

## OPERATION (CONTINUED)

### CAUTION

Do not try to adjust heating levels by using the manual shutoff valve.

### IMPORTANT

- Do not dry clothes over the heater.
- Do not spray any aerosol near the heater when functioning. Do not store these elements near the appliance.
- Do not touch grill to avoid burns.
- Avoid blocking air inlet and hot air outlet.
- Do not spill water over the heater as it may cause corrosion or damage.
- Do not touch vent cap while heater is operating, to avoid burns.
- If you smell gas, shut off control valve, open doors and windows and do not light any electrical fixture near the heater. Call your Gas Supplier.

**NOTE:** It is normal for the new wall furnace to give some odor the first time it is burned. This is due to the curing of the paint and any undetected oil from the manufacturing process. It is recommended to burn a new wall furnace for at least two (2) hours the first time that it is used.

## CLEANING AND MAINTENANCE

### WARNING

Turn off heater and let cool before cleaning.

### CAUTION

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

### Verify proper operation after servicing.

S'assurer que l'appareil fonctionne adéquatement une fois l'entretien terminé.

### CABINET

#### Exterior

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

#### Air Passageways

Use a vacuum cleaner or pressurized air to clean.

#### Vent Cap

Use a vacuum cleaner or pressurized air to clean.

#### Pilot and Burner

Periodically visually check the pilot and burner flames.  
(View flames through view port)

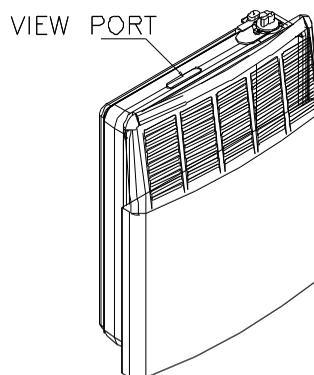


Fig. 22

The correct flame pattern should be viewed by looking through the view port on top of the unit (Fig. 22). The correct flame pattern of pilot and main burner are shown in figures 23, 24, 25 and 26.

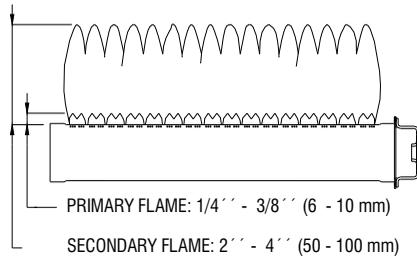
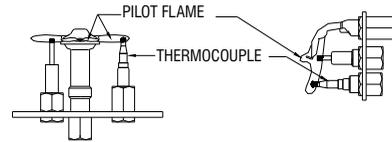


Fig. 23  
Correct main burner flame pattern



Model AGDV20  
Models AGDV8 and 12

Fig. 24  
Correct pilot burner flame pattern

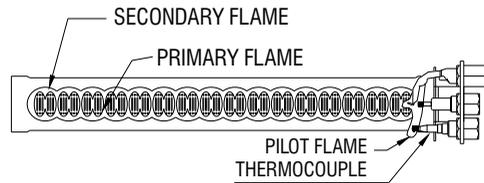


Fig. 25  
Correct main burner flame pattern (top view)  
Models AGDV8 and 12

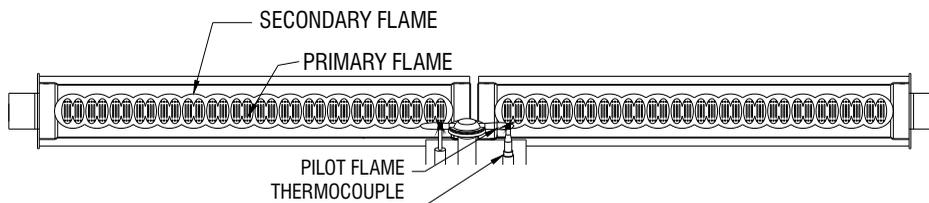


Fig. 26  
Correct main burner flame pattern (top view)  
Model AGDV20

## Cleaning the Main Burner Orifice and Main Burner

1. Turn OFF gas supply to the heater.
2. Remove casing assembly.
3. Disconnect burner tubing and remove orifice holder.
4. Apply compressed air the orifice holder assembly to remove dust, lint or spider webs.
5. Apply compressed air through the hole on the combustion chamber wall where the orifice holder was originally located to remove dust, lint or spider webs.
6. As parts are being replaced in reverse order, check for gas leaks at all gas connections before replacing the casing assembly.

