – Friday.



ITEM NO.	DESCRIPTION	QTY	PART NO.			
			VFL2-VO24DR VFL2-RO24DR	VFL2-VO30DR VFL2-RO30DR	VFL2-MO24DR	VFL2-MO30DR
1	Log Set (complete)	1	80-06-045	80-06-046	See installation insert	See installation insert
1-1	Log 1	1	4UB2A	4UB3A		
1-2	Log 2	1	H-010A	H-003A		
1-3	Log 3	1	H-010B	H-003B		
1-4	Log 4	1	H-0075	H-0075		
1-5	Log 5	1	H-0139	H-0139		
1-6	Log 6	1	H-0812	H-0812		
1-7	Log 7	1	H-0370	H-0370		
1-8	Log 8	1	H-0356	H-0356		
2	Grate	1	GP289-01	GP290-01	GP289-01	GP290-01
3	Grate End Cap	1	GP287-02	GP287-02	GP287-02	GP287-02
4	ODS Pilot - NG	1	GZ20-30B	GZ20-30B	GZ20-30B	GZ20-30B
5	ODS Pilot - LP	1	GZ20-29B	GZ20-29B	GZ20-29B	GZ20-29B
6	Selector Knob	1	GZ20-17	GZ20-17	GZ20-17	GZ20-17
7-1	Regulator, (NG) Natural Gas 5" WC	1	GR-130B8-GHP	GR-130B8-GHP	GR-130B8-GHP	GR-130B8-GHP
7-2	Regulator, (LP) Propane 10" WC	1	GR-130A8-GHP	GR-130A8-GHP	GR-130A8-GHP	GR-130A8-GHP
8	Ignitor Module	1	GZ20-32a	GZ20-32a	GZ20-32a	GZ20-32a
9	Ember Bed	1	GZ36-18	GZ36-18	GZ36-18	GZ36-18
10	Control Valve	1	GZ20-26	GZ20-26	GZ20-26	GZ20-26
11	Remote Receiver	1	80-05-102	80-05-102	80-05-102	80-05-102
12	Thermostat Remote	1	80-05-101	80-05-101	80-05-101	80-05-101

*Item/version not shown in exploded parts diagram

ACCESSORIES

NOTICE: All accessories may not be available for all models.

Glowing Ember Fibers - GEF100 For all models. Material to simulate glowing embers when the unit is in operation. Creates a realistic glowing effect just like a real fire.