## TROUBLESHOOTING

### WARNING

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

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed, there is no spark at pilot.	1) Ignitor electrode broken.	1) Replace ignitor electrode.
	2) Ignitor electrode not connected to ignitor cable	2) Reconnect ignitor cable.
	3) Ignitor cable pinched or wet.	3) Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry.
	4) Broken ignitor cable.	4) Replace ignitor cable.
	5) Bad piezo ignitor.	5) Replace piezo ignitor.
When ignitor button is pressed, there is spark at pilot but no ignition.	1) Gas supply is turned off or manual shutoff valve closed.	1) Turn on gas supply or open manual shutoff valve.
	2) Control knob not in PILOT position.	2) Turn control knob to PILOT position.
	3) Control knob not pressed in while in pilot position.	3) Press in control knob while in PILOT position.
	4) Air in gas lines when installed.	4) Continue holding down control knob. Repeat igniting operation until air is removed.
	5) Pilot is clogged.	5) Clean pilot orifice or replace pilot assembly.
	6) Gas regulator setting not correct.	6) Replace gas regulator.
Pilot lights but flame goes out when control knob is released.	1) Control knob not fully pressed in.	1) Press in control knob fully.
	2) Control knob not depressed long enough.	2) After pilot lights, keep control knob pressed in 30 seconds.
	3) Manual shutoff valve not fully open.	3) Fully open manual shutoff valve.
	4) Thermocouple connection looses at control valve.	4) Hand tighten until snug, then tighten ¼ turn more.
	5) Pilot flame not touching thermocouple, which allows couple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following: <ul style="list-style-type: none"> <li>• Low gas pressure.</li> <li>• Dirty or partially clogged pilot.</li> </ul>	5) a) Contact local gas company. b) Clean pilot or replace pilot assembly.
	6) Thermocouple damaged.	6) Replace thermocouple.
	7) Control valve damaged.	7) Replace control valve.

## TROUBLESHOOTING (CONTINUED)

Burner does not light after pilot is lit.	1) Burner orifice is clogged.	1) Clean burner orifice or replace burner orifice.
	2) Burner orifice diameter is too small.	2) Replace burner orifice.
	3) Inlet gas pressure is too low.	3) Contact local Gas Company.
Delayed ignition of burner.	1) Manifold pressure is too low.	1) Contact local Gas Company.
	2) Burner or pilot orifice is clogged.	2) Clean burner or pilot orifice or replace it.
Burner backfiring during combustion.	1) Burner orifice is clogged or damaged.	1) Clean burner orifice or replace it.
	2) Gas regulator defective.	2) Replace gas regulator.
Yellow flame during burner combustion.	1) Inlet pipe is blocked.	1) Remove the blockage.
	2) Incorrect connections of pipes.	2) Connect pipes according to installation instructions.
	3) Gas regulator defective	3) Replace gas regulator.
Slight smoke or odor during initial operation.	1) Residues from manufacturing processes.	1) Problem will stop after a while of operation.
Heater produces a whistling noise when burner is lit.	1) Turning control knob to HI position when burner is cold.	1) Turn control knob to LO position and let warm up for a minute.
	2) Air in gas line.	2) Operate burner until air is removed from line. Have gas line checked by local Gas Company.
	3) Dirty or partially clogged burner orifice.	3) Clean burner orifice or replace it.
Heater 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 heaters. If noise is excessive, contact qualified service person.
Heater produces unwanted odors.	1) Gas leak (see WARNING statement below).	1) Locate and correct all leaks (see Checking Gas Connections, page 12)
Heater shuts off in use.	1) Low line pressure.	1) Contact local Gas Company.
	2) Pilot is partially clogged.	2) Clean pilot.
Gas odor even when control knob is in OFF position.	1) Gas leak. See WARNING statement below.	1) Locate and correct all leaks (see Checking Gas Connections, page 12)
	2) Control valve defective.	2) Replace control valve.

## TROUBLESHOOTING (CONTINUED)

### 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.

## SERVICE AND MAINTENANCE

### WARNING

Turn off heater and let cool before servicing.

Verify proper operation after servicing.

### REPLACEMENT PARTS

**NOTE:** In order for you to receive credit for parts replaced under warranty, only original replacements parts must be returned the authorized distributor.

#### A) UNDER WARRANTY:

Contact authorized dealers of this product. If they are unable to supply original replacement part(s), call the authorized distributor. Be prepared to indicate name, address, model number, and how heater was malfunctioning, type of gas used and purchase date. In most cases, the defective part will be requested to be returned to the authorized distributor.

#### B) NOT UNDER WARRANTY:

Contact authorized dealers of this product. If they are unable to supply original replacement part(s), call the authorized distributor. Be prepared to indicate model number and replacement part(s) number.

When calling the authorized distributor have ready:

- Model number of your heater
- The replacement part number

Distributed by:	United States Stove Company. 227 Industrial Park Road, South Pittsburg, TN 37380.
